QUARTERLY PROGRESS REPORT
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

TO: Darryl Luce, USEPA
Andrew Hoffman, NHDES
Warren Diesl, AECOM Environment

FROM: Work Settling Defendants (WSD)
prepared by Mike Webster and Christene Binger, GeoInsight, Inc.

DATE: October 10, 2011

Christene Binger
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Reason: I am approving this document
Date: 2011.10.17 10:10:18 -04'00'

RE: Quarterly Progress Report

REPORTING PERIOD:

_____January to March – Due April 10th
_____April to June – Due July 10th
__X__July to September – Due October 10th
_____October to December – Due January 10th

I. PROGRESS REPORT OVERVIEW

For these Quarterly Progress Reports, representatives of the United States Environmental Protection Agency (USEPA) and New Hampshire Department of Environmental Services (NHDES) will be collectively referred to as the "Agency(ies)." Remedial Action (RA) activities are being completed at the Dover Municipal Landfill Superfund Site by GeoInsight, Inc. (GeoInsight) and XDD, Inc. (XDD) at the request of the Executive Committee of the Work Settling Defendants (the "Group"). Dean Peschel, Peschel Consulting LLC, is the project coordinator on behalf of the Group.

As requested by Darryl Luce, USEPA Remedial Project Manager, the Quarterly Progress Report was developed to provide an overall summary of completed and ongoing activities. The First Quarterly Report that was submitted on January 10, 2009 included an overview of objectives and an overall summary of activities at the Dover Municipal Landfill. Going forward, Quarterly Progress Reports only include updates for ongoing RA activities. As requested by USEPA, the progress report will be distributed via electronic PDF copies only.

II. OVERVIEW OF LANDFILL ACTIVITIES

This progress report focuses upon activities completed from July to September 2011. During this reporting period, activities were conducted associated with:

- Southern Plume Management of Migration (MOM) (summary attached);

SDMS DocID 476678

- Northwest Landfill Hot Spot Remedial Design and Remedial Action (summary attached); and

- Source Control Remedial Action (SCRA; summary attached).

A master schedule of anticipated activities for 2011 was developed to provide the Agencies and the Group with a consolidated, site-wide summary of activities and likely implementation schedule. The master schedule will be updated each quarter and is included as an attachment.

III. COMMUNITY RELATIONS PLAN

Community relations activities were not performed during this reporting period.

IV. SUMMARY OF REMEDIAL ACTIVITIES

This section of the Quarterly Progress Report provides a summary of the estimated mass of volatile organic compounds (VOC) removed (to date) associated with ongoing remedial activities.

Activity	Pounds of VOCs Removed				
	2008	**2009**	**2010**	**2011**	**Total**
Southern Plume MOM	4.5	4.0	4.3	1.7	14.5
Northwest Landfill Hotspot	0	17,603	22,525	1,684	41,812

V. ATTACHMENTS

- Master Schedule of Anticipated Activities - Year 2011;
- Summary and Status of Activities (three attachments).

MASTER SCHEDULE OF ANTICIPATED ACTIVITIES - YEAR 2011
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
TOLEND ROAD
DOVER, NEW HAMPSHIRE

	2011											
	Q1			Q2			Q3			Q4		
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SOURCE CONTROL												
Source Control Remedial Action												
SCRA Work Plan (approved January 24, 2011)												
Phase I - Finish Closure of Perimeter Ditch												
Construction of Ground Water Extraction (GWE) System												
Enhancement of Permeable Cover												
GWE System Start-up												
Northwest Landfill Hotspot Remedial Action												
Site Preparation Activities and Equipment Testing												
Baseline Sampling												
System Start Up												
Seasonal Operation												
Performance Monitoring												
System Shutdown												
Data submittals (with Quarterly Progress Reports)												
MANAGEMENT OF MIGRATION												
Southern Plume - Ground Water Extraction												
Pre-start up system equipment procurement and configuration modifications												
Baseline Gauging and Sampling												
System Start Up												
Seasonal Operation												
Performance Monitoring												
System Shutdown												
Data submittals (with Quarterly Progress Reports)												
OTHER RESPONSE ACTIONS												
Environmental Monitoring Plan												
Summary Report: Second Monitoring Event (Winter) Year 2010 - Submitted April 12, 2011												
First Monitoring Event (Spring) 2011												
Summary Report: First Monitoring Event (Summer) Year 2011												

SUMMARY AND STATUS OF ACTIVITIES – Q3 - OCTOBER 10, 2011
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

1. Summary of Activities

- coordinating operation of the Southern Plume GWE system;
- performing the periodic performance monitoring event on July 28, 2011;
- conducting weekly system operation, monitoring, and maintenance activities; and
- collecting monthly samples from extraction wells and the frac tank.

2. Deliverables and Correspondence

Deliverables and correspondence was not prepared during this monitoring period. Monthly frac tank data are provided to the POTW operator by email.

3. Schedule for Next Quarter

During the next quarter the following activities are anticipated to be performed:

- weekly system operation, monitoring, and maintenance activities;
- monthly sampling activities from extraction wells and the frac tank;
- performance monitoring events in October and December and transducer download during the month of December;
- on-going evaluation of system performance field data; and
- system shut-down when freezing temperatures occur.

4. Status of Activities

Reporting Schedule - Information regarding the Southern Plume MOM will be included in two of the four annual Quarterly Progress Reports as specified in September 26, 2008 100 Percent Design Report, consistent with the following reporting schedule:

-April to July activities will be included in the October Report
-August to November activities will be included in the subsequent April Report

Remedy Design:	Completed.
Remedy Construction:	100 Percent Complete.
Remedy Implementation:	First, second and third operating season completed. Fourth system operating season initiated on April 12, 2011.
Mass Removal 2008 to 2010:	12.8 pounds
Mass Removal 2011 (to date):	1.7 pounds
Total Mass Removal	**14.5 pounds**

5. Modifications

A new model of pump was installed in MW-206(I).

PERIODIC REMEDY PERFORMANCE REPORT

SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

DATE: October 10, 2011
TO: Darryl Luce, USEPA; Andrew Hoffman, NHDES
FROM: Mike Webster, Christene Binger, and Renee Strondak
RE: Periodic Remedy Performance Report – Implementation of 100 Percent Remedial Design, Southern Plume Management of Migration

REPORTING PERIOD

April to July_____X_____(Due October 10th)
August to November_____(Due April 10th)

A. INTRODUCTION

This Periodic Remedy Performance (PRP) Report provides a summary of operation and maintenance activities associated with the Southern Plume ground water extraction (GWE) system for the period between April 12 and July 31, 2011. The GWE system was designed and installed as part of the Southern Plume Management of Migration (MOM) Remedial Action (RA) for the Dover Municipal Landfill Superfund Site. This is a periodic status report, and, therefore, does not include comprehensive evaluations of system performance and optimization. These evaluations will be presented in the next Annual Remedy Performance (ARP) Report (April 2012).

B. ACTIVITIES (April 12 through July 28, 2011)

i. Pumping Periods

- In general, the GWE system operated between April 12 (first day of the 2011 pumping season) and July 28, 2011 (the middle of the 2011 pumping season). Intermittent brief periods (i.e., hours to several days) of pump downtime were associated with pump maintenance, repair, and/or replacement. Information regarding system operation is presented in the following section of this report. Table 1 summarizes pumping periods for extraction wells MW-206(I) and SB-4D since the GWE system was installed in November 2007.

- During this reporting period, wells MW-206(I) and SB-4D both extracted ground water at an average rate of 0.8 gallons per minute (gpm). The total flow rate for the GWE system, ranged from 0.8 (one extraction well operating) to 2.0 gpm (both extraction wells operating). Additional information regarding GWE system flow rates observed during the 2011 pumping season is summarized in Table 2.

ii. GWE System Operation and Maintenance

- During periods of GWE system operation, O&M activities were performed on a weekly basis. GWE system operational history for the 2011 pumping season is recorded in Table 2. Maintenance of GWE system components was generally conducted according to manufacturer's specifications and is summarized in the Maintenance Log (Table 3).

- In general, the GWE system operated continuously during this reporting period because at least one pump (typically MW-206(I)) was consistently operational during this reporting period. Downtimes of individual pumps (typically SB-4D) during this reporting period were caused by short-circuiting, iron and sediment fouling in the pump chamber(s), and iron and sediment fouling in the water lines. Pump downtime was identified during weekly O&M visits, and necessary maintenance activities were typically completed by the conclusion of each site visit.

- Fouled pumps were removed from the extraction well(s), disassembled, brushed with steel wool, and occasionally soaked in a mild acid solution prior to resuming operation. Influent water lines were disconnected and purged with pressurized air supplied by the on-site air compressor. To minimize operational downtime associated with pump fouling, a third pump was procured in 2009. Using the three pneumatic pumps on a rotating basis allowed two pumps to be extracting ground water, while the third pump was repaired, cleaned, and/or soaked in the acid solution.

- On July 20, 2011, GeoInsight personnel installed a new pump, the Xitech Auto-Isolator 400 Water Pump, in MW-206(I) to evaluate whether a different pneumatic pump model would be less susceptible to fouling and clogging. To date the Xitech pump has not shutdown. The downwell return lines were replaced when the Xitech pump was installed. Pump information is included in Appendix A.

- On July 26, 2011, the downwell return lines in MW-206(I) were replaced with ¾-inch lines.

iii. Discharges

Since the installation of the GWE system in November 2007, approximately 969,966 gallons of ground water have been extracted from the pumping wells and transferred to the City of Dover municipal sewer system for treatment at the Publicly Owned Treatment Works (POTW). During this reporting period, approximately 149,555 gallons of ground water were extracted by the GWE system. GWE system effluent volume estimates are recorded in Table 2.

<u>Extracted Ground Water Summary:</u>

Total Volume 2007 - 2008:	264,588 gallons
Total Volume 2009:	258,068 gallons
Total Volume 2010:	297,755 gallons
Total Volume During Reporting Period	

(April 12 to July 28, 2011)	149,555 gallons
Total Volume to Date:	**969,915 gallons**

iv. Hydraulic Monitoring

- On March 30, 2011, a comprehensive hydraulic monitoring event was conducted to establish "baseline" hydraulic conditions in the Southern Plume MOM RA area prior to system start up. Wells that were included in the comprehensive hydraulic monitoring event are listed in Table 4. A second comprehensive hydraulic monitoring event will be conducted in October 2011 (i.e., during a period of system operation) to evaluate hydraulic conditions during a period of system pumping. Gauging data and an evaluation of pumping versus non-pumping hydraulic conditions will be included in the April 2012 ARP Report.

- In addition to semi-annual gauging events, the GWE system is monitored using pressure transducers installed in key monitoring wells in the same stratigraphic interval as the pumping well (i.e., the Upper Upper Interbedded [UUI] unit), and in wells screened in the Upper Sand (US) and Lower Upper Interbedded (LUI) units (i.e., at elevations above and below the pumping interval). Quarterly downloading of continuous hydraulic monitoring data (i.e., transducer data) was conducted during this reporting period on July 28, 2011. Hydraulic data were recorded at 3-hour intervals in 9 transducers located in the vicinity of MW-206(I). Prior to this pumping season, pressure transducers were removed from three monitoring wells (MW-204(IA), SB-D3I, and B-10WT) during the 2011 season. These transducers will be used to monitor Source Control Remedial Action activities actions at other portions of the site. Hydraulic data recorded between April 12 and July 28, 2011 are presented in Figure 1.

- Prior to the 2010 system start-up, a pressure transducer was installed in extraction well MW-206(I) to monitor drawdown. Average drawdown observed in extraction well MW-206(I) during the 2011 pumping season was between 2 and 4 feet during pumping periods. Hydraulic data recorded from MW-206(I) is included in Figure 1.

C. GROUND WATER MONITORING

i. Influent Water Quality Monitoring

Water samples were collected from sample ports located in the influent water lines at the system manifold. The influent water samples were typically collected on a monthly basis and submitted to Absolute Resource Associates (ARA) formerly known as Resource Laboratories, Inc. of Portsmouth, New Hampshire for volatile organic compounds (VOCs) analysis by the United States Environmental Protection Agency (USEPA) Method 8260 (including tetrahydrofuran [THF]).

THF is the VOC that was detected at the highest concentrations in the influent water samples. The concentrations of THF ranged from 1,100 to 1,300 micrograms per liter (ug/L) in the water samples collected from MW-206(I) and from 1,200 to 1,900 ug/L in water samples collected

from SB-4D. Benzene concentrations ranged from 28 to 31 ug/L in water samples collected from MW-206(I) and from 3 to 38 ug/L in water samples collected from SB-4D.

Other VOCs that were detected in the water samples included toluene, ethylbenzene, xylenes, chloroethane, and chlorobenzene. These VOCs were detected in the water samples at concentrations that did not exceed Interim Cleanup Levels (ICLs). In general, these data are consistent with data collected during the 2008, 2009, and 2010 operating seasons. Analytical results for samples collected during the 2011 pumping season are summarized in Tables 6 and 7. Historical data (2008, 2009, and 2010) were presented in previous status reports. Plots illustrating influent concentrations of THF and benzene versus time for the 2008, 2009, 2010, and 2011 pumping seasons are included in Figure 2 (MW-206(I)) and Figure 3 (SB-4D). Laboratory analytical reports for influent samples collected during this reporting period are presented in Appendix B.

THF and benzene data from each extraction well were analyzed for statistical parameters, including; peak maximum concentration, peak minimum concentration, mean concentration, and median concentration. Statistical parameters are presented on Figures 2 and 3. The statistical parameters will be calculated for each pumping season and utilized to evaluate concentration trends over time.

ii. POTW Compliance Monitoring

Water samples were collected from the frac tank on a monthly basis to evaluate compliance with Dover POTW requirements. The water samples were analyzed for the parameters consistent with the Dover POTW monitoring requirements summarized in Table 1 of the 100 Percent Remedial Design Southern Plume MOM report. Analytical results are reported to the POTW operator as they become available. To date, the POTW operator has reviewed these data and additional analyses have not been requested. Analytical results for samples collected during the 2011 pumping season are summarized in Table 8. Historical data (2008-2010) were presented in previous status reports. Laboratory analytical reports for frac tank samples collected during this monitoring period are presented in Appendix B.

iii. Mass Removal Estimates

Water samples were collected on a monthly basis from the influent sample ports and submitted for VOC analyses (including THF). These analytical data were used to monitor constituent concentration trends over time and to estimate VOC mass removal to date. Calculations of mass removal were based upon the analytical data associated with monthly VOC monitoring and the approximate volumes of extracted ground water based upon totalizer readings.

THF is the VOC that was detected at the highest concentrations in the influent water samples. The concentrations of THF in the influent water samples ranged from 1,100 to 1,900 ug/L. Other VOCs that were detected in the water samples included benzene, toluene, ethylbenzene, xylenes, chloroethane, and chlorobenzene (Tables 6 and 7). These VOCs were detected in the water samples at concentrations that were typically 2 or more orders of magnitude lower than the

THF concentrations. Consequently, THF represents the majority of VOC mass that has been removed by the GWE system.

Consistent with evaluations completed during the Pilot Study and the 2008, 2009, and 2010 pumping seasons, THF and benzene are the primary VOC constituents of concern (COCs) within the Southern Plume (i.e., the VOCs that have been detected in ground water at concentrations above applicable ICLs). Therefore, calculations of mass removal associated with the GWE system focused upon these two VOCs. These calculations indicate that approximately 1.7 pounds of THF and benzene (combined) were removed by operation of the GWE system during the reporting period (April 12 through July 31, 2011). Approximately 14.5 pounds of THF and benzene have been removed since initiation of the GWE system in 2008. THF represents over 98 percent of the mass removed.

Mass removal calculations associated with THF and benzene are summarized in Table 9. These mass removal calculations will be updated as the GWE system is operated during subsequent pumping seasons.

iv. Ground Water Monitoring

On April 5 and April 6, 2011, a ground water sampling event was conducted to evaluate baseline ground water conditions prior to GWE system start up. The ground water samples were collected from monitoring wells located upgradient, within, and downgradient of the Southern Plume MOM RA area. Wells included in the annual baseline monitoring event are listed in Table 4 and include wells positioned in the US, UUI, and LUI stratigraphic units.

A quarterly performance monitoring event was conducted on July 28, 2011. The quarterly performance monitoring event was focused upon monitoring wells located within the portion of the Southern Plume MOM RA area that is expected to be most influenced by extraction well MW-206(I). Wells included in the focused ground water monitoring event are listed in Table 4 and include wells located within the same stratigraphic unit as the pumping well. Tables that summarize baseline and quarterly performance monitoring ground water analytical results are included in Appendix B and laboratory analytical reports are included in Appendix C.

Data collected during the 2011 baseline and quarterly performance monitoring events will be used to evaluate system performance. An evaluation of these data will be presented in the April 2012 ARP Report.

SUMMARY OF ATTACHMENTS

TABLES

TABLE 1	Summary of Pumping Periods
TABLE 2	Summary of GWE System Operational History – 2011
TABLE 3	Maintenance Tracking Log - 2011
TABLE 4	Matrix of Monitoring Activities
TABLE 5	Summary of Monitoring Well Gauging Data
TABLE 6	Summary of Laboratory Analytical Data – Influent VOC Monitoring – MW-206(I) – 2011
TABLE 7	Summary of Laboratory Analytical Data – Influent VOC Monitoring – SB-4D – 2011
TABLE 8	Summary of Laboratory Analytical Data – Frac Tank with POTW Local Limits and Screening Levels – 2011
TABLE 9	Mass Removal Calculations – 2011

FIGURES

FIGURE 1	Transducer Water Elevation Data (April 7, 2011 – July 28, 2011)
FIGURE 2	Concentration Versus Time – MW-206(I) (2008 – Present)
FIGURE 3	Concentration Versus Time – SB-4D (2008 – Present)

APPENDICES

APPENDIX A	Xitech Auto-Isolator 400 Water Pump Information
APPENDIX B	Performance Monitoring Well Analytical Data Tables
APPENDIX C	Laboratory Analytical Data (provided to USEPA on CD)
APPENDIX D	Concentration versus Time – Quarterly Performance Monitoring Wells

TABLES

TABLE 1
SUMMARY OF PUMPING PERIODS
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

Pumping Period	Average Total System Flow Rate (gpm)	Wells Operating	Total Volume Extracted To Date (gallons)
Initial Pilot Test			
November 29 to December 1, 2007	1.3	MW-206(I) SB-4D	7,115
Pilot Test Period			
April 16 to April 19, 2008	2.2	MW-206(I) SB-4D	15,441
May 1 to May 5, 2008	2.4	MW-206(I) SB-4D	30,605
May 12 to June 10, 2008	0.7	MW-206(I)	56,342
June 13 to June 17, 2008	0.7	MW-206(I)	60,590
2008 Operating Season			
June 20 to July 15, 2008	1.3	SB-4D	104,782
July 15 to August 5, 2008	0.8	MW-206(I)	130,030
August 5 to November 11, 2008	1.4	MW-206(I) SB-4D	256,588
November 11 to November 25, 2008	1.4	SB-4D	264,588
2009 Operating Season			
April 29 to December 1, 2009	1.5*	MW-206(I) SB-4D	522,656
2010 Operating Season			
April 19 to November 8, 2010	1.5*	MW-206(I) SB-4D	820,411
2011 Operating Season			
April 12 to July 28	1.5*	MW-206(I) SB-4D	969,915

NOTES:
1. gpm = gallons per minute.
2. Average system flow rates were calculated using manual flow measurements collected throughout the specified pumping period. When more than one well was pumping, flow rates for the individual wells were added to calculate the total system flow rate.
3. * = Average flow rate during periods of system operation.

TABLE 2
SUMMARY OF GWE SYSTEM OPERATIONAL HISTORY - 2011
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

DATE	DAYS SINCE LAST VISIT	ACTIVITIES/NOTES	SAMPLES COLLECTED	SYSTEM OPERATING ON ARRIVAL	SYSTEM OPERATING ON DEPARTURE	PRESSURE AT REGULATOR SB-4D (PSI)	PRESSURE AT REGULATOR MW-206(I) (PSI)	APPROXIMATE FLOW RATE SB-4D (GPM)	APPROXIMATE FLOW RATE MW-206(I) (GPM)	TOTAL SYSTEM FLOW RATE (GPM)	WELL(S) PUMPING AT ARRIVAL	TOTALIZER READING - SB-4D	TOTALIZER READING - MW-206I	APPROXIMATE VOLUME PUMPED TO DATE
TOTAL VOLUME PUMPED PRIOR TO 2011 SYSTEM STARTUP														**820,411**
04/12/11	---	BPP and JRF on-site for system startup	NO	NO	YES (MW-206(I) OFF)	---	---	0.8	---	0.8	---	104566	193240	820,411
04/13/11	1	BPP on-site for system startup	NO	YES (MW-206(I) OFF)	YES	---	---	0.8	1.2	2.0	SB-4D	104695	193240	820,540
04/19/11	6	BPP on-site for system O&M and water transfer	NO	YES	YES	102	102	0.9	1.1	2.0	SB-4D/MW-206(I)	109209	202857	834,671
04/25/11	6	BPP on-site for system O&M and sampling	FRAC TANK & INFLUENT	YES (SB-4D OFF)	YES (SB-4D OFF)	---	102	0.7	0.9	1.6	MW-206(I)	109268	212453	844,326
05/03/11	8	BPP on-site for system O&M	NO	YES (SB-4D OFF)	YES	80	102	1.1	1.1	2.1	MW-206(I)	109304	223227	855,136
05/10/11	7	BPP on-site for system O&M and sampling	FRAC TANK & INFLUENT	YES	YES	80	102	0.8	0.8	1.6	SB-4D/MW-206(I)	116374	231924	870,903
05/16/11	6	BPP on-site for system O&M	NO	YES (SB-4D OFF)	YES	90	102	0.9	0.8	1.7	MW-206(I)	118434	239328	880,367
05/24/11	8	BPP on-site for system O&M	NO	YES	YES	90	102	0.9	0.7	1.6	SB-4D/MW-206(I)	122880	247905	893,390
05/31/11	7	BPP on-site for system O&M	NO	YES (SB-4D OFF)	YES	90	102	0.9	0.7	1.6	MW-206(I)	127252	254643	904,500
06/07/11	7	BPP on-site for system O&M	NO	YES (SB-4D OFF)	YES (SB-4D OFF)	---	102	---	0.9	0.9	MW-206(I)	128043	260105	910,753
06/08/11	1	BPP on-site for system O&M & SCRA pump test	NO	YES (SB-4D OFF)	YES (SB-4D OFF)	---	102	0.9	0.8	1.7	MW-206(I)	128043	260105	910,753
06/14/11	6	BPP on-site for system O&M	FRAC TANK & INFLUENT	YES (SB-4D OFF)	YES	102	102	0.7	0.7	1.4	MW-206(I)	128286	265096	915,987
06/22/11	8	BPP on-site for system O&M	NO	YES (SB-4D OFF)	YES	102	102	1.0	0.6	1.6	MW-206(I)	128897	269695	921,197
06/28/11	6	BPP on-site for system O&M	NO	YES (SB-4D OFF)	YES	102	102	0.9	0.5	1.4	MW-206(I)	131197	272393	926,195
07/06/11	8	BPP on-site for system O&M	NO	YES	YES	102	102	0.9	0.5	1.4	SB-4D/MW-206(I)	140748	276377	939,730
07/12/11	6	BPP on-site for system O&M	FRAC TANK & INFLUENT	YES	YES	102	102	0.8	0.5	1.2	SB-4D/MW-206(I)	146659	278710	947,974
07/18/11	6	BPP on-site for system O&M	NO	YES	YES	102	118	0.8	0.4	1.2	SB-4D/MW-206(I)	153239	281132	956,976
07/20/11	2	BPP on-site for system O&M & SCRA pump test	NO	YES	YES	102	100	0.8	---	0.8	SB-4D/MW-206(I)	155444	281619	959,668
07/26/11	4	BPP on-site for system O&M	NO	YES	YES	102	100	0.7	1.3	2.0	SB-4D/MW-206(I)	160898	283161	966,664
07/27/11	1	BPP on-site for system O&M	NO	YES	YES	102	100	0.5	0.9	1.4	SB-4D/MW-206(I)	163481	283829	969,915

NOTES:
1. --- = not recorded or not applicable.
2. psi = pounds per square inch.
3. gpm = gallons per minute.
4. BPP = Brian Poulin, primary system operator; JRF = Joshua Funk, system operator.
5. CHES = Clean Harbors Environmental Services.
6. This table was derived from Table 2 of the Southern Plume Remedial Action Management of Migration Operation and Maintenance Plan (SPRA O&M Plan).

TABLE 3
MAINTENANCE TRACKING LOG - 2011
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

DATE	FIELD STAFF	MAINTENANCE PERFORMED	NOTES	SYSTEM AT ARRIVAL (ON/OFF)	SYSTEM AT DEPARTURE (ON/OFF)
04/12/11	BPP	Installed new water return line and replaced system connections. Trench air and water lines under SCRA perimeter ditch road. SB-4D startup.	New system setup in place, totalizers operating. Pump in SB-4D operating at departure.	OFF	ON (MW-206(I) OFF)
04/13/11	BPP	MW-206(I) startup.	Pump in MW-206(I) operating at departure.	ON (MW-206(I) OFF)	ON
04/19/11	BPP	Pump in SB-4D was "short-circuiting" for unknown reason.	Pump in SB-4D operating at departure.	ON	ON
04/25/11	BPP	Pump in SB-4D was "short-circuiting" for unknown reason.	Pump in SB-4D not redeployed. Will replace upon return of refurbished unit.	ON (SB-4D OFF)	ON (SB-4D OFF)
05/03/11	BPP	Pulled and cleaned pump in MW-206(I) and placed in SB-4D.	Refurbished pump placed in MW-206(I).	ON (SB-4D OFF)	ON
05/10/11	BPP	Pulled and cleaned pump in SB-4D.	Pump in SB-4D operating at departure.	ON	ON
05/16/11	BPP	Pulled pump in SB-4D and found obstruction in check valve. Pump cleaned and replaced in SB-4D.	Pump in SB-4D operating at departure.	ON (SB-4D OFF)	ON
05/24/11	BPP	Pulled and cleaned pump in MW-206(I).	Pump in MW-206(I) operating at departure.	ON	ON
05/31/11	BPP	SB-4D hung up. Pulled and cleaned pump in SB-4D.	Pump in SB-4D operating at departure.	ON (SB-4D OFF)	ON
06/07/11	BPP	SB-4D hung up. Pulled and cleaned pump in MW-206(I).	Pump in MW-206(I) operating at departure.	ON (SB-4D OFF)	ON (SB-4D OFF)
06/08/11	BPP	Pulled and cleaned pump in SB-4D. Cleared SB-4D return line with compressed air.	Pump in MW-206(I) operating at departure.	ON (SB-4D OFF)	ON (SB-4D OFF)
06/14/11	BPP	SB-4D hung up. Pulled and cleaned pump in SB-4D.	Pump in SB-4D operating at departure.	ON (SB-4D OFF)	ON
06/22/11	BPP	SB-4D hung up. Pulled and cleaned pump in MW-206(I).	Pump in SB-4D operating at departure.	ON (SB-4D OFF)	ON
06/28/11	BPP	SB-4D hung up. Pulled and cleaned pump in SB-4D.	Pump in SB-4D operating at departure.	ON (SB-4D OFF)	ON
07/06/11	BPP	Pulled and cleaned pump in MW-206(I).	Pump in MW-206(I) operating at departure.	ON	ON
07/12/11	BPP	Pulled and cleaned pump in SB-4D. Cleared MW-206(I) return line with compressed air. Changed compressor oil.	Pump in SB-4D operating at departure.	ON	ON
07/18/11	BPP	Performed system operation and maintenance.	Pump in SB-4D operating at departure.	ON	ON
07/20/11	BPP	Installed new pump in MW-206(I). Replaced downwell return lines. Cleared return lines with compressed air prior to start-up.	Pump in MW-206(I) operating at departure.	ON	ON
07/26/11	BPP	Replaced downwell return lines in MW-206(I) with 3/4 inch lines.	Pump in MW-206(I) operating at departure.	ON	ON
07/27/11	BPP	Pulled and cleaned pump in SB-4D. Cleared SB-4D return line with compressed air.	Pump in SB-4D operating at departure.	ON	ON

NOTES:
1. BPP = Brian Poulin; GWE primary system operator.
2. JRF = Joshua Funk; GWE system operator.
3. --- = System maintenance activities not conducted.
4. This table was derived from appendix H of the Southern Plume Remedial Action Management of Migration Operation and Maintenance Plan (SPRA O&M Plan).

TABLE 4
MATRIX OF MONITORING ACTIVITIES
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

		HYDRAULIC MONITORING		GROUND WATER QUALITY MONITORING			
WELL ID	STRATIGRAPHIC UNIT	COMPREHENSIVE GAUGING	CONTINUOUS HYDRAULIC INFLUENCE MONITORING	ANNUAL SAMPLING (APRIL)	QUARTERLY REMEDY PERFORMANCE MONITORING		
					JULY	OCTOBER	DECEMBER
Existing Monitoring Wells							
MW-206(I)	UUI	X	X				
PT-1	LUI	X	X				
PT-2	LUI	X					
PT-3	LUI	X					
SB-B1(S)	US	X		X			
SB-B2(I)	UUI	X	X	X	X	X	X
SB-B3(D)	LUI	X		X			
B-10WT	US	X	**removed April 2011**				
MW-200(S)	US	X		X			
MW-200(I)	UUI	X	X	X	X	X	X
MW-200(D)	LUI	X		X			
SB-10I	UUI	X		X			
SB-10D	LUI	X					
SB-D1	US	X		X			
SB-D2	UUI	X		X			
SB-D3I	UUI	X	**removed April 2011**	X			
SB-4D	UUI	X					
SC-10US	US	X					
SC-10UUI	UUI	X					
SC-10LUI	LUI	X					
SC-11US	US	X					
SC-11UUI	UUI	X					
SC-18US	US	X					
SC-18UUI	UUI	X					
B-4W	US	X					
SB-8U	UUI	X					
SB-8D	LUI	X					
SB-A1	US	X					
SB-A2	US	X					
MW-201(S)	US	X					
MW-201(I)	UUI	X					
MW-201(D)	LUI	X					
MW-202(S)	US	X					
MW-203(S)	US	X					
MW-204(S)	US	X					
MW-204(IA)	UUI	X	**removed April 2011**	X			
MW-204(IB)	UUI	X					
MW-204(D)	LUI	X					
MW-205(I)	UUI	X					
SC-8US	US	X					
SC-8UUI	UUI	X					
SC-8LUI	LUI	X					
SB-C1	US	X					
SB-C2	UUI	X					
B-8WT	US	X					
MW-102S	US	X					
MW-102U	UUI	X					
Performance Monitoring Wells							
MW-206(S)	US	X	X	X			
MW-207(I)	UUI	X	X	X	X	X	X
MW-208(S)	US	X	X	X			
MW-208(I)	UUI	X	X	X	X	X	X
MW-209(I)	UUI	X	X	X	X	X	X

NOTES:
1. This table was derived from Table 5 of of the Southern Plume Remedial Action Management of Migration Operation and Maintenance Plan (SPRA O&M Plan).

TABLE 5
SUMMARY OF MONITORING WELL GAUGING DATA
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

ID	DATE	ELEVATION (TOP OF PVC)	DEPTH TO WATER	GW ELEVATION
B-10WT	4/16/2009	146.21	1.89	144.32
	10/6/2009	146.21	3.12	143.09
	3/26/2010	146.21	1.82	144.39
	11/8/2010	146.21	3.02	143.19
	3/30/2011	146.21	1.96	144.25
B-4WT	4/16/2009	150.98	4.34	146.64
	10/6/2009	150.98	4.44	146.54
	3/26/2010	150.98	4.16	146.82
	11/8/2010	150.98	4.21	146.77
	3/30/2011	150.98	4.23	146.75
B-8WT	4/16/2009	147.41	2.52	144.89
	10/6/2009	147.41	3.82	143.59
	3/26/2010	147.41	2.28	145.13
	11/8/2010	147.41	3.55	143.86
	3/30/2011	147.41	2.35	145.06
MW-102S	4/16/2009	143.99	---	---
	10/6/2009	143.99	4.99	139.00
	3/26/2010	143.99	3.55	140.44
	11/8/2010	143.99	4.32	139.67
	3/30/2011	143.99	---	---
MW-102U	4/16/2009	142.16	2.21	139.95
	10/6/2009	142.16	2.71	139.45
	3/26/2010	142.16	2.53	139.63
	11/8/2010	142.16	2.91	139.25
	3/30/2011	142.16	1.86	140.30
MW-200(S)	4/16/2009	146.53	2.41	144.12
	10/6/2009	146.53	2.71	143.82
	3/26/2010	146.53	2.26	144.27
	11/8/2010	146.53	2.64	143.89
	3/30/2011	146.53	2.42	144.11
MW-200(I)	4/16/2009	145.62	---	---
	10/6/2009	147.90*	2.97	144.93
	3/26/2010	147.90*	2.01	145.89
	11/8/2010	147.90*	3.20	144.70
	3/30/2011	147.90*	1.76	146.14
MW-200(D)	4/16/2009	145.76	1.00	144.76
	10/6/2009	145.76	1.84	143.92
	3/26/2010	145.76	0.70	145.06
	11/8/2010	145.76	3.19	142.57
	3/30/2011	145.76	0.11	145.65

TABLE 5
SUMMARY OF MONITORING WELL GAUGING DATA
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

ID	DATE	ELEVATION (TOP OF PVC)	DEPTH TO WATER	GW ELEVATION
MW-201(S)	4/16/2009	145.69	2.80	142.89
	10/6/2009	145.69	3.86	141.83
	3/26/2010	145.69	2.67	143.02
	11/8/2010	145.69	3.44	142.25
	3/30/2011	145.69	2.91	142.78
MW-201(I)	4/16/2009	145.99	1.21	144.78
	10/6/2009	145.99	2.14	143.85
	3/26/2010	145.99	1.10	144.89
	11/8/2010	145.99	2.92	143.07
	3/30/2011	145.99	0.99	145.00
MW-201(D)	4/16/2009	145.83	2.27	143.56
	10/6/2009	145.83	3.10	142.73
	3/26/2010	145.83	2.00	143.83
	11/8/2010	145.83	3.44	142.39
	3/30/2011	145.83	1.89	143.94
MW-202(S)	4/16/2009	142.60	2.33	140.27
	10/6/2009	142.60	2.13	140.47
	3/26/2010	142.60	2.20	140.40
	11/8/2010	142.60	2.04	140.56
	3/30/2011	142.60	2.95	139.65
MW-203(S)	4/16/2009	145.73	5.20	140.53
	10/6/2009	145.73	5.78	139.95
	3/26/2010	145.73	4.43	141.30
	11/8/2010	145.73	5.08	140.65
	3/30/2011	145.73	7.06	138.67
MW-204(S)	4/16/2009	145.42	2.51	142.91
	10/6/2009	145.42	3.36	142.06
	3/26/2010	145.42	2.54	142.88
	11/8/2010	145.42	3.23	142.19
	3/30/2011	145.42	3.71	141.71
MW-204(IA)	4/16/2009	145.85	2.98	142.87
	10/6/2009	145.85	3.73	142.12
	3/26/2010	145.85	2.82	143.03
	11/8/2010	145.85	3.46	142.39
	3/30/2011	145.85	---	---
MW-204(IB)	4/16/2009	145.41	1.60	143.81
	10/6/2009	145.41	2.11	143.30
	3/26/2010	145.41	1.34	144.07
	11/8/2010	145.41	2.18	143.23
	3/30/2011	145.41	1.39	144.02
MW-204(D)	4/16/2009	145.69	2.26	143.43
	10/6/2009	145.69	3.00	142.69
	3/26/2010	145.69	1.88	143.81
	11/8/2010	145.69	3.39	142.30
	3/30/2011	145.69	1.43	144.26

TABLE 5
SUMMARY OF MONITORING WELL GAUGING DATA
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

ID	DATE	ELEVATION (TOP OF PVC)	DEPTH TO WATER	GW ELEVATION
MW-205(I)	4/16/2009	147.17	4.35	142.82
	10/6/2009	147.17	4.59	142.58
	3/26/2010	147.17	4.11	143.06
	11/8/2010	147.17	4.54	142.63
	3/30/2011	147.17	4.37	142.80
MW-206(S)	4/16/2009	149.40	4.76	144.64
	10/6/2009	149.40	4.88	144.52
	3/26/2010	149.40	4.62	144.78
	11/8/2010	149.40	4.08	145.32
	3/30/2011	149.40	4.75	144.65
MW-206(I)	4/16/2009	149.03	2.55	146.48
	10/6/2009	149.03	6.16	142.87
	3/26/2010	149.03	2.21	146.82
	11/8/2010	149.03	4.96	144.07
	3/30/2011	149.03	1.84	147.19
MW-207(I)	4/16/2009	146.97	0.34	146.63
	10/6/2009	146.97	1.73	145.24
	3/26/2010	146.97	0.15	146.82
	11/8/2010	146.97	1.70	145.27
	3/30/2011	146.97	---	---
MW-208(S)	4/16/2009	147.11	2.50	144.61
	10/6/2009	147.11	2.66	144.45
	3/26/2010	147.11	2.47	144.64
	11/8/2010	147.11	2.61	144.50
	3/30/2011	147.11	2.58	144.53
MW-208(I)	4/16/2009	147.29	0.67	146.62
	10/6/2009	147.29	1.97	145.32
	3/26/2010	147.29	0.41	146.88
	11/8/2010	147.29	1.94	145.35
	3/30/2011	147.29	0.04	147.25
MW-209(I)	4/16/2009	147.39	0.81	146.58
	10/6/2009	147.39	1.85	145.54
	3/26/2010	147.39	0.50	146.89
	11/8/2010	147.39	1.91	145.48
	3/30/2011	147.39	0.14	147.25
PT-1	4/16/2009	148.51	2.75	145.76
	10/6/2009	148.51	3.61	144.90
	3/26/2010	148.51	2.35	146.16
	11/8/2010	148.51	3.92	144.59
	3/30/2011	148.51	1.87	146.64
PT-2	4/16/2009	148.39	2.60	145.79
	10/6/2009	148.39	3.47	144.92
	3/26/2010	148.39	2.22	146.17
	11/8/2010	148.39	3.79	144.60
	3/30/2011	148.39	1.72	146.67

TABLE 5
SUMMARY OF MONITORING WELL GAUGING DATA
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

ID	DATE	ELEVATION (TOP OF PVC)	DEPTH TO WATER	GW ELEVATION
PT-3	4/16/2009	149.39	3.51	145.88
	10/6/2009	149.39	4.39	145.00
	3/26/2010	149.39	3.35	146.04
	11/8/2010	149.39	4.70	144.69
	3/30/2011	149.39	2.56	146.83
SB-10I	4/16/2009	147.96	2.29	145.67
	10/6/2009	147.96	2.64	145.32
	3/26/2010	147.96	2.18	145.78
	11/8/2010	147.96	2.99	144.97
	3/30/2011	147.96	2.31	145.65
SB-10D	4/16/2009	148.35	2.41	145.94
	10/6/2009	148.35	3.17	145.18
	3/26/2010	148.35	2.14	146.21
	11/8/2010	148.35	3.37	144.98
	3/30/2011	148.35	1.81	146.54
SB-4D	4/16/2009	150.51	2.69	147.82
	10/6/2009	150.51	---	---
	3/26/2010	150.51	2.38	148.13
	11/8/2010	150.51	3.75	146.76
	3/30/2011	150.51	1.90	148.61
SB-8U	4/16/2009	148.66	3.07	145.59
	10/6/2009	148.66	3.33	145.33
	3/26/2010	148.66	2.74	145.92
	11/8/2010	148.66	3.34	145.32
	3/30/2011	148.66	2.71	145.95
SB-8D	4/16/2009	148.50	3.37	145.13
	10/6/2009	148.50	2.31	146.19
	3/26/2010	148.50	1.26	147.24
	11/8/2010	148.50	2.80	145.70
	3/30/2011	148.50	0.41	148.09
SB-A1	4/16/2009	151.31	3.95	147.36
	10/6/2009	151.31	4.22	147.09
	3/26/2010	151.31	3.74	147.57
	11/8/2010	151.31	3.98	147.33
	3/30/2011	151.31	---	---
SB-A2	4/16/2009	151.08	3.69	147.39
	10/6/2009	151.08	3.96	147.12
	3/26/2010	151.08	3.48	147.60
	11/8/2010	151.08	3.74	147.34
	3/30/2011	151.08	3.66	147.42
SB-B1 (S)	4/16/2009	148.52	4.23	144.29
	10/6/2009	148.52	4.43	144.09
	3/26/2010	148.52	4.11	144.41
	11/8/2010	148.52	4.33	144.19
	3/30/2011	148.52	4.28	144.24

TABLE 5
SUMMARY OF MONITORING WELL GAUGING DATA
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

ID	DATE	ELEVATION (TOP OF PVC)	DEPTH TO WATER	GW ELEVATION
SB-B2 (I)	4/16/2009	148.21	1.67	146.54
	10/6/2009	148.21	2.88	145.33
	3/26/2010	148.21	1.40	146.81
	11/8/2010	148.21	3.90	144.31
	3/30/2011	148.21	1.07	147.14
SB-B3 (D)	4/16/2009	148.53	2.44	146.09
	10/6/2009	148.53	3.34	145.19
	3/26/2010	148.53	2.04	146.49
	11/8/2010	148.53	3.65	144.88
	3/30/2011	148.53	1.70	146.83
SB-C1	4/16/2009	148.15	3.82	144.33
	10/6/2009	148.15	5.74	142.41
	3/26/2010	148.15	3.52	144.63
	11/8/2010	148.15	4.51	143.64
	3/30/2011	148.15	3.54	144.61
SB-C2	4/16/2009	147.88	3.12	144.76
	10/6/2009	147.88	3.87	144.01
	3/26/2010	147.88	2.64	145.24
	11/8/2010	147.88	4.09	143.79
	3/30/2011	147.88	1.71	146.17
SB-D1	4/16/2009	148.03	4.13	143.90
	10/6/2009	148.03	4.63	143.40
	3/26/2010	148.03	4.00	144.03
	11/8/2010	148.03	4.42	143.61
	3/30/2011	148.03	4.11	143.92
SB-D3(I)	4/16/2009	147.57	2.34	145.23
	10/6/2009	147.57	2.90	144.67
	3/26/2010	147.57	2.05	145.52
	11/8/2010	147.57	2.89	144.68
	3/30/2011	147.57	1.90	145.67
SB-D2	4/16/2009	147.91	3.09	144.82
	10/6/2009	147.91	3.89	144.02
	3/26/2010	147.91	2.69	145.22
	11/8/2010	147.91	4.08	143.83
	3/30/2011	147.91	2.06	145.85
SC-8US	4/16/2009	150.08	5.18	144.90
	10/6/2009	150.08	5.52	144.56
	3/26/2010	150.08	4.78	145.30
	3/30/2011	150.08	3.20	146.88
SC-8UUI	4/16/2009	150.07	4.30	145.77
	10/6/2009	150.07	2.43	147.64
	3/26/2010	150.07	4.10	145.97
	3/30/2011	150.07	2.58	147.49

TABLE 5
SUMMARY OF MONITORING WELL GAUGING DATA
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

ID	DATE	ELEVATION (TOP OF PVC)	DEPTH TO WATER	GW ELEVATION
SC-8LUI	4/16/2009	150.20	4.62	145.58
	10/6/2009	150.20	2.80	147.40
	3/26/2010	150.20	3.90	146.30
	3/30/2011	150.20	3.07	147.13
SC-10US	4/16/2009	150.09	4.06	146.03
	10/6/2009	150.09	4.42	145.67
	3/26/2010	150.09	3.77	146.32
	11/8/2010	150.09	4.12	145.97
	3/30/2011	150.09	3.48	146.61
SC-10UUI	4/16/2009	149.15	2.15	147.00
	10/6/2009	149.15	2.97	146.18
	3/26/2010	149.15	1.80	147.35
	11/8/2010	149.15	3.01	146.14
	3/30/2011	149.15	1.19	147.96
SC-10LUI	4/16/2009	149.49	2.65	146.84
	10/6/2009	149.49	3.73	145.76
	3/26/2010	149.49	2.21	147.28
	11/8/2010	149.49	3.96	145.53
	3/30/2011	149.49	1.39	148.10
SC-11US	4/16/2009	150.75	3.92	146.83
	10/6/2009	150.75	4.16	146.59
	3/26/2010	150.75	3.81	146.94
	11/8/2010	150.75	3.89	146.86
	3/30/2011	150.75	3.82	146.93
SC-11UUI	4/16/2009	150.25	2.55	147.70
	10/6/2009	150.25	3.23	147.02
	3/26/2010	150.25	2.23	148.02
	11/8/2010	150.25	3.29	146.96
	3/30/2011	150.25	1.81	148.44
SC-18US	4/16/2009	149.78	3.79	145.99
	10/6/2009	149.78	4.19	145.59
	3/26/2010	149.78	3.58	146.20
	11/8/2010	149.78	3.93	145.85
	3/30/2011	149.78	2.95	146.83
SC-18UUI	4/16/2009	149.64	2.91	146.73
	10/6/2009	149.64	3.67	145.97
	3/26/2010	149.64	2.55	147.09
	11/8/2010	149.64	3.64	146.00
	3/30/2011	149.64	1.94	147.70

NOTES:
1. Depth to water measured in feet.
2. Well elevation referenced to North American Vertical Datum of 1988 (NAVD 88).
3. * = Top of casing raised on June 15, 2009.
4. --- = Well was not gauged.

TABLE 6
SUMMARY OF LABORATORY ANALYTICAL DATA
INFLUENT VOC MONITORING - MW-206(I) - 2011
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

Analyte	POTW Screening Levels	25-Apr-11	10-May-11	14-Jun-11	12-Jul-11
benzene	N/A	**28**	**30**	**28**	**31**
ethylbenzene	**1,590**	**19**	**23**	**22**	**23**
toluene	**1,350**	<2	**2**	<2	<2
xylenes (total)	N/A	**81**	**98**	**98**	**99**
PCE	**530**	<2	<2	<2	<2
TCE	**710**	<2	<2	<2	<2
cis-1,2-DCE	**280***	<2	<2	<2	<2
vinyl chloride	**3**	<2	<2	<2	<2
acetone	**1,176,000**	<50	<50	<50	<50
tetrahydrofuran	N/A	**1,300**	**1,100**	**1,300**	**1,300**
MEK	**249,000**	<10	<10	<10	<10
MIBK	N/A	<10	<10	<10	<10
methylene chloride	**4,150**	<5	<5	<5	<5
1,1,1-TCA	**1,550****	<2	<2	<2	<2
1,1-DCA	**4,580**	<2	<2	<2	<2
1,1-DCE	N/A	<1	<1	<1	<1
1,2-DCA	N/A	<2	<2	<2	<2
bromomethane	**2**	<2	<2	<2	<2
chloromethane	**7**	<2	<2	<2	<2
chloroform	**420**	<2	<2	<2	<2
dibromochloromethane	N/A	<2	<2	<2	<2
bromoform	N/A	<2	<2	<2	<2
carbon disulfide	**60**	<2	<2	<2	<2
styrene	N/A	<2	<2	<2	<2
chloroethane	N/A	**2**	<2	**2**	**2**
chlorobenzene	**2,350**	**4**	**5**	**5**	**5**
1,2-dichloropropane	**3,650**	<2	<2	<2	<2
1,1,2-trichloroethane	N/A	<2	<2	<2	<2
cis-1,3-dichloropropene	**90*****	<2	<2	<2	<2
trans-1,3-dichloropropene	**90*****	<2	<2	<2	<2
1,1,2,2-tetrachloroethane	N/A	<2	<2	<2	<2
2-hexanone	N/A	<10	<10	<10	<10

NOTES:
1. Laboratory analytical results are reported in ug/L (micrograms per liter).
2. DCE = Dichloroethene; DCA = Dichloroethane; MEK = Methyl Ethyl Ketone (2-butanone); MIBK = Methyl Isobutyl Ketone (4-methyl 2-pentanone); TCA = Trichloroethane; PCE = Tetrachloroethene; TCE = Trichloroethene.
3. N/A = Not Applicable.
4. "<" = Not detected above laboratory practical quantitation limits (PQLs).
5. Bold values exceed laboratory PQLs.
6. * indicates Screening Level for trans-1,2-dichloroethylene.
7. ** indicates Screening Level for 1,1,1-trichloroethylene.
8. *** indicates Screening Level for total 1,3-dichloropropene.

TABLE 7
SUMMARY OF LABORATORY ANALYTICAL DATA
INFLUENT VOC MONITORING - SB-4D - 2011
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

Analyte	POTW Screening Levels	25-Apr-11	10-May-11	14-Jun-11	12-Jul-11
benzene	N/A	**3**	**3**	**38**	**36**
ethylbenzene	**1,590**	**8**	**3**	**48**	**42**
toluene	**1,350**	<2	<2	**10**	**13**
xylenes (total)	N/A	**34**	**23**	**186**	**115**
PCE	**530**	<2	<2	<2	<2
TCE	**710**	<2	<2	<2	<2
cis-1,2-DCE	**280***	<2	<2	<2	<2
vinyl chloride	**3**	<2	<2	<2	<2
acetone	**1,176,000**	**72**	<50	<50	**<50**
tetrahydrofuran	N/A	**1,400**	**1,300**	**1,900**	**1,200**
MEK	**249,000**	**14**	<10	<10	<10
MIBK	N/A	<10	<10	<10	<10
methylene chloride	**4,150**	<5	<5	<5	<5
1,1,1-TCA	**1,550****	<2	<2	<2	<2
1,1-DCA	**4,580**	<2	<2	<2	<2
1,1-DCE	N/A	<1	<1	<1	<1
1,2-DCA	N/A	<2	<2	<2	<2
bromomethane	**2**	<2	<2	<2	<2
chloromethane	**7**	<2	<2	<2	<2
chloroform	**420**	<2	<2	<2	<2
dibromochloromethane	N/A	<2	<2	<2	<2
bromoform	N/A	<2	<2	<2	<2
carbon disulfide	**60**	<2	<2	<2	<2
styrene	N/A	<2	<2	<2	<2
chloroethane	N/A	<2	<2	**14**	**8**
chlorobenzene	**2,350**	<2	<2	**4**	**5**
1,2-dichloropropane	**3,650**	<2	<2	<2	<2
1,1,2-trichloroethane	N/A	<2	<2	<2	<2
cis-1,3-dichloropropene	**90*****	<2	<2	<2	<2
trans-1,3-dichloropropene	**90*****	<2	<2	<2	<2
1,1,2,2-tetrachloroethane	N/A	<2	<2	<2	<2
2-hexanone	N/A	<10	<10	<10	<10

NOTES:
1. Laboratory analytical results are reported in ug/L (micrograms per liter).
2. DCE = Dichloroethene; DCA = Dichloroethane; MEK = Methyl Ethyl Ketone (2-butanone); MIBK = Methyl Isobutyl Ketone (4-methyl 2-pentanone); TCA = Trichloroethane; PCE = Tetrachloroethene; TCE = Trichloroethene.
3. N/A = Not Applicable.
4. "<" = Not detected above laboratory practical quantitation limits (PQLs).
5. Bold values exceed laboratory PQLs.
6. * indicates Screening Level for trans-1,2-dichloroethylene.
7. ** indicates Screening Level for 1,1,1-trichloroethylene.
8. *** indicates Screening Level for total 1,3-dichloropropene.

TABLE 8
SUMMARY OF LABORATORY ANALYTICAL DATA - FRAC TANK WITH POTW LOCAL LIMITS AND SCREENING LEVELS - 2011
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

		Combined Water SB-4D and MW-206(I)	Combined Water SB-4D and MW-206(I)	Combined Water SB-4D and MW-206(I)	Combined Water SB-4D and MW-206(I)
		FRAC TANK	FRAC TANK	FRAC TANK	FRAC TANK
Analyte/Parameter	**Local Limit**	**4/25/2011**	**5/10/2011**	**6/14/2011**	**7/12/2011**
Total Arsenic	0.4	**0.017**	**0.026**	**0.010**	**0.052**
Total Cadmium	0.02	<0.004	<0.004	<0.004	<0.004
Total Chromium	4.03	<0.05	<0.05	<0.05	<0.05
Total Copper	3.46	<0.05	<0.05	<0.05	<0.05
Total Lead	0.806	<0.008	<0.008	<0.008	<0.008
Mercury	0.004	<0.0002	<0.0002	<0.0002	<0.0002
Total Nickel	1.07	**0.05**	<0.05	<0.05	<0.05
Selenium	8.55	<0.05	<0.05	<0.05	<0.05
Silver	0.713	<0.007	<0.007	<0.007	<0.007
Total Zinc	4.33	<0.05	<0.05	<0.05	**0.32**
Cyanide	0.363	<0.02	<0.02	<0.02	<0.02
Total Phenol	182	**0.06**	<0.05	<0.05	<0.05
Analyte/Parameter	**Screening Level**	**4/25/2011**	**5/10/2011**	**6/14/2011**	**7/12/2011**
1,1,1-Trichloroethylene	1.55	<0.002*	<0.002*	<0.002*	<0.002*
1,1-Dichloroethane	4.58	<0.002	<0.002	<0.002	<0.002
1,2,4-Trichlorobenzene	0.43	<0.002	<0.002	<0.002	<0.002
1,2-Dichlorobenzene	3.74	**0.003**	**0.003**	**0.002**	**0.002**
1,2-Dichloropropane	3.65	<0.002	<0.002	<0.002	<0.002
1,3-Dichloropropane (Total)	0.09	<0.004	<0.004	<0.004	<0.002
1,4-Dichlorobenzene	3.54	<0.002	<0.002	<0.002	<0.002
2-Butanone (MEK)	249	**0.012**	<0.010	<0.010	<0.010
Acetone	1,176	<0.050	<0.050	<0.050	<0.050
Acrylonitrile	1.24	---	---	---	---
Bromomethane	0.002	<0.002	<0.002	<0.002	<0.002
Carbon Disulfide	0.06	<0.002	<0.002	<0.002	<0.002
Chlorobenzene	2.35	**0.003**	**0.002**	**0.003**	**0.003**
Chloroform	0.42	<0.002	<0.002	<0.002	<0.002
Chloromethane	0.007	<0.002	<0.002	<0.002	<0.002
Dichlorodifluoromethane	0.04	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	1.59	**0.006**	**0.011**	**0.010**	**0.025**
Ethylene Dichloride	1.05	<0.002	<0.002	<0.002	<0.002
Hexachloroethane	0.96	---	---	---	---
Hexachloro-1,3-Butadiene	0.0002	<0.0005	<0.0005	<0.0005	<0.0005
Methylene Chloride	4.15	<0.005	<0.005	<0.005	<0.005
Naphthalene	3.34	<0.005	<0.005	<0.005	<0.005
Tetrachloroethylene	0.53	<0.002	<0.002	<0.002	<0.002
Toluene	1.35	<0.002	**0.003**	<0.002	**0.007**
trans-1,2-Dichloroethylene	0.28	<0.002	<0.002	<0.002	<0.002
Trichloroethylene	0.71	<0.002	<0.002	<0.002	<0.002
Trichlorofluoromethane	1.22	<0.002	<0.002	<0.002	<0.002
Vinyl Acetate	1.21	<0.010	<0.010	<0.010	<0.010
Vinyl Chloride	0.003	<0.002	<0.002	<0.002	<0.002
Formaldehyde	0.07	<0.025[A]	**0.100[A]**	**0.150[A]**	**0.67[A]**
Heptachlor	0.003	---	---	---	---
Sulfate	150/1,500	---	---	---	---
Sulfide	1	<0.04	<0.04	<0.04	<0.04
Sulfite	2.00	---	---	---	---
Oil and Grease	100	---	---	---	---
Ammonia-N	90	---	---	---	---
pH	<6.0 or >11.0	**6.5^**	**6.9^**	**6.7^**	**6.5^**
Alkalinity (as CaCO3)	>75.0	---	---	---	---
Biological Oxygen Demand	791	**23**	**14**	**15**	**33**
Total Suspended Solids	847	**130**	**32**	**32**	**54**
ADDITIONAL ANALYSES (NON-PERMIT) REQUESTED BY POTW					
Analyte/Parameter		**4/25/2011**	**5/10/2011**	**6/14/2011**	**7/12/2011**
Antimony		<0.006	<0.006	<0.006	<0.006
Beryllium		<0.004	<0.004	<0.004	<0.05
Molybdenum		<0.05	<0.05	<0.05	<0.05
Thallium		<0.002	<0.002	<0.002	<0.002
Tetrahydrofuran		**1.3**	**1.2**	**1.0**	**1.1**
Flash Point (Closed Cup)		---	---	---	---

NOTES:
1. Laboratory analytical results are reported in mg/L (milligrams per liter).
2. Bold values exceed laboratory practical quantitation limits (PQLs).
3. Shaded value exceeds screening criteria.
4. "<" = Not detected above reported PQL.
5. --- = Constituent was not analyzed.
6. * data presented for 1,1,1-trichloroethane.
7. [A] data reported by Chem Serve Environmental Analysts.
8. ^ = sample was analyzed beyond method holding time.
9. pH measured in standard pH units.
10. POTW = Dover's Publicly Owned Treatment Works.

TABLE 9
MASS REMOVAL CALCULATIONS - 2011
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

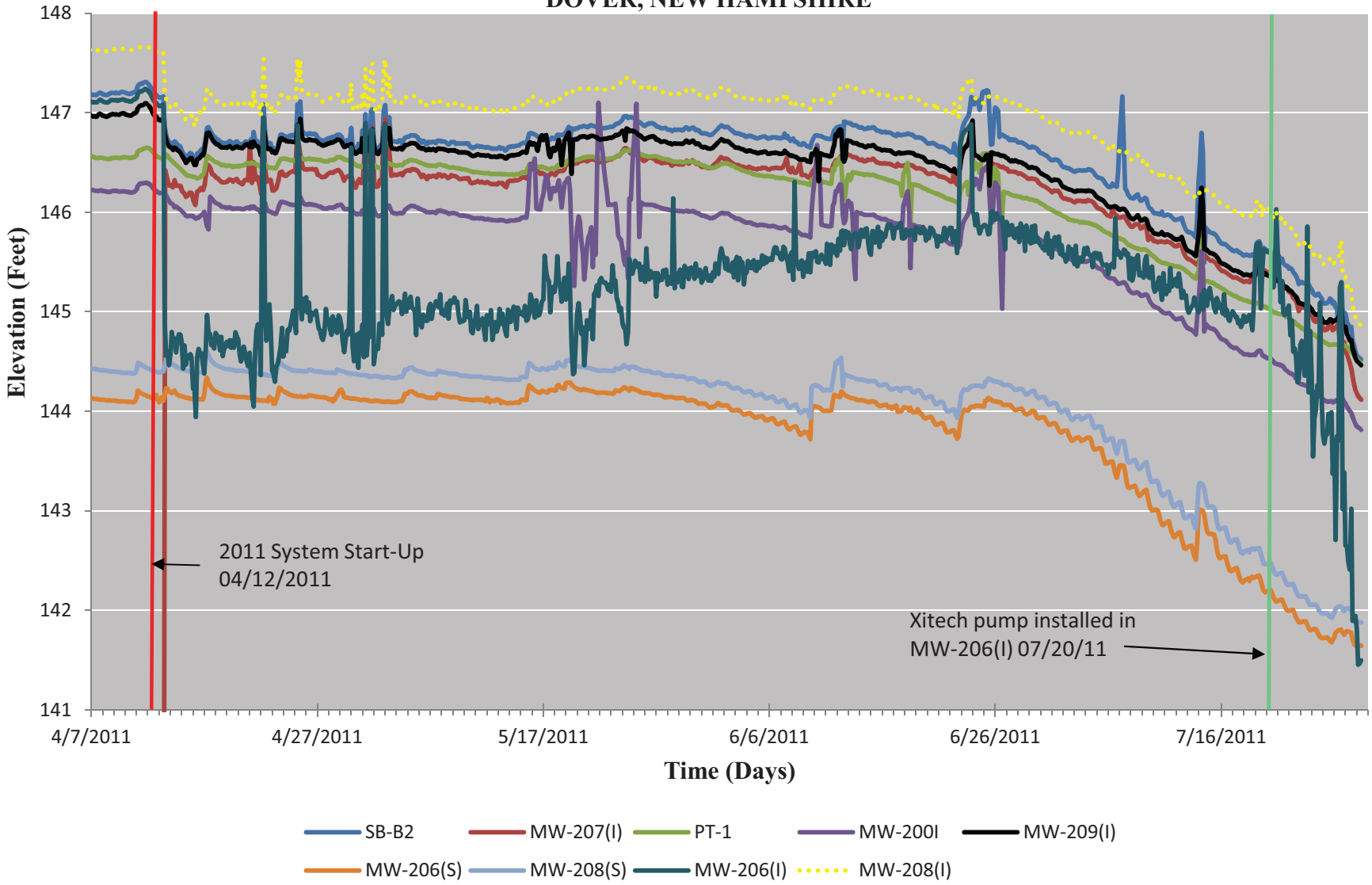
2011 Operating Season (4/12/11-7/27/11)								
	Constituents						Constituent Weekly Totals	
Well ID	Benzene Concentration (ug/L)	Tetrahydrofuran Concentration (ug/L)	Sample Date	Average Well Pumping Rate (gal/min)	Gallons Pumped	Liters Pumped	Benzene (kg)	Tetrahydrofuran (kg)
MW-206I	28	1,300	4/25/2011	0.9	19,213	72,729	2.04E-03	9.45E-02
	30	1,100	5/10/2011	0.8	19,471	73,706	2.21E-03	8.11E-02
	28	1,300	6/14/2011	0.7	33,172	125,570	3.52E-03	1.63E-01
	31	1,300	7/12/2011	0.5	13,614	51,535	1.60E-03	6.70E-02
	29	1,250	7/27/2011*	0.7	5,119	19,378	5.67E-04	2.42E-02
SB-4D	3	1,400	4/25/2011	0.7	4,702	17,799	5.34E-05	2.49E-02
	3	1,300	5/10/2011	0.8	7,106	26,899	8.07E-05	3.50E-02
	38	1,900	6/14/2011	0.7	11,912	45,092	1.71E-03	8.57E-02
	36	1,200	7/12/2011	0.8	18,373	69,549	2.50E-03	8.35E-02
	20	1,450	7/27/2011*	0.8	16,822	63,678	1.27E-03	9.23E-02
							kg	lbs
Benzene							0.016	0.03
Tetrahydrofuran							0.75	1.66
						2011 TOTAL:	0.77	1.69

2008 TOTAL:	2.04	4.49
2009 TOTAL:	1.82	4.01
2010 TOTAL:	1.97	4.34
TOTAL (to date):	6.60	14.53

NOTES:
1. ug/L = micrograms per liter.
2. kg = kilograms.
3. lbs = pounds.
4. Average pumping rates calculated from weekly system operation and maintenance flow measurements determined from influent-line totalizers.
5. "Gallons Pumped" determined from influent-line totalizers and verified by comparing recorded water transfer volumes.
6. * = analytical and flow rate values presented on 7/27/11 are averages of the values obtained during sampling events.
6. This table derived from Table 5 of the 100 Percent Remedial Design Southern Plume Management of Migration report.

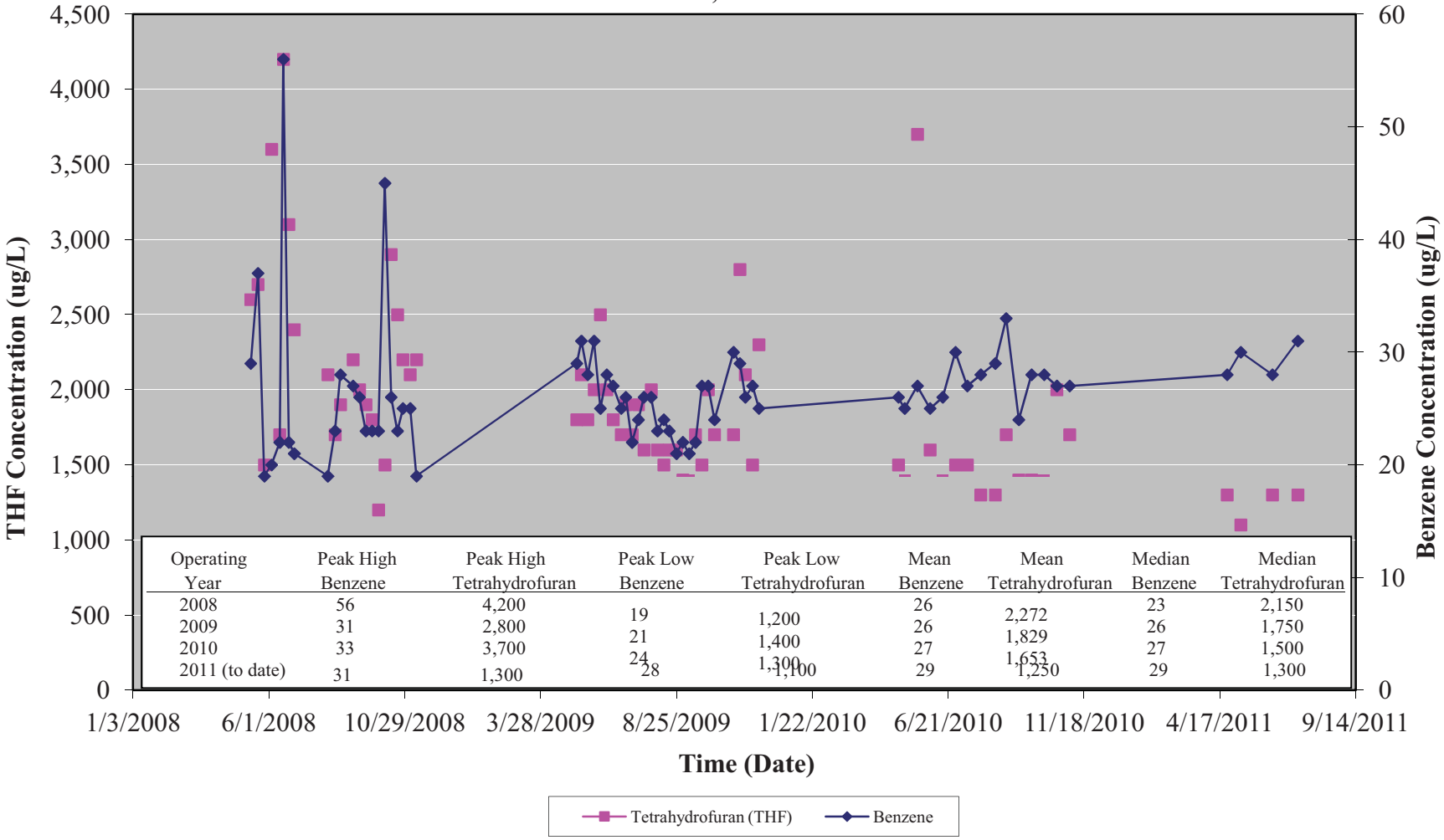
FIGURES

FIGURE 1
TRANSDUCER WATER ELEVATION DATA (APRIL 7, 2011-JULY 28, 2011)
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE



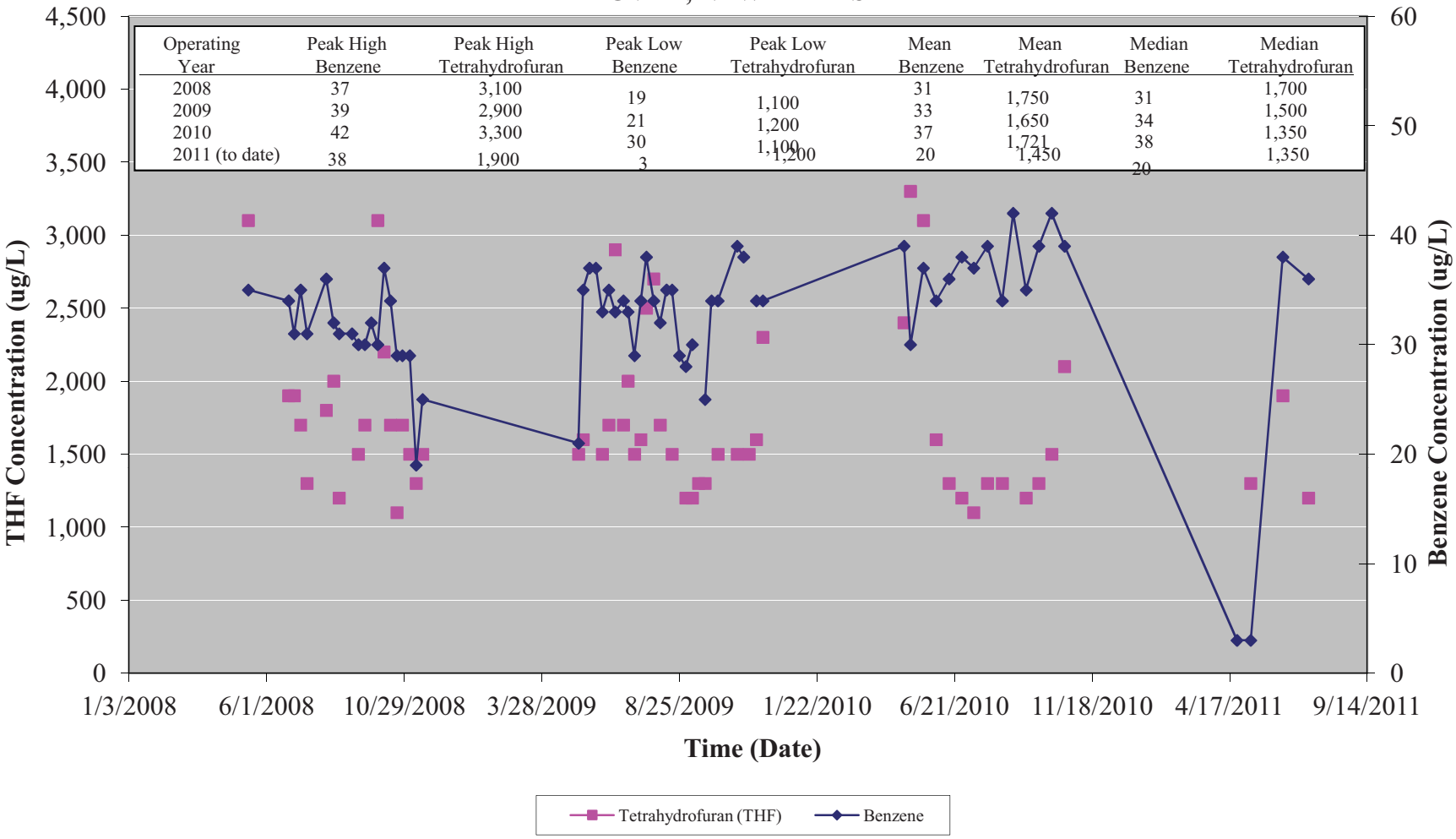
October 10, 2011
GeoInsight Project 2009-009

FIGURE 2
CONCENTRATION VERSUS TIME - MW-206I (2008 - PRESENT)
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE



Operating Year	Peak High Benzene	Peak High Tetrahydrofuran	Peak Low Benzene	Peak Low Tetrahydrofuran	Mean Benzene	Mean Tetrahydrofuran	Median Benzene	Median Tetrahydrofuran
2008	56	4,200	19	1,200	26	2,272	23	2,150
2009	31	2,800	21	1,400	26	1,829	26	1,750
2010	33	3,700	24	1,300	27	1,653	27	1,500
2011 (to date)	31	1,300	28	1,100	29	1,250	29	1,300

FIGURE 3
CONCENTRATION VERSUS TIME - SB-4D (2008-PRESENT)
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE



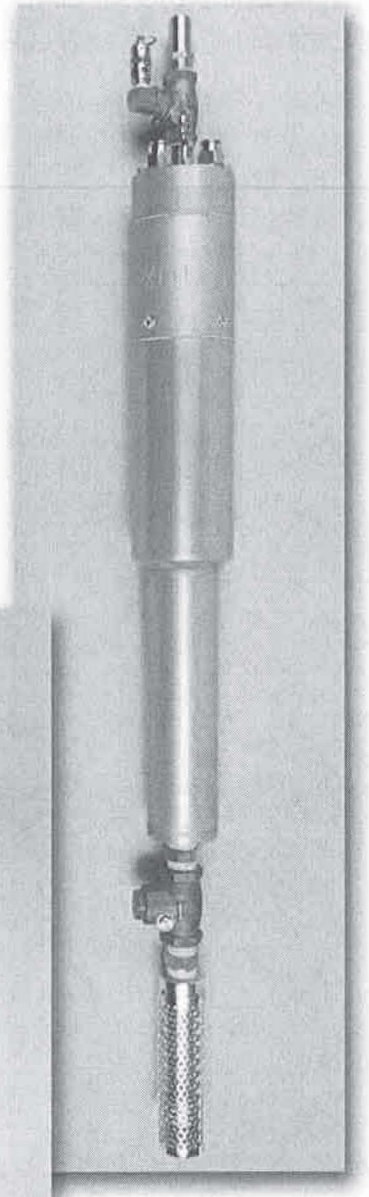
Operating Year	Peak High Benzene	Peak High Tetrahydrofuran	Peak Low Benzene	Peak Low Tetrahydrofuran	Mean Benzene	Mean Tetrahydrofuran	Median Benzene	Median Tetrahydrofuran
2008	37	3,100	19	1,100	31	1,750	31	1,700
2009	39	2,900	21	1,200	33	1,650	34	1,500
2010	42	3,300	30	1,100	37	1,721	38	1,350
2011 (to date)	38	1,900	3	1,200	20	1,450	20	1,350

APPENDIX A

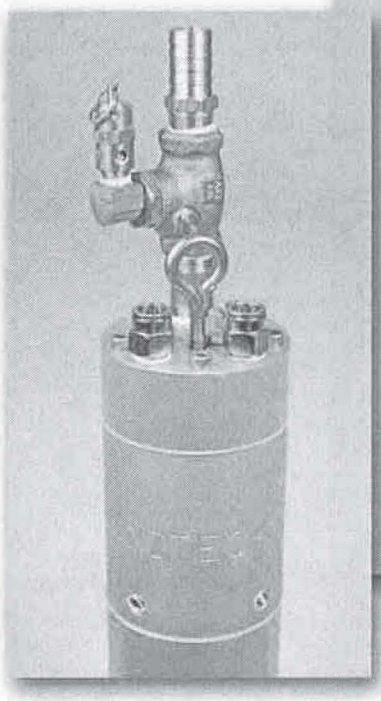
XITECH AUTO-ISOLATOR 400 WATER PUMP INFORMATION

Xitech's Groundwater Pump

The **Model Auto-Isolator 400 Pneumatic Pump** was designed as a controller-less pump which isolates the compressed air from the contaminated groundwater being pumped to the surface. This design has four benefits: First, the pump's built-in air logic valve eliminates the need for an above ground controller; second, groundwater containing iron will not precipitate out in the above ground treatment system; third, the exhaust air will not have any VOC's being ejected above ground; and, fourth, our pump is intrinsically safe and approved for hazardous environments. The **Auto-Isolator 400** has built-in speed adjustment, pumping rate of over 8 gallons-per-minute, operating depth of 200 feet, includes a down-well quick discharge drain valve, and has a 3/4" ID barb fitting for the discharge hose.



Model Auto-Isolator 400
Size: 3.5" diameter x 39" long
Weight: 16 pounds



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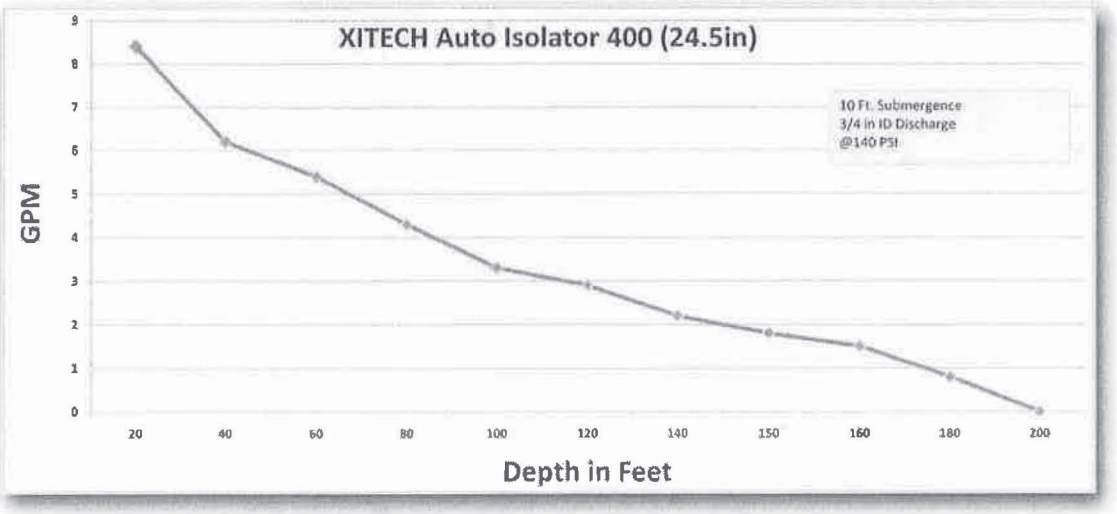
xitechinc.com



Xitech's Groundwater Remediation Technology
Benefits

Auto-Isolator 400 Groundwater Pump

Xitech's Auto-Isolator 400 (AI 400) pneumatic, automatic, piston, groundwater pump, dramatically reduces all forms of above ground treatment system fouling.

How? The AI 400 pump has an internal piston that completely isolates the compressed air from the fluids being pumped. Injecting compressed air into the groundwater is a known major cause for iron and bio fouling of above ground treatment systems.

Xitech's AI 400 pump requires fewer pump height adjustments in the well.

Why? The AI 400 pump maintains a constant discharge flow rate down to 1 foot of water submergence.

How? The AI 400 pump has an active filling design. Our pump creates a high vacuum at the intake of the pump causing rapid filling of the pumping chamber.

Xitech's AI 400 pump is safer and easier to handle when removing from the well.

Why? The AI 400 pump comes with a quick drain valve that allows the technician to empty all of the discharge water out of the down well hose prior to pulling the pump making the pump lighter and eliminating water disposal above ground.

Model 5016 Multi-well Programmable Pump Controller

Xitech's groundwater depression controls provide precise water level control in the presence of floating LNAPL.

How? Our True water level switch does not switch in the presence of LNAPL. It only switches when the water level changes.

Xitech's multi well programmable pump controller provides the operator with central control of all AI 400 pumps.

How? The Model 5016 pump controller controls when our AI 400 pneumatic pumps receive compressed air. Our controller accepts shut-down signals from the above ground treatment system (i.e. SCADA), provides total run time for each pump, and provides programmable water depression levels.

4" Single Pump Fast-On Well Seal

Xitech's 4" single pump well seal was engineered for easy installation and safe pump retrieval.

How? Xitech's 4" single pump Fast-On well seal design does not require band clamps or rubber boots to seal. Xitech's 4" Fast-On well seal is a flat plate design that accommodates the groundwater pump air lines, discharge hose, safety cable, level control switching cable, and a 1" level gauging port. This well seal uses an O-ring to seal which creates a vacuum tight seal that prevents surface water from entering the well and loss of vacuum at the well.

6" Dual Pump Fast-On Well Seal

Xitech's 6" dual pump well seal was engineered for easy installation and safe pump retrieval.

How? Xitech's 6" dual pump well seal design is made of TWO separate metal plates. The larger plate accommodates the groundwater pump air lines, discharge hose, safety cable, and includes a 1" level gauging port. The smaller plate accommodates the Free Product skimmer air lines, product discharge line, safety rope, and level control switching cable. You now can remove the skimmer WITHOUT removing the groundwater pump. Both plates include vacuum tight seals to prevent surface water from entering the well and loss of vacuum at the well.

AI400 Groundwater Pump and 6" Well Seal

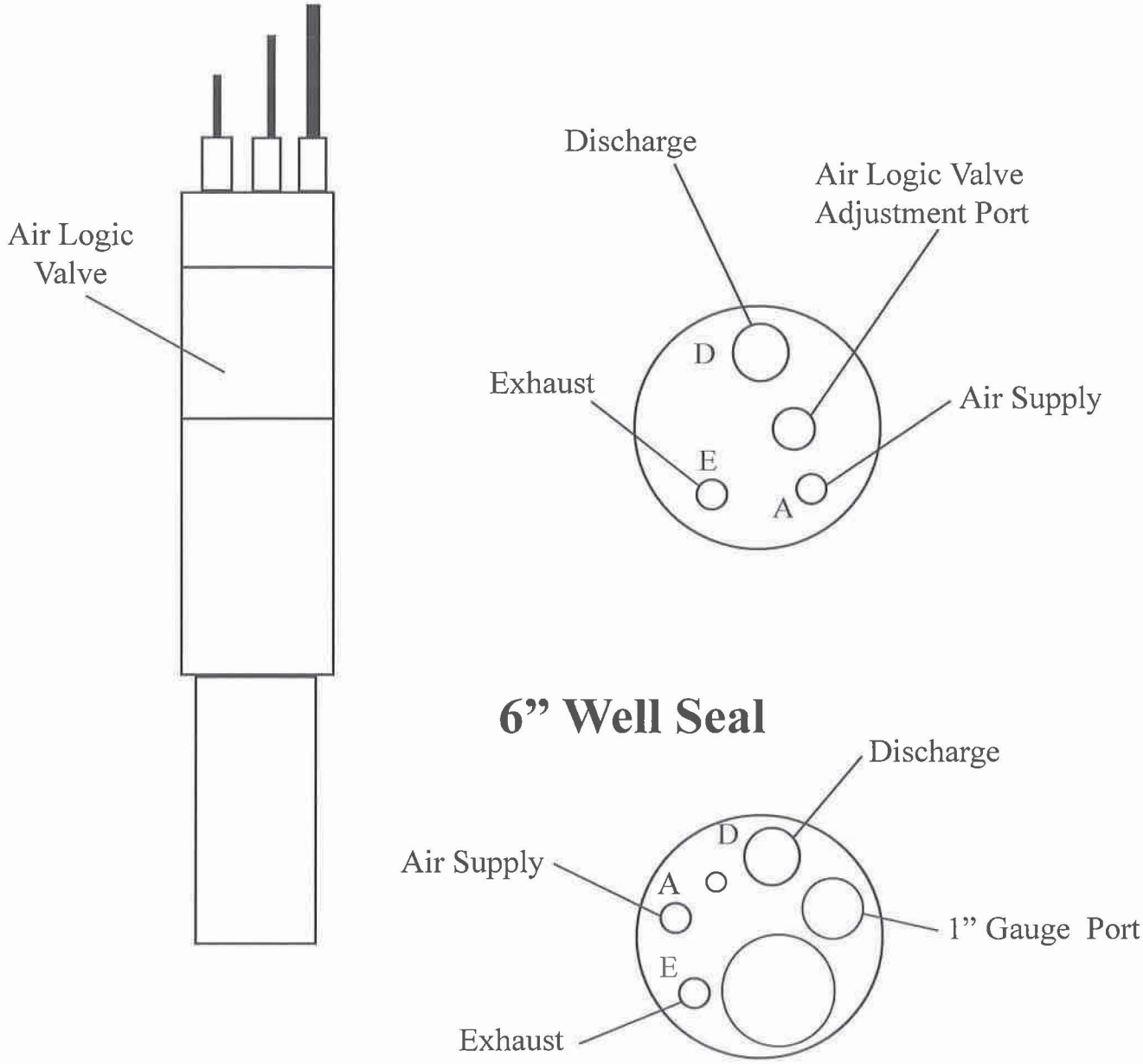


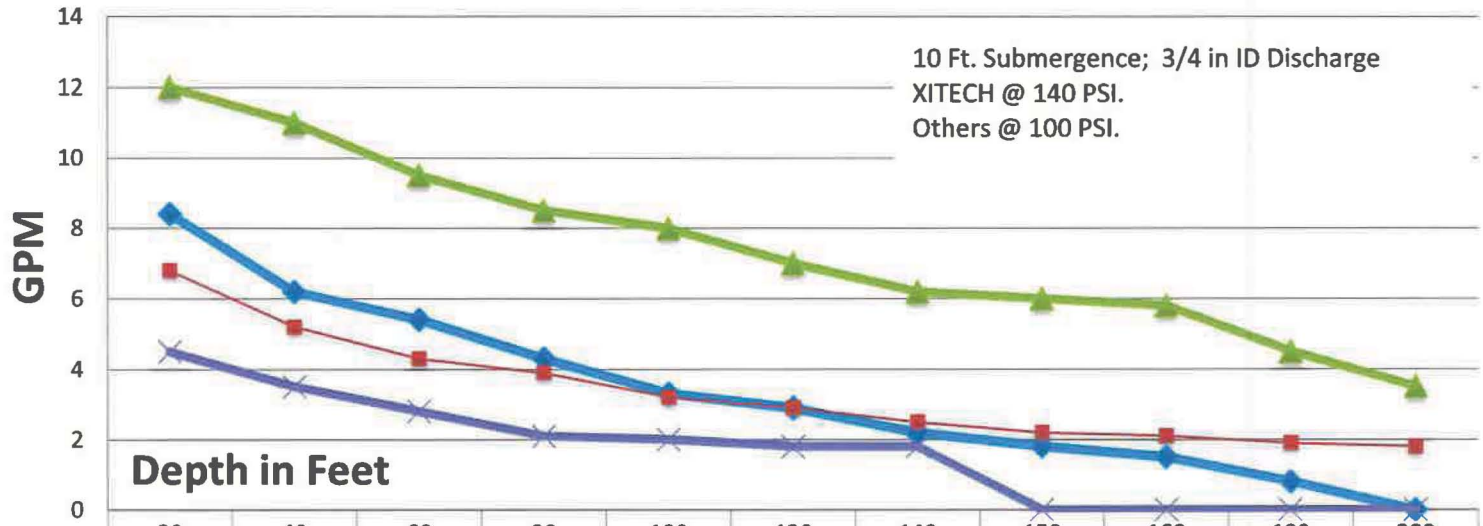
Figure 7

Groundwater Pump Comparison

	Xitech	QED	Geo-Tech	DGSI
Pump Models:	Auto-Isolator 400	AP4+B	3.5 Auto Reclaimer	SRX-R-BL
Features				
Fluid Isolation	YES	NO	NO	NO
Air Exhaust Emissions	NO	YES	YES	YES
Built-in Speed Adjustments	YES	NO	NO	NO
Hazardous Environments	YES	YES	YES	YES
Intrinsically Safe	YES	YES	YES	YES
Warranty	3 years	5 years	1 year	Unknown
Specifications				
Max Flow Rate	8.4 GPM	6.4 GPM	12 GPM	5.5 GPM
Diameter	3.5 inches	3.6 inches	3.5 inches	3.5 inches
Length	39 inches	30.75 inches	36inches	39 inches
Weight	16 LBS	Unknown	15.9 LBS	16.6 LBS
Check Valve Type	Flapper	Ball	Ball	Ball
External Check Valve	Two	One	One	One

Note: Comparison information obtained from company web sites.

Flow Rate Comparison



Depth in Feet	20	40	60	80	100	120	140	150	160	180	200
XITECH Auto Isolator (24.5in)	8.4	6.2	5.4	4.3	3.3	2.9	2.2	1.8	1.5	0.8	0
QED AP4B Low Draw (25in)	6.8	5.2	4.3	3.9	3.2	2.9	2.5	2.2	2.1	1.9	1.8
GEOTECH 3.5 Auto Reclaimer (36in)	12	11	9.5	8.5	8	7	6.2	6	5.8	4.5	3.5
DURHAM GEO TR974 (39in)	4.5	3.5	2.8	2.1	2	1.8	1.8	0	0	0	0

APPENDIX B

PERFORMANCE MONITORING WELL ANALYTICAL DATA TABLES

SUMMARY OF GROUND WATER ANALYTICAL DATA
MW-200(S)
SCREENED INTERVAL - 17 - 27 FEET BGS

SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

constituent (ppb)	ICL	Nov-07	Apr-09	Apr-10	Apr-11
benzene	5	**2**	**4**	**5**	**1**
ethylbenzene	---	**0.6 (J)**	**0.7 (J)**	**0.4 (J)**	<1
toluene	1,000	<1	**0.4 (J)**	<1	<1
xylenes (total)	---	<3	<3	<3	<3
PCE	5	<1	<1	<1	<1
TCE	5	<1	<1	<1	<1
cis-1,2-DCE	70	**0.7 (J)**	**0.7 (J)**	**0.8 (J)**	**0.7 (J)**
vinyl chloride	2	**0.8 (J)**	**1 (J)**	**2 (J)**	**0.9 (J)**
acetone	700	<5	**3 (J)**	<5	<5
tetrahydrofuran	154	<5	**2 (J)**	<5	<5
2-butanone	200	<5	<5	<5	<5
4-methyl 2-pentanone	350	<5	<5	<5	<5
methylene chloride	5	<5	**0.5 (JB)**	<5	<5
1,1,1-TCA	---	<1	<1	<1	<1
1,1-DCA	---	<1	**1**	**2**	**1**
1,1-DCE	7	<1	<1	<1	<1
1,2-DCA	5	<1	**0.9 (J)**	**1**	**1 (J)**
bromomethane	---	<2	<2	<2	<2
chloromethane	---	<2	<2	<2	<2
chloroform	---	<1	<1	<1	<1
dibromochloromethane	---	<1	<1	<1	<1
bromoform	---	<1	<1	<1	<1
carbon disulfide	---	<1	<1	<1	<1
styrene	---	<1	<1	<1	<1
chloroethane	14,000	<2	<2	<2	<2
chlorobenzene	---	**0.4 (J)**	**0.4 (J)**	<1	**0.4 (J)**
1,2-dichloropropane	---	<1	<1	<1	<1
1,1,2-trichloroethane	---	<1	<1	<1	<1
cis-1,3-dichloropropene	---	<1	<1	<1	<1
trans-1,3-dichloropropene	---	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	<1	<1	<1	<1
2-hexanone	---	<5	<5	<5	<5
arsenic (dissolved)	10	**24.3**	**22.7**	**19.9**	**25.2**
arsenic (total)	---	**24.3**	**23.1**	**22.0**	**25.2**
calcium	---	---	---	---	---
iron (dissolved)	---	**84,600**	**82,800**	---	---
iron (total)	---	**86,800**	**83,600**	---	---
magnesium	---	---	---	---	---
manganese (dissolved)	---	**1,430**	---	---	---
manganese (total)	---	**1,460**	---	---	---
potassium	---	---	---	---	---
sodium	---	---	---	---	---
pH (SU)	---	6.19	6.25	6.16	6.34
SC (mS/cm)	---	0.864	0.995	1.162	0.659
Turb (NTU)	---	56.8	73.2	134	1.61
DO (mg/l)	---	0.08	0.28	0.18	0
ORP (mv)	---	-17	-46	-83	-78.3
Temp (^{o}C)	---	9.65	11.66	11.00	7.35
Water Level Elevation	NA	143.80	144.12	144.22	144.12

NOTES:
1. Laboratory analytical results are reported in ug/L (micrograms per liter).
2. DCE = Dichloroethene; DCA = Dichloroethane; MEK = Methyl Ethyl Ketone (2-butanone); MIBK = Methyl Isobutyl Ketone (4-methyl 2-pentanone); TCA = Trichloroethane; PCE = Tetrachloroethene; TCE = Tetrachloroethene.
3. ICL = Interim Cleanup Level.
4. NA = Not Applicable.
5. pH measured in SU (standard units); SC (specific conductivity) measured in mS/cm (millisiemens per centimeter); DO (dissolved oxygen) measured in mg/L (milligrams per liter); ORP = Oxidation Reduction Potential measured in mv (millivolts).
6. J = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL).
7. UJ = Indicates an estimated quantitation limit.
8. E = Result exceeded calibration range - estimated value.
9. D = Listed value obtained from second (diluted) analytical run.
10. B = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL) for metals.
11. --- = Constituent was not analyzed or ICL has not been established for constituent.
12. "<" = Not detected above reported PQL.
13. BGS = Below Ground Surface.

SUMMARY OF GROUND WATER ANALYTICAL DATA
MW-200(I)
SCREENED INTERVAL - 35 - 45 FEET BGS

SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

constituent (ppb)	ICL	Nov-07	Nov-08	Apr-09	Jul-09	Oct-09	Dec-09	Apr-10	Jul-10	Sep-10	Dec-10	Apr-11	Jul-11
benzene	5	**4**	**6**	**6**	**6**	**4**	**6**	**7**	**7**	**7**	**8**	**7**	**7**
ethylbenzene	---	**3**	**5**	**5**	**5**	**3**	**6**	**5**	**7**	**6**	**7**	**7**	**7**
toluene	1,000	**0.8(J)**	**1**	**1**	**1**	**0.9(J)**	**1**	**2**	**2**	**1**	**2**	**2**	**2**
xylenes (total)	---	**2(J)**	**4**	**6**	**5**	**4**	**8**	**6**	**9**	**7**	**9**	**10**	**9**
PCE	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TCE	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,2-DCE	70	**0.5(J)**	<1	**0.7(J)**	**0.7(J)**	**0.5(J)**	**0.7(J)**	**0.8(J)**	**0.9(J)**	**0.8(J)**	**1(J)**	**0.8(J)**	**0.8(J)**
vinyl chloride	2	**1(J)**	**1**	**1(J)**	**1(J)**	**0.9(J)**	**1(J)**	**1(J)**	**4**	**2(J)**	**1(J)**	**0.9(J)**	<2
acetone	700	<5	<5	**7**	**3(J)**	**6**	**5(J)**	**6**	**10**	**5(J)**	**5**	**4(J)**	**7**
tetrahydrofuran	154	**5**	**26**	**57**	**58**	**55**	**100**	**190**	**190**	**140**	**210**	**200**	**210**
2-butanone	200	<5	<5	**2(J)**	**3(J)**	**130**	<5	**3(J)**	**15**	<5	<5	<5	<5
4-methyl 2-pentanone	350	**7**	<5	<5	<5	<5	<5	<5	<5	**2(J)**	<5	<5	<5
methylene chloride	5	**0.7(J)**	<5	**2(JB)**	<5	<5	<5	<5	**2(J)**	<5	<5	<5	<5
1,1,1-TCA	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	<1	<1	**0.9(J)**	**0.8(J)**	**0.7(J)**	**1(J)**	**1**	**1**	**1**	**1**	**0.9(J)**	**0.9(J)**
1,1-DCE	7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	5	**0.5(J)**	<1	**0.6(J)**	**0.6(J)**	<1	<1	**0.8(J)**	**0.8(J)**	**0.8(J)**	**0.6(J)**	**0.7(J)**	**0.7(J)**
bromomethane	---	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloromethane	---	<2	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloroform	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.3(JB)**
styrene	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
chloroethane	14,000	<2	<1	<2	<2	<2	<2	<2	<2	**0.6(J)**	<2	<2	<2
chlorobenzene	---	**0.4(J)**	<1	**0.6(J)**	**0.5(J)**	<1	**0.7(J)**	<1	**0.8(J)**	**0.7(J)**	**0.7(J)**	<1	<1
1,2-dichloropropane	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-hexanone	---	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
arsenic (dissolved)	10	**21.7**	**16.5**	**16.1**	**21.2**	**21.7**	**24.1**	**15.9**	**22.1**	**18.6**	**19.9**	**21.3**	**24**
arsenic (total)	---	**19.5**	**16.6**	**18.2**	**20.8**	**23.4**	**22.2**	**18.5**	**21.0**	**18.4**	**19.0**	**23.0**	**33.8**
calcium	---	---	---	---	---	---	---	---	---	---	---	---	---
iron (dissolved)	---	**83,100**	**93,900**	**95,800**	---	---	---	---	---	---	---	---	---
iron (total)	---	**80,400**	**89,500**	**98,100**	---	---	---	---	---	---	---	---	---
magnesium	---	---	---	---	---	---	---	---	---	---	---	---	---
manganese (dissolved)	---	**1,760**	**1,980**	**1,900**	---	---	---	---	---	---	---	---	---
manganese (total)	---	**1,720**	**1,870**	**1,930**	---	---	---	---	---	---	---	---	---
potassium	---	---	---	---	---	---	---	---	---	---	---	---	---
sodium	---	---	---	---	---	---	---	---	---	---	---	---	---
pH (SU)	---	6.22	6.36	6.20	6.20	6.37	6.16	6.14	6.21	6.19	6.33	6.37	6.22
SC (mS/cm)	---	0.841	0.945	1.151	1.139	0.918	1.213	1.268	1.275	0.893	0.772	0.824	0.857
Turb (NTU)	---	66.2	9.54	35.5	---	54.9	9.3	7.3	29.6	0.5	1.6	2.66	3.3
DO (mg/l)	---	0.06	0.2	0.13	0.21	0.34	0.27	0.14	0.17	0.23	0.13	0	0.13
ORP (mv)	---	-85	---	-70	-1	-72	-37	20	-138	-66.1	-81.8	-80	-47.4
Temp (^{o}C)	---	10.42	9.27	10.75	11.73	12.28	8.27	8.77	13.10	10.72	6.45	7.30	12.41
Water Level Elevation	---	---	---	146.03	144.96	144.94	145.57	146.04	144.24	143.04	144.12	147.9	146.12

NOTES:
1. Laboratory analytical results are reported in ug/L (micrograms per liter).
2. DCE = Dichloroethene; DCA = Dichloroethane; MEK = Methyl Ethyl Ketone (2-butanone); MIBK = Methyl Isobutyl Ketone (4-methyl 2-pentanone); TCA = Trichloroethane; PCE = Tetrachloroethene; TCE = Tetrachloroethene.
3. ICL = Interim Cleanup Level.
4. NA = Not Applicable.
5. pH measured in SU (standard units); SC (specific conductivity) measured in mS/cm (millisiemens per centimeter); DO (dissolved oxygen) measured in mg/L (milligrams per liter); ORP = Oxidation Reduction Potential measured in mv (millivolts).
6. J = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL).
7. UJ = Indicates an estimated quantitation limit.
8. E = Result exceeded calibration range - estimated value.
9. D = Listed value obtained from second (diluted) analytical run.
10. B = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL) for metals.
11. --- = Constituent was not analyzed or ICL has not been established for constituent.
12. "<" = Not detected above reported PQL.
13. BGS = Below Ground Surface.

SUMMARY OF GROUND WATER ANALYTICAL DATA
WELL MW-200(D)
SCREENED INTERVAL - 60 - 70 FEET BGS

SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

constituent (ppb)	ICL	Nov-07	Apr-09	Apr-10	Apr-11
benzene	5	<1	<1	<1	<1
ethylbenzene	---	<1	<1	<1	<1
toluene	1,000	<1	<1	<1	<1
xylenes (total)	---	<3	<3	<3	<3
PCE	5	<1	<1	<1	<1
TCE	5	<1	<1	<1	<1
cis-1,2-DCE	70	<1	<1	<1	<1
vinyl chloride	2	<2	<2	<2	<2
acetone	700	<5	<5	<5	<5
tetrahydrofuran	154	<5	<5	<5	<5
2-butanone	200	<5	<5	<5	<5
4-methyl 2-pentanone	350	<5	<5	<5	<5
methylene chloride	5	<5	**0.6(JB)**	<5	<5
1,1,1-TCA	---	<1	<1	<1	<1
1,1-DCA	---	<1	<1	<1	<1
1,1-DCE	7	<1	<1	<1	<1
1,2-DCA	5	<1	<1	<1	<1
bromomethane	---	<2	<2	<2	<2
chloromethane	---	<2	<2	<2	<2
chloroform	---	<1	<1	<1	<1
dibromochloromethane	---	<1	<1	<1	<1
bromoform	---	<1	<1	<1	<1
carbon disulfide	---	<1	<1	<1	<1
styrene	---	<1	<1	<1	<1
chloroethane	14,000	<2	<2	<2	<2
chlorobenzene	---	<1	<1	<1	<1
1,2-dichloropropane	---	<1	<1	<1	<1
1,1,2-trichloroethane	---	<1	<1	<1	<1
cis-1,3-dichloropropene	---	<1	<1	<1	<1
trans-1,3-dichloropropene	---	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	<1	<1	<1	<1
2-hexanone	---	<5	>5	<5	<5
arsenic (dissolved)	10	**89.6**	**89.4**	**88.2**	**88.8**
arsenic (total)	---	**92.8**	**86.4**	**86.1**	**91.7**
calcium	---	---	---	---	---
iron (dissolved)	---	**158**	**131**	---	---
iron (total)	---	**1,170**	**206**	---	---
magnesium	---	---	---	---	---
manganese (dissolved)	---	**226**	---	---	---
manganese (total)	---	**246**	---	---	---
potassium	---	---	---	---	---
sodium	---	---	---	---	---
pH (SU)	---	9.51	7.45	7.65	7.88
SC (mS/cm)	---	0.169	0.170	0.166	0.102
Turb (NTU)	---	88	13.6	105	1.44
DO (mg/l)	---	0.14	0.06	0.16	0.36
ORP (mv)	---	-88	-109	-120	-116.7
Temp (^{o}C)	---	10.73	11.01	9.60	7.21
Water Level Elevation	NA	144.16	144.66	145.06	145.94

NOTES:
1. Laboratory analytical results are reported in ug/L (micrograms per liter).
2. DCE = Dichloroethene; DCA = Dichloroethane; MEK = Methyl Ethyl Ketone (2-butanone); MIBK = Methyl Isobutyl Ketone (4-methyl 2-pentanone); TCA = Trichloroethane; PCE = Tetrachloroethene; TCE = Tetrachloroethene.
3. ICL = Interim Cleanup Level.
4. NA = Not Applicable.
5. pH measured in SU (standard units); SC (specific conductivity) measured in mS/cm (millisiemens per centimeter); DO (dissolved oxygen) measured in mg/L (milligrams per liter); ORP = Oxidation Reduction Potential measured in mv (millivolts).
6. J = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL).
7. UJ = Indicates an estimated quantitation limit.
8. E = Result exceeded calibration range - estimated value.
9. D = Listed value obtained from second (diluted) analytical run.
10. B = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL) for metals.
11. --- = Constituent was not analyzed or ICL has not been established for constituent.
12. "<" = Not detected above reported PQL.
13. BGS = Below Ground Surface.

SUMMARY OF GROUND WATER ANALYTICAL DATA
GMP WELL MW-201(S)

SOUTHERN PLUME WELL
SCREENED INTERVAL - 1-11 FEET BGS

constituent (ppb)	ICL	AGQS	Nov-07	May-09	Nov-09	May-10	Nov-10	May-11
benzene	**5**	5	<1	<1	<1	<1	<1	<1
ethylbenzene	---	700	<1	<1	<1	<1	<1	<1
toluene	**1,000**	1,000	<1	<1	<1	<1	<1	<1
xylenes (total)	---	10,000	<3	<3	<3	<3	<3	<3
PCE	**5**	5	<1	<1	<1	<1	<1	<1
TCE	**5**	5	<1	<1	<1	<1	<1	<1
1,2-DCE	**70**	70	<1	<1	<1	<1	<1	<1
vinyl chloride	**2**	2	<2	<1	<1	<1	<1	<1
acetone	**700**	6,000	<5	<5	<5	<5	<5	<5
tetrahydrofuran	**154**	154	<5	<5	<5	<5	<5	<5
2-butanone	**200**	---	<5	<5	<5	<5	<5	<5
4-methyl 2-pentanone	**350**	---	<5	<5	<5	<5	<5	<5
methylene chloride	**5**	5	<5	<5	<5	<5	<5	<5
1,1,1-TCA	---	200	<1	<1	<1	<1	<1	<1
1,1-DCA	---	81	<1	<1	<1	<1	<1	<1
1,1-DCE	**7**	7	<1	<1	<1	<1	<1	<1
1,2-DCA	**5**	5	<1	<1	<1	<1	<1	<1
bromomethane	---	10	<2	<1	<1	<1	<1	<1
chloromethane	---	30	<2	<1	<1	<1	<1	<1
chloroform	---	70	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	60	<1	<1	<1	<1	<1	<1
bromoform	---	4	<1	<1	<1	<1	<1	<1
carbon disulfide	---	70	<1	<1	<1	<1	<1	<1
styrene	---	100	<1	<1	<1	<1	<1	<1
chloroethane	**14,000**	---	<2	<1	<1	<1	<1	<1
chlorobenzene	---	100	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	---	5	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	5	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	---	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	---	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	2	<1	<1	<1	<1	<1	<1
2-hexanone	---	---	<5	<5	<5	<5	<5	<5
GMP constituents								
cis-1,2-DCE	**70**	70	---	<1	<1	<1	<1	<1
trans-1,2-DCE	---	100	---	<1	<1	<1	<1	<1
dichlorodifluoromethane	---	1,000	---	<2	<2	<2	<2	<2
isopropylbenzene	---	800	---	<1	<1	<1	<1	<1
n-propylbenzene	---	260	---	<1	<1	<1	<1	<1
1,3,5-trimethylbenzene	---	330	---	<1	<1	<1	<1	<1
tert-butylbenzene	---	260	---	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	---	70	---	<1	<1	<1	<1	<1
sec-butylbenzene	---	260	---	<1	<1	<1	<1	<1
1,3-dichlorobenzene	---	600	---	<1	<1	<1	<1	<1
p-isopropyltoluene	---	260	---	<1	<1	<1	<1	<1
1,4-dichlorobenzene	---	75	---	<1	<1	<1	<1	<1
1,2-dichlorobenzene	---	600	---	<1	<1	<1	<1	<1
n-butylbenzene	---	260	---	<1	<1	<1	<1	<1
1,2,4-trimethylbenzene	---	330	---	<1	<1	<1	<1	<1
naphthalene	---	20	---	<1	<1	<1	<1	<1
methyl tert-butyl ether	---	13	---	<1	<1	<1	<1	<1
diethyl ether	---	1,400	---	<1	<1	<1	<1	<1
ethyl tertiary-butyl ether	---	40	---	<1	<1	<1	<1	<1
di-isopropyl ether	---	120	---	<1	<1	<1	<1	<1
tertiary-butyl alcohol	---	40	---	<5	<5	<5	<5	<5
1,4-dioxane	---	3	---	<2	<2	<2	<2	<2
arsenic (dissolved)	**10**	10	5.40 B	<8	<8	<8	<8	<8
arsenic (total)	---	---	9.20	<8	<8	<8	<8	<8
calcium	---	---	---	---	---	---	---	---
iron (dissolved)	---	---	2,630	2,890	2,970	2,260	1,350	2,730
iron (total)	---	---	7,240	4,160	3,810	4,510	2,890	2,940
magnesium	---	---	---	---	---	---	---	---
manganese (dissolved)	---	840	92.6	81	77.7	74.0	102	76
manganese (total)	---	---	140	97	86	101	113	79
potassium	---	35,000	---	---	---	---	---	---
sodium	---	---	---	---	---	---	---	---
pH (SU)	---	---	5.94	5.83	5.9	5.74	5.84	5.98
SC (mS/cm)	---	---	0.065	0.059	0.56	0.55	0.059	0.055
Turb (NTU)	---	---	158	17.5	18	35.2	6.3	10.08
DO (mg/l)	---	---	0.11	0.63	1.04	0.4	0.64	0.79
ORP (mv)	---	---	29	56.2	7.2	40.6	37.3	18.2
Temp (^{o}C)	---	---	7.96	9.90	9.83	9.04	11.68	8.11
Water Level Elevation	NA	NA	---	---	---	---	---	---

SUMMARY OF GROUND WATER ANALYTICAL DATA
GMP WELL MW-201(I)

SOUTHERN PLUME WELL
SCREENED INTERVAL - 35-45 FEET BGS

constituent (ppb)	ICL	AGQS	Nov-07	May-09	Nov-09	May-10	Nov-10	May-11
benzene	**5**	5	<1	<1	<1	<1	<1	<1
ethylbenzene	---	700	<1	<1	<1	<1	<1	<1
toluene	**1,000**	1,000	<1	<1	<1	<1	<1	<1
xylenes (total)	---	10,000	<3	<3	<3	<3	<3	<3
PCE	**5**	5	<1	<1	<1	<1	<1	<1
TCE	**5**	5	<1	<1	<1	<1	<1	<1
1,2-DCE	**70**	70	<1	<1	<1	<1	<1	<1
vinyl chloride	**2**	2	<2	<1	<1	<1	<1	<1
acetone	**700**	6,000	<5	<5	<5	<5	<5	<5
tetrahydrofuran	**154**	154	<5	<5	<5	<5	<5	<5
2-butanone	**200**	---	<5	<5	<5	<5	<5	<5
4-methyl 2-pentanone	**350**	---	<5	<5	<5	<5	<5	<5
methylene chloride	**5**	5	<5	<5	<5	<5	<5	<5
1,1,1-TCA	---	200	<1	<1	<1	<1	<1	<1
1,1-DCA	---	81	<1	<1	<1	<1	<1	<1
1,1-DCE	**7**	7	<1	<1	<1	<1	<1	<1
1,2-DCA	**5**	5	<1	<1	<1	<1	<1	<1
bromomethane	---	10	<2	<1	<1	<1	<1	<1
chloromethane	---	30	<2	<1	<1	<1	<1	<1
chloroform	---	70	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	60	<1	<1	<1	<1	<1	<1
bromoform	---	4	<1	<1	<1	<1	<1	<1
carbon disulfide	---	70	<1	<1	<1	<1	<1	<1
styrene	---	100	<1	<1	<1	<1	<1	<1
chloroethane	**14,000**	---	<2	<1	<1	<1	<1	<1
chlorobenzene	---	100	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	---	5	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	5	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	---	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	---	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	2	<1	<1	<1	<1	<1	<1
2-hexanone	---	---	<5	<5	<5	<5	<5	<5
GMP constituents								
cis-1,2-DCE	**70**	70	---	<1	<1	<1	<1	<1
trans-1,2-DCE	---	100	---	<1	<1	<1	<1	<1
dichlorodifluoromethane	---	1,000	---	<2	<2	<2	<2	<2
isopropylbenzene	---	800	---	<1	<1	<1	<1	<1
n-propylbenzene	---	260	---	<1	<1	<1	<1	<1
1,3,5-trimethylbenzene	---	330	---	<1	<1	<1	<1	<1
tert-butylbenzene	---	260	---	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	---	70	---	<1	<1	<1	<1	<1
sec-butylbenzene	---	260	---	<1	<1	<1	<1	<1
1,3-dichlorobenzene	---	600	---	<1	<1	<1	<1	<1
p-isopropyltoluene	---	260	---	<1	<1	<1	<1	<1
1,4-dichlorobenzene	---	75	---	<1	<1	<1	<1	<1
1,2-dichlorobenzene	---	600	---	<1	<1	<1	<1	<1
n-butylbenzene	---	260	---	<1	<1	<1	<1	<1
1,2,4-trimethylbenzene	---	330	---	<1	<1	<1	<1	<1
naphthalene	---	20	---	<1	<1	<1	<1	<1
methyl tert-butyl ether	---	13	---	<1	<1	<1	<1	<1
diethyl ether	---	1,400	---	<1	<1	<1	<1	<1
ethyl tertiary-butyl ether	---	40	---	<1	<1	<1	<1	<1
di-isopropyl ether	---	120	---	<1	<1	<1	<1	<1
tertiary-butyl alcohol	---	40	---	<5	<5	<5	<5	<5
1,4-dioxane	---	3	---	<2	<2	<2	<2	<2
arsenic (dissolved)	**10**	10	102	112	111	102	109	102
arsenic (total)	---	---	108	111	110	103	109	104
calcium	---	---	---	---	---	---	---	---
iron (dissolved)	---	---	35.2 B	<100	<100	<100	<100	<100
iron (total)	---	---	287	114	150	<100	<100	<100
magnesium	---	---	---	---	---	---	---	---
manganese (dissolved)	---	840	76.3	84	85.1	83	83.3	80
manganese (total)	---	---	91.0	86	86.5	77	83.8	83
potassium	---	35,000	---	---	---	---	---	---
sodium	---	---	---	---	---	---	---	---
pH (SU)	---	---	8.14	7.42	8	8.2	8.18	8.21
SC (mS/cm)	---	---	0.172	0.182	0.197	0.177	0.181	0.177
Turb (NTU)	---	---	5.5	2.65	1.14	0.48	3.5	2.41
DO (mg/l)	---	---	0.55	0.48	0.23	0.16	0.51	0.27
ORP (mv)	---	---	-108	-57.8	-52.3	-171.4	-89.4	-84
Temp (^{o}C)	---	---	6.49	11.94	9.08	9.58	10.18	9.18
Water Level Elevation	NA	NA	---	---	---	---	---	---

SUMMARY OF GROUND WATER ANALYTICAL DATA
GMP WELL MW-201(D)

SOUTHERN PLUME WELL
SCREENED INTERVAL - 55-65 FEET BGS

constituent (ppb)	ICL	AGQS	Nov-07	May-09	Nov-09	May-10	Nov-10	May-11
benzene	**5**	5	<1	<1	<1	<1	<1	<1
ethylbenzene	---	700	<1	<1	<1	<1	<1	<1
toluene	**1,000**	1,000	<1	<1	<1	<1	<1	<1
xylenes (total)	---	10,000	<3	<3	<3	<3	<3	<3
PCE	**5**	5	<1	<1	<1	<1	<1	<1
TCE	**5**	5	<1	<1	<1	<1	<1	<1
1,2-DCE	**70**	70	<1	<1	<1	<1	<1	<1
vinyl chloride	**2**	2	<2	<1	<1	<1	<1	<1
acetone	**700**	6,000	<5	<5	<5	<5	<5	<5
tetrahydrofuran	**154**	154	<5	<5	<5	<5	<5	<5
2-butanone	**200**	---	<5	<5	<5	<5	<5	<5
4-methyl 2-pentanone	**350**	---	<5	<5	<5	<5	<5	<5
methylene chloride	**5**	5	<5	<5	<5	<5	<5	<5
1,1,1-TCA	---	200	<1	<1	<1	<1	<1	<1
1,1-DCA	---	81	<1	<1	<1	<1	<1	<1
1,1-DCE	**7**	7	<1	<1	<1	<1	<1	<1
1,2-DCA	**5**	5	<1	<1	<1	<1	<1	<1
bromomethane	---	10	<2	<1	<1	<1	<1	<1
chloromethane	---	30	<2	<1	<1	<1	<1	<1
chloroform	---	70	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	60	<1	<1	<1	<1	<1	<1
bromoform	---	4	<1	<1	<1	<1	<1	<1
carbon disulfide	---	70	**1**	<1	<1	<1	**1**	<1
styrene	---	100	<1	<1	<1	<1	<1	<1
chloroethane	**14,000**	---	<2	<1	<1	<1	<1	<1
chlorobenzene	---	100	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	---	5	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	5	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	---	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	---	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	2	<1	<1	<1	<1	<1	<1
2-hexanone	---	---	<5	<5	<5	<5	<5	<5
GMP constituents								
cis-1,2-DCE	**70**	70	---	<1	<1	<1	<1	<1
trans-1,2-DCE	---	100	---	<1	<1	<1	<1	<1
dichlorodifluoromethane	---	1,000	---	<2	<2	<2	<2	<2
isopropylbenzene	---	800	---	<1	<1	<1	<1	<1
n-propylbenzene	---	260	---	<1	<1	<1	<1	<1
1,3,5-trimethylbenzene	---	330	---	<1	<1	<1	<1	<1
tert-butylbenzene	---	260	---	<1	<1	<1	<1	<1
1,2,4-trichlorobenzene	---	70	---	<1	<1	<1	<1	<1
sec-butylbenzene	---	260	---	<1	<1	<1	<1	<1
1,3-dichlorobenzene	---	600	---	<1	<1	<1	<1	<1
p-isopropyltoluene	---	260	---	<1	<1	<1	<1	<1
1,4-dichlorobenzene	---	75	---	<1	<1	<1	<1	<1
1,2-dichlorobenzene	---	600	---	<1	<1	<1	<1	<1
n-butylbenzene	---	260	---	<1	<1	<1	<1	<1
1,2,4-trimethylbenzene	---	330	---	<1	<1	<1	<1	<1
naphthalene	---	20	---	<1	<1	<1	<1	<1
methyl tert-butyl ether	---	13	---	<1	<1	<1	<1	<1
diethyl ether	---	1,400	---	<1	<1	<1	<1	<1
ethyl tertiary-butyl ether	---	40	---	<1	<1	<1	<1	<1
di-isopropyl ether	---	120	---	<1	<1	<1	<1	<1
tertiary-butyl alcohol	---	40	---	<5	<5	<5	<5	<5
1,4-dioxane	---	3	---	<2	<2	<2	<2	<2
arsenic (dissolved)	**10**	10	41	49	49	48	50	49
arsenic (total)	---	---	51	50	48	49	51	49
calcium	---	---	---	---	---	---	---	---
iron (dissolved)	---	---	9.7 B	<100	<100	<100	<100	<100
iron (total)	---	---	14,400	377	130	<100	<100	<100
magnesium	---	---	---	---	---	---	---	---
manganese (dissolved)	---	840	15.9	13	14.5	18	21.6	18
manganese (total)	---	---	233	20	17	21	23.3	19
potassium	---	35,000	---	---	---	---	---	---
sodium	---	---	---	---	---	---	---	---
pH (SU)	---	---	8.38	7.96	7.85	8.39	8.30	8.01
SC (mS/cm)	---	---	0.256	0.263	0.457	0.254	0.257	0.264
Turb (NTU)	---	---	287	-11.62	2.01	0.52	0.10	0.71
DO (mg/l)	---	---	0.48	0.57	0.68	0.6	0.70	0.40
ORP (mv)	---	---	-319	299.6	103.3	-80.5	-139.1	45.1
Temp (^{o}C)	---	---	5.66	11.85	9.25	10.91	10.63	9.02
Water Level Elevation	NA	NA	---	---	---	---	---	---

SUMMARY OF GROUND WATER ANALYTICAL DATA
MW-207(I)
SCREENED INTERVAL - 35 - 45 FEET BGS

SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

constituent (ppb)	ICL	Apr-09	Jul-09	Oct-09	Dec-09	Apr-10	Jul-10	Sep-10	Dec-10	Apr-11	Jul-11
benzene	5	**21**	**20**	**20**	**20**	**24**	**22**	**25**	**24**	**26**	**25**
ethylbenzene	---	**7**	**6**	**6**	**5**	**8**	**6**	**6**	**8**	**8**	**6**
toluene	1,000	**3**	**2**	**2**	**2**	**3**	**2**	**2**	**2**	**2**	**2**
xylenes (total)	---	**13**	**11**	**12**	**10**	**9**	**12**	**12**	**10**	**16**	**25**
PCE	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TCE	5	<1	<1	<1	<1	<1	**0.3(J)**	<1	<1	<1	<1
cis-1,2-DCE	70	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**1**
vinyl chloride	2	<2	**0.4 (J)**	**0.6 (J)**	**0.3(J)**	**1(J)**	**4**	**0.4(J)**	<2	0.6(J)	<2
acetone	700	**17**	**10**	**16**	**15**	**27**	**17**	**14**	**13**	**23**	**16**
tetrahydrofuran	154	**1,400**	**870**	**900**	**1,200**	**1,600**	**810**	**1000**	**990(D)**	**1,200**	**940**
2-butanone	200	**8**	<5	**8**	<5	<5	**17**	<5	<5	<5	<5
4-methyl 2-pentanone	350	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
methylene chloride	5	**2(JB)**	**2(JB)**	<5	**1(J)**	**2(J)**	**3(J)**	**1(J)**	**3(J)**	**2(J)**	<5
1,1,1-TCA	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	**3**	**3**	**3**	**3**	**4**	**2**	**3**	**3**	**3**	**2**
1,1-DCE	7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	5	**0.8(J)**	**0.9(J)**	**0.9(J)**	<1	**1**	**1.0(J)**	<1	**1(J)**	**1**	**0.7(J)**
bromomethane	---	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloromethane	---	<2	<2	<2	<2	<2	**0.4(J)**	<2	**0.5(J)**	**<2**	<2
chloroform	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
styrene	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
chloroethane	14,000	**5**	**5**	**5**	**3**	**5**	**4**	**6**	**2(J)**	**<1**	**2(J)**
chlorobenzene	---	**1(J)**	**0.8(J)**	<1	**0.8(J)**	**1**	**1.0(J)**	**0.9(J)**	**1**	**<1**	<1
1,2-dichloropropane	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-hexanone	---	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
arsenic (dissolved)	10	**17.8**	**20.8**	**24.1**	**26.2**	**19.9**	**25.1**	**23.4**	**21.2**	**21.3**	**26.2**
arsenic (total)	---	**17.5**	**21.0**	**25.2**	**27.6**	**18.4**	**20.1**	**23.7**	**23.1**	**23.4**	**25.8**
calcium	---	---	---	---	---	---	---	---	---	---	---
iron (dissolved)	---	**87,100**	---	---	---	---	---	---	---	---	---
iron (total)	---	**85,800**	---	---	---	---	---	---	---	---	---
magnesium	---	---	---	---	---	---	---	---	---	---	---
manganese (dissolved)	---	---	---	---	---	---	---	---	---	---	---
manganese (total)	---	---	---	---	---	---	---	---	---	---	---
potassium	---	---	---	---	---	---	---	---	---	---	---
sodium	---	---	---	---	---	---	---	---	---	---	---
pH (SU)	---	7.55	6.23	6.01	6.36	5.90	---	6.05	6.05	5.94	5.5
SC (mS/cm)	---	4.18	3.60	3.68	3.72	3.90	3.10	2.299	2.23	4.52	2.61
Turb (NTU)	---	24.0	---	102.0	105.0	105	2.61	9.4	5.50	10.58	11.10
DO (mg/l)	---	0.20	0.18	0.24	0.16	0.20	0.06	0.22	0.12	0.74	0.61
ORP (mv)	---	-19	37	-36	-39	-26	-39	-43.2	-20.9	-158.2	-38.8
Temp (^{o}C)	---	12.56	10.91	12.43	8.78	10.90	11.56	11.12	7.66	9.74	12.95
Water Level Elevation	NA	146.34	145.60	145.18	146.41	TOC	144.75	143.62	145.97	TOC	TOC

NOTES:
1. Laboratory analytical results are reported in ug/L (micrograms per liter).
2. DCE = Dichloroethene; DCA = Dichloroethane; MEK = Methyl Ethyl Ketone (2-butanone); MIBK = Methyl Isobutyl Ketone (4-methyl 2-pentanone); TCA = Trichloroethane; PCE = Tetrachloroethene; TCE = Tetrachloroethene.
3. ICL = Interim Cleanup Level.
4. NA = Not Applicable.
5. pH measured in SU (standard units); SC (specific conductivity) measured in mS/cm (millisiemens per centimeter); DO (dissolved oxygen) measured in mg/L (milligrams per liter); ORP = Oxidation Reduction Potential measured in mv (millivolts).
6. J = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL), or data validation issue identified.
7. UJ = Indicates an estimated quantitation limit.
8. E = Result exceeded calibration range - estimated value.
9. D = Listed value obtained from second (diluted) analytical run.
10. B = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL) for metals.
11. --- = Constituent was not analyzed or ICL has not been established for constituent.
12. "<" = Not detected above reported PQL.
13. BGS = Below Ground Surface.
14. TOC = Ground water measured at the top of the PVC casing.

SUMMARY OF GROUND WATER ANALYTICAL DATA
MW-204(IA)
SCREENED INTERVAL - 17 - 27 FEET BGS

SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

constituent (ppb)	ICL	Nov-07	Apr-09	Apr-10	Apr-11
benzene	5	**0.6 (J)**	**0.4(J)**	**0.9(J)**	<1
ethylbenzene	---	<1	<1	<1	<1
toluene	1,000	<1	<1	<1	<1
xylenes (total)	---	<3	<3	<3	<3
PCE	5	<1	<1	<1	<1
TCE	5	<1	<1	<1	<1
cis-1,2-DCE	70	<1	<1	**0.2(J)**	**0.2(J)**
vinyl chloride	2	<2	<2	**0.3(J)**	<2
acetone	700	<5	<5	<5	<5
tetrahydrofuran	154	<5	<5	<5	<5
2-butanone	200	<5	<5	<5	<5
4-methyl 2-pentanone	350	<5	<5	<5	<5
methylene chloride	5	<5	**0.9(JB)**	<5	<5
1,1,1-TCA	---	<1	<1	<1	<1
1,1-DCA	---	<1	**0.3(J)**	**1**	**0.7(J)**
1,1-DCE	7	<1	<1	<1	<1
1,2-DCA	5	<1	<1	<1	<1
bromomethane	---	<2	<2	<2	<2
chloromethane	---	<2	<2	<2	<2
chloroform	---	<1	<1	<1	<1
dibromochloromethane	---	<1	<1	<1	<1
bromoform	---	<1	<1	<1	<1
carbon disulfide	---	<1	<1	<1	<1
styrene	---	<1	<1	<1	<1
chloroethane	14,000	<2	<2	<2	<2
chlorobenzene	---	<1	<1	<1	<1
1,2-dichloropropane	---	<1	<1	<1	<1
1,1,2-trichloroethane	---	<1	<1	<1	<1
cis-1,3-dichloropropene	---	<1	<1	<1	<1
trans-1,3-dichloropropene	---	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	<1	<1	<1	<1
2-hexanone	---	<5	<5	<5	<5
arsenic (dissolved)	10	**6.9 B**	<1.2	<1.86	**2.1(J)**
arsenic (total)	---	**7.6 B**	<1.2	<1.86	**3.3(J)**
calcium	---	---	---	---	---
iron (dissolved)	---	**30,600**	**23,000**	---	---
iron (total)	---	**31,300**	**22,600**	---	---
magnesium	---	---	---	---	---
manganese (dissolved)	---	**605**	---	---	---
manganese (total)	---	**606**	---	---	---
potassium	---	---	---	---	---
sodium	---	---	---	---	---
pH (SU)	---	6.02	7.46	5.99	6.14
SC (mS/cm)	---	0.380	0.315	0.562	0.321
Turb (NTU)	---	118	2.4	266	1.89
DO (mg/l)	---	0.15	0.31	0.28	0.42
ORP (mv)	---	-51	-23	-83	-24.4
Temp (^{o}C)	---	5.42	11.63	10.50	6.76
Water Level Elevation	NA	142.75	142.92	142.93	142.99

NOTES:
1. Laboratory analytical results are reported in ug/L (micrograms per liter).
2. DCE = Dichloroethene; DCA = Dichloroethane; MEK = Methyl Ethyl Ketone (2-butanone); MIBK = Methyl Isobutyl Ketone (4-methyl 2-pentanone); TCA = Trichloroethane; PCE = Tetrachloroethene; TCE = Tetrachloroethene.
3. ICL = Interim Cleanup Level.
4. NA = Not Applicable.
5. pH measured in SU (standard units); SC (specific conductivity) measured in mS/cm (millisiemens per centimeter); DO (dissolved oxygen) measured in mg/L (milligrams per liter); ORP = Oxidation Reduction Potential measured in mv (millivolts).
6. J = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL).
7. UJ = Indicates an estimated quantitation limit.
8. E = Result exceeded calibration range - estimated value.
9. D = Listed value obtained from second (diluted) analytical run.
10. B = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL) for metals.
11. --- = Constituent was not analyzed or ICL has not been established for constituent.
12. "<" = Not detected above reported PQL.

SUMMARY OF GROUND WATER ANALYTICAL DATA
MW-204(IB)
SCREENED INTERVAL - 37 - 47 FEET BGS

SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

Constituent (ppb)	**ICL**	Nov-07	Apr-10	Apr-11
benzene	5	<1	<1	<1
ethylbenzene	---	<1	<1	<1
toluene	1,000	<1	<1	<1
xylenes (total)	---	<3	<3	<3
PCE	5	<1	<1	<1
TCE	5	<1	<1	<1
cis-1,2-DCE	70	<1	<1	<1
vinyl chloride	2	<2	<2	<2
acetone	700	<5	<5	<5
tetrahydrofuran	154	<5	<5	<5
2-butanone	200	<5	<5	<5
4-methyl 2-pentanone	350	<5	<5	<5
methylene chloride	5	<5	<5	<5
1,1,1-TCA	---	<1	<1	<1
1,1-DCA	---	<1	<1	<1
1,1-DCE	7	<1	<1	<1
1,2-DCA	5	<1	<1	<1
bromomethane	---	<2	<2	<2
chloromethane	---	<2	<2	<2
chloroform	---	<1	<1	<1
dibromochloromethane	---	<1	<1	<1
bromoform	---	<1	<1	<1
carbon disulfide	---	<1	<1	<1
styrene	---	<1	<1	<1
chloroethane	14,000	<2	<2	<2
chlorobenzene	---	<1	<1	<1
1,2-dichloropropane	---	<1	<1	<1
1,1,2-trichloroethane	---	<1	<1	<1
cis-1,3-dichloropropene	---	<1	<1	<1
trans-1,3-dichloropropene	---	<1	<1	<1
1,1,2,2-tetrachloroethane	---	<1	<1	<1
2-hexanone	---	<5	<5	<5
arsenic (dissolved)	10	**78.7**	**85.6**	**84.4**
arsenic (total)	---	**78.9**	**84.5**	**82.0**
calcium	---	---	---	---
iron (dissolved)	---	**26.4 B**	---	---
iron (total)	---	**373**	---	---
magnesium	---	---	---	---
manganese (dissolved)	---	**62.6**	---	---
manganese (total)	---	**66.1**	---	---
potassium	---	---	---	---
sodium	---	---	---	---
pH (SU)	---	8.11	8.17	8.39
SC (mS/cm)	---	0.142	0.155	0.089
Turb (NTU)	---	22.7	79.1	12.5
DO (mg/l)	---	0.22	0.15	0.38
ORP (mv)	---	-145	-185	-58.4
Temp (^{o}C)	---	7.31	10.33	7.53
Water Level Elevation	NA	143.61	144.04	---

NOTES:
1. Laboratory analytical results are reported in ug/L (micrograms per liter).
2. DCE = Dichloroethene; DCA = Dichloroethane; MEK = Methyl Ethyl Ketone (2-butanone); MIBK = Methyl Isobutyl Ketone (4-methyl 2-pentanone); TCA = Trichloroethane; PCE = Tetrachloroethene; TCE = Tetrachloroethene.
3. ICL = Interim Cleanup Level.
4. NA = Not Applicable.
5. pH measured in SU (standard units); SC (specific conductivity) measured in mS/cm (millisiemens per centimeter); DO (dissolved oxygen) measured in mg/L (milligrams per liter); ORP = Oxidation Reduction Potential measured in mv (millivolts).
6. J = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL).
7. UJ = Indicates an estimated quantitation limit.
8. E = Result exceeded calibration range - estimated value.
9. D = Listed value obtained from second (diluted) analytical run.
10. B = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL) for metals.
11. --- = Constituent was not analyzed or ICL has not been established for constituent.
12. "<" = Not detected above reported PQL.

SUMMARY OF GROUND WATER ANALYTICAL DATA
MW-206(S)
SCREENED INTERVAL - 3 - 13 FEET BGS

SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

constituent (ppb)	ICL	Apr-09	Apr-10
benzene	5	**1 (J)**	**2**
ethylbenzene	---	<1	<1
toluene	1,000	<1	<1
xylenes (total)	---	<3	<3
PCE	5	<1	<1
TCE	5	<1	<1
cis-1,2-DCE	70	**0.7 (J)**	**0.6 (J)**
vinyl chloride	2	<2	**0.5 (J)**
acetone	700	**2.0 (J)**	<5
tetrahydrofuran	154	<5	<5
2-butanone	200	<5	<5
4-methyl 2-pentanone	350	<5	<5
methylene chloride	5	<5	<5
1,1,1-TCA	---	<1	<1
1,1-DCA	---	**0.6 (J)**	**0.8 (J)**
1,1-DCE	7	<1	<1
1,2-DCA	5	**0.8 (J)**	**0.8 (J)**
bromomethane	---	<2	<2
chloromethane	---	<2	<2
chloroform	---	<1	<1
dibromochloromethane	---	<1	<1
bromoform	---	<1	<1
carbon disulfide	---	<1	<1
styrene	---	<1	<1
chloroethane	14,000	<2	<2
chlorobenzene	---	<1	<1
1,2-dichloropropane	---	<1	<1
1,1,2-trichloroethane	---	<1	<1
cis-1,3-dichloropropene	---	<1	<1
trans-1,3-dichloropropene	---	<1	<1
1,1,2,2-tetrachloroethane	---	<1	<1
2-hexanone	---	<5	<5
arsenic (dissolved)	10	**3.2 (B)**	**3.4 (J)**
arsenic (total)	---	**3.3 (B)**	**2.4 (J)**
calcium	---	---	---
iron (dissolved)	---	**22,400**	---
iron (total)	---	**24,300**	---
magnesium	---	---	---
manganese (dissolved)	---	---	---
manganese (total)	---	---	---
potassium	---	---	---
sodium	---	---	---
pH (SU)	---	6.02	5.91
SC (mS/cm)	---	0.479	0.517
Turb (NTU)	---	123	69.0
DO (mg/l)	---	0.43	0.08
ORP (mv)	---	-54	38
Temp (^{o}C)	---	9.04	7.35
Water Level Elevation	NA	148.04	148.16

NOTES:
1. Laboratory analytical results are reported in ug/L (micrograms per liter).
2. DCE = Dichloroethene; DCA = Dichloroethane; MEK = Methyl Ethyl Ketone (2-butanone); MIBK = Methyl Isobutyl Ketone (4-methyl 2-pentanone); TCA = Trichloroethane; PCE = Tetrachloroethene; TCE = Tetrachloroethene.
3. ICL = Interim Cleanup Level.
4. NA = Not Applicable.
5. pH measured in SU (standard units); SC (specific conductivity) measured in mS/cm (millisiemens per centimeter); DO (dissolved oxygen) measured in mg/L (milligrams per liter); ORP = Oxidation Reduction Potential measured in mv (millivolts).
6. J = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL).
7. UJ = Indicates an estimated quantitation limit.
8. E = Result exceeded calibration range - estimated value.
9. D = Listed value obtained from second (diluted) analytical run.
10. B = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL) for metals.
11. --- = Constituent was not analyzed or ICL has not been established for constituent.
12. "<" = Not detected above reported PQL.
13. BGS = Below Ground Surface.

SUMMARY OF GROUND WATER ANALYTICAL DATA
MW-208(S)
SCREENED INTERVAL - 2 - 12 FEET BGS

SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

constituent (ppb)	ICL	Apr-09	Apr-10	Apr-11
benzene	5	**0.3(J)**	**0.4(J)**	0.4(J)
ethylbenzene	---	<1	<1	<1
toluene	1,000	<1	<1	<1
xylenes (total)	---	<3	<3	<3
PCE	5	<1	<1	<1
TCE	5	<1	<1	<1
cis-1,2-DCE	70	**0.8(J)**	**1**	**0.7(J)**
vinyl chloride	2	**0.3(J)**	**0.4(J)**	**0.3(J)**
acetone	700	<5	<5	<5
tetrahydrofuran	154	<5	<5	<5
2-butanone	200	<5	<5	<5
4-methyl 2-pentanone	350	<5	<5	<5
methylene chloride	5	<5	<5	<5
1,1,1-TCA	---	<1	<1	<1
1,1-DCA	---	**0.3(J)**	<1	<1
1,1-DCE	7	<1	<1	<1
1,2-DCA	5	**0.6(J)**	**0.7(J)**	<1
bromomethane	---	<2	<2	<2
chloromethane	---	<2	<2	<2
chloroform	---	<1	<1	<1
dibromochloromethane	---	<1	<1	<1
bromoform	---	<1	<1	<1
carbon disulfide	---	<1	<1	<1
styrene	---	<1	<1	<1
chloroethane	14,000	<2	<2	<1
chlorobenzene	---	<1	<1	<1
1,2-dichloropropane	---	<1	<1	<1
1,1,2-trichloroethane	---	<1	<1	<1
cis-1,3-dichloropropene	---	<1	<1	<1
trans-1,3-dichloropropene	---	<1	<1	<1
1,1,2,2-tetrachloroethane	---	<1	<1	<1
2-hexanone	---	<5	<5	<1
arsenic (dissolved)	10	**2.5 (B)**	**1.9(J)**	**2.4**
arsenic (total)	---	**3.0 (B)**	<1.86	**3.4**
calcium	---	---	---	---
iron (dissolved)	---	**33,200**	---	---
iron (total)	---	**34,700**	---	---
magnesium	---	---	---	---
manganese (dissolved)	---	---	---	---
manganese (total)	---	---	---	---
potassium	---	---	---	---
sodium	---	---	---	---
pH (SU)	---	5.84	5.97	6.07
SC (mS/cm)	---	0.448	0.444	0.454
Turb (NTU)	---	61.7	9.9	6.72
DO (mg/l)	---	0.15	0.08	0
ORP (mv)	---	-50	47	-194.1
Temp (^{o}C)	---	9.78	8.27	7.15
Water Level Elevation	NA	144.74	144.79	144.65

NOTES:
1. Laboratory analytical results are reported in ug/L (micrograms per liter).
2. DCE = Dichloroethene; DCA = Dichloroethane; MEK = Methyl Ethyl Ketone (2-butanone); MIBK = Methyl Isobutyl Ketone (4-methyl 2-pentanone); TCA = Trichloroethane; PCE = Tetrachloroethene; TCE = Tetrachloroethene.
3. ICL = Interim Cleanup Level.
4. NA = Not Applicable.
5. pH measured in SU (standard units); SC (specific conductivity) measured in mS/cm (millisiemens per centimeter); DO (dissolved oxygen) measured in mg/L (milligrams per liter); ORP = Oxidation Reduction Potential measured in mv (millivolts).
6. J = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL).
7. UJ = Indicates an estimated quantitation limit.
8. E = Result exceeded calibration range - estimated value.
9. D = Listed value obtained from second (diluted) analytical run.
10. B = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL) for metals.
11. --- = Constituent was not analyzed or ICL has not been established for constituent.
12. "<" = Not detected above reported PQL.
13. BGS = Below Ground Surface.

SUMMARY OF GROUND WATER ANALYTICAL DATA
MW-208(I)
SCREENED INTERVAL - 35 - 45 FEET BGS

SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

constituent (ppb)	ICL	Apr-09	Jul-09	Oct-09	Dec-09	Apr-10	Jul-10	Sep-10	Dec-10	Apr-10	Jul-11
benzene	5	**16**	**4**	**10**	**13**	**21**	**14**	**18**	**21**	**21**	**19**
ethylbenzene	---	**7**	**2**	**4**	**5**	**8**	**6**	**6**	**9**	**8**	**6**
toluene	1,000	**2**	**0.5(J)**	**1**	**2**	**3**	**2**	**2**	**3**	**3**	**2**
xylenes (total)	---	**6**	<3	**4**	**5**	**5**	**5**	**6**	**5**	**6**	**7**
PCE	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TCE	5	<1	<1	<1	<1	**0.3(J)**	<1	**0.3(J)**	**0.4(J)**	0.5(J)	**0.3(J)**
cis-1,2-DCE	70	**2**	**0.4(J)**	**0.9(J)**	**1**	**2**	**1**	**2**	**2**	**2**	**1**
vinyl chloride	2	<2	**0.5(J)**	**0.7(J)**	**0.8(J)**	**2(J)**	**4**	**0.9(J)**	**1(J)**	1(J)	**0.5(J)**
acetone	700	**14**	**3(J)**	**8**	**8**	**31**	**10**	**11**	<5	**19**	**14**
tetrahydrofuran	154	**960**	**40**	**320**	**460**	**1,100**	**440**	**640**	**850(D)**	**860**	**640**
2-butanone	200	<5	**2(J)**	**3(J)**	<5	**11**	**16**	<5	<5	<5	<5
4-methyl 2-pentanone	350	**6**	<5	<5	<5	<5	<5	<5	<5	<5	<5
methylene chloride	5	**0.9(JB)**	**0.6(JB)**	<5	**1(J)**	**2(J)**	**3(J)**	**1(J)**	**3(J)**	2(J)	<5
1,1,1-TCA	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	**2**	**0.5(J)**	**2**	**2**	**4**	**2**	**3**	**4**	**3**	**2**
1,1-DCE	7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	5	**2**	**0.6(J)**	**0.9 (J)**	<1	**2**	**1**	**1**	**2(J)**	**1**	**0.9(J)**
bromomethane	---	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloromethane	---	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloroform	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	<1	<1	<1	<1	<1	<1	<1	**3(J)**	<1	**0.4(JB)**
styrene	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
chloroethane	14,000	**3**	<2	**2(J)**	**3**	**3**	<2	**4**	**3**	<2	**1(J)**
chlorobenzene	---	<1	<1	<1	<1	<1	**0.8(J)**	**0.8(J)**	**1**	**8**	<1
1,2-dichloropropane	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-hexanone	---	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
arsenic (dissolved)	10	**18.7**	**11.2**	**20.8**	**22.1**	**18.8**	**20.8**	**23.4**	**19.9**	**23.6**	**27.1**
arsenic (total)	---	**18.3**	**12.9**	**21.6**	**22.7**	**21.4**	**14.8**	**22.3**	**20.8**	**23.3**	**30.4**
calcium	---	---	---	---	---	---	---	---	---	---	---
iron (dissolved)	---	**170,000**	---	---	---	---	---	---	---	---	---
iron (total)	---	**160,000**	---	---	---	---	---	---	---	---	---
magnesium	---	---	---	---	---	---	---	---	---	---	---
manganese (dissolved)	---	---	---	---	---	---	---	---	---	---	---
manganese (total)	---	---	---	---	---	---	---	---	---	---	---
potassium	---	---	---	---	---	---	---	---	---	---	---
sodium	---	---	---	---	---	---	---	---	---	---	---
pH (SU)	---	5.59	6.31	5.96	6.31	5.75	6.04	5.91	5.97	5.84	5.78
SC (mS/cm)	---	3.45	1.16	2.22	2.30	3.59	2.31	1.957	2.036	3.878	2.067
Turb (NTU)	---	88.1	---	153	42.8	42.3	117	9.7	19.5	3.67	4.2
DO (mg/l)	---	0.25	0.22	0.28	0.11	0.10	0.15	0.17	0.13	0	0.19
ORP (mv)	---	-32	-95	-24	-51	73	-87	-33.0	-9.2	-148.7	0.1
Temp (^{o}C)	---	9.87	10.91	12.01	8.76	9.30	12.41	11.13	8.07	8.61	13.31
Water Level Elevation	NA	146.41	145.64	145.28	146.38	146.86	144.83	143.69	146.26	147.05	TOC

NOTES:
1. Laboratory analytical results are reported in ug/L (micrograms per liter).
2. DCE = Dichloroethene; DCA = Dichloroethane; MEK = Methyl Ethyl Ketone (2-butanone); MIBK = Methyl Isobutyl Ketone (4-methyl 2-pentanone); TCA = Trichloroethane; PCE = Tetrachloroethene; TCE = Tetrachloroethene.
3. ICL = Interim Cleanup Level.
4. NA = Not Applicable.
5. pH measured in SU (standard units); SC (specific conductivity) measured in mS/cm (millisiemens per centimeter); DO (dissolved oxygen) measured in mg/L (milligrams per liter); ORP = Oxidation Reduction Potential measured in mv (millivolts).
6. J = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL), or data validation issue identified.
7. UJ = Indicates an estimated quantitation limit.
8. E = Result exceeded calibration range - estimated value.
9. D = Listed value obtained from second (diluted) analytical run.
10. B = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL) for metals.
11. --- = Constituent was not analyzed or ICL has not been established for constituent.
12. "<" = Not detected above reported PQL.
13. BGS = Below Ground Surface.
14. TOC = Ground water measured at the top of the PVC casing.

SUMMARY OF GROUND WATER ANALYTICAL DATA
MW-209(I)
SCREENED INTERVAL - 35 - 45 FEET BGS

SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

constituent (ppb)	ICL	Apr-09	Jul-09	Oct-09	Dec-09	Apr-10	Jul-10	Sep-10	Dec-10	Apr-11	Jul-11
benzene	5	**14**	**8**	**4**	**4**	**3**	**9**	**16**	**19**	**18**	**16**
ethylbenzene	---	**7**	**5**	**2**	**2**	**2**	**6**	**13**	**18**	**17**	**16**
toluene	1,000	**2**	**2**	**0.9(J)**	**0.7(J)**	<1	**2**	**2**	**3**	**3**	**2**
xylenes (total)	---	**12**	**5**	**2(J)**	**2(J)**	**1(J)**	**5**	**19**	**31**	**31**	**30**
PCE	5	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
TCE	5	<1	<1	<1	<1	<1	<1	**0.3(J)**	<1	1	<1
cis-1,2-DCE	70	**0.7(J)**	**0.7(J)**	**0.3(J)**	**0.3(J)**	**0.3(J)**	**0.8(J)**	**1**	**2**	**1**	**1**
vinyl chloride	2	<2	**0.7 (J)**	**0.5 (J)**	<2	**0.5(J)**	**4**	**0.7 (J)**	<2	0.4	<2
acetone	700	**10**	**4 (J)**	<5	**4(J)**	**8**	**16**	**8**	**7**	**8**	**10**
tetrahydrofuran	154	**340**	**70**	**6**	<5	**6**	**88**	**330**	**360**	**360**	**330**
2-butanone	200	**3(J)**	<5	<5	<5	**2(J)**	**14**	<5	<5	5	<5
4-methyl 2-pentanone	350	<5	<5	<5	<5	<5	<5	<5	<5	<1	<5
methylene chloride	5	<5	**0.8 (JB)**	<5	<5	<5	**2(J)**	<5	**3(J)**	**1(J)**	<5
1,1,1-TCA	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	**3**	**1**	<1	**0.5(J)**	<1	**1**	**3**	**4**	**<3**	**3**
1,1-DCE	7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	5	**1(J)**	**1**	**0.6(J)**	<1	**0.5(J)**	**1**	**1**	**1**	**<1**	**1**
bromomethane	---	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloromethane	---	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloroform	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	<1	<1	<1	<1	<1	<1	<1	**3(J)**	**<1**	**0.3(JB)**
styrene	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
chloroethane	14,000	**2**	**0.7 (J)**	<2	<2	<2	<2	**3**	<2	<2	<2
chlorobenzene	---	<1	<1	<1	<1	<1	**0.5(J)**	**0.6(J)**	**0.7(J)**	**<1**	<1
1,2-dichloropropane	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-hexanone	---	<5	<5	<5	<5	<5	<5	<5	**3(J)**	**2(J)**	<5
arsenic (dissolved)	10	**19.6**	**20.6**	**14.6**	**14.0**	**2.4(J)**	**16.0**	**27.6**	**23.0**	**30.2**	**32.4**
arsenic (total)	---	**18.8**	**20.4**	**15.9**	**17.6**	<1.86	**16.1**	**25.6**	**27.5**	**29.6**	**28.8**
calcium	---	---	---	---	---	---	---	---	---	---	---
iron (dissolved)	---	**135,000**	---	---	---	---	---	---	---	---	---
iron (total)	---	**133,000**	---	---	---	---	---	---	---	---	---
magnesium	---	---	---	---	---	---	---	---	---	---	---
manganese (dissolved)	---	---	---	---	---	---	---	---	---	---	---
manganese (total)	---	---	---	---	---	---	---	---	---	---	---
potassium	---	---	---	---	---	---	---	---	---	---	---
sodium	---	---	---	---	---	---	---	---	---	---	---
pH (SU)	---	6.13	6.20	6.13	6.46	6.07	6.10	6.03	6.16	6.13	5.99
SC (mS/cm)	---	2.270	1.570	1.029	0.949	0.953	1.52	1.522	1.382	1.421	1.525
Turb (NTU)	---	146	---	64.2	58.4	-9	47.9	4.0	84.7	16.9	58.3
DO (mg/l)	---	0.26	0.38	0.22	0.21	0.19	0.11	0.32	0.12	0.28	0.18
ORP (mv)	---	-73	-65	-69	-46	90.3	-114	-42.1	6.7	-22	-14.3
Temp (°C)	---	10.49	10.87	11.88	9.24	8.68	12.36	11.17	7.02	7.69	13.22
Water Level Elevation	NA	146.43	145.88	145.56	145.99	146.99	144.98	143.85	146.21	147.15	TOC

NOTES:
1. Laboratory analytical results are reported in ug/L (micrograms per liter).
2. DCE = Dichloroethene; DCA = Dichloroethane; MEK = Methyl Ethyl Ketone (2-butanone); MIBK = Methyl Isobutyl Ketone (4-methyl 2-pentanone); TCA = Trichloroethane; PCE = Tetrachloroethene; TCE = Tetrachloroethene.
3. ICL = Interim Cleanup Level.
4. NA = Not Applicable.
5. pH measured in SU (standard units); SC (specific conductivity) measured in mS/cm (millisiemens per centimeter); DO (dissolved oxygen) measured in mg/L (milligrams per liter); ORP = Oxidation Reduction Potential measured in mv (millivolts).
6. J = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL), or data validation issue identified.
7. UJ = Indicates an estimated quantitation limit.
8. E = Result exceeded calibration range - estimated value.
9. D = Listed value obtained from second (diluted) analytical run.
10. B = Denotes an estimated value; constituent detected at a concentration below the Practical Quantitation Limit (PQL) for metals.
11. ... = Constituent was not analyzed or ICL has not been established for constituent.
12. "<" = Not detected above reported PQL.
13. BGS = Below Ground Surface.
14. TOC = Ground water measured at the top of the PVC casing.

SUMMARY OF HISTORICAL GROUND WATER QUALITY DATA
WELL SB-B1

DOWNGRADIENT WELL
SCREENED INTERVAL - 4.5 - 15.5 FEET BGS

Well SB-B1
[4.5 - 15.5 feet BGS]

constituent (ppb)	ICL	Apr-93	Jul-93	Oct-93	May-94	Oct-94	May-95	Dec-95	Jun-96	Dec-96	May-97	Dec-97	May-98	Nov-98	May-99	Dec-99	Aug-00	Dec-00	Jul-01	Nov-01	May-02	Dec-02	May-03	Nov-03	May-04	Dec-04	May-05	Oct-05	Jun-06*	Oct-06	Jun-07	Oct-07	Jun-08	Nov-08	Apr-09	Nov-09	Apr-10	May-10	Nov-10	Apr-11	May-11
benzene	5	**0.3**	**0.6**	**0.4**	<1	**0.5(J)**	<1	<1	<1	**0.6(J)**	**0.7(J)**	**0.5(J)**	**0.8(J)**	<1	**3**	**0.6(J)**	<1	<1	**0.5(J)**	<1	**0.6(J)**	**0.7(J)**	**0.7(J)**	<10	**1**	**0.9(J)**	**1**	**0.9(J)**	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	2	**3**
ethylbenzene	---	**0.7**	**0.8**	**0.9**	**0.6(J)**	**0.7(J)**	**0.5(J)**	<1	**0.6(J)**	**0.6(J)**	**0.6(J)**	<1	**1**	<1	**0.6(J)**	<1	<1	<1	<1	<1	<1	**0.1(J)**	**0.2(J)**	<10	<1	**0.2(J)**	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.2(J)**	<1	<1	<1	**<1**	<1
toluene	1,000	**0.5**	**0.8**	**0.4**	**0.5(J)**	<1	**0.5(J)**	<1	<1	<1	<1	<1	**0.6(J)**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**<5**	<1
xylene	---	<0.7	<0.7	**0.5**	<1	<1	<1	<1	<1	**0.9(J)**	<1	<1	**2**	<1	**0.9(J)**	<1	<1	<1	<1	<1	<1	**0.4(J)**	<1	<10	<1	<3	<3	<3	**3**	<3	<3	<3	<3	**1(J)**	**0.3(J)**	**0.3(J)**	<3	<3	<3	**0.3(J)**	**0.3(J)**
PCE	5	<0.4	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	**0.6(J)**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TCE	5	<0.3	**0.4**	**0.3**	<1	**0.4(J)**	<1	<1	<1	<1	<1	<1	**0.6(J)**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCE	70	**7**	**8**	**6**	**4(J)**	**5**	**4**	**3**	**3**	**2**	**3**	**2**	**2.5(J)**	**2**	<1	**2**	<1	**1**	**1**	**1**	**2**	<1	**1**	**1(J)**	<1	**0.9(J)**	**1(J)**	**0.8(J)**	<1	**1**	**0.7(J)**	**0.9(J)**	**0.8(J)**	**1(J)**	**0.7(J)**	**0.9(J)**	**0.8(J)**	**0.8(J)**	**0.7(J)**	1	**1**
vinyl chloride	2	**2**	**2**	**2**	**1(J)**	<1	**1**	**1**	**0.7(J)**	**0.7(J)**	**1**	**1(J)**	**1**	<1	<1	**0.9(J)**	**0.7(J)**	**1(J)**	**0.5(J)**	**0.9(J)**	**2**	**0.8(J)**	<1	**1(J)**	<1	**1(J)**	**1**	**0.7(J)**	**1**	**1(J)**	**0.9(J)**	**0.9(J)**	**1**	**0.8(J)**	**0.7(J)**	**0.8(J)**	**0.8(J)**	**0.5(J)**	**0.8(J)**	0.6(J)	**0.9(J)**
acetone	700	---	<5	<5	**5(R)**	**2(J)**	**12**	<5	<5	<5	<5	**8**	<5	<5	**7**	<5	<5	<5	<5	<5	**13**	<5	<5	<10	<1	**4(J)**	<5	<5	<5	<5	<5	**3(JB)**	<5	<5	**2(J)**	<5	<5	<5	<5	<5	<5
tetrahydrofuran	154	<1	<5	**11**	**5(R)**	**3(R)**	<5	<5	<5	<5	<5	<5	**6**	**6**	<5	**3(J)**	<5	<5	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	**4(J)**	<5	**5(J)**	**4(J)**	**3(J)**	<5	**2(J)**	<5	**5(J)**
2-butanone	200	---	<5	<5	**5(R)**	**5(R)**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl 2-pentanone	350	---	<5	<5	**5(J)**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
methylene chloride	5	<1	<1	<1	<1	<1	**0.8(JB)**	**0.6(J)**	**1(B)**	**0.8(J)**	**3(B)**	**3(B)**	**5(B)**	**1(B)**	**7(B)**	**0.8(JB)**	**0.7(J)**	<1	<1	<1	<1	<1	<1	<10	<1	<1	<2	<1	<5	<5	<5	<5	<5	**0.5(JB)**	**0.4(JB)**	<5	<5	<5	<5	<5	<5
1,1,1,-TCA	---	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	**5**	**6**	**4**	**3(J)**	**3**	**2**	**2**	**1**	**1**	**1**	**1(J)**	**1**	<1	<1	**0.7(J)**	<1	**0.6(J)**	**0.5(J)**	**0.5(J)**	<1	**0.7(J)**	<1	<10	<1	**0.8(J)**	<1	**0.5(J)**	<1	**0.5(J)**	**0.6(J)**	**0.6(J)**	**0.8(J)**	**0.9(J)**	**0.8(J)**	**0.9(J)**	**1**	**1(J)**	**1**	0.9(J)	**1**
1,1-DCE	7	<1.3	<1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.8(J)**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	5	**0.8**	**0.7**	<0.7	<1	<1	**2**	<1	<1	**0.5(J)**	<1	**0.6(J)**	**0.6(J)**	<1	<1	**0.8(J)**	<1	**0.9(J)**	**1(J)**	<1	**0.7(J)**	<1	**0.6(J)**	<10	<1	<1	**0.8(J)**	**0.8(J)**	<1	**1**	**1**	**1(J)**	**0.9(J)**	**1(J)**	**1**	**1**	**1**	**1**	**1**	**1**	**0.9(J)**
bromomethane	---	<0.3	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2	<1	<1	<2	<1
chloromethane	---	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.7(J)**	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.3(J)**	<2	<1	<2	<1	<1	<2	<1
chloroform	---	<0.7	<0.7	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	<0.3	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	<0.3	**0.4**	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	---	<5	**10**	<1	<1	<1	<1	**0.9(J)**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**8**	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
styrene	---	<0.4	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
chloroethane	14,000	**0.8**	**1**	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2	<1	<1	<2	<1
chlorobenzene	---	<0.2	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	**0.5(J)**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	---	<0.3	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	<0.2	<0.2	<0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	<0.4	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	<0.4	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	**0.4**	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-hexanone	---	---	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
arsenic (dissolved)	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1.98	<2.53	3.3(B)	<2.53	<2.08	<2	<1.8	4.3(B)	2.4(B)	<3		<2.81	<3.45	<8	<3.09	2.9(B)	2.9(B)	<1.7	2.5(B)	1.8(B)	2.9(B)	2.2(J)	<1.95	3.3(J)	3.3(J)	2.1(J)
arsenic (total)	---	---	---	<2.40	<2.60	<2	<3.80	4.80	5.20(B)	2.60(B)	<3.00	<2.54	<1.81	2.60(B)	<2.07	<2.19	<1.98	<2.53	6(B)	3.0(B)	<2.08	2.2(B)	3. 1(B)	1.5(B)	1.4(B)	<3	<2.81	<3.45	<8	<3.09	4.0(B)	3.3(B)	<1.7	2.6(B)	2.2(B)	3.2(B)	2.8(J)	4.9(J)	5.3(J)	4.4(J)	3.5
calcium	---	38,400	37,600	26,600	30,000	28,200	28,100	27,100	40,000	32,000	32,400	31,200	30,200	30,000	27,300	27,300	---	---	---	---	---	---	---	---	---	---	---	---	-	--	---	---	---	---	---	---	---	---	---	---	---
iron (dissolved)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	42,500	52,900	49,500	48,000	48,600	39,200	50,000	37,60	0	43,400	45,600	46,800	40,000	52,900	44,400	53,700	47,100	44,800	48,600	59,900	56,700	---	58,800	50,500	---	61,100
iron (total)	---	148,000	170,000	70,700	74,700	71,300	69,000	62,300	82,600	74,000	75,200	72,800	71,200	70,900	65,900	64,300	42,800	53,800	49,100	49,700	48,500	47,200	48,700	17,200	42,800	45,500	47,100	42,800	53,300	45,500	52,800	45,700	45,500	50,000	60,500	57,500	---	59,300	49,900	---	60,200
magnesium	---	23,700	29,800	7,470	8,410	7,910	7,800	7,430	13,600	8,540	9,080	8,590	8,420	8,040	7,590	7,560	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-		--
manganese (dissolved)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	603	796	768	718	714	601	755	602	695	705	706	601	799	667		860	735	699	733	---	847	---	901	770	---	925
manganese (total)	---	2,000	2,170	804	890	856	810	803	1,190	964	962	1,020	959	957	892	891	599	762	748	743	720	714	723	281	681	698	707	627	799	686	843	694	709	756	---	853	---	901	754	---	909
potassium	---	18,100	22,700	1,710(B)	<1,680	1,830	1,640(B)	2,460(B)	3,610(B)	2,200	2,300	2,440(B)	1,950	2,580	2,130(B)	2,570(B)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
sodium	---	17,100	17,000	17,400	21,000	23,700	24,200	30,200	115,000	34,600	37,500	42,400	41,800	52,100	47,200	52,400	---	---	---	---	---	---	---	--	-	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
pH (SU)	---	---	---	6.06	6.24	5.88	5.98	6.52	6.01	6.85	6.17	6.11	6.28	6.16	6.06	6.34	6.06	6.45	6.08	6.18	6.18	6.08	5.47	6.23	5.71	6.01	6.05	6.16	5.65	6.42	6.11	6.22	6.17	5.98	6.03	6.03	6.16	6.14	6.20	6.19	6.62
SC (mS/cm)	---	---	---	0.564	0.591	0.627	0.615	0.370	0.600	0.753	0.670	0.789	0.736	0.776	0.654	0.434	0.743	0.703	0.628	0.594	0.608	0.740	0.527	0.481	0.587	0.600	0.558	0.578	0.592	0.641	0.61	0.401	0.496	0.599	0.703	0.703	0.705	0.676	0.596	0.702	0.663
Turb (NTU)	---	---	---	4	0	15	7	0	4	-10	0	0	0	0	0	3	3	23	9.60	3	2.10	6.55	0.40	11	3.20	3.61	---	15	4.81	4.35	0.14	2.19	0.00	2.10	1.68	9.59	166	0.51	10.07	14.4	0.40
DO (mg/l)	---	---	---	0.40	0.04	0.05	0.05	3.35	0.43	0.78	0.11	0.16	0.41	0.23	0.08	0	0.58	0.16	0.37	1.81	0.38	0.88	0.50	0.44	0.31	0.24	0.93	0.61	0.24	0.42	0.23	0.23	0.24	0.26	0.18	1.87	0.31	0.31	0.30	0.27	0.72
Eh (mv)	---	---	---	-74	-50	-92.6	-88	-244	-77.1	-51	-17	-28.4	-31	1	-27	-42	33.8	-32	-33	-49.4	-8	-162	-13.7	-14.6	-26.2	-84.7	-24.8	-46.2	-6.3	-84.3	-54.5	-171.3	-28.4	-25.6	-17	-28.9	-141	-77.2	-62.9	-175.8	-45.7
Temp (°C)	---	---	---	9.8	7	11	7.6	8.7	9.1	8.8	7.3	8	6.8	11	8.3	10	13	8.4	11	10	8.9	10	8.6	11	7.6	8.8	7.61	11.19	11.24	10.26	8.53	10.96	9.41	11.51	13.84	13.07	9.37	7.84	10.36	7.21	8.68
Water Level Elevation	149.64	145.30	141.92	142.92	145.37	144.38	145.27	145.45	144.45	145.49	145.43	145.32	145.32	144.69	145.13	145.41	145.22	145.28	145.65	142.19	145.24	145.22	145.44	145.42	145.48	145.53	145.42	147.07	145.49	145.54	145.49	144.78	145.40	145.46	144.26	145.53	145.59	145.16	145.23	-4.32	145.14

"*" denotes the ground water sample collected for well SB-B1 was incorrectly identified in the field and on the laboratory analytical report as SB-B3.

SUMMARY OF GROUND WATER ANALYTICAL DATA
SB-B2(I)
SCREENED INTERVAL - 34 - 44 FEET BGS

SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

constituent (ppb)	ICL	Apr-93	Jul-93	Oct-93	May-94	Oct-94	May-95	Dec-95	Jun-96	Dec-96	May-97	Dec-97	May-98	Nov-98	May-99	Dec-99	Aug-00	Dec-00	Jul-01	Nov-01	May-02	Dec-02	May-03	Nov-03	May-04	Dec-04	May-05	Oct-05	Jun-06*	Oct-06	Jun-07	Oct-07	Jun-08	Nov-08	Apr-09	Jul-09	Oct-09	Dec-09	Apr-10	Jul-10	Sep-10	Dec-10	Apr-11	Jul-11
benzene	5	6	6	6	8(J)	8(J)	<25	8	11	11	13	15	14	14	33	19	19	20	21	20	26	23	23	26	28	22	24	22	21	25	25	20	27	31	22	25	22	13	27	29	28	30	28	24
ethylbenzene	---	6	6	7	8(J)	9(J)	<25	9	12	13	16	19	19	18	29	24	25	29	22	27	28	25(B)	25	28	<25	24	26	24	22	25	25	10	21	25	16	13	14	12	24	15	18	23	25	20
toluene	1,000	2	2	2	<17	<10	<25	<8	4	4	5(B)	6	5	5	<10	6	6	6	6	6	7	6	6	7(J)	<25	5	5	5	5	5	5	3	4	5	4	3	3	2	4	2	2	3	3	2
xylene	---	8	8	10	<17	13	<25	15	21	23	28	39	37	39	<10	55	60	76	65	72	83	73(B)	77	83	<25	70	80	70	70	82	81	30	59	76	55	33	32	35	71	48	56	76	83	81
PCE	5	<0.4	<0.4	<0.4	<17	<10	<25	<8	<1	<1	0.7(J)	<1	0.5(J)	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	4(B)	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TCE	5	<0.3	<0.3	<0.3	<17	<10	<25	<8	<1	<1	<1	<1	0.5(J)	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	0.3(J)	<1	<1	<1	<1	<1	<1	<1
1,2-DCE	70	1.3	0.9	1.2	<17	<10	<25	<8	1.6(J)	1	2	1.8(J)	2(J)	0.7(J)	<10	1.9(J)	2	1.8	1	1(J)	1	1	2	<10	<25	1	2	<5	1.8	2	1.9	1.9(J)	2	2	2(J)	0.8(J)	1(J)	0.9(J)	2(J)	3	2(J)	2(J)	2(J)	1(J)
vinyl chloride	2	4	3	4	<17	<10	<25	<8	2	4	4	3	3	<1	<10	3	3	2	2	2	4	3	3	3(J)	<25	2	2	<5	<1	2	0.9(J)	<1	0.7(J)	0.9(J)	<2	0.5(J)	<2	<2	1(J)	4	0.4(J)	<2	0.4(J)	<2
acetone	700	---	<5	3(J)	83(R)	50(R)	<130	<42	9	5	<5	17	9	7(B)	35(J)	4(J)	4(J)	<5	6(B)	9	38	28	8	<10	<25	17	27	<25	7	29	23	15	14	16	24	7	7	16	22	18	14	<5	15	17
tetrahydrofuran	154	240	310(E)	360	280(J)	430(J)	510	590	700(E)	750	<5	580	820(E)	1,100	940	1,900	1500(E)	1,400	1,900	1,500	2,400	2,100	1,200	1,700	2,100	2,100	2,100	1,500(B)	680	2,000	1,900	2,100	2,000	1,500	1,600	1,100	1,200	1,200	1,900	1,500	1,600	1,500	1,400	1,300
2-butanone	200	---	<5	<5	83(R)	50(R)	<130	<42	<5	<5	<5	<5	7	5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<10	<25	<5	<5	<25	<5	<5	<5	<5	<5	<5	6	<5	<5	<5	<5	17	17	<5	<5	<5
4-methyl 2-pentanone	350	---	11	13(B)	83(J)	<50	<130	5(J)	3(J)	2(J)	<5	3(J)	4(J)	<5	<50	3(J)	<5	<5	<5	<5	4(J)	<5	<5	<10	<25	3(J)	6	<25	<5	<5	<5	3(J)	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
methylene chloride	5	<1	<1	<1	<48	<10	44(B)	<8	2(B)	2	3(B)	5(B)	6(B)	2(B)	72(B)	2(B)	2	1(B)	0.9(JB)	2(B)	<1	0.7(J)	13(B)	2(J)	<25	<1	<2	9	<5	17(JB)	0.8(J)	1(J)	1(J)	2(JB)	1(JB)	1(JB)	<5	1(J)	<5	3(J)	3(J)	3(J)	1(J)	<2
1,1,1-TCA	---	<0.5	<0.5	<0.5	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	0.9	0.8	0.9	<17	<10	<25	<8	2	2	2	2	2	<1	<10	2	2	2	2	2	3	3	3	3(J)	<25	2	3	2(J)	2	3	2	2	3	3	2	2	2	1	2	2	2	2	1	1
1,1-DCE	7	<1.3	<1.3	<1.3	<17	<10	<25	<8	<1	<1	<1	<1	0.6(J)	<1	<10	<1	<1	<1	<1	<1	0.6(J)	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	5	1	0.8	0.7	<17	<10	<25	<8	<1	1	<1	1	1	1	<10	2	1	2	2	2	2	2	<1	<10	<25	1	<1	2(J)	1(J)	2	2	1	<1	1	0.9(J)	0.9(J)	1	<1	1	0.8(J)	0.8(J)	0.9(J)	1	0.9(J)
bromomethane	---	<0.3	<0.3	<0.3	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloromethane	---	<0.5	<0.5	<0.5	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	0.5(J)	0.6(J)	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloroform	---	<0.7	<0.7	<0.7	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	<0.3	<0.3	<0.3	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	<0.3	<0.3	<0.3	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	---	<5	2(J)	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
styrene	---	<0.4	<0.4	<0.4	<17	<10	<25	<8	<1	0.6(J)	<1	<1	1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
chloroethane	14,000	<0.4	1	1	<17	<10	<25	<8	2	2	<1	2	2	2	<10	4	3	2	2	<1	4	3	<1	3(J)	<25	2	2	<5	2	3	2	2	3	4	2(J)	3	<2	3	2	0.9(J)	3	2(J)	<2	<2
chlorobenzene	---	0.8	0.8	0.9	<17	<10	<25	<8	1	1	<1	2	2	2	<10	2	2	2	2	2	3	<1	1	3(J)	<25	2	3	<5	<1	3	3	2	3	3	2	2	<1	2	3	3	3	3	<1	<1
1,2-dichloropropane	---	<0.3	<0.3	<0.3	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	<0.2	<0.2	<0.2	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	<0.4	<0.4	<0.4	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	<0.4	<0.4	<0.4	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	<0.3	<0.3	<0.3	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-hexanone	---	---	<5	<5	<83	<50	<130	<42	<5	16	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<10	<25	<5	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
arsenic (dissolved)	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	11.7	11.6	13.4	13.2	10.8	13.4	12.2	14.3	15.5	16.8	15.7	3.	7(B)	16.8	14.7	17.4	16.5	14.4	14.6	16.5	16.6	17.3	13.8	16.8	21.3	18.6	17.9	19.3	19.6
arsenic (total)	---	---	8.9(B)	6.8(B)	<5.20	7.40	10.6	8.5(B)	2	3.5(B)	9	10.6	9.40	12	<2.08	10	10.9	11.9	16.6	12.9	11.4	14.2	14.3	8.3(B)	13.7	17.8	14.5	14. 9	17.9	16.5	17.3	16.4	15.5	17.0	17.1	18.0	18.8	14.0	17.1	20.8	18.0	17.5	19.9	21.2
calcium	---	56,400	50,300	61,600	71,300	66,400	73,400	66,100	28,200	54,200	83,400	87,400	82,600	92,500	27,400	94,800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
iron (dissolved)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	170,000	166,000	162,000	159,000	153,000	158,000	146,000	132,000	121,000	136,000	126,000	34,800	109,000	106,000	103,000	101,000	63,600	72,200	62,200	---	---	---	---	---	---	---	---	---	---
iron (total)	---	143,000	107,000	130,000	138,000	131,000	160,000	126,000	69,900	160,000	170,000	170,000	155,000	171,000	66,100	172,000	167,000	170,000	154,000	159,000	159,000	161,000	145,000	87,300	113,000	135,000	124,000	122,000	111,000	109,000	104,000	108,000	62,000	75,600	63,400	---	---	- --	---	---	---	---	---	---	---
magnesium	---	24,100	17,500	19,200	22,500	21,000	24,300	22,200	7,680	4,020	30,700	32,100	32,000	34,700	7,620	37,400	---	---	---	---	---	---	---	---	-	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
manganese (dissolved)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1,560	1,540	1,400	1,360	1,210	1,210	1,030	920	814	803	693		662	550	510	453	447	258	276	---	---	---	---	---	---	---	---	---	---	
manganese (total)	---	2,690	2,090	2,270	2,520	2,300	2,290	1,980	883	98.3	2,230	2,220	1,990	2,020	889	1,760	1,520	1,550	1,340	1,360	1,250	1,220	1,020	624	758	790	690	620	562	521	463	484	254	290	---	---	---	---	---	---	---	---	---	---	
potassium	---	11,400(E)	4,600(B)	3,830	3,960(B)	4,350	5,020	5,390	1,840(B)	12,100	6,400	7,040	6,260	7,150	2,100(B)	8,400	---	---	---	---	---	---	---	---	---	---	---	---	--	-	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
sodium	---	91,700	87,400	118,000	148,000	142,000	183,000	187,000	28,600	238,000	288,000	299,000	327,000	337,000	47,600	370,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
pH (SU)	---	---	---	6.05	6.21	6.06	6	6.45	5.85	6.62	6.07	6.07	6.13	6.13	5.94	6.07	5.87	6.10	5.92	5.96	5.97	5.98	5.38	6.07	5.48	5.85	5.86	6	5.62	6.26	5.99	5.9 3	6.18	5.98	5.99	6.08	5.92	6.44	6.09	---	6.16	6.24	6.16	5.98
SC (mS/cm)	---	---	---	1.33	1.80	1.92	2.11	2.03	2.33	2.70	2.62	2.81	2.85	3.12	2.99	3.50	3.27	3.33	3.55	3.37	3.62	4.42	3.26	3.07	3.74	3.83	3.65	3.79	3.802	4.163	3.916	4.97 8	3.924	3.867	4.24	4.11	3.82	2.93	4.06	3.68	2.662	2.215	4.193	2.615
Turb (NTU)	---	---	---	7	6	45	3	0	22	2	5	0	1	0	0	63	5	20	95	4.40	11.8	8.19	1.90	7	5	20.3	4.97	5.42	3.3	9.42	0.85	1.48	4.89	0.14	5.82	---	0.0	25.4	87.7	8.69	3.6	3.9	2.3	1 .1
DO (mg/l)	---	---	---	0.20	0.04	0.01	0.05	2.88	0.27	0.51	0.36	0.16	0.82	0.21	0.47	0	0.70	0	0.75	3.26	0.91	3.49	0.97	0.45	0.62	0.4	0.93	0.9	0.4	1.59	0.39	0.3	0 .96	0.57	0.20	0.14	0.26	0.17	0.17	0.09	0.28	0.47	0.00	0.23
Eh (mv)	---	---	---	-64	-39	-40	-85	-254	-56.8	-48	-15	-32.5	-35	-2	-24	-51	42.3	-34	-34	-60.1	0.91	-153	-28.2	-15	3.60	-85.5	-18.5	-40.2	-13.5	-91.5	-70.2	-189.2	-5 4.1	-30.2	19	-4	-56	-67	-57	-65	-53.5	-4.3	-164.6	-28.5
Temp (°C)	---	---	---	9.4	8.6	9.4	9.3	7.8	10	8.1	8.9	7.7	8.5	9.4	10	9	10	8.1	10	9	10	9.1	11	9.2	9.7	7.4	9.1	10.05	15.11	10.18	9.86	11.93	10.88	11.92	16.58	13.02	10.93	8.11	9.35	11.57	12.06	5.65	8.62	13.36
Water Level Elevation	149.33	147.28	144.86	145.11	147.26	146.29	147.01	147.59	146.43	148.16	147.42	146.93	147.22	146.55	146.55	147.08	146.95	147.04	147.18	144.66	147.00	146.93	147.54	147.28	147.58	147.53	147.66	147.07	148.02	147.43	147.46	146.57	147.33	147.37	147.47	146.59	146.38	146.99	148.03	145.99	144.74	147.27	145.75	145.58

NOTES:
1. Laboratory analytical results are reported in ug/L (micrograms per liter).
2. DCE = Dichloroethene; DCA = Dichloroethane; MEK = Methyl Ethyl Ketone (2-butanone);
   MIBK = Methyl Isobutyl Ketone (4-methyl 2-pentanone); TCA = Trichloroethane;
   PCE = Tetrachloroethene; TCE = Tetrachloroethene.
3. ICL = Interim Cleanup Level.
4. NA = Not Applicable.
5. pH measured in SU (standard units); SC (specific conductivity) measured in mS/cm
   (millisiemens per centimeter); DO (dissolved oxygen) measured in mg/L (milligrams per liter);
   ORP = Oxidation Reduction Potential measured in mv (millivolts).
6. J = Denotes an estimated value; constituent detected at a concentration below the Practical
   Quantitation Limit (PQL), or data validation issue identified.
7. UJ = Indicates an estimated quantitation limit.
8. E = Result exceeded calibration range - estimated value.
9. D = Listed value obtained from second (diluted) analytical run.
10. B = Denotes an estimated value; constituent detected at a concentration below the Practical
    Quantitation Limit (PQL) for metals.
11. --- = Constituent was not analyzed or ICL has not been established for constituent.
12. "<" = Not detected above reported PQL.

SUMMARY OF HISTORICAL GROUND WATER QUALITY DATA
GMP WELL SB-D1

DOWNGRADIENT WELL
SCREENED INTERVAL - 5 - 15 FEET BGS

GMP Well SB-D1
[5 - 15 feet BGS]

constituent (ppb)	ICL	AGQS	Apr-93	Jul-93	Oct-93	May-94	Oct-94	May-95	Dec-95	Jun-96	Dec-96	May-97	Dec-97	May-98	Nov-98	May-99	Dec-99	Aug-00	Dec-00	Jul-01	Nov-01	May-02	Dec-02	May-03	Nov-03	May-04	Dec-04	Jun-05	Oct-05	Jun-06	Oct-06	Jun-07	Oct-07	Jun-08	Nov-08	Apr-09	May-09*	Nov-09	Apr-10	May-10	Nov-10	Apr-11	May-11
benzene	**5**	5	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ethylbenzene	---	700	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.7(J)**	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
toluene	**1,000**	1,000	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
xylene	---	10,000	<0.7	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.9(J)**	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
PCE	**5**	5	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TCE	**5**	5	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**1(B)**	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCE	**70**	70	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2	<1	<1	<1	<1
vinyl chloride	**2**	2	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<2	<1	<1	<1	<1	<1
acetone	**700**	6,000	---	**4**	<5	<5	**5(R)**	**16**	<5	<5	**3(JB)**	<5	**3(J)**	<5	<5	<5	<5	<5	---	<5	**3(JB)**	**13(B)**	<5	<5	<10	<1	**2(J)**	<5	<5	<5	<5	<5	**3(JB)**	<5	>5	<5	**4(J)**	**3(J)**	**3(J)**	<5	<5	<5	**3(J)**
tetrahydrofuran	**154**	154	<1	<5	<5	<5	**1(R)**	<5	<5	<5	<5	<5	<5	<5	**3(J)**	<5	<5	<5	---	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	**2(J)**	<5	<5	<5	**2(J)**	<5	<5	<5	<5
2-butanone	**200**	---	---	<5	<5	<5	**5(R)**	<5	<5	<5	**0.8(JB)**	<5	<5	<5	<5	<5	<5	<5	---	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl 2-pentanone	**350**	---	---	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	---	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
methylene chloride	**5**	5	<1	<1	<1	<1	<1	**0.9(JB)**	<1	**0.9(JB)**	<1	**5(B)**	**3(B)**	**5(B)**	**1(B)**	**1(B)**	**1(B)**	**0.7(JB)**	---	<5	<1	<1	<1	**1**	<10	<1	<1	<2	<1	<5	<5	<5	<5	<5	**0.6(JB)**	**0.8(JB)**	**0.7(J)**	<5	<5	<5	<5	<5	<5
1,1,1-TCA	---	200	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	81	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCE	**7**	7	<1.3	<1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	**5**	5	<0.7	<0.7	<1	<1	<1	**0.8(J)**	<1	<1	<1	<1	<1	<1	<1	**0.5(J)**	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromomethane	---	10	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<2	<1	<1	<1	<1
chloromethane	---	30	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	**0.6.(J)**	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<2	<1	<1	<1	<1
chloroform	---	70	<0.7	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	60	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	4	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	70	---	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
styrene	---	100	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
chloroethane	**14,000**	---	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<2	<1	<1	<1	<1
chlorobenzene	---	100	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	---	5	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	5	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	---	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	---	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	2	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-hexanone	---	---	---	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	---	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
GMP constituents																																											
cis-1,2-DCE	**70**	70	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	<1	<1	<1	<1	<1				
trans-1,2-DCE	---	100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	<1					<1	<1	<1	<1
dichlorodifluoromethane	---	1,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<2	<2					---	<2	<2	---	<2
isopropylbenzene	---	800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<				1	---	<1	<1	---	<1
n-propylbenzene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1					---	<1	<1	---	<1
1,3,5-trimethylbenzene	---	330	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				---	<1	<1	<1	<1	<1	<1	<1
tert-butylbenzene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1						<1	---	<1	<1	---	<1
1,2,4-trichlorobenzene	---	70	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	-			--	<1	<1	---	<1	<1	---	<1
sec-butylbenzene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<				1	---	<1	<1	---	<1
1,3-dichlorobenzene	---	600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---					<1	<1	---	<1	<1	---	<1
p-isopropyltoluene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<				1	<1	---	<1	<1	---	<1
1,4-dichlorobenzene	---	75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<				1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	---	600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---					<1	<1	<1	<1	<1	<1	<1
n-butylbenzene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1					---	<1	<1	---	<1
1,2,4-trimethylbenzene	---	330	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				---	<1	<1	<1	<1	<1	<1	<1
naphthalene	---	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1					---	<1	<1	---	<1
methyl tert-butyl ether	---	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				---	<1	<1	<1	<1	<1	<1	<1
diethyl ether	---	1,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1					---	<1	<1	---	<1
ethyl tertiary-butyl ether	---	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			---	---	<1	<1	---	<1	<1	---	<1
di-isopropyl ether	---	120	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<				1	<1	---	<1	<1	---	<1
tertiary-butyl alcohol	---	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				--	<5	<5	---	<5	<5	---	<5
1,4-dioxane	---	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---					**0.92(J)**	<2	---	<2	**2.3**	---	<2
arsenic (dissolved)	**10**	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1.98	---	<2.53	<2.53	<2.08	<2	<1.8	4.8(B)	<1.3	<3	<2.81	<3.45	<3.45	<3.09	<0. 83	1.5(B)	<1.7	<0.98	<1.20	---	<2.4	<1.86	<1.95	<1.86	<1.43	<1.43
arsenic (total)	---	---	---	4.7(B)	<2.40	<2.60	<2.60	<3.80	<1.30	<1	<2.10	<3	<2.54	<1.81	<1.85	<2.07	<2.19	<1.98	---	<2.53	<2.53	<2.08	<2	<1.8	<1.3	<1. 3	<3	3.2(B)	<3.45	<3.45	<3.09	<0.83	<0.83	<1.7	<0.98	<1.20	---	<2.4	<1.86	<1.95	<1.86	<1.43	<1.43
calcium	---	---	4,340(B)	2,780(B)	1,730	2,170(B)	1,620	1,290(B)	1,260(B)	328(B)	682	440	678(B)	410	534	613(B)	1,260(B)	---	---	---	---	---	---	--	-	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
iron (dissolved)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	34.6	---	98.4(B)	233	138	62.7(B)	18.3(B)	116	23.6(B)	87.5(B)	240	352	260	494	1,340	2,200	1,760	1,730	3,910	---	3,160	3,160	5,230	5,510	5,510	5,200
iron (total)	---	---	5,750	4,260	438	145(UJ)	586	52.7	81.7	42.8(B)	183	100	187	154	118	122	609	73	---	121	272	170	194	189	387	49.8(B)	122	277	458	346	609	1,34 0	2,060	1,760	1,770	4,280	---	3,200	3,200	5,480	5,530	5,530	5,470
magnesium	---	---	3,150(B)	1,590(B)	1,420(B)	1,500(B)	1,500	1,020(B)	1,010(B)	431(B)	570	600	678	580	569	552(B)	1,050(B)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
manganese (dissolved)	---	840	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	83.1	---	128	322	247	208	66.5	188	102	107	49.8	69. 3	41.4	96.9	32.1	71.1	41.2	44.5	41.5	---	43.1	43.1	38.8	37.4	37.4	69.4
manganese (total)	---	---	388	154	158	252	177	123	173	54.9	107	63.2	80.5	59.5	81.6	56.7	174	89.3	---	127	304	233	177	65.5	192	100	110	49.3	67.5	41.1	88.4	32.5	72.4	42.2	45.1	40.2	---	42.3	42.3	40.4	36.3	36.3	70.4
potassium	---	35,000	1,490(B)	577(B)	327(B)	595	<400	<336	<2,340	140(B)	<421	<500	<419	<419	<435	<450	710(B)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
sodium	---	---	16,700	10,100	11,700	13,600	9,790	8,060	9,570	3,550(B)	5,480	4,640	8,150	3,680	5,610	3,960(B)	6,740	---	---	---	---	---	---	4,400	---	-	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
pH (SU)	---	---	---	---	4.51	4.74	---	4.39	4.78	4.64	4.95	4.67	4.46	4.74	4.40	4.68	4.71	3.51	---	4.63	4.48	4.76	4.60	4.57	4.72	4.39	4.53	4.59	4.66	4.47	4.6	3	4.46	4.84	4.87	4.83	4.85	4.69	4.53	4.68	4.7	4.96	5.22	5.18
SC (mS/cm)	---	---	---	---	0.132	0.128	---	0.084	0.059	0.043	0.104	0.047	0.083	0.047	0.063	0.013	0.042	0.057	---	0.053	0.073	0.044	0.065	0.045	0.071	0	.068	0.062	0.055	0.06	0.041	0.063	0.036	0.034	0.3	0.04	0.047	0.044	0.061	0.060	0.047	0.053	0.042	0.045
Turb (NTU)	---	---	---	---	1.50	2	---	0	0	5	0	0	-10	0	0	0	0	0	---	5.60	3.20	---	1.51	1.70	4.40	3.60	0.39	2.14	1.9	0.34	0.27	0	1.19	0.63	1.25	41.8	0.47	0.52	8.60	0.3	0.02	1.52	2.67
DO (mg/l)	---	---	---	---	0.80	3.88	---	3.86	4.71	2.53	1.55	3.56	0.84	2.07	0.42	0.19	0	1.21	---	0.32	0.95	2.94	3.69	12.02	1.61	1.21	2.22	0.75	0.01	1.99	0.3	6	1.16	0.22	0.29	1.16	0.24	0.44	1.76	0.09	NM	0.41	0.20	0.42
Eh (mv)	---	---	---	---	332	343	---	272	164	200	380	274	289	279	208	241	346	116	---	176	141	197	2.10	206	286	137	298	145	313.4	362.8	312.9	157.9	105.7	133.1	218.9	155	185.3	252.2	156	181.9	200.6	171.1	118.8
Temp (°C)	---	---	---	---	11	6.4	---	7.4	8.2	8.6	8.7	6.9	7.2	6.6	11	8	9.1	12	---	11	11	7.3	8.6	8.2	11	7.6	8.2	8.5	11.97	11.91	11.39	8.92	11.76	9.57	10.18	7.86	6.41	10.83	6. 37	7.77	11.37	5.74	7.52
Water Level Elevation	149.00	NA	145.02	141.48	144.97	144.98	143.22	144.82	145.01	144.19	145.06	144.97	144.49	144.93	143.46	144.32	144.29	144.69	144.78	144.91	141.06	144.78	144.18	145.46	144.92	144.92	144.98	144.94	145.86	144.96	144.99	144.85	143.64	144.90	144.87	143.90	144.85	144.93	144.93	144.18	144.35	144.35	144.6

"" denotes that GeoInsight collected a ground water sample from well SB-D1 for metals analyses in May 2009.

SUMMARY OF HISTORICAL GROUND WATER QUALITY DATA
GMP WELL SB-D3(I)

SOUTHERN PLUME WELL
SCREENED INTERVAL - 35 - 45 FEET BGS

constituent (ppb)	ICL	AGQS	Nov-07	Apr-09	May-09	Apr-10	May-10	Nov-10	Apr-11	May-11
benzene	**5**	5	<1	<1	<1	<1	<1	<1	<1	<1
ethylbenzene	---	700	<1	<1	<1	<1	<1	<1	<1	<1
toluene	**1,000**	1,000	<1	<1	<1	<1	<1	<1	<1	<1
xylenes (total)	---	10,000	<3	<3	<3	<3	<3	<3	<3	<3
PCE	**5**	5	<1	<1	<1	<1	<1	<1	<1	<1
TCE	**5**	5	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCE	**70**	70	<1	<1	<1	<2	<1	<1	<1	<1
vinyl chloride	**2**	2	<2	<2	<1	<2	<1	<1	<1	<1
acetone	**700**	6,000	<5	<5	<5	<5	<5	<5	<5	<5
tetrahydrofuran	**154**	154	<5	<5	<5	<5	<5	<5	<5	<5
2-butanone	**200**	---	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl 2-pentanone	**350**	---	<5	<5	<5	<5	<5	<5	<5	<5
methylene chloride	**5**	5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-TCA	---	200	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	81	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCE	**7**	7	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	**5**	5	<1	<1	<1	<1	<1	<1	<1	<1
bromomethane	---	10	<2	<2	<1	<2	<1	<1	<1	<1
chloromethane	---	30	<2	<2	<1	<2	<1	<1	<1	<1
chloroform	---	70	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	60	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	4	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	70	<1	<1	<1	<1	<1	<1	<1	<1
styrene	---	100	<1	<1	<1	<1	<1	<1	<1	<1
chloroethane	**14,000**	---	<2	<2	<1	<2	<1	<1	<1	<1
chlorobenzene	---	100	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	---	5	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	5	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	---	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	---	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	2	<1	<1	<1	<1	<1	<1	<1	<1
2-hexanone	---	---	<5	<5	<5	<5	<5	<5	<5	<5
GMP constituents										
cis-1,2-DCE	**70**	70	---	---	<1	<1	<1	<1	<1	<1
trans-1,2-DCE	---	100	---	---	<1	<1	<1	<1	<1	<1
dichlorodifluoromethane	---	1,000	---	---	<2	---	<2	<2	---	<2
isopropylbenzene	---	800	---	---	<1	---	<1	<1	---	<1
n-propylbenzene	---	260	---	---	<1	---	<1	<1	---	<1
1,3,5-trimethylbenzene	---	330	---	---	<1	<1	<1	<1	<1	<1
tert-butylbenzene	---	260	---	---	<1	---	<1	<1	---	<1
1,2,4-trichlorobenzene	---	70	---	---	<1	---	<1	<1	---	<1
sec-butylbenzene	---	260	---	---	<1	---	<1	<1	---	<1
1,3-dichlorobenzene	---	600	---	---	<1	---	<1	<1	---	<1
p-isopropyltoluene	---	260	---	---	<1	---	<1	<1	---	<1
1,4-dichlorobenzene	---	75	---	---	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	---	600	---	---	<1	<1	<1	<1	<1	<1
n-butylbenzene	---	260	---	---	<1	---	<1	<1	---	<1
1,2,4-trimethylbenzene	---	330	---	---	<1	<1	<1	<1	<1	<1
naphthalene	---	20	---	---	<1	---	<1	<1	---	<1
methyl tert-butyl ether	---	13	---	---	<1	<1	<1	<1	<1	<1
diethyl ether	---	1,400	---	---	<1	---	<1	<1	---	<1
ethyl tertiary-butyl ether	---	40	---	---	<1	---	<1	<1	---	<1
di-isopropyl ether	---	120	---	---	<1	---	<1	<1	---	<1
tertiary-butyl alcohol	---	40	---	---	<5	---	<5	<5	---	<5
1,4-dioxane	---	3	---	---	<10	---	<2	<2	---	<2
arsenic (dissolved)	**10**	10	63.9	47.8	56	32.4	55	<8	4.9(J)	27
arsenic (total)	---	---	68.6	47.1	58	38.9	55	<8	6.4(J)	27
calcium	---	---	---	---	---	---	---	---	---	---
iron (dissolved)	---	---	2,690	3,570	2,980	---	2,590	212	212	6,040
iron (total)	---	---	3,290	3,690	2,990	---	2,850	210	210	6,130
magnesium	---	---	---	---	---	---	---	---	---	---
manganese (dissolved)	---	840	504	---	424	---	397	216	216	294
manganese (total)	---	---	498	---	430	---	436	200	200	291
potassium	---	35,000	---	---	---	---	---	---	---	---
sodium	---	---	---	---	---	---	---	---	---	---
pH (SU)	---	---	9.09	6.94	7.03	6.33	7.1	6.80	6.96	6.64
SC (mS/cm)	---	---	0.128	0.118	0.122	0.113	0.115	0.084	0.051	0.125
Turb (NTU)	---	---	92.1	57.7	0.61	11.3	1.26	0.69	4.08	2.69
DO (mg/l)	---	---	0.15	0.29	0.41	0.24	0.52	0.31	1.07	0.31
Eh (mv)	---	---	-65	-83	-94.9	29	-123	54.1	54.2	-99.2
Temp (^{o}C)	---	---	9.88	12.49	8.29	7.34	9.57	9.71	6.57	10.97
Water Level Elevation	NA	NA	---	---	---	---	---	---	---	---

SUMMARY OF HISTORICAL GROUND WATER QUALITY DATA
GMP WELL SB-D2

DOWNGRADIENT WELL
SCREENED INTERVAL - 50 - 60 FEET BGS

GMP Well SB-D2
[50 - 60 feet BGS]

constituent (ppb)	ICL	AGQS	Apr-93	Jul-93	Oct-93	May-94	Oct-94	May-95	Dec-95	Jun-96	Dec-96	May-97	Dec-97	May-98	Nov-98	May-99	Dec-99	Aug-00	Dec-00	Jul-01	Nov-01	May-02	Dec-02	May-03	Nov-03	May-04	Dec-04	Jun-05	Oct-05	Jun-06	Oct-06	Jun-07	Oct-07	Jun-08	Nov-08	Apr-09	May-09*	Nov-09	Apr-10	May-10	Nov-10	Apr-11	May-11
benzene	**5**	5	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ethylbenzene	---	700	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.6(J)**	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
toluene	**1,000**	1,000	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	**0.7(JB)**	<1	<1	**0.6(J)**	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
xylene	---	10,000	<0.7	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	**0.6(J)**	<1	**0.9(J)**	<1	<1	<1	---	<1	<1	<1	<1	**0.5(J)**	<10	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
PCE	**5**	5	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.8(J)**	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TCE	**5**	5	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**2(B)**	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCE	**70**	70	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<2	<1	<1	<1	<1
vinyl chloride	**2**	2	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<2	<1	<1	<1	<1
acetone	**700**	6,000	---	<5	<5	<5	**5(R)**	**12**	<5	<5	**1(JB)**	<5	**10**	<5	<5	<5	<5	<5	---	<5	<5	**14(B)**	<5	<5	<10	<1	**2(J)**	<5	<5	<5	<5	**3(J)**	<5	<5	<5	<5	**4(J)**	<5	**3(J)**	**3(J)**	<5	<5	<5
tetrahydrofuran	**154**	154	**7**	<5	<5	<5	**1(R)**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	---	<5	<5	**14**	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-butanone	**200**	---	---	<5	<5	<5	**5(R)**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	---	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl 2-pentanone	**350**	---	---	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	---	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
methylene chloride	**5**	5	<1	<1	<1	<1	<1	**0.7(JB)**	<1	**1(B)**	<1	**7(B)**	**6(B)**	**5(B)**	**1(B)**	**1(B)**	**0.8(JB)**	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<2	<1	<5	<5	<5	<5	<5	**1(JB)**	**1(JB)**	<5	<5	<5	<5	<5	<5	<5
1,1,1-TCA	---	200	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	81	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCE	**7**	7	<1.3	<1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	**5**	5	<0.7	<0.7	<1	<1	<1	**0.8(J)**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromomethane	---	10	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<2	<1	<1	<1	<1
chloromethane	---	30	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.5(J)**	<2	<1	<1	<2	<1	<1	<1	<1
chloroform	---	70	<0.7	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	60	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	4	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	70	---	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
styrene	---	100	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
chloroethane	**14,000**	---	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<2	<1	<1	<1	<1
chlorobenzene	---	100	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.5(J)**	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	---	5	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	5	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	---	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	---	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	2	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-hexanone	---	---	---	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	---	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
GMP constituents																																											
cis-1,2-DCE	**70**	70	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	<1	<1	<1	<1	<1
trans-1,2-DCE	---	100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	<1	<1	<1	<1	<1
dichlorodifluoromethane	---	1,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<2	<2	---	<2	<2	---	<2
isopropylbenzene	---	800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	---	<1	<1	---	<1
n-propylbenzene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	---	<1	<1	---	<1
1,3,5-trimethylbenzene	---	330	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	<1	<1	<1	<1	<1
tert-butylbenzene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	---	<1	<1	---	<1
1,2,4-trichlorobenzene	---	70	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	---	<1	<1	---	<1
sec-butylbenzene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	---	<1	<1	---	<1
1,3-dichlorobenzene	---	600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	---	<1	<1	---	<1
p-isopropyltoluene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	---	<1	<1	---	<1
1,4-dichlorobenzene	---	75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	<1	<1	<1	<1	<1
1,2-dichlorobenzene	---	600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	<1	<1	<1	<1	<1
n-butylbenzene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	---	<1	<1	---	<1
1,2,4-trimethylbenzene	---	330	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	<1	<1	<1	<1	<1
naphthalene	---	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	---	<1	<1	---	<1
methyl tert-butyl ether	---	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	<1	<1	<1	<1	<1
diethyl ether	---	1,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	---	<1	<1	---	**0.4(J)**
ethyl tertiary-butyl ether	---	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	---	<1	<1	---	<1
di-isopropyl ether	---	120	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	---	<1	<1	---	<1
tertiary-butyl alcohol	---	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<5	<5	---	<5	<5	---	<5
1,4-dioxane	---	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.7(J)**	<2	---	**2.6**	**2.9**	---	**4.1**
arsenic (dissolved)	**10**	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	28.2	---	26.2	26.9	28	27.5	31.5	29.6(E)	29.7	31.6	28.5	29.2	30	22.5	18.5	23.7	16.5	27.4	16.2	---	29.6	20.4	17.5	27.1	30.2	28.2
arsenic (total)	---	---	---	64.5	53.1	34.4	34.8	31.7	32.3	34.2	33.5	30	29	30	30.4	31.7	29.5	29.2	---	35	28.7	26.2	28	30.8	28.6	28.6	31.4	33.5	27.7	28.4	26.5	16.5	23.2	16.5	27.1	17.6	---	29.8	22.5	19.4	28.8	30.5	28.3
calcium	---	---	46,200	20,700	10,200	9,190	8,180	8,980	8,110	8,080	9,160	9,020	8,420	7,810	8,380	8,550	8,820	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
iron (dissolved)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4,050	---	4,320	4,530	4,250	4,480	4,630	3,440	3,890	4,420	4,250	4,290	4,420	4,100	3,200	3,980	2,660	4,450	2,750	---	4,860	---	3,150	4,180	---	5,450
iron (total)	---	---	93,800	83,500	4,730	4,970	4,290	4,520	4,050	4,550	4,830	4,630	4,490	4,420	4,330	4,720	4,950	4,140	---	30,100	4,730	4,300	4,560	4,960	3,710	4,180	4,460	4,910	4,380	4,480	4,530	2,940	3,970	2,540	4,400	3,040	---	5,100	---	3,020	4,420	---	5,390
magnesium	---	---	24,000	21,000	3,450	2,710(B)	2,480	2,640(B)	2,440(B)	2,400(B)	2,740	2,680	2,550(B)	2,410	2,520	2,530(B)	2,640(B)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
manganese (dissolved)	---	840	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	417	---	448	446	393	440	410	340	397	413	417	405	429	385	264	410	244	415	249	---	456	---	322	444	---	507
manganese (total)	---	---	2,330	1,780	<100	448	418	422	402	430	472	436	453	416	442	442	460	413	---	874	454	390	443	423	362	413	414	429	392	430	379	244	407	225	403	276	---	472	---	326	473	---	495
potassium	---	35,000	18,500	18,700	2,080(B)	<1,910	1,500	2,030(B)	<2,340	1,400(B)	1,690	1,500	1,650(B)	1,040	1,580	1,550(B)	1,980(B)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
sodium	---	---	15,100	10,800	8,210	6,880	6,270	6,430	7,230	6,600	6,440	6,460	6,120	5,970	6,260	6,160	6,140	---	---	---	---	---	---	6,440	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
pH (SU)	---	---	---	---	7.06	7.15	---	7	7.86	6.93	8.27	7.01	6.95	7.12	6.92	7.02	6.87	6.19	---	6.48	6.99	6.93	7.19	6.91	7.15	6.73	6.93	6.86	6.97	6.93	7.12	6.7	6.86	6.91	7.01	6.87	6.70	6.89	6.30	6.75	7.02	7.16	6.76
SC (mS/cm)	---	---	---	---	0.131	0.104	---	1.04	0.059	0.098	0.162	0.099	0.117	0.990	0.110	0.068	0.059	0.099	---	0.071	0.101	0.069	0.102	0.092	0.090	0.108	0.101	0.106	0.104	0.104	0.104	0.096	0.089	0.098	0.107	0.112	0.103	0.108	0.115	0.108	0.111	0.077	0.088
Turb (NTU)	---	---	---	---	18.9	23	---	4	7	0	2	0	0	2	0	0	0	1	---	727	5.38	---	1.23	5.00	0	4.30	0.62	4.83	3.32	2.27	7.20	1.20	2.64	1.22	2.30	39.0	4.43	0.24	3.24	0.74	0.06	0.85	0.4
DO (mg/l)	---	---	---	---	0.50	1.01	---	0.24	3.10	0.40	1.12	0.42	0.03	0.46	0.17	0.20	0	0.35	---	0.22	0.79	0.29	0.48	11.6	0.66	0.38	0.27	1.42	0.35	0.43	0.89	1.28	0.38	1.10	0.18	0.53	1.78	0.30	0.66	1.71	0.23	0.00	0.16
Eh (mv)	---	---	---	---	114	41	---	-82	-227	117	-73	-10	-86.4	-62	-37	-86	-33	-11.1	---	-62	-94.9	-21.9	-141	-41	-98.8	-44.7	16.7	-81.6	-109.6	-94.8	-92.9	-12.9	-98.4	-55.6	-121.3	-88	-13.8	-63.6	46.0	70.1	-95.7	-151.9	-57.4
Temp (°C)	---	---	---	---	9.4	8.4	---	8.5	7.8	8.8	8.3	7.9	7.4	7.9	8.5	8.7	8.5	9.1	---	9.5	9.5	8.1	8	9.2	9.2	9.6	7.7	11.2	9.54	12.52	9.89	9.18	9.30	10.16	9.10	9.04	7.80	9.50	7.02	8.84	9.84	2.25	8.51
Water Level Elevation	148.99	NA	145.72	143.67	143.28	145.53	144.59	145.17	145.73	144.70	145.90	145.69	144.98	144.87	144.83	145.40	145.31	145.09	145.24	145.44	143.02	145.24	144.96	145.78	145.51	145.82	145.69	145.94	144.97	146.36	145.59	145.64	144.90	145.45	145.68	144.55	145.77	145.68	147.91	145.42	145.10	145.66	146.59

"*" denotes that GeoInsight collected a ground water sample from well SB-D2 for metals analyses in May 2009.

SUMMARY OF HISTORICAL GROUND WATER QUALITY DATA
WELL SB-B3

DOWNGRADIENT WELL
SCREENED INTERVAL - 46.5 - 56.5 FEET BGS

constituent (ppb)	ICL	Apr-93	Jul-93	Oct-93	May-04	Dec-04	Jun-05	Jun-06*	Oct-06	Jun-07	Oct-07	Apr-09	Apr-10	Apr-11
benzene	5	**2**	**1**	**1**	**4.9**	**4**	**4**	**4**	**5**	**5**	**6**	**4**	**7**	**8**
ethylbenzene	---	**2**	**1**	**2**	**3.3**	**3**	**2**	**3**	**3**	**3**	**4**	**2**	**3**	**4**
toluene	1,000	**0.5**	**0.4**	**0.6**	<1	<1	<1	**0.7(J)**	<1	<1	<1	**0.6(J)**	**0.7(J)**	0.8(J)
xylene	---	**1.7**	**1**	**3**	**7.2**	**6**	**4**	**6**	**6**	**6**	**6**	**2(J)**	**4**	**2**
PCE	5	<0.4	<0.4	**0.6**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TCE	5	<0.3	<0.3	**0.8**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2
1,2-DCE	70	<0.4	<0.4	**1**	<1	<1	<1	<1	<1	<1	<1	**0.3(J)**	**0.4(J)**	0.4(J)
vinyl chloride	2	**0.9**	<0.4	**1**	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2
acetone	700	---	**15**	<5	<1	**7**	<5	<5	<5	**5**	**6**	**3(J)**	**3(J)**	3(J)
tetrahydrofuran	154	**74**	**360**	**94**	**83**	**82**	<5	**74**	**110**	**140**	**160**	**19**	**110**	160
2-butanone	200	---	<5	<5	<1	<5	<5	<5	<5	<5	<5	<5	**2(J)**	<5
4-methyl 2-pentanone	350	---	<5	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
methylene chloride	5	<1	<1	<1	<1	<1	<2	<5	<5	<5	<5	<5	<5	<5
1,1,1,-TCA	---	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	<0.3	<0.3	<0.3	<1	<1	<1	**0.5(J)**	<1	<1	<1	**0.5(J)**	**1**	0.8(J)
1,1-DCE	7	<1.3	<0.4	<1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	5	**1**	<0.7	<0.7	<1	<1	<1	<1	<1	<1	<1	**0.4(J)**	**0.5(J)**	<1
bromomethane	---	<0.3	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2
chloromethane	---	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2
chloroform	---	<0.7	<0.7	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	<0.3	<0.3	---	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	<0.3	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	---	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
styrene	---	<0.4	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
chloroethane	14,000	**0.4**	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2
chlorobenzene	---	**0.2**	<0.2	**0.4**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	---	<0.3	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	<0.2	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	<0.4	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	<0.4	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	<0.3	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-hexanone	---	---	---	---	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5
arsenic (dissolved)	10	---	39.5	---	40	42	43	42.8	39	43.9	46.2	51.9	47.0	48.4
arsenic (total)	---	---	---	---	41	46	40	42	38	41.9	48	55.1	48.6	49
calcium	---	38,800	22,200	18,800	---	---	---	---	---	---	---	---	---	---
iron (dissolved)	---	---	---	---	44,000	52,400	51,700	55,700	56,400	62,500	68,200	68,400	---	---
iron (total)	---	76,900	44,800	32,900	44,000	56,000	51,600	56,100	57,100	62,700	70,700	70,100	---	---
magnesium	---	18,400	11,300	8,530	---	---	---	---	---	---	---	---	---	---
manganese (dissolved)	---	---	---	842	1,600	1,840	1,940	2,040	1,990	2,100	2,380	---	---	---
manganese (total)	---	1,900	1,110	---	1,700	1,980	1,920	2,060	2,010	2,130	2,450	---	---	---
potassium	---	12,700	7,610	4,860(B)	---	---	---	---	---	---	---	---	---	---
sodium	---	30,300	25,000	22,000	---	---	---	---	---	---	---	---	---	---
pH (SU)	---	---	---	---	---	6.17	6.21	5.65	6.28	6.18	6.38	6.28	6.29	6.32
SC (mS/cm)	---	---	---	---	---	1.176	0.933	0.946	1.269	1.304	0.962	1.301	1.53	1711
Turb (NTU)	---	---	---	---	---	1.33	1.88	0.64	1.56	0.39	0.98	55.4	92.2	3.18
DO (mg/l)	---	---	---	---	---	0.38	0.76	3.01	0.32	0.59	0.3	0.25	0.18	0.3
Eh (mv)	---	---	---	---	---	-99.9	6.8	-20.6	-108.7	-4.8	-188	-67	-100	-186.9
Temp (^{o}C)	---	---	---	---	---	7.67	9.79	14.28	9.87	11.57	10.15	10.17	9.75	7.35
Water Level Elevation	---	---	---	---	---	146.88	147.23	147.63	146.78	146.98	146.05	146.09	146.49	146.79

"*" denotes the ground water sample collected for well SB-B3 was incorrectly identified in the field and on the laboratory report as SB-B2.

SUMMARY OF HISTORICAL GROUND WATER QUALITY DATA
GMP WELL SB-10I

DOWNGRADIENT WELL
SCREENED INTERVAL - 30 - 40 FEET BGS

GMP Well SB-10I
[30 - 40 feet BGS]

constituent (ppb)	ICL	AGQS	Jun-01	Nov-01	May-02	Dec-02	Jun-03	Nov-03	May-04	Dec-04	May-05	Oct-05	Jun-06	Oct-06	Jun-07	Oct-07	Jun-08	Nov-08	Apr-09	May-09*	Nov-09	Apr-10	May-10	Nov-10	Apr-11	May-11
benzene	**5**	5	<1	<1	<1	<1	<1	<10	<1	**0.2(J)**	<1	**0.4(J)**	<1	<1	**0.7(J)**	**0.7(J)**	**1(J)**	**0.9(J)**	**1**	**1(J)**	**0.9(J)**	**0.8(J)**	**0.9(J)**	**0.8(J)**	<1	**2**
ethylbenzene	---	700	<1	<1	<1	**0.2(JB)**	**0.3(J)**	<10	<1	**1(J)**	**2**	**2**	**3**	**3**	**3**	**4**	**6**	**6**	**7**	**6**	**6**	**5**	**6**	**6**	**6**	**8**
toluene	**1,000**	1,000	<1	<1	<1	<1	**3**	<10	<1	**0.5(J)**	<1	**0.6(J)**	**0.8(J)**	**0.8(J)**	**1**	**1(J)**	**1**	**1**	**2**	**1**	**1**	**1**	**1**	**1**	**1(J)**	**2**
xylene	---	10,000	<1	<1	<1	**0.5(J)**	**6**	<10	**2**	**3**	**3**	**3**	**2(J)**	<3	**2(J)**	**2(J)**	**3(J)**	**2(J)**	**4**	**3(J)**	**3**	**2(J)**	**2(J)**	**2(J)**	**0.4(J)**	**4**
PCE	**5**	5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TCE	**5**	5	<1	<1	<1	<1	<1	<10	<1	<1	<1	**0.4(J)**	<1	<1	<1	<1	**0.5(J)**	**0.4(J)**	**0.6(J)**	**0.5(J)**	**0.4(J)**	**0.4(J)**	**0.4(J)**	**0.4(J)**	**0.7(J)**	**0.6(J)**
1,2-DCE	**70**	70	**0.6(J)**	<1	<1	<1	<1	<10	**1**	**2**	**2**	**3**	**4**	**4**	**5**	**6**	**7**	**6**	**7**	**8**	**7**	**5**	**4**	**4**	**4**	**7**
vinyl chloride	**2**	2	<1	<1	<1	<1	<1	<10	<1	**0.7(J)**	<1	**1**	<1	**2**	**4**	**4**	**5**	**5**	**4**	**6**	**6**	**5**	**4**	**6**	**3**	**7**
acetone	**700**	6,000	<5	<5	<5	<5	<5	<10	<1	**2(J)**	<5	<5	<5	<5	**7**	<5	**4(J)**	**3(J)**	**3(J)**	**4(J)**	<5	<2	**4(J)**	<5	<5	<5
tetrahydrofuran	**154**	154	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	**2(J)**	**2(J)**	**8**	<5	**2(J)**	<5	**2(J)**	<5	<5	**6**
2-butanone	**200**	---	<5	<5	**7**	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl 2-pentanone	**350**	---	<5	**11**	**17**	<5	**19**	**4(J)**	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
methylene chloride	**5**	5	<1	**0.7(JB)**	<1	<1	**5(B)**	<10	<1	<1	<2	<2	<5	<5	<5	<5	**0.4(J)**	<5	**1(JB)**	**1(JB)**	<5	<5	<5	<5	<5	<5
1,1,1,-TCA	---	200	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	81	<1	<1	<1	**0.3(J)**	**0.6(J)**	<10	**1**	**1**	**1**	**2**	**2**	**2**	**3**	**4**	**4**	**4**	**5**	**6**	**4**	**4**	**3**	**4**	**3**	**6**
1,1-DCE	**7**	7	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	**5**	5	<1	<1	<1	<1	<1	<10	<1	**0.2(J)**	<1	<1	<1	**0.7(J)**	**1**	**0.8(J)**	**1**	**1(J)**	**1**	**1**	**0.8(J)**	**0.8(J)**	**0.7(J)**	**0.8(J)**	**0.8(J)**	**1**
bromomethane	---	10	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<2	<1	<1	<1	<1
chloromethane	---	30	<1	**0.6(J)**	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<2	<1	<1	<1	<1
chloroform	---	70	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	60	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	4	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	70	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.7(J)**	<1	<1	<1	<1	<1
styrene	---	100	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
chloroethane	**14,000**	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1	<2	<1	<1	<1	<1
chlorobenzene	---	100	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	---	5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	2	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-hexanone	---	---	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
GMP constituents																										
cis-1,2-DCE	**70**	70	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		**8**	**7**	**5**	**4**	**4**	**4**	**7**
trans-1,2-DCE	---	100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	<1	<1	<1	<1	<1	
dichlorodifluoromethane	---	1,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<2	<2	---	<2		**0.3(J)**	---	**0.3(J)**
isopropylbenzene	---	800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		**0.6(J)**	**0.6(J)**	---	**0.7(J)**	**0.4(J)**	---	**1**
n-propylbenzene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1		---	<1	<1	---	<1
1,3,5-trimethylbenzene	---	330	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1		**0.2(J)**	<1	**0.2(J)**	<1	<1	**0.3(J)**
tert-butylbenzene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	---	<1	<1	---	<1	
1,2,4-trichlorobenzene	---	70	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	---	<1	<1	---	<1	
sec-butylbenzene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	---	<1	<1	---	<1	
1,3-dichlorobenzene	---	600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1		<1	---	<1	<1	---	<1
p-isopropyltoluene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1		**0.3(J)**	---	**0.3(J)**	<1	---	**0.4(J)**
1,4-dichlorobenzene	---	75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	<1	<1	<1	<1	<1	
1,2-dichlorobenzene	---	600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	<1	<1	<1	<1	<1	
n-butylbenzene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	---	<1	<1	---	<1	
1,2,4-trimethylbenzene	---	330	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		**0.2(J)**	**0.3(J)**	<1	**0.3(J)**	<1	**0.4(J)**	**0.4(J)**
naphthalene	---	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	---	<1	<1	---	<1	
methyl tert-butyl ether	---	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	<1	<1	<1	<1	<1	
diethyl ether	---	1,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		**3**	**3**	---	**2**	**4**	---	**4**
ethyl tertiary-butyl ether	---	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1	---	<1	<1	---	<1	
di-isopropyl ether	---	120	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.4(J)**	**0.3(J)**	---	<1	<1	---	**0.5(J)**
tertiary-butyl alcohol	---	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<5	<5	---	<5	<1	---	<5	
1,4-dioxane	---	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		**75**	**88**	---	**45**	**54**	---	**55(B)**
arsenic (dissolved)	**10**	10	12.4(B)	14.9	12.4	14	14.6	11.4	15.4	16.8	15.2	12	13.8	14.6	13.6	13.2	16.4	14	14.1	---	19.2	28.6	23.2	26.2	24.6	17.1
arsenic (total)	---	---	31.8(B)	13.4	13.2	16.6	15.3	15.6	14.5	14.4	17.1	11.4	11.7	15.6	13.8	13.6	17.1	15.3	16.4	---	20	27.3	24	26.9	25.3	15.9
calcium	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
iron (dissolved)	---	---	3,840	10,400	8,650	10,800	10,900	10,300	11,600	12,700	14,500	13,900	16,600	17,200	21,800	21,300	24,800	25,700	27,000	---	25,500	---	23,700	22,500	22,500	32,200
iron (total)	---	---	55,000	15,700	9,980	11,900	11,300	9,780	11,900	14,100	14,700	13,400	16,400	16,900	21,100	21,400	25,200	26,100	26,600	---	26,200	---	22,800	22,300	22,300	31,100
magnesium	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
manganese (dissolved)	---	840	540	318	305	290	282	277	305	322	352	339	418	443	542	565	642	649	653	---	716	---	740	688	688	828
manganese (total)	---	---	1,240	374	286	298	277	260	314	340	355	322	409	438	520	555	643	651	645	---	727	---	714	691	691	796
potassium	---	35,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
sodium	---	---	---	---	---	---	5,500	5,500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
pH (SU)	---	---	6.29	6.77	6.82	6.60	6.77	6.91	6.61	6.61	6.76	6.82	6.63	6.54	6.49	7.06	6.57	6.44	6.95	6.64	6.63	6.66	6.67	6.74	6.73	6.45
SC (mS/cm)	---	---	0.071	0.100	0.109	0.108	0.110	0.103	0.154	0.117	0.118	0.145	0.154	0.169	0.187	0.208	0.223	0.219	0.260	0.249	0.253	0.249	0.233	0.222	0.163	0.309
Turb (NTU)	---	---	---	98	8.98	6.15	4.90	4.74	17	1.62	2.90	8.35	1.81	0.93	3.04	2.21	1.40	14.90	6.6	5.21	0.570	117	16.3	3.6	4.5	1.65
DO (mg/l)	---	---	0.15	0.66	0.23	1.46	0.28	0.28	0.18	0.32	0.67	0.24	0.32	0.37	0.61	0.8	0.39	0.37	0.35	0.31	0.29	0.17	0.18	0.58	0.39	0.46
Eh (mv)	---	---	-23.8	-43.5	-60.1	-77.2	-12.4	-114	16	154	-57.8	-103	-103.3	-111.8	-4.3	-217.8	-102.8	-94.6	-129	-96.3	-81.2	-144	-114.5	-142.2	-71.9	-91.4
Temp (^{0}C)	---	---	9.9	9.3	8.9	7.7	10.2	9	8.9	8.4	8.5	9.48	11.74	10	10.91	10.59	10.84	11.10	11.09	10.08	9.63	11.11	9.11	9.75	7.72	9.74
Water Level Elevation	149.39	NA	146.49	143.89	146.38	145.89	146.68	146.54	147.16	146.73	146.96	146.79	147.31	146.44	---	---	---	---	---	---	---	--	-	---	---	---

"*" denotes that GeoInsight collected a ground water sample from well SB-10I for metals analyses in May 2009.

APPENDIX C

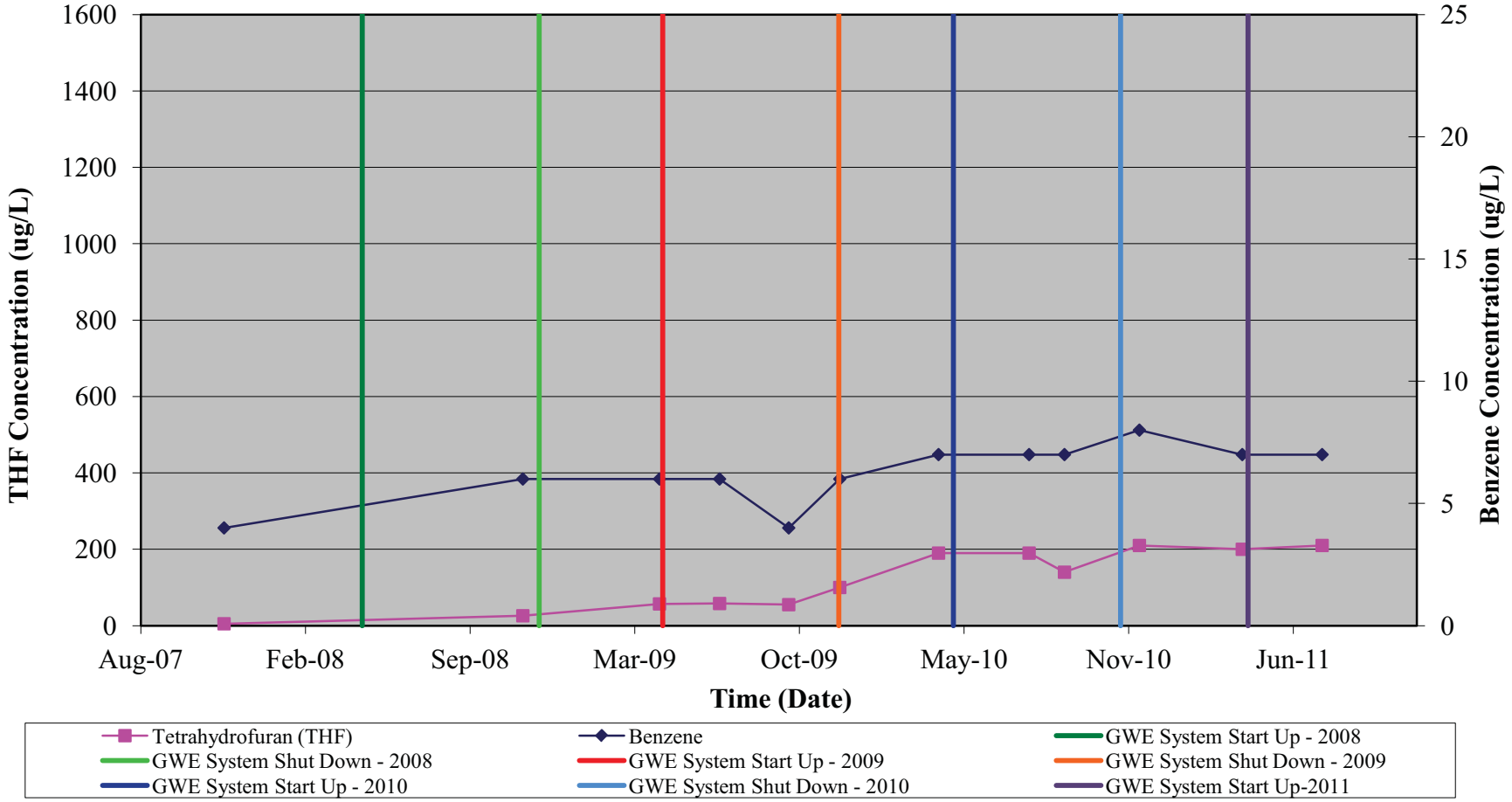
LABORATORY ANALYTICAL DATA (PROVIDED TO USEPA ON CD)

APPENDIX D

CONCENTRATION VERSUS TIME – QUARTERLY PERFORMANCE MONITORING WELLS

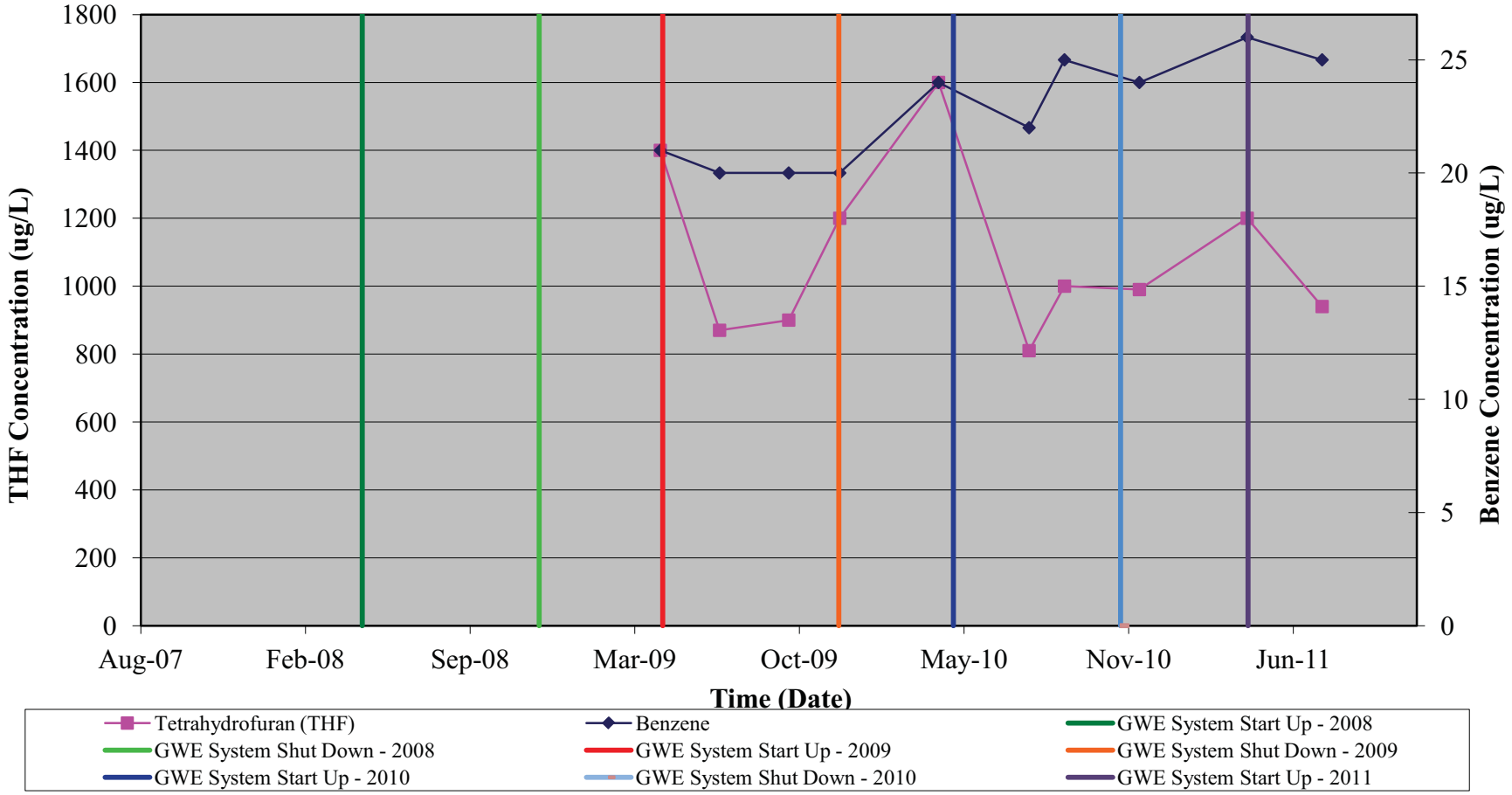
APPENDIX D-1
CONCENTRATION VERSUS TIME - MW-200I
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

SCREENED INTERVAL
35 - 45 FEET BGS



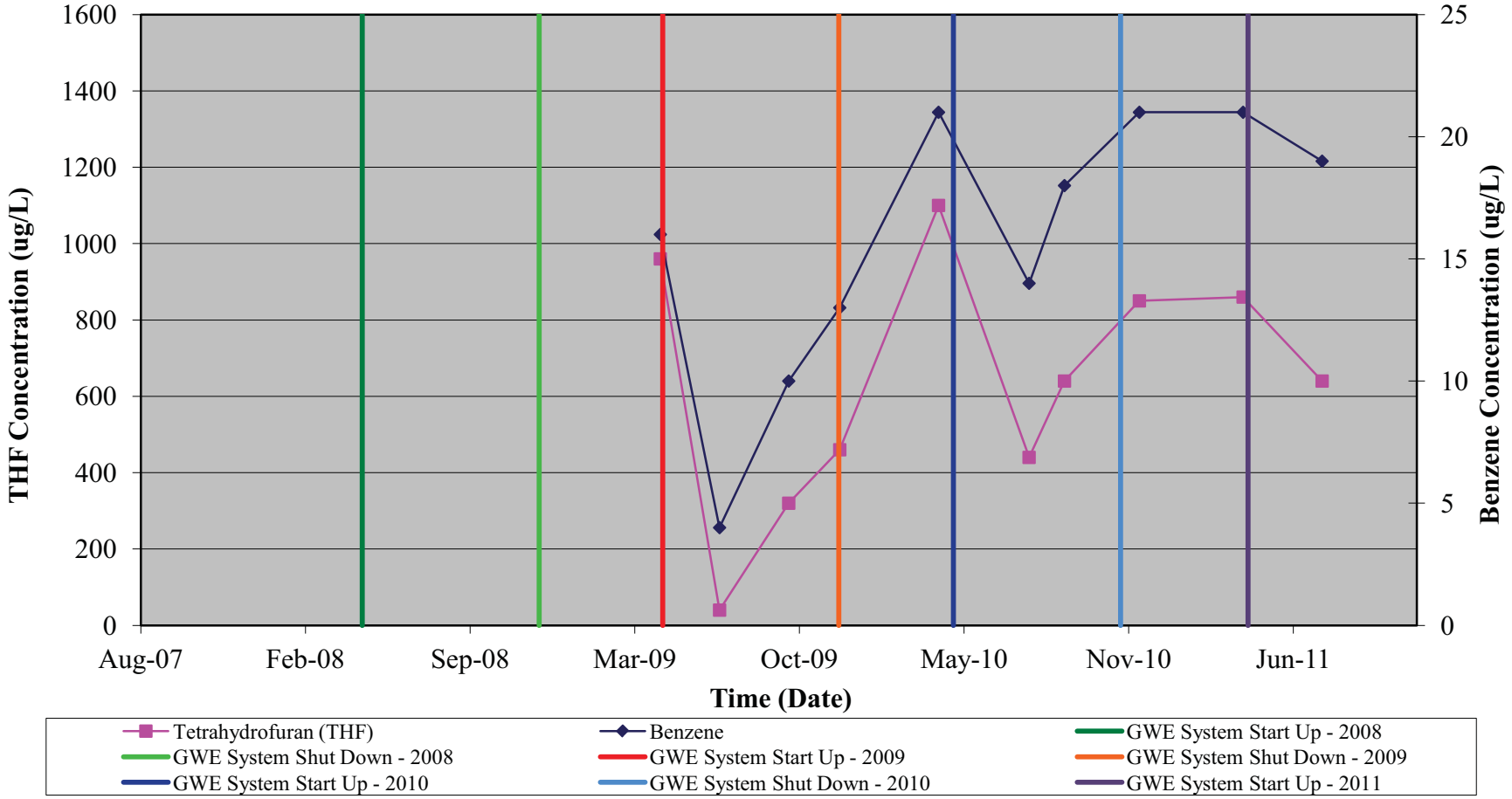
SCREENED INTERVAL
35 - 45 FEET BGS

APPENDIX D-2
CONCENTRATION VERSUS TIME - MW-207I
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE



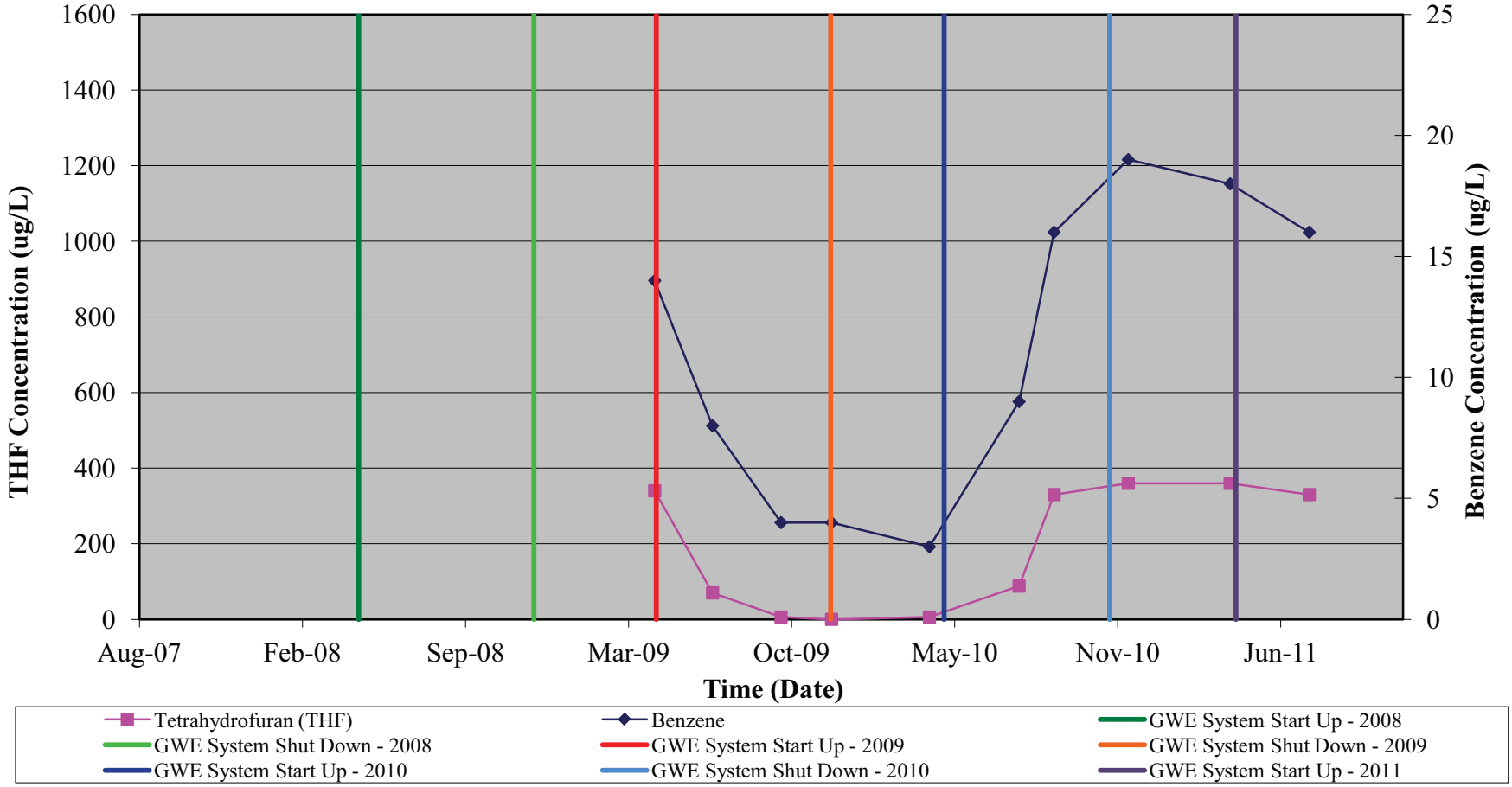
SCREENED INTERVAL
35 - 45 FEET BGS

APPENDIX D-3
CONCENTRATION VERSUS TIME - MW-208I
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE



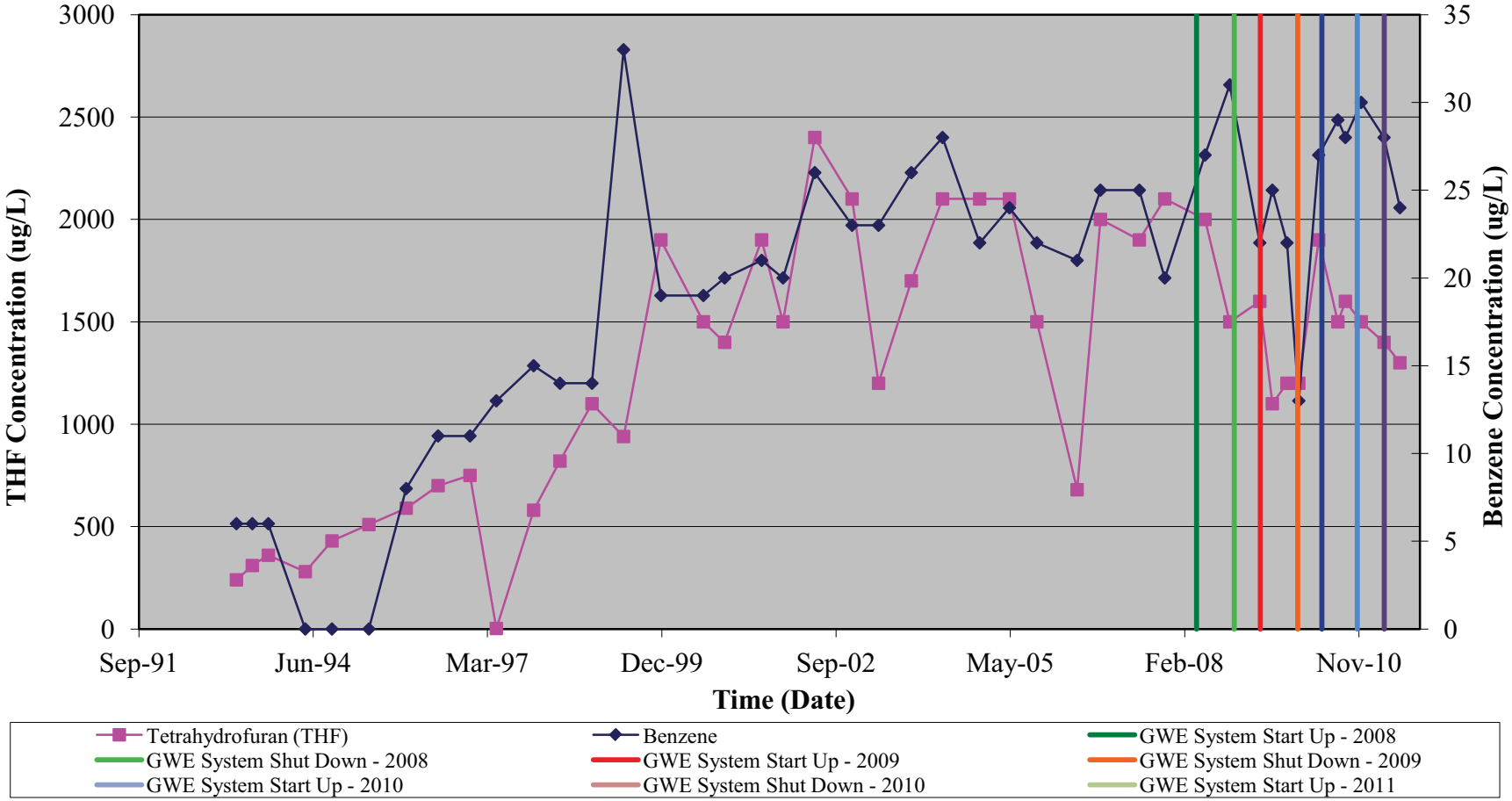
APPENDIX D-4
CONCENTRATION VERSUS TIME - MW-209I
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

SCREENED INTERVAL
35 - 45 FEET BGS



APPENDIX D-5
CONCENTRATION VERSUS TIME - SB-B2
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

SCREENED INTERVAL
34 - 44 FEET BGS



SUMMARY AND STATUS OF ACTIVITIES – Q3 – OCTOBER 10, 2011
NORTHWEST LANDFILL HOTSPOT REMEDIAL DESIGN AND REMEDIAL ACTION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

1. Summary of Activities

Baseline Data Reports - 2011

- This is the third operating season of the air sparge (AS) and soil vapor extraction (SVE) system. A summary of data from the 2010 operating season was presented in the Northwest Landfill Response Action Air Sparging and Soil Vapor Extraction 2010 Annual Report (the 2010 Annual Report), dated April 12, 2011.
- Baseline soil vapor, ground water, and air sampling were completed from February through April 2011. See Tables 1, 2, and 3 for a summary of the soil vapor, ground water, and ambient air baseline sampling results (Attachment A presents the laboratory results).

2011 Field Work – Q3

- On July 6, 2011 a defective pressure transmitter on the AS system was replaced. A cracked pipe was also repaired on the AS system.
- On July 14, 2011 an additional crack on the AS system was discovered and repaired. The SVE component of the system remained active while the AS repair was completed.
- The weekly system check on July 18, 2011 revealed that AS operation was down due to a low flow alarm condition. The problem could not be fixed remotely and a field inspection was scheduled to coincide with drilling activities scheduled for later in the week.
- Two replacement AS wells were installed (AS-1B-R and AS-1C-R) on July 22, 2011 to evaluate methods for alleviating the high pressure issue (caused by silting at the well screen) measured at the existing wells. A field inspection of the AS system revealed that a AS compressor was malfunctioning and a repair could not be performed at that time. The SVE component continued to operate normally.
- Monthly Operations and Management (O&M) Field Event – July 27, 2011. The AS system remained out of operation due the faulty motor starter. The remaining O&M tasks associated with the SVE system were completed. Tables 4 and 5 present a summary of AS and SVE well air flow data.
- Periodic system checks: Table 6 presents a summary of system status check data. Table 7 presents a summary of laboratory results collected from the SVE discharge. Table 8 presents a summary of vapor probe data. The corresponding laboratory reports have been provided in Attachment A.
- On July 29, 2011 the malfunctioning motor starter was replaced, however low flow alarm conditions continued to persist. Further examination of the air compressor itself indicated a motor failure.
- On August 10, 2011 the faulty air compressor was removed from the system and sent for repair. The SVE component continued to operate normally.
- Monthly O&M Field Event – September 1, 2011. The remaining O&M tasks associated with the SVE system were completed. Table 9 presents a summary of aqueous sample analytical results collected prior to and after activated carbon treatment. The corresponding laboratory reports have been provided in Attachment A.
- On September 9, 2011 the reconditioned air compressor was installed and operated normally. The SVE system failed to re-start normally and a determination was made that the motor starter for the SVE blower was faulty. As the SVE component is required to operate the AS component, the entire system was inoperable.

- On September 14, 2011 the faulty SVE motor starter was replaced. The SVE blower remained inoperable and an inspection concluded that a small fire inside the motor housing had damaged the blower motor.
- On September 22, 2011 a replacement SVE blower motor was installed. Normal SVE and AS system operation resumed.
- Monthly O&M Field Event – September 22 and 23, 2011. The AS was optimized for maximum VOC removal and standard O&M protocols were followed. Laboratory results collected from the SVE discharge are still pending. Tables 4 and 5 present a summary of AS and SVE well air flow data, respectively. Table 8 presents a summary of vapor probe data.

Mass Removal Calculation

- Table 10 presents the mass removed at the site during operation of the AS and SVE system.
- Approximately 1,684 pounds of VOCs (primarily cis-1,2-dichloroethene, tetrachloroethene, and toluene) have been removed between May 9, 2011 and September 1, 2011. A total of 41,812 pounds of VOCs have been removed since June 2009.

2. Deliverables and Correspondence

None

3. Schedule for Next Quarter

During the next quarter the following activities are anticipated to be performed:

- Monthly O&M Field Events – October and November 2011 (pending weather/freezing conditions that would affect the system operation and shut down date).
- System shut down activities (estimated to occur mid November 2011).
- Post-seasonal operation ground water sampling activities (estimated to occur in late December 2011).

4. Status of Activities

Performance and regulatory monitoring data will be submitted with the Quarterly Progress Reports as these data become available.

Remedy Design:	Complete.
Remedy Construction:	Complete.
Remedy Implementation:	Active.

5. Modifications

None

TABLES

Table 1
SVE Soil Gas Static VOC Concentrations

Dover Municipal Landfill Superfund Site, Dover, NH

Sample ID	Sample Date	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride
		(Concentrations are reported in ppbv)															
SVE-05																	
	9/3/2008	65	32 U	140	280	32 U	810	32 U	2,000	32 U	32 U	32 U	32 U	32 U	32 U	32 U	32 U
	4/1/2009	30 U	37	53	360	62	240	30 U	10,000	30 U	30 U	30 U	30 U	52	30 U	30 U	30 U
	4/1/2010	800	140	400	2,300	94	5,600	190	32,000	47 U	47 U	53	47 U	510	51	47 U	92
	2/7/2011	850	270	1,000	4,300	280	14,000	150	37,000	48 U	48 U	51	50	470 J	150 J	95	89
SVE-05 (Duplicate)																	
	2/7/2011	710	240	960	3,900	260	13,000	130	34,000	44 U	44 U	44 U	44 U	150 J	62 J	59	110
SVE-07																	
	9/3/2008	530	1,100	7,300	7,800	88 U	5,700	88 U	6,000	100	92	400	1,300	17,000	2,100	650	230
	4/1/2009	46	35	430	1,300	15 U	760	16	2,000	120	120 J	90	610	5,400	1,400	480	40
	4/1/2010	370	130	460	1,500	51	3,400	69	13,000	60	170	28	73	1,100	180	230	640
	2/7/2011	1,100	510	450	5,000	250	10,000	120	19,000	300	220	80	1,200	4,100	690	460	390
SVE-09																	
	9/3/2008	500	200 U	220	2,000	200 U	3,700	200 U	9,000	200 U	200 U	200 U	1,400	7,000	7,900	1,800	510
	4/1/2009	1,100	3,300	22,000	34,000	4,900	290,000	1,100	560,000	560 U	560 U	590	25,000	460,000	30,000	4,000	14,000
	4/1/2010	4,700	1,200	12,000	18,000	910	120,000	930	190,000	380 U	380 U	380 U	1,200	100,000	7,900	2,200	5,400
	2/7/2011	16,000	8,200	4,600	14,000	1,500	150,000	720	22,000	2,200	1,600	1,500	23,000	330,000	45,000	10,000	1,000
SVE-12																	
	9/3/2008	1,600	850	3,000	13,000	380	42,000	320	120,000	210 U	210 U	340	210 U	3,600	350	210 U	210 U
	4/1/2009	300 U	300 U	1,100	6,700	300 U	16,000	300 U	150,000	300 U	300 U	300 U	300 U	16,000	570	300 U	300 U
	4/1/2010	19,000	5,200	2,300	3,200	240	46,000	420	41,000	280	320	85	350	5,700	1,500	1,000	1,300
	2/7/2011	2,900	630	640	1,300	270	33,000	140	90,000	130 U	130 U	130 U	130 U	2,600	270	130 U	130 U
SVE-12 (Duplicate)																	
	9/3/2008	1,500	880	3,400	14,000	460	47,000	340	140,000	200 U	200 U	280	200 U	5,400	660	210	200 U
SVE-16																	
	9/3/2008	1,000,000	520,000	84,000	120,000	18,000	2,600,000	20,000	920,000	4,000 U	4,000 U	4,000 U	20,000	540,000	45,000	10,000	1,300,000
	4/1/2009	120,000	54,000	5,400	46,000	11,000	2,300,000	9,000	550,000	2,700 U	2,700 U	2,700 U	7,900	290,000	15,000	2,900	350,000
	4/1/2010	95,000	27,000	3,400	4,500	680	220,000	1,400	130,000	430 U	500	430 U	1,900	33,000	6,900	4,500	13,000
	2/7/2011	19,000	12,000	670 U	6,700	2,700	440,000	2,300	240,000	2,400	2,200	670 U	10,000	78,000	31,000	14,000	670 U
SVE-16 (Duplicate)																	
	4/1/2009	160,000	68,000	6,400	47,000	11,000	2,300,000	9,000	580,000	3,000 U	3,000 U	3,000 U	11,000	340,000	21,000	4,200	340,000
SVE-18																	
	9/3/2008	750	1,100	140 U	910	170	52,000	140 U	34,000	140 U	140 U	1,400	16,000	140,000	35,000	9,600	890
	4/1/2009	310	340	110 U	490	110 U	20,000	110 U	21,000	170	160	710	9,200	58,000	21,000	6,000	380
	4/1/2010	2,800	1,700	160 U	650	190	23,000	290	100,000	160 U	160 U	160 U	1,100	6,900	2,800	1,100	290
	2/7/2011	620	360	61 U	320	93	13,000	140	36,000	1,200	830	150	2,800	10,000	7,800	3,000	2,000

Table 1
SVE Soil Gas Static VOC Concentrations

Dover Municipal Landfill Superfund Site, Dover, NH

Sample ID	Sample Date	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride
		(Concentrations are reported in ppbv)															
SVE-22																	
	4/1/2010	5,300	980	480	1,500	85	16,000	210	15,000	98	81	30 U	48	470	180	120	560
	2/7/2011	1,900	520	69	380	170	32,000	130	41,000	48 U	48 U	48 U	64	500	180	450	48 U
SVE-22 (Duplicate)																	
	4/1/2010	4,900	920	440	1,400	81	15,000	200	14,000	92	77	20 U	46	430	170	110	520
SVE-26																	
	9/3/2008	1,700	4,400	300 U	300 U	300 U	22,000	300 U	6,200	300 U	300 U	370	300 U	1,800	300 U	300 U	300 U
	4/1/2009	3	1 U	1 U	3	1 U	230	1 U	80	1 U	1 U	18	6	79	11	2	1

Notes:

SVE = soil vapor extraction
VOC = volatile organic compound
ppbv = parts per billion by volume
U = compound was not detected at the indicated concentration
J = estimated value
PCE = tetrachloroethene
TCE = trichloroethene
1,1,1-TCA = 1,1,1-trichloroethane
1,1-DCA = 1,1-dichloroethane
1,1-DCE = 1,1-dichloroethene
cis-1,2-DCE = cis-1,2-dichloroethene
trans-1,2-DCE = trans-1,2-dichloroethene

Table 2
Groundwater VOC Concentrations
Dover Municipal Landfill Superfund Site, Dover, NH

Monitoring Well	Sample Date	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride
		(Concentrations are presented in ppb)															
AS-01A																	
	9/03/08 G	75	13	150	290	5 U	1,900	13	1,000	150	57	10 U	110	1,900	360	110	25 U
AS-02E																	
	9/03/08 G	100 U	100 U	100 U	100 U	50 U	390	100 U	210	100 U	100 U	100 U	100 U	100 U	100 U	100 U	250 U
	4/01/09 S	100 U	100 U	100 U	100 U	50 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	250 U
	1/04/10 S	4	3	2 U	2 U	1 U	18	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U
	3/31/10 G	22	26	2 U	2 U	1 U	64	2 U	2 U	5	2	2 U	2 U	6	4	3	5 U
	12/21/10 G	2 U	2 U	2 U	2	1 U	24	2 U	2	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U
	3/30/11 G	6	9	2 U	19	1 U	240	2	8	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U
AS-03C																	
	3/31/10 S	270	92	2	55	1 U	170	2 U	57	2 U	2 U	2 U	2 U	3	2 U	5	5 U
	12/20/10 S	8	2 U	2 U	83	1 U	24	2 U	24	2 U	2 U	2 U	2 U	2 U	2 U	3	6
AS-04C																	
	9/02/08 S	140,000	16,000	50,000	5,000	720	35,000	400 U	2,900	400 U	400 U	400 U	1,700	16,000	4,300	1,200	38,000
	4/01/09 S	120,000	15,000	32,000	2,000	500 U	83,000	1,000 U	2,600	1,000 U	1,000 U	1,000 U	1,800	14,000	5,200	1,300	14,000
	1/04/10 S	300	2,600	1,400	290	50 U	14,000	100 U	100 U	100 U	100 U	100 U	100 U	2,000	100 U	100 U	650
	3/31/10 S	150	860	3,100	810	100	55,000	110	480	100 U	100 U	100 U	290	3,500	1,100	390	250 U
	12/20/10 S	6,300	3,300	1,600	360	100 U	23,000	200 U	200 U	200 U	200 U	200 U	200 U	900	200 U	200 U	500 U
	3/30/11 S	200 U	200 U	3,400	1,100	130	66,000	200 U	4,100	200 U	200 U	200 U	200 U	6,100	820	420	500 U
AS-05D																	
	12/20/10 S	40 U	42	270	1,700	300	31,000	85	1,100	40 U	40 U	40 U	270	7,700	890	450	100 U
AS-06C																	
	3/31/09 S	40 U	40 U	88	470	20 U	8,200	66	5,600	550	210	40 U	400	9,700	1,300	400	100 U
	1/04/10 S	17 J	7 J	2 U	12	1 U	79	2 U	43	4	2 U	2 U	2 U	10	2	2	5 U
AS-06C (Duplicate)																	
	1/04/10 S	10 J	5 J	2 U	11	1 U	79	2 U	38	2 U	2 U	2 U	2 U	12	2 U	2 U	5 U
AS-07E																	
	9/03/08 G	20 U	20 U	41	580	10 U	15,000	23	7,100	180	53	25	400	4,000	1,100	370	50 U
	3/31/09 S	21	10 U	10 U	290	5 U	36	10 U	930	200	60	35	440	3,000	1,300	430	25 U
	12/31/09 S	20 U	20 U	20 U	100	10 U	110	20 U	1,800	150	43	20 U	290	2,800	940	360	50 U
	3/31/10 S	20 U	20 U	20 U	95	10 U	20 U	20 U	20 U	100	34	20 U	160	1,200	510	190	50 U
	12/21/10 G	10 U	10 U	10 U	110	5 U	1,600	20	4,200	10 U	10 U	10 U	29	160	20	30	25 U
	3/30/11 G	10 U	10 U	10 U	480	36	26,000	160	7,200	25	10 U	10 U	240	2,600	440	290	25 U
AS-08B																	
	3/30/11 S	2,600	4,000	2,700	1,100	200	75,000	350	3,800	54	23	20 U	280	4,200	830	340	70
AS-08B (Duplicate)																	
	3/30/11 S	2,200	3,700	2,600	1,100	210	72,000	460	3,800	55	25	20 U	290	4,300	870	350	62
AS-13B																	
	9/03/08 G	200 U	200 U	220	1,600	100 U	4,200	200 U	890	250	200 U	200 U	300	9,100	810	280	500 U
	4/01/09 G	40 U	40 U	40 U	97	20 U	40 U	40 U	40 U	220	61	40 U	300	7,800	770	280	100 U
	1/04/10 S	2 U	2 U	2 U	46	1 U	19	2 U	64	4	2 U	3	5	11	3	5	5 U
	3/31/10 S	2 U	2 U	2 U	42	1 U	14	5	75	28	9	3	50	1,200	97	54	9
	12/20/10 S	10	6	2 U	52	1	300	2	120	2 U	2 U	2 U	3	32	4	13	5 U
	3/31/11 S	2 U	2 U	2 U	16	1 U	2	3	7	6	3	2 U	12	300	20	14	5 U
AS-14A																	
	9/03/08 S	2,300	400 U	2,000	6,500	200 U	25,000	400 U	850	460	400 U	400 U	1,400	81,000	4,000	1,100	25,000

Table 2
Groundwater VOC Concentrations
Dover Municipal Landfill Superfund Site, Dover, NH

Monitoring Well	Sample Date	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride
		(Concentrations are presented in ppb)															
AS-14A																	
	3/31/09 S	400 U	400 U	3,100	9,200	200 U	39,000	400 U	850	430	400 U	400 U	1,600	100,000	4,600	1,300	51,000
	1/04/10 S	2 U	2 U	3	45	1 U	320	2 U	27	5	2 U	2 U	3	110	8	4	5 U
	3/31/10 S	20 U	20 U	20	250	10 U	2,600	20 U	710	55	24	20 U	33	2,300	110	74	50 U
	12/21/10 S	2 U	2 U	2 U	30	1 U	180	2 U	59	8	15	2 U	5	320	32	29	5 U
	3/30/11 S	40 U	40 U	40 U	91	20 U	52	40 U	190	40 U	40 U	40 U	40 U	470	40 U	40 U	100 U
AS-14A (Duplicate)																	
	3/31/09 S	400 U	400 U	3,000	9,200	200 U	39,000	400 U	820	420	400 U	400 U	1,500	100,000	4,500	1,200	51,000
AS-15A																	
	9/03/08 G	1,700	660	1,900	4,200	100 U	35,000	200 U	1,200	200 U	200 U	200 U	300	17,000	880	290	38,000
	4/01/09 G	200 U	200 U	2,600 B	7,200	100 U	40,000	200 U	1,300	200 U	200 U	200 U	310	28,000	910	300	61,000 B
	12/31/09 S	40 U	40 U	40 U	170	20 U	6,500	40 U	3,800	40 U	40 U	40 U	40 U	850	150	69	100 U
	3/31/10 S	40 U	40 U	40 U	630	20 U	91	40 U	24,000	120	48	40 U	270	4,700	1,200	420	100 U
	12/21/10 S	13	3	2 U	2 U	1 U	240	2 U	8	2 U	2 U	2 U	2 U	2	2 U	2 U	5 U
	3/30/11 S	20 U	20 U	20 U	20 U	10 U	3,000	20 U	53	20 U	20 U	20 U	20 U	20 U	20 U	20 U	50 U
AS-15B																	
	3/31/10 S	66	220	310	1,500	72	52,000	84	4,200	77	40 U	40 U	200	9,600	810	250	490
	12/21/10 S	100 U	100 U	100 U	110	50 U	13,000	100 U	120	100 U	100 U	100 U	100 U	100 U	100 U	100 U	250 U
AS-15D																	
	9/03/08 G	23,000	2,300	2,100	4,200	110	180,000	200 U	2,000	200 U	200 U	200 U	800	2,000	2,300	720	27,000
	4/01/09 G	130,000	6,900	9,600	7,000	500 U	220,000	1,000 U	3,200	1,000 U	1,000 U	1,000 U	2,700	47,000	8,100	2,300	41,000
	12/31/09 S	1,000 U	1,400	1,000 U	1,900	500 U	120,000	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	11,000	1,000 U	1,000 U	3,800
	3/31/10 S	1,300	1,000 U	1,000 U	1,600	500 U	180,000	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	28,000	1,400	1,000 U	2,500 U
	12/21/10 G	400 U	400 U	400 U	1,300	200 U	5,000	400 U	54,000	400 U	400 U	400 U	400 U	4,100	400 U	400 U	1,000 U
	3/30/11 G	400 U	400 U	400 U	510	200 U	4,600	400 U	8,100	400 U	400 U	400 U	400 U	5,500	400 U	400 U	9,300
AS-16A																	
	3/31/09 S	54,000	5,500	2,000 U	7,600	1,000 U	230,000	2,000 U	3,100	2,000 U	2,000 U	2,000 U	2,800	64,000	9,200	2,700	34,000
	12/31/09 S	1,000 U	1,000 U	1,000 U	2,700	500 U	110,000	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	9,500	1,000 U	1,000 U	4,300
AS-16C																	
	9/03/08 G	28,000	3,500	4,600	3,900	120	160,000	200 U	2,500	200 U	200 U	200 U	880	21,000	2,600	810	14,000
	4/01/09 G	110,000	6,400	8,900	6,300	500 U	210,000	1,000 U	3,500	1,000 U	1,000 U	1,000 U	2,800	48,000	9,000	2,500	29,000
	12/31/09 S	560	3,500	650	380	50 U	18,000	100 U	340	100 U	100 U	100 U	100 U	1,400	350	200	250 U
	3/31/10 S	600	1,200	1,000	1,500	83	92,000	100 U	2,100	290	110	100 U	580	13,000	2,600	860	280
	12/20/10 S	25,000	1,800	870	200 U	100 U	15,000	200 U	430	200 U	200 U	200 U	230	11,000	1,400	710	500 U
	3/31/11 S	180	2,800	1,100	1,200	130	77,000	110	4,300	260	120	100 U	360	9,600	1,800	720	250 U
AS-17C																	
	3/31/11 S	10 U	10 U	10 U	47	5 U	1,100	10 U	1,500	10 U	10 U	10 U	10 U	110	13	15	25 U
AS-20C																	
	3/31/11 S	470	240	64	180	14	9,900	15	2,000	10	10 U	10 U	51	1,600	200	110	31
AS-20D																	
	3/31/11 G	400 U	400 U	400 U	1,100	200 U	53,000	400 U	16,000	400 U	400 U	400 U	880	19,000	2,800	1,100	1,000 U
AS-22D																	
	12/21/10 S	100 U	100 U	100 U	630	50 U	8,800	100 U	5,000	100 U	100 U	100 U	390	11,000	520	310	250 U
AS-23C																	
	3/31/10 G	59,000	12,000	1,400	540	200 U	130,000	400 U	3,300	950	400 U	400 U	1,800	12,000	6,400	1,800	1,000 U
	12/21/10 G	210	300	200 U	280	100 U	21,000	200 U	470	200 U	200 U	200 U	200 U	450	200 U	200 U	500 U
AS-24A																	

Table 2
Groundwater VOC Concentrations
Dover Municipal Landfill Superfund Site, Dover, NH

Monitoring Well	Sample Date	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride
		(Concentrations are presented in ppb)															
AS-24A																	
	9/03/08 S	570	370	7,400	6,500	160	55,000	200 U	980	390	200 U	200 U	860	44,000	2,200	760	52,000
AS-24C																	
	9/02/08 G	2,500	250	450	2,300	150	160,000	240	7,400	890	260	100 U	2,700	20,000	7,800	2,500	1,800
AS-25A																	
	4/01/09 G	200 U	200 U	200 U	350	100 U	8,700	200 U	830	200 U	200 U	200 U	200 U	2,100	210	200 U	500 U
	12/31/09 S	100 U	100 U	100 U	920	50 U	15,000	100 U	280	100 U	100 U	100 U	100 U	600	100 U	100 U	1,900
AS-25B																	
	1/04/10 S	110	100 U	100 U	100 U	50 U	1,500	100 U	100 U	100 U	100 U	100 U	100 U	140	100 U	100 U	250 U
	4/01/10 S	83	270	22	440	10 U	6,800	20 U	450	23	20 U	20 U	120	1,400	280	140	50 U
	12/21/10 S	36	17	10 U	31	5 U	600	10 U	10 U	29	10 U	10 U	58	69	18	20	25 U
	3/31/11 S	690	91	22	100	7	1,400	10 U	490	10 U	10 U	10 U	53	140	37	22	35
AS-27B																	
	9/03/08 S	820	120	100 U	1,300	55	88,000	100 U	6,900	370	120	100 U	950	11,000	2,700	860	250 U
	3/31/09 S	400 U	400 U	400 U	1,500	200 U	83,000	400 U	4,500	400 U	400 U	400 U	870	14,000	2,600	850	1,000 U
	12/31/09 S	390	290	40 U	320	20 U	5,000	40 U	2,800	73	40 U	40 U	450	3,600	1,700	1,200	100 U
	4/01/10 S	1,100	460	40 U	160	20 U	3,400	40 U	700	520	160	40 U	1,500	5,700	5,600	3,000	100 U
	12/21/10 S	40 U	47	40 U	180	20 U	6,000	40 U	4,200	40 U	40 U	40 U	42	490	140	150	100 U
	3/31/11 S	10 U	10 U	10 U	87	5 U	1,800	10 U	1,300	40	17	10 U	150	940	530	500	25 U
AS-27B (Duplicate)																	
	4/01/10 S	1,200	360	20 U	150	10 U	3,100	20 U	660	530	160	20 U	1,400	5,400	5,200	2,800	50 U
AS-27D																	
	12/21/10 S	190	150	10 U	170	7	5,700	15	3,700	10 U	10 U	10 U	10 U	110	12	22	25 U
AS-28B																	
	9/03/08 S	12,000	470	1,700	5,400	120	71,000	200 U	2,000	770	220	200 U	1,700	35,000	4,600	1,400	12,000
AS-28B (Duplicate)																	
	9/03/08 S	9,700	390	1,500	4,200	100 U	59,000	200 U	1,500	570	200 U	200 U	1,400	28,000	3,800	1,100	11,000
GW-01																	
	9/02/08 S	390	94	140	500	5 U	1,000	12	240	280	100	10 U	280	3,100	1,000	380	45
	4/01/09 S	36	20 U	75 B	600	10 U	2,600	21	1,400	270	96	20 U	410	5,500	1,500	540	180 B
	1/04/10 S	40 U	100	810	1,800	22	14,000	40	5,000	66	40 U	40 U	140	2,300	560	230	100 U
	3/31/10 S	350	5,000	550	560	50 U	12,000	100 U	2,100	100 U	100 U	100 U	140	2,400	580	230	250 U
	12/20/10 S	530	370	370	2,200	50 U	6,300	100 U	41,000	100 U	100 U	100 U	140	2,700	500	220	330
	3/30/11 S	100 U	100 U	460	1,200	50 U	2,700	100 U	12,000	100 U	100 U	100 U	290	5,900	1,100	430	420
GW-01 (Duplicate)																	
	12/20/10	540	360	390	2,300	14	4,900	44	37,000	31	20 U	20 U	160	2,700	540	260	320
GW-02																	
	9/02/08 S	300	200 U	2,200	5,500	100 U	35,000	200 U	2,200	820	220	200 U	1,300	36,000	3,000	940	5,600
	3/31/09 S	100 U	100 U	200	3,600	50 U	19,000	100 U	2,200	550	130	100 U	950	23,000	2,500	740	2,100
	1/04/10 S	100 U	100 U	100 U	130	50 U	100 U	100 U	150	100 U	100 U	100 U	100 U	1,600	180	100	250 U
	3/31/10 S	10 U	10 U	10 U	42	5 U	110	10 U	120	100	32	14	120	2,900	270	140	51
GW-03																	
	9/02/08 S	22,000	3,400	14,000	3,400	170	120,000	200 U	2,300	510	200 U	200 U	1,700	29,000	5,000	1,600	14,000
	3/31/09 S	33,000	8,000	20,000	6,900	500 U	150,000	1,000 U	2,900	1,000 U	1,000 U	1,000 U	2,300	44,000	7,700	2,300	9,600
	1/04/10 S	17,000	15,000	1,600	220	100 U	34,000	200 U	420	240	200 U	200 U	240	2,100	950	420	500 U
	3/31/10 S	5,800	7,100	2,400	920	100	70,000	200 U	200 U	220	200 U	200 U	200 U	3,400	820	390	500 U
	12/20/10 S	2,600	7,100	400 U	400 U	200 U	42,000	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	1,000 U

Table 2
Groundwater VOC Concentrations
Dover Municipal Landfill Superfund Site, Dover, NH

Monitoring Well	Sample Date	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride
		(Concentrations are presented in ppb)															
GW-03																	
	3/30/11 S	3,200	10,000	1,100	740	200 U	66,000	400 U	2,100	400 U	400 U	400 U	400 U	570	400 U	400 U	1,000 U
GW-04																	
	9/02/08 S	3,400	1,500	20 U	460	11	21,000	34	3,700	180	51	38	1,100	6,200	2,900	910	50 U
	3/31/09 S	20 U	20 U	20 U	1,100	20	72,000	190	7,300	140	43	52	1,300	8,200	3,500	1,000	50 U
	1/04/10 S	120	100 U	100 U	320	50 U	10,000	100 U	1,600	100 U	100 U	100 U	450	3,400	1,500	520	250 U
	4/01/10 S	20 U	20 U	20 U	180	10 U	660	20 U	3,000	140	49	34	800	6,600	2,500	820	50 U
	12/21/10 S	98	270	40 U	84	29	23,000	40 U	1,800	60	40 U	40 U	120	1,000	450	210	100 U
	3/31/11 S	100	180	40 U	89	20 U	9,800	40 U	13,000	53	40 U	40 U	240	1,900	710	330	100 U

Notes:

VOC = volatile organic compound
ppb = parts per billion
U = compound was not detected at the indicated concentration.
J = estimated concentration
B = analyte was detected in the method blank
PCE = tetrachloroethene
TCE = trichloroethene
1,1,1-TCA = 1,1,1-trichloroethane
1,1-DCA = 1,1-dichloroethane
1,1-DCE = 1,1-dichloroethene
cis-1,2-DCE = cis-1,2-dichloroethene
trans-1,2-DCE = trans-1,2-dichloroethene
G = grab sample was collected after attempting EPA low flow sampling procedures; the well was purged until dry and allowed to recharge before the sample was collected.
S = sample collected via EPA low flow methodology.

Table 3
Ambient Air Exposure Monitoring VOC Concentrations

Dover Municipal Landfill Superfund Site, Dover, NH

Sample ID	Sample Date	Date Notes	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride	THF
(Concentrations are presented in ppbv)																			
Annual AAL Criteria			60	119	833	335	50	1984	1984	2.4	84	84	1.2	230	106	23	23	119	168
TR-Base																			
	9/3/2008	A	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
	4/1/2009	A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	7/13/2009	B	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	10/22/2009	C	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1	1 U	1 U	1 U	1
	11/12/2009	D	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	4/2/2010	A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	4/30/2010	B	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1	1 U	1 U	1 U	1 U
	7/22/2010	C	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	24
	4/1/2011	A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	9
	7/6/2011		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Notes:

VOC = volatile organic compounds
ppbv = parts per billion by volume
AAL = New Hampshire Ambient Air Limit
U = compound was not detected at the indicated concentration
PCE = Tetrachloroethene
TCE = Trichloroethene
THF = Tetrahydrofuran
1,1,1-TCA = 1,1,1-trichloroethane
1,1-DCA = 1,1-dichloroethane
1,1-DCE = 1,1-dichloroethene
cis-1,2-DCE = cis-1,2-dichloroethene
trans-1,2-DCE = trans-1,2-dichloroethene
Sample collected along Tolend Road, north of the soil vapor extraction discharge stack.
[A] = Sample was collected prior to AS and SVE system start up.
[B] = Sample was collected one week after SVE system start up.
[C] = Sample was collected 3 months after AS and SVE system start up.
[D] = Sample was collected to verify concentration data detected in the October 2009 sample, which was was collected during heavy traffic conditions.
[E] = Sample was collected one week after AS and SVE system start up.

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-01A				
	7/14/2009	6.0	8.0	11.1
	8/24/2009	9.0	3.0	4.7
	9/2/2009	12.0	4.5	8.0
	10/23/2009	9.0	0.0	0.0
	4/19/2010	6.0	7.7	10.6
	6/15/2010	15.0	0.0	0.0
	10/7/2010	14.0	0.0	0.0
	5/16/2011	19.0	0.0	0.0
	6/9/2011	24.0	0.0	0.0
	9/22/2011	2.0	0.0	0.0
AS-01B				
	7/15/2009	2.0	9.0	10.0
	8/24/2009	10.0	0.0	0.0
	9/2/2009	14.0	3.0	5.7
	10/23/2009	8.5	0.0	0.0
	4/19/2010	11.0	0.0	0.0
	6/16/2010	20.0	0.0	0.0
	10/7/2010	14.0	0.0	0.0
	5/16/2011	17.0	0.0	0.0
	6/9/2011	21.0	0.0	0.0
AS-01B-R				
	9/22/2011	14.0	5.0	9.6
AS-01C				
	7/14/2009	7.5	0.0	0.0
	8/24/2009	13.0	0.0	0.0
	9/2/2009	15.0	3.0	5.9
	10/23/2009	11.0	0.0	0.0
	4/19/2010	5.0	11.6	15.2
	6/15/2010	16.0	0.0	0.0
	10/7/2010	10.0	0.0	0.0
	5/17/2011	13.0	0.0	0.0
	6/9/2011	20.0	0.0	0.0
AS-01C-R				
	9/22/2011	8.0	15.0	22.7
AS-01D				
	7/15/2009	NR	NR	NR
	8/24/2009	9.0	7.0	11.1
	9/2/2009	9.0	6.5	10.3
	9/11/2009	10.0	5.5	9.1
	10/23/2009	9.0	0.0	0.0
	4/19/2010	10.0	7.4	12.2

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-01D				
	6/15/2010	17.0	0.0	0.0
	10/7/2010	21.0	0.0	0.0
	5/18/2011	14.0	0.0	0.0
	6/8/2011	24.0	0.0	0.0
	9/22/2011	20.0	0.0	0.0
AS-01E				
	7/27/2009	3.0	9.8	11.5
	8/24/2009	5.0	10.0	13.1
	9/2/2009	5.0	8.0	10.5
	10/23/2009	6.5	7.4	10.5
	4/19/2010	3.0	8.1	9.6
	6/16/2010	12.0	6.1	10.8
	10/7/2010	10.0	4.5	7.4
	5/16/2011	13.0	0.0	0.0
	6/9/2011	NR	NR	NR
	9/22/2011	13.0	0.0	0.0
AS-02A				
	7/14/2009	6.0	7.5	10.4
	8/24/2009	11.0	2.5	4.3
	9/2/2009	10.0	6.5	10.7
	10/23/2009	8.0	4.6	7.0
	4/19/2010	10.0	3.7	6.1
	6/15/2010	7.0	4.8	6.9
	10/7/2010	9.0	2.0	3.2
	6/8/2011	9.0	6.0	9.5
	9/22/2011	12.0	3.0	5.3
AS-02B				
	7/15/2009	8.0	0.0	0.0
	8/24/2009	11.0	0.0	0.0
	9/2/2009	11.5	7.0	12.2
	10/23/2009	3.5	7.0	8.5
	4/19/2010	10.0	2.5	4.1
	6/16/2010	7.0	3.6	5.3
	10/7/2010	0.0	4.0	3.9
	5/16/2011	1.0	3.0	3.1
	5/17/2011	1.0	3.0	3.1
	6/9/2011	4.0	10.0	12.5
	9/22/2011	2.0	15.0	16.7
AS-02C				
	7/14/2009	8.0	0.0	0.0
	8/24/2009	13.0	0.0	0.0

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-02C				
	9/2/2009	16.0	3.0	6.1
	10/23/2009	7.0	0.0	0.0
	4/19/2010	6.0	8.1	11.2
	6/15/2010	7.0	3.4	4.9
	10/7/2010	6.0	0.0	0.0
	5/16/2011	10.0	3.0	4.9
	6/9/2011	12.0	3.0	5.3
	9/22/2011	15.0	2.0	4.0
AS-02D				
	7/15/2009	3.5	7.5	9.1
	8/24/2009	10.5	0.0	0.0
	9/2/2009	16.0	0.0	0.0
	9/11/2009	15.0	0.0	0.0
	10/23/2009	9.0	0.0	0.0
	4/19/2010	NR	0.0	0.0
	6/15/2010	17.0	0.0	0.0
	10/7/2010	20.0	0.0	0.0
	5/18/2011	15.0	0.0	0.0
	6/8/2011	23.0	0.0	0.0
	9/22/2011	21.0	0.0	0.0
AS-02E				
	7/27/2009	7.0	5.5	8.0
	8/24/2009	10.0	0.0	0.0
	9/2/2009	11.0	4.0	6.9
	10/23/2009	11.0	0.0	0.0
	4/19/2010	10.0	0.0	0.0
	6/16/2010	13.0	0.0	0.0
	10/7/2010	11.0	0.0	0.0
	5/16/2011	14.0	0.0	0.0
	6/9/2011	NR	NR	NR
	9/22/2011	14.0	0.0	0.0
AS-03A				
	7/14/2009	7.0	4.0	5.8
	8/24/2009	10.0	3.0	4.9
	9/2/2009	11.0	6.5	11.1
	10/23/2009	6.0	8.0	11.1
	4/19/2010	10.0	6.1	10.0
	6/15/2010	4.0	3.8	4.8
	10/7/2010	4.0	2.0	2.5
	5/16/2011	10.0	3.0	4.9
	6/9/2011	9.0	2.0	3.2
	9/22/2011	9.0	8.0	12.7

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-03B				
	7/15/2009	8.0	4.0	6.1
	8/24/2009	10.0	2.5	4.1
	9/2/2009	13.0	4.5	8.3
	10/23/2009	8.0	4.0	6.1
	4/19/2010	7.0	8.1	11.8
	6/16/2010	6.0	2.9	4.1
	7/30/2010	14.0	4.5	8.6
	10/7/2010	14.0	4.0	7.7
	5/16/2011	14.0	3.4	6.5
	6/9/2011	8.5	2.0	3.1
	9/22/2011	14.0	0.0	0.0
AS-03C				
	7/14/2009	5.5	9.0	12.1
	8/24/2009	11.0	7.0	12.0
	9/2/2009	8.0	10.0	15.2
	10/23/2009	10.0	0.0	0.0
	4/19/2010	8.0	6.4	9.6
	6/15/2010	5.0	3.9	5.1
	10/7/2010	4.0	0.0	0.0
	5/17/2011	8.0	3.0	4.5
	6/9/2011	10.0	3.0	4.9
	9/22/2011	17.0	3.0	6.3
AS-03D				
	7/15/2009	7.0	3.0	4.3
	8/24/2009	7.0	8.0	11.6
	9/2/2009	13.0	8.0	14.8
	9/11/2009	9.0	5.0	7.9
	10/23/2009	9.0	0.0	0.0
	4/19/2010	11.0	4.1	7.0
	6/15/2010	17.0	0.0	0.0
	10/7/2010	21.0	0.0	0.0
	5/18/2011	15.0	0.0	0.0
	6/8/2011	23.0	0.0	0.0
	9/22/2011	21.0	0.0	0.0
AS-03E				
	7/27/2009	2.0	10.0	11.1
	8/24/2009	4.0	8.0	10.0
	9/2/2009	6.0	7.0	9.7
	10/23/2009	6.5	7.0	9.9
	4/19/2010	6.0	9.1	12.6
	6/16/2010	13.0	0.0	0.0
	10/7/2010	15.0	0.0	0.0

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-03E				
	5/16/2011	13.0	0.0	0.0
	6/9/2011	NR	NR	NR
	9/22/2011	14.0	0.0	0.0
AS-04A				
	7/14/2009	7.0	4.5	6.5
	8/24/2009	9.0	7.5	11.9
	9/2/2009	6.5	9.0	12.7
	10/23/2009	6.5	5.7	8.0
	4/19/2010	9.0	9.6	15.2
	6/15/2010	17.0	0.0	0.0
	10/7/2010	15.0	0.0	0.0
	5/16/2011	18.0	0.0	0.0
	6/8/2011	20.0	0.0	0.0
	9/22/2011	10.0	0.0	0.0
AS-04B				
	7/15/2009	8.0	4.0	6.1
	8/24/2009	4.0	10.0	12.5
	9/2/2009	11.0	6.5	11.1
	10/23/2009	8.5	0.0	0.0
	4/19/2010	12.0	0.0	0.0
	6/16/2010	20.0	0.0	0.0
	10/7/2010	13.0	0.0	0.0
	5/16/2011	15.0	0.0	0.0
	6/9/2011	24.0	0.0	0.0
	9/22/2011	15.0	0.0	0.0
AS-04C				
	7/14/2009	5.0	7.5	9.9
	8/24/2009	12.0	6.0	10.7
	9/2/2009	15.0	5.0	9.9
	10/23/2009	10.0	5.8	9.5
	4/19/2010	12.0	5.1	9.1
	6/15/2010	13.0	5.5	10.1
	10/7/2010	15.0	9.5	18.8
	5/16/2011	11.0	3.0	5.1
	6/9/2011	16.0	8.0	16.4
	9/22/2011	16.0	7.0	14.3
AS-04D				
	7/15/2009	7.0	5.0	7.2
	8/24/2009	11.0	0.0	0.0
	9/2/2009	14.0	8.0	15.3
	9/11/2009	13.0	5.0	9.2

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-04D				
	10/23/2009	9.0	1.9	3.0
	4/19/2010	11.0	3.5	6.1
	6/15/2010	17.0	0.0	0.0
	10/7/2010	21.0	0.0	0.0
	5/18/2011	15.0	0.0	0.0
	6/8/2011	24.0	0.0	0.0
	9/22/2011	20.0	0.0	0.0
AS-04E				
	7/27/2009	8.0	5.0	7.6
	8/24/2009	10.0	4.5	7.4
	9/2/2009	10.0	6.0	9.9
	10/23/2009	10.0	3.6	6.0
	4/19/2010	10.0	5.0	8.3
	6/16/2010	10.0	7.1	11.7
	10/7/2010	8.0	6.0	9.1
	5/16/2011	11.0	7.0	12.0
	6/9/2011	NR	NR	NR
	9/22/2011	12.0	6.0	10.7
AS-05A				
	7/14/2009	5.0	8.0	10.5
	8/24/2009	11.0	0.0	0.0
	9/2/2009	13.0	0.0	0.0
	10/23/2009	9.0	0.0	0.0
	4/19/2010	11.0	3.5	6.1
	6/15/2010	16.0	0.0	0.0
	10/7/2010	11.0	11.0	18.9
	5/16/2011	15.0	10.5	20.8
	6/8/2011	11.0	11.0	18.9
	9/22/2011	10.0	8.0	13.2
AS-05B				
	7/15/2009	2.0	9.5	10.6
	8/24/2009	5.0	10.0	13.1
	9/2/2009	3.0	10.0	11.8
	10/23/2009	3.0	8.0	9.5
	4/19/2010	3.0	8.6	10.1
	6/16/2010	2.0	3.6	4.1
	7/30/2010	6.5	14.5	20.5
	10/7/2010	4.0	15.0	18.7
	5/17/2011	1.0	3.0	3.1
	6/9/2011	5.0	4.0	5.3
	9/22/2011	3.0	4.0	4.7

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-05C				
	7/14/2009	5.0	10.0	13.1
	8/24/2009	4.5	10.0	12.8
	9/2/2009	5.0	10.0	13.1
	10/23/2009	5.0	7.0	9.2
	4/19/2010	6.0	10.6	14.7
	6/15/2010	7.0	2.1	3.0
	10/7/2010	2.0	1.0	1.1
	5/17/2011	5.0	3.0	3.9
	6/9/2011	6.0	4.0	5.5
	9/22/2011	6.0	4.0	5.5
AS-05D				
	7/15/2009	3.0	8.0	9.5
	8/24/2009	6.0	9.0	12.4
	9/2/2009	4.0	10.0	12.5
	9/11/2009	6.0	9.5	13.1
	10/23/2009	3.5	7.0	8.5
	4/19/2010	5.0	12.5	16.4
	6/15/2010	2.0	3.6	4.1
	10/7/2010	2.0	3.0	3.3
	5/18/2011	5.0	3.0	3.9
	6/8/2011	4.5	3.8	4.8
	9/22/2011	6.0	8.0	11.1
AS-05E				
	7/27/2009	10.0	3.0	4.9
	8/24/2009	10.0	4.5	7.4
	9/2/2009	9.0	6.0	9.5
	10/23/2009	10.5	4.0	6.7
	4/19/2010	9.0	7.1	11.2
	6/16/2010	10.0	8.1	13.4
	10/7/2010	9.0	7.5	11.9
	5/16/2011	12.0	6.0	10.7
	6/9/2011	NR	NR	NR
	9/22/2011	12.0	5.0	8.9
AS-06A				
	7/14/2009	5.0	10.0	13.1
	8/24/2009	9.0	8.0	12.7
	9/2/2009	8.0	8.0	12.1
	10/23/2009	5.0	7.0	9.2
	4/19/2010	7.0	7.8	11.2
	6/15/2010	2.0	3.2	3.5
	10/7/2010	2.0	3.0	3.3
	5/16/2011	4.0	2.5	3.1

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-06A				
	6/9/2011	5.0	4.0	5.3
	9/22/2011	5.0	6.0	7.9
AS-06B				
	7/15/2009	5.0	9.5	12.5
	8/24/2009	8.0	9.0	13.6
	9/2/2009	8.0	8.0	12.1
	10/23/2009	5.0	5.5	7.2
	4/19/2010	6.0	7.3	10.1
	6/16/2010	2.0	2.3	2.5
	7/30/2010	7.0	14.7	21.3
	10/7/2010	3.0	15.0	17.7
	5/16/2011	5.0	3.0	3.9
	6/9/2011	4.0	4.0	5.0
	9/22/2011	6.0	5.0	6.9
AS-06C				
	7/14/2009	4.0	8.0	10.0
	8/24/2009	5.0	5.0	6.6
	9/2/2009	8.0	8.0	12.1
	10/23/2009	8.0	6.3	9.5
	4/19/2010	7.0	7.1	10.2
	6/15/2010	2.0	3.9	4.4
	10/7/2010	13.0	0.0	0.0
	5/16/2011	15.0	0.0	0.0
	6/9/2011	21.0	0.0	0.0
	9/22/2011	0.0	0.0	0.0
AS-06D				
	7/15/2009	5.5	7.0	9.4
	8/24/2009	8.0	8.5	12.9
	9/2/2009	6.5	9.0	12.7
	9/11/2009	6.0	8.5	11.7
	10/23/2009	6.5	5.7	8.0
	4/19/2010	7.0	7.1	10.2
	6/15/2010	17.0	0.0	0.0
	10/7/2010	21.0	0.0	0.0
	5/18/2011	15.0	0.0	0.0
	6/8/2011	23.0	0.0	0.0
	9/22/2011	20.0	0.0	0.0
AS-06E				
	7/27/2009	8.0	9.0	13.6
	8/24/2009	8.0	6.5	9.8
	9/2/2009	10.0	7.0	11.5

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-06E				
	10/23/2009	10.0	7.0	11.5
	4/19/2010	10.0	6.5	10.6
	6/16/2010	9.0	10.1	16.0
	10/7/2010	8.0	7.0	10.6
	5/16/2011	11.0	9.0	15.4
	6/9/2011	NR	NR	NR
	9/22/2011	11.0	7.0	12.0
AS-07A				
	7/14/2009	5.5	8.0	10.8
	8/24/2009	9.0	7.0	11.1
	9/2/2009	10.0	7.5	12.4
	10/23/2009	8.5	0.0	0.0
	4/19/2010	11.0	3.5	6.1
	6/15/2010	17.0	1.4	3.0
	10/7/2010	15.0	0.0	0.0
	5/16/2011	20.0	0.0	0.0
	6/9/2011	24.0	0.0	0.0
	9/22/2011	11.0	0.0	0.0
AS-07B				
	7/15/2009	2.0	8.0	8.9
	8/24/2009	9.5	5.5	8.9
	9/2/2009	13.0	3.0	5.5
	10/23/2009	8.5	0.0	0.0
	4/19/2010	11.0	0.0	0.0
	6/16/2010	20.0	0.0	0.0
	10/7/2010	14.0	0.0	0.0
	5/17/2011	20.0	0.0	0.0
	6/9/2011	24.0	0.0	0.0
	9/22/2011	15.0	0.0	0.0
AS-07C				
	7/14/2009	7.0	0.0	0.0
	8/24/2009	6.0	0.0	0.0
	9/2/2009	16.0	0.0	0.0
	10/23/2009	9.0	0.0	0.0
	4/19/2010	NR	0.0	0.0
	6/15/2010	16.0	0.0	0.0
	10/7/2010	14.0	18.0	34.5
	5/16/2011	15.0	0.0	0.0
	6/9/2011	20.0	0.0	0.0
	9/22/2011	17.0	0.0	0.0
AS-07D				

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-07D				
	7/15/2009	7.0	5.5	8.0
	8/24/2009	10.0	3.0	4.9
	9/2/2009	10.0	6.0	9.9
	9/11/2009	10.0	5.0	8.2
	10/23/2009	9.0	0.0	0.0
	4/19/2010	11.0	3.5	6.1
	6/15/2010	5.0	3.5	4.6
	10/7/2010	7.0	3.0	4.3
	5/18/2011	14.0	3.0	5.7
	6/8/2011	11.0	15.0	25.7
	9/22/2011	16.0	10.0	20.5
AS-07E				
	7/27/2009	7.5	8.5	12.6
	8/24/2009	5.0	10.0	13.1
	9/2/2009	8.0	8.0	12.1
	10/23/2009	10.0	8.5	14.0
	4/19/2010	4.5	5.9	7.6
	6/16/2010	13.0	0.0	0.0
	10/7/2010	11.0	0.0	0.0
	5/16/2011	14.0	0.0	0.0
	6/9/2011	NR	NR	NR
	9/22/2011	14.0	0.0	0.0
AS-08A				
	7/14/2009	7.0	5.5	8.0
	8/24/2009	11.0	0.0	0.0
	9/2/2009	14.0	0.0	0.0
	10/23/2009	8.0	2.0	3.0
	4/19/2010	11.0	3.5	6.1
	6/15/2010	17.0	0.0	0.0
	10/7/2010	0.0	0.0	0.0
	5/16/2011	20.0	0.0	0.0
	6/8/2011	20.0	0.0	0.0
	9/22/2011	13.0	0.0	0.0
AS-08B				
	7/15/2009	8.0	3.0	4.5
	8/24/2009	10.5	3.0	5.0
	9/2/2009	12.0	5.0	8.9
	10/23/2009	9.0	6.0	9.5
	4/19/2010	10.0	3.7	6.1
	6/16/2010	14.0	10.0	19.3
	7/30/2010	14.0	10.0	19.2
	10/7/2010	6.0	0.0	0.0

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-08B				
	5/16/2011	13.0	3.0	5.5
	6/9/2011	14.0	9.0	17.2
	9/22/2011	13.0	6.0	11.1
AS-08C				
	7/14/2009	4.0	7.5	9.4
	8/24/2009	6.0	0.0	0.0
	9/2/2009	12.0	7.0	12.5
	10/23/2009	6.0	4.0	5.5
	4/19/2010	13.0	2.7	5.1
	6/15/2010	10.0	2.8	4.7
	10/7/2010	6.0	0.0	0.0
	5/17/2011	10.0	3.0	4.9
	6/9/2011	11.0	9.0	15.4
	9/22/2011	11.0	10.0	17.2
AS-08D				
	7/15/2009	4.0	8.5	10.6
	8/24/2009	9.5	5.5	8.9
	9/2/2009	8.0	6.5	9.8
	9/11/2009	11.5	7.0	12.2
	10/23/2009	7.0	6.0	8.7
	4/19/2010	11.0	3.5	6.1
	6/15/2010	17.0	0.0	0.0
	10/7/2010	21.0	0.0	0.0
	5/18/2011	15.0	0.0	0.0
	6/8/2011	25.0	0.0	0.0
	9/22/2011	14.0	0.0	0.0
AS-08E				
	7/27/2009	6.0	8.5	11.7
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.0	10.0	12.5
	10/23/2009	4.0	11.0	13.7
	4/19/2010	3.5	8.3	10.1
	6/16/2010	3.0	8.6	10.1
	10/7/2010	8.0	9.5	14.4
	5/16/2011	6.0	7.0	9.7
	6/9/2011	NR	NR	NR
	9/22/2011	4.0	6.0	7.5
AS-09A				
	7/14/2009	7.0	6.0	8.7
	8/24/2009	10.0	6.0	9.9
	9/2/2009	11.0	6.0	10.3

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-09A				
	10/23/2009	7.5	3.9	5.8
	4/19/2010	10.0	6.1	10.0
	6/16/2010	6.0	4.0	5.6
	10/7/2010	10.0	0.0	0.0
	5/16/2011	18.0	2.5	5.5
	6/9/2011	19.0	2.5	5.6
	9/22/2011	12.0	0.0	0.0
AS-09B				
	7/15/2009	6.0	3.0	4.1
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.0	10.0	12.5
	10/23/2009	5.0	7.0	9.2
	4/19/2010	4.0	7.7	9.6
	6/16/2010	2.5	4.0	4.6
	10/7/2010	3.0	0.0	0.0
	5/16/2011	3.0	3.0	3.5
	6/9/2011	5.0	4.0	5.3
	9/22/2011	7.0	11.0	15.9
AS-09C				
	7/14/2009	7.0	7.5	10.9
	8/24/2009	10.0	6.5	10.7
	9/2/2009	10.0	7.0	11.5
	10/23/2009	7.0	4.0	5.8
	4/19/2010	12.0	4.0	7.2
	6/15/2010	7.0	3.5	5.1
	10/7/2010	8.0	0.0	0.0
	5/17/2011	15.0	3.0	5.9
	6/9/2011	10.0	3.5	5.8
	9/22/2011	13.0	0.0	0.0
AS-09D				
	7/15/2009	3.5	10.0	12.1
	8/24/2009	4.0	11.8	14.7
	9/2/2009	NR	NR	NR
	9/11/2009	3.0	9.5	11.2
	10/23/2009	2.0	0.0	0.0
	4/19/2010	4.0	8.1	10.1
	6/15/2010	2.0	3.1	3.4
	10/7/2010	2.0	2.5	2.8
	5/18/2011	4.0	3.0	3.7
	6/8/2011	4.0	4.0	5.0
AS-10A				

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-10A				
	7/14/2009	5.0	8.5	11.2
	8/24/2009	7.0	10.0	14.5
	9/2/2009	5.0	9.0	11.8
	10/23/2009	5.0	6.2	8.2
	4/19/2010	6.0	7.1	9.8
	6/16/2010	7.0	14.7	21.3
	10/7/2010	10.0	11.0	18.1
	5/16/2011	15.0	10.0	19.8
	6/9/2011	6.0	3.0	4.1
	9/22/2011	10.0	4.5	7.4
AS-10B				
	7/15/2009	4.5	10.0	12.8
	8/24/2009	5.0	10.0	13.1
	9/2/2009	4.5	9.0	11.5
	10/23/2009	3.0	7.0	8.3
	4/19/2010	5.0	9.6	12.7
	6/16/2010	6.0	17.3	23.9
	7/30/2010	6.0	17.3	23.9
	10/7/2010	6.0	14.5	20.0
	5/17/2011	7.0	16.0	23.2
	6/9/2011	5.0	4.0	5.3
	9/22/2011	5.0	8.0	10.5
AS-10C				
	7/14/2009	4.0	9.5	11.9
	8/24/2009	10.0	4.0	6.6
	9/2/2009	13.5	6.5	12.2
	10/23/2009	7.5	3.6	5.4
	4/19/2010	10.0	3.1	5.1
	6/15/2010	15.0	5.6	11.1
	10/7/2010	16.0	5.0	10.2
	5/16/2011	16.0	0.0	0.0
	6/9/2011	19.0	0.0	0.0
	9/22/2011	16.0	0.0	0.0
AS-10D				
	7/15/2009	4.0	10.0	12.5
	8/24/2009	8.0	8.0	12.1
	9/2/2009	5.0	8.0	10.5
	9/11/2009	7.0	7.0	10.1
	10/23/2009	4.5	6.0	7.7
	4/19/2010	8.0	10.2	15.4
	6/15/2010	2.0	4.1	4.6
	10/7/2010	3.5	2.5	3.0

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-10D				
	5/18/2011	6.0	3.0	4.1
	6/8/2011	6.0	4.0	5.5
	9/22/2011	6.0	4.0	5.5
AS-11A				
	7/14/2009	7.0	4.5	6.5
	8/24/2009	11.0	0.0	0.0
	9/2/2009	11.0	7.0	12.0
	10/23/2009	8.8	0.0	0.0
	4/19/2010	10.5	0.0	0.0
	6/16/2010	17.0	3.4	7.2
	10/7/2010	15.0	0.0	0.0
	5/16/2011	18.5	0.0	0.0
	6/8/2011	20.0	0.0	0.0
	9/22/2011	13.0	0.0	0.0
AS-11B				
	7/15/2009	8.0	4.5	6.8
	8/24/2009	9.5	7.0	11.3
	9/2/2009	11.0	7.0	12.0
	10/23/2009	7.5	5.2	7.7
	4/19/2010	4.0	8.1	10.1
	6/16/2010	16.5	9.0	18.6
	10/7/2010	14.0	0.0	0.0
	5/16/2011	22.0	0.0	0.0
	6/9/2011	20.0	0.0	0.0
	9/22/2011	15.0	0.0	0.0
AS-11C				
	7/14/2009	5.0	7.5	9.9
	8/24/2009	10.0	5.5	9.1
	9/2/2009	8.0	8.0	12.1
	10/23/2009	8.0	0.0	0.0
	4/19/2010	5.5	7.9	10.6
	6/15/2010	14.0	10.6	20.3
	10/7/2010	11.0	5.5	9.4
	5/17/2011	14.0	3.0	5.7
	6/9/2011	19.0	5.0	11.2
	9/22/2011	15.0	3.0	5.9
AS-11D				
	7/15/2009	8.0	0.0	0.0
	8/24/2009	11.0	0.0	0.0
	9/2/2009	15.5	0.0	0.0
	9/11/2009	15.0	0.0	0.0

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-11D				
	10/23/2009	8.5	0.0	0.0
	4/19/2010	11.0	4.1	7.0
	6/15/2010	16.0	8.5	17.4
	10/7/2010	19.0	6.0	13.5
	5/18/2011	15.0	0.0	0.0
	6/8/2011	23.0	5.0	12.6
	9/22/2011	19.0	0.0	0.0
AS-12A				
	7/14/2009	8.0	4.5	6.8
	8/24/2009	11.0	2.5	4.3
	9/2/2009	11.0	5.5	9.4
	10/23/2009	8.0	4.0	6.1
	4/19/2010	NR	0.0	0.0
	6/15/2010	10.0	3.4	5.6
	10/7/2010	9.0	0.0	0.0
	5/16/2011	14.0	3.0	5.7
	6/9/2011	19.0	0.0	0.0
	9/22/2011	12.0	0.0	0.0
AS-12B				
	7/15/2009	8.0	3.0	4.5
	8/24/2009	10.0	4.0	6.6
	9/2/2009	10.0	6.0	9.9
	10/23/2009	10.0	0.0	0.0
	4/19/2010	10.0	2.5	4.1
	6/16/2010	14.0	11.1	21.3
	10/7/2010	10.0	10.0	16.5
	5/17/2011	11.0	3.0	5.1
	6/9/2011	13.0	11.0	20.3
	9/22/2011	13.0	7.0	12.9
AS-12C				
	7/14/2009	5.5	5.5	7.4
	8/24/2009	8.0	9.0	13.6
	9/2/2009	7.0	9.0	13.0
	10/23/2009	5.5	5.0	6.8
	4/19/2010	5.5	7.9	10.6
	6/15/2010	10.0	12.2	20.1
	10/7/2010	8.0	12.0	18.2
	5/16/2011	8.0	5.0	7.6
	6/9/2011	11.0	11.0	18.9
	9/22/2011	10.0	10.5	17.3
AS-12D				

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-12D				
	7/15/2009	5.5	9.0	12.1
	8/24/2009	9.0	7.0	11.1
	9/2/2009	5.0	7.5	9.9
	9/11/2009	15.0	0.0	0.0
	10/23/2009	6.5	5.7	8.0
	4/19/2010	10.0	3.7	6.1
	6/15/2010	15.0	9.1	18.0
	10/7/2010	19.0	0.0	0.0
	5/18/2011	16.0	0.0	0.0
	6/8/2011	24.0	0.0	0.0
	9/22/2011	19.0	0.0	0.0
AS-13A				
	7/14/2009	4.5	9.5	12.2
	8/24/2009	3.0	10.0	11.8
	9/2/2009	NR	NR	NR
	10/23/2009	2.0	6.0	6.7
	4/19/2010	5.0	12.2	16.0
	6/15/2010	1.5	2.3	2.5
	10/7/2010	3.0	0.0	0.0
	5/16/2011	18.0	8.0	17.5
	6/9/2011	10.0	3.0	4.9
AS-13B				
	7/15/2009	2.0	10.0	11.1
	8/24/2009	7.0	5.0	7.2
	9/2/2009	8.5	7.5	11.6
	10/23/2009	5.0	6.5	8.5
	4/19/2010	4.0	8.1	10.1
	6/16/2010	1.5	3.9	4.2
	7/30/2010	9.0	15.0	23.7
	10/7/2010	12.0	13.0	23.2
	5/17/2011	7.0	5.0	7.2
	6/9/2011	5.0	3.0	3.9
	9/22/2011	0.0	0.0	0.0
AS-13C				
	7/14/2009	8.0	7.5	11.4
	8/24/2009	5.0	4.0	5.3
	9/2/2009	13.0	6.5	12.0
	10/23/2009	10.0	0.0	0.0
	4/19/2010	13.0	3.8	7.1
	6/15/2010	19.0	2.2	4.9
	10/7/2010	18.0	0.0	0.0
	5/16/2011	15.0	0.0	0.0

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-13C				
	6/9/2011	18.0	0.0	0.0
	9/22/2011	15.0	0.0	0.0
AS-13D				
	7/15/2009	4.5	10.0	12.8
	8/24/2009	2.0	10.0	11.1
	9/2/2009	4.0	8.0	10.0
	9/11/2009	5.0	9.0	11.8
	10/23/2009	3.0	7.0	8.3
	4/19/2010	5.0	8.1	10.6
	6/15/2010	2.0	4.1	4.6
	10/7/2010	2.0	0.0	0.0
	5/18/2011	4.0	3.0	3.7
	6/8/2011	4.0	4.0	5.0
	9/22/2011	5.0	4.0	5.3
AS-14A				
	7/14/2009	2.0	10.0	11.1
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.0	9.0	11.2
	10/23/2009	3.0	7.6	9.0
	4/19/2010	6.0	12.1	16.7
	6/16/2010	2.5	4.0	4.6
	10/7/2010	2.0	2.5	2.8
	5/16/2011	2.0	2.5	2.8
	6/9/2011	6.5	4.0	5.7
	9/22/2011	4.0	4.5	5.6
AS-14B				
	7/15/2009	3.5	8.0	9.7
	8/24/2009	6.0	10.3	14.2
	9/2/2009	8.0	8.0	12.1
	10/23/2009	4.5	6.9	8.9
	4/19/2010	6.5	11.1	15.7
	6/16/2010	3.0	4.0	4.7
	7/30/2010	13.0	9.5	17.6
	10/7/2010	10.0	8.5	14.0
	5/16/2011	23.0	0.0	0.0
	5/17/2011	5.0	3.0	3.9
	6/9/2011	6.0	3.0	4.1
	9/22/2011	9.0	5.0	7.9
AS-14C				
	7/14/2009	4.0	10.0	12.5
	8/24/2009	3.0	5.5	6.5

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-14C				
	9/2/2009	3.0	6.0	7.1
	10/23/2009	6.0	10.0	13.8
	4/19/2010	5.0	11.2	14.7
	6/15/2010	8.0	14.4	21.8
	10/7/2010	14.0	11.0	21.1
	5/16/2011	14.0	7.0	13.4
	6/9/2011	9.0	3.5	5.5
	9/22/2011	5.0	4.0	5.3
AS-14D				
	7/15/2009	4.0	10.0	12.5
	8/24/2009	3.0	10.0	11.8
	9/2/2009	3.5	8.0	9.7
	9/11/2009	5.0	8.0	10.5
	10/23/2009	5.0	5.0	6.6
	4/19/2010	5.0	8.1	10.6
	6/15/2010	15.0	7.7	15.2
	10/7/2010	20.0	0.0	0.0
	5/18/2011	16.0	0.0	0.0
	6/8/2011	22.0	0.0	0.0
	9/22/2011	18.0	0.0	0.0
AS-15A				
	7/14/2009	4.0	9.0	11.2
	8/24/2009	4.0	10.0	12.5
	9/2/2009	3.0	9.5	11.2
	10/23/2009	3.0	8.0	9.5
	4/19/2010	4.0	8.1	10.1
	6/16/2010	6.0	18.3	25.3
	10/7/2010	10.0	12.0	19.8
	5/16/2011	11.0	12.5	21.4
	6/9/2011	8.0	11.0	16.7
	9/22/2011	9.0	10.0	15.8
AS-15B				
	7/15/2009	3.5	9.5	11.5
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.0	10.0	12.5
	10/23/2009	5.0	8.0	10.5
	4/19/2010	5.0	11.2	14.7
	6/16/2010	4.5	16.6	21.3
	10/7/2010	3.0	15.0	17.7
	5/16/2011	5.0	15.0	19.7
	6/9/2011	5.0	14.0	18.4
	9/22/2011	5.0	12.0	15.8

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-15C				
	7/14/2009	4.0	10.0	12.5
	8/24/2009	4.0	9.5	11.9
	9/2/2009	4.0	9.0	11.2
	10/23/2009	3.0	6.0	7.1
	4/19/2010	4.0	8.1	10.1
	6/15/2010	4.0	15.4	19.3
	10/7/2010	4.0	16.0	20.0
	5/17/2011	5.0	15.0	19.7
	6/9/2011	5.0	12.0	15.8
	9/22/2011	5.0	11.0	14.5
AS-15D				
	7/15/2009	4.0	10.0	12.5
	8/24/2009	9.0	7.0	11.1
	9/2/2009	5.0	8.0	10.5
	9/11/2009	5.0	8.0	10.5
	10/23/2009	4.0	5.6	7.0
	4/19/2010	7.0	11.1	16.1
	6/15/2010	16.0	4.9	10.1
	10/7/2010	21.0	0.0	0.0
	5/18/2011	16.0	0.0	0.0
	6/8/2011	25.0	0.0	0.0
	9/22/2011	15.0	0.0	0.0
AS-16A				
	7/14/2009	4.0	10.0	12.5
	8/24/2009	3.0	10.0	11.8
	9/2/2009	5.0	9.0	11.8
	10/23/2009	4.0	7.0	8.7
	4/19/2010	3.5	10.0	12.2
	6/16/2010	16.0	5.0	10.2
	10/7/2010	16.0	0.0	0.0
	5/16/2011	20.0	2.5	5.8
	6/8/2011	19.0	0.0	0.0
	9/22/2011	13.0	0.0	0.0
AS-16B				
	7/15/2009	2.5	9.0	10.3
	8/24/2009	10.5	3.5	5.9
	9/2/2009	13.0	4.5	8.3
	10/23/2009	10.0	0.0	0.0
	4/19/2010	11.5	6.1	10.6
	6/16/2010	20.0	4.3	10.0
	10/7/2010	11.0	0.0	0.0
	5/17/2011	16.0	0.0	0.0

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-16B				
	6/9/2011	24.0	0.0	0.0
	9/22/2011	14.0	0.0	0.0
AS-16C				
	7/14/2009	4.0	9.0	11.2
	8/24/2009	5.5	9.5	12.8
	9/2/2009	10.0	7.0	11.5
	10/23/2009	6.5	4.0	5.7
	4/19/2010	9.0	6.1	9.6
	6/15/2010	12.0	10.1	18.0
	10/7/2010	10.0	18.0	29.7
	5/17/2011	13.5	6.0	11.3
	6/9/2011	17.0	6.0	12.7
	9/22/2011	14.0	4.0	7.7
AS-16D				
	7/15/2009	6.0	7.0	9.7
	8/24/2009	10.0	3.0	4.9
	9/2/2009	10.0	6.0	9.9
	9/11/2009	11.0	8.0	13.7
	10/23/2009	7.0	3.5	5.0
	4/19/2010	8.0	7.1	10.7
	6/15/2010	11.0	12.2	20.9
	10/7/2010	14.0	13.0	24.9
	5/18/2011	9.0	5.0	7.9
	6/8/2011	12.0	8.5	15.1
	9/22/2011	15.0	10.0	19.8
AS-17A				
	7/14/2009	6.0	7.5	10.4
	8/24/2009	10.0	5.0	8.2
	9/2/2009	12.0	4.0	7.1
	10/23/2009	8.8	0.0	0.0
	4/19/2010	14.0	4.5	8.6
	6/16/2010	6.0	4.0	5.6
	10/7/2010	5.0	0.0	0.0
	5/16/2011	3.0	2.5	3.0
	6/9/2011	4.5	2.5	3.2
	9/22/2011	11.0	4.5	7.7
AS-17B				
	7/15/2009	4.0	7.5	9.4
	8/24/2009	10.5	0.0	0.0
	9/2/2009	13.0	3.0	5.5
	10/23/2009	8.5	0.0	0.0

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-17B				
	4/19/2010	14.0	0.0	0.0
	6/16/2010	20.0	4.3	10.0
	10/7/2010	14.0	0.0	0.0
	5/16/2011	16.0	0.0	0.0
	6/9/2011	22.0	0.0	0.0
	9/22/2011	15.0	0.0	0.0
AS-17C				
	7/14/2009	8.0	5.0	7.6
	8/24/2009	9.5	8.0	12.9
	9/2/2009	8.0	8.0	12.1
	10/23/2009	6.0	5.0	6.9
	4/19/2010	11.0	6.1	10.4
	6/15/2010	11.0	12.2	20.9
	10/7/2010	9.0	12.5	19.8
	5/16/2011	12.0	9.0	16.0
	6/9/2011	10.0	3.5	5.8
	9/22/2011	14.0	3.0	5.7
AS-17D				
	7/15/2009	4.0	8.5	10.6
	8/24/2009	7.0	8.0	11.6
	9/2/2009	13.0	4.5	8.3
	9/11/2009	15.0	4.0	7.9
	10/23/2009	3.0	0.0	0.0
	4/19/2010	10.0	7.4	12.2
	6/15/2010	4.0	2.4	3.0
	10/7/2010	5.0	3.0	3.9
	5/18/2011	15.0	6.0	11.9
	6/8/2011	8.0	3.5	5.3
	9/22/2011	10.0	3.5	5.8
AS-18A				
	7/14/2009	4.0	10.0	12.5
	8/24/2009	3.0	10.0	11.8
	9/2/2009	4.0	9.5	11.9
	10/23/2009	3.5	7.2	8.7
	4/19/2010	4.0	8.1	10.1
	6/16/2010	6.0	16.5	22.8
	10/7/2010	6.0	17.0	23.5
	5/16/2011	18.0	9.0	19.6
	6/9/2011	5.0	4.0	5.3
	9/22/2011	4.0	4.0	5.0
AS-18B				

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-18B				
	7/15/2009	4.0	10.0	12.5
	8/24/2009	3.0	10.0	11.8
	9/2/2009	6.0	9.0	12.4
	10/23/2009	8.0	0.0	0.0
	4/19/2010	12.0	6.3	11.1
	6/16/2010	19.5	4.4	10.1
	10/7/2010	12.0	0.0	0.0
	5/17/2011	17.0	0.0	0.0
	6/9/2011	22.0	0.0	0.0
	9/22/2011	15.0	0.0	0.0
AS-18C				
	7/14/2009	3.5	9.0	10.9
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.5	9.0	11.5
	10/23/2009	6.0	4.0	5.5
	4/19/2010	13.0	6.0	11.1
	6/15/2010	16.0	2.4	4.9
	10/7/2010	18.0	0.0	0.0
	5/17/2011	16.0	0.0	0.0
	6/9/2011	21.0	0.0	0.0
	9/22/2011	15.0	0.0	0.0
AS-18D				
	7/15/2009	3.0	10.0	11.8
	8/24/2009	5.0	10.0	13.1
	9/2/2009	4.0	8.0	10.0
	9/11/2009	5.0	10.0	13.1
	10/23/2009	4.0	6.4	8.0
	4/19/2010	3.0	9.1	10.7
	6/15/2010	6.0	15.4	21.3
	10/7/2010	9.0	15.5	24.5
	5/18/2011	9.0	13.0	20.6
	6/8/2011	4.0	4.0	5.0
	9/22/2011	4.0	4.5	5.6
AS-19A				
	7/14/2009	5.0	9.0	11.8
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.0	10.0	12.5
	10/23/2009	3.0	8.0	9.5
	4/19/2010	6.0	11.1	15.4
	6/16/2010	9.5	16.3	26.3
	10/7/2010	10.0	16.0	26.4
	5/16/2011	9.0	13.0	20.6

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-19A				
	6/9/2011	9.0	11.0	17.4
	9/22/2011	9.0	10.0	15.8
AS-19B				
	7/15/2009	2.0	9.5	10.6
	8/24/2009	2.0	10.0	11.1
	9/2/2009	4.5	10.0	12.8
	10/23/2009	6.5	5.7	8.0
	4/19/2010	4.0	7.7	9.6
	6/16/2010	20.0	4.3	10.0
	10/7/2010	14.0	0.0	0.0
	5/17/2011	17.0	0.0	0.0
	6/9/2011	22.0	0.0	0.0
	9/22/2011	15.0	0.0	0.0
AS-19C				
	7/14/2009	5.5	6.5	8.8
	8/24/2009	7.5	10.0	14.8
	9/2/2009	7.0	8.0	11.6
	10/23/2009	8.0	4.0	6.0
	4/19/2010	12.0	5.7	10.1
	6/15/2010	15.0	4.1	8.1
	10/7/2010	18.0	0.0	0.0
	5/16/2011	14.0	0.0	0.0
	6/9/2011	18.0	0.0	0.0
	9/22/2011	16.0	0.0	0.0
AS-19D				
	7/15/2009	5.0	10.0	13.1
	8/24/2009	3.0	10.0	11.8
	9/2/2009	3.0	8.5	10.0
	9/11/2009	3.0	9.0	10.6
	10/23/2009	5.0	5.0	6.6
	4/19/2010	11.0	6.5	11.1
	6/15/2010	15.0	6.4	12.7
	10/7/2010	19.0	7.5	16.9
	5/18/2011	15.0	4.0	7.9
	6/8/2011	22.0	5.0	12.2
	9/22/2011	16.0	4.0	8.2
AS-20A				
	7/14/2009	5.5	9.0	12.1
	8/24/2009	8.0	9.0	13.6
	9/2/2009	12.0	3.5	6.2
	10/23/2009	8.0	0.0	0.0

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-20A				
	4/19/2010	13.0	4.4	8.1
	6/16/2010	16.0	4.0	8.1
	10/7/2010	3.0	16.5	19.5
	5/16/2011	2.0	18.5	20.6
	6/8/2011	2.0	15.0	16.7
	9/22/2011	2.0	15.0	16.7
AS-20B				
	7/15/2009	3.0	9.0	10.6
	8/24/2009	5.0	10.0	13.1
	9/2/2009	8.0	8.0	12.1
	10/23/2009	7.0	6.5	9.4
	4/19/2010	13.0	6.0	11.1
	6/16/2010	19.5	9.3	21.3
	10/7/2010	12.0	5.0	8.9
	5/16/2011	14.0	4.5	8.6
	6/9/2011	22.0	0.0	0.0
	9/22/2011	10.0	0.0	0.0
AS-20C				
	7/14/2009	4.0	10.0	12.5
	8/24/2009	11.0	5.5	9.4
	9/2/2009	15.0	4.0	7.9
	10/23/2009	7.0	5.0	7.2
	4/19/2010	12.0	6.1	10.8
	6/15/2010	7.0	4.1	5.9
	10/7/2010	7.0	0.0	0.0
	5/17/2011	11.0	3.0	5.1
	6/9/2011	15.0	8.0	15.9
	9/22/2011	14.0	6.0	11.5
AS-20D				
	7/15/2009	4.5	10.0	12.8
	8/24/2009	7.0	10.0	14.5
	9/2/2009	6.5	7.0	9.9
	9/11/2009	12.0	7.5	13.4
	10/23/2009	8.0	0.0	0.0
	4/19/2010	6.0	8.1	11.2
	6/15/2010	16.0	4.9	10.1
	10/7/2010	18.0	3.5	7.6
	5/18/2011	16.0	0.0	0.0
	6/8/2011	22.0	4.0	9.8
	9/22/2011	14.0	0.0	0.0
AS-21A				

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-21A				
	7/14/2009	3.0	10.0	11.8
	8/24/2009	7.0	10.0	14.5
	9/2/2009	10.0	7.0	11.5
	10/23/2009	8.0	0.0	0.0
	4/19/2010	12.0	5.1	9.0
	6/16/2010	15.0	7.7	15.2
	10/7/2010	12.0	9.0	16.0
	5/16/2011	18.0	10.0	21.8
	6/9/2011	5.0	4.0	5.3
	9/22/2011	2.0	4.0	4.5
AS-21B				
	7/15/2009	4.0	8.0	10.0
	8/24/2009	9.0	5.5	8.7
	9/2/2009	12.5	3.0	5.4
	10/23/2009	8.0	0.0	0.0
	4/19/2010	14.0	4.2	8.1
	6/16/2010	19.5	4.4	10.0
	10/7/2010	11.0	0.0	0.0
	5/17/2011	16.0	0.0	0.0
	6/9/2011	22.0	0.0	0.0
	9/22/2011	15.0	0.0	0.0
AS-21C				
	7/14/2009	9.0	5.0	7.9
	8/24/2009	10.0	6.5	10.7
	9/2/2009	15.0	4.0	7.9
	10/23/2009	8.5	1.9	3.0
	4/19/2010	14.0	0.0	0.0
	6/15/2010	16.0	2.4	4.9
	10/7/2010	15.0	0.0	0.0
	5/16/2011	16.0	0.0	0.0
	6/9/2011	18.0	0.0	0.0
	9/22/2011	16.0	0.0	0.0
AS-21D				
	7/15/2009	6.0	6.5	9.0
	8/24/2009	10.5	0.0	0.0
	9/2/2009	12.0	5.5	9.8
	9/11/2009	12.0	7.0	12.5
	10/23/2009	7.0	6.0	8.7
	4/19/2010	11.0	6.1	10.4
	6/15/2010	16.0	5.4	11.1
	10/7/2010	20.0	4.5	10.4
	5/18/2011	16.0	3.0	6.1

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-21D				
	6/8/2011	24.0	0.0	0.0
	9/22/2011	18.0	0.0	0.0
AS-22A				
	7/14/2009	2.5	10.0	11.5
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.0	9.0	11.2
	10/23/2009	3.0	7.0	8.3
	4/19/2010	4.0	12.3	15.4
	6/16/2010	5.0	15.4	20.3
	10/7/2010	6.0	15.0	20.7
	5/16/2011	6.0	16.5	22.8
	6/9/2011	6.0	11.0	15.2
	9/22/2011	5.0	13.0	17.1
AS-22B				
	7/15/2009	4.5	10.0	12.8
	8/24/2009	10.0	4.0	6.6
	9/2/2009	12.5	3.5	6.4
	10/23/2009	10.0	0.0	0.0
	4/19/2010	14.0	0.0	0.0
	6/16/2010	19.5	4.4	10.0
	10/7/2010	14.0	0.0	0.0
	5/16/2011	17.0	0.0	0.0
	9/22/2011	15.0	0.0	0.0
AS-22C				
	7/14/2009	4.5	10.0	12.8
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.0	9.0	11.2
	10/23/2009	3.0	6.0	7.1
	4/19/2010	6.0	10.1	14.0
	6/15/2010	9.0	13.5	21.3
	10/7/2010	12.0	10.0	17.8
	5/17/2011	13.0	8.0	14.8
	6/9/2011	4.0	4.0	5.0
	9/22/2011	5.0	3.0	3.9
AS-22D				
	7/15/2009	3.0	10.0	11.8
	8/24/2009	3.0	10.0	11.8
	9/2/2009	3.0	9.0	10.6
	9/11/2009	2.5	10.0	11.5
	10/23/2009	3.0	6.8	8.0
	4/19/2010	3.0	13.2	15.6

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-22D				
	6/15/2010	4.0	15.4	19.3
	10/7/2010	6.0	17.5	24.2
	5/18/2011	15.0	7.0	13.9
	6/8/2011	6.0	14.0	19.3
	9/22/2011	5.0	13.0	17.1
AS-23A				
	7/14/2009	4.0	8.0	10.0
	8/24/2009	7.0	10.0	14.5
	9/2/2009	6.0	9.0	12.4
	10/23/2009	3.0	5.1	6.0
	4/19/2010	6.5	8.1	11.4
	6/15/2010	12.0	12.2	21.7
	10/7/2010	2.0	16.5	18.4
	5/16/2011	3.0	19.0	22.4
	6/9/2011	3.0	13.0	15.4
	9/22/2011	3.0	13.0	15.4
AS-23B				
	7/15/2009	5.0	10.0	13.1
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.5	9.0	11.5
	10/23/2009	5.0	6.5	8.5
	4/19/2010	5.0	13.2	17.3
	6/16/2010	7.0	17.3	25.1
	10/7/2010	7.0	11.5	16.7
	5/17/2011	10.0	12.0	19.8
	6/9/2011	11.0	12.0	20.6
	9/22/2011	12.0	9.0	16.0
AS-23C				
	7/14/2009	3.5	10.0	12.1
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.5	9.0	11.5
	10/23/2009	6.0	6.0	8.3
	4/19/2010	4.0	7.7	9.6
	6/15/2010	16.0	2.4	4.9
	10/7/2010	18.0	0.0	0.0
	5/17/2011	16.0	0.0	0.0
	6/9/2011	18.0	0.0	0.0
	9/22/2011	16.0	0.0	0.0
AS-23D				
	7/15/2009	4.5	9.0	11.5
	8/24/2009	8.0	10.0	15.2

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-23D				
	9/2/2009	7.0	5.5	8.0
	9/11/2009	14.0	3.0	5.7
	10/23/2009	8.5	0.0	0.0
	4/19/2010	12.0	3.7	6.6
	6/15/2010	16.0	4.9	10.0
	10/7/2010	21.0	0.0	0.0
	5/18/2011	16.0	0.0	0.0
	6/8/2011	22.0	0.0	0.0
	9/22/2011	18.0	0.0	0.0
AS-24A				
	7/14/2009	6.0	4.5	6.2
	8/24/2009	11.0	0.0	0.0
	9/2/2009	11.5	4.5	7.9
	10/23/2009	5.0	0.0	0.0
	4/19/2010	15.0	4.6	9.1
	6/15/2010	17.0	3.4	7.2
	10/7/2010	10.0	0.0	0.0
	5/16/2011	21.0	0.0	0.0
	6/9/2011	22.0	0.0	0.0
	9/22/2011	14.0	0.0	0.0
AS-24B				
	7/15/2009	3.0	9.0	10.6
	8/24/2009	8.0	10.0	15.2
	9/2/2009	8.0	8.0	12.1
	10/23/2009	6.0	5.4	7.5
	4/19/2010	9.0	6.1	9.6
	6/16/2010	15.0	12.8	25.3
	10/7/2010	7.0	11.5	16.7
	5/16/2011	12.0	12.0	21.4
	6/9/2011	15.0	11.0	21.8
	9/22/2011	12.0	9.0	16.0
AS-24C				
	7/14/2009	4.5	10.0	12.8
	8/24/2009	6.0	10.0	13.8
	9/2/2009	8.0	8.0	12.1
	10/23/2009	9.0	6.0	9.5
	4/19/2010	11.0	9.5	16.2
	6/15/2010	12.0	11.1	19.9
	10/7/2010	12.0	11.5	20.5
	5/16/2011	15.0	8.0	15.9
	6/9/2011	16.0	8.0	16.4
	9/22/2011	15.0	7.0	13.9

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-24D				
	7/15/2009	6.5	6.0	8.5
	8/24/2009	9.5	6.0	9.7
	9/2/2009	8.0	7.0	10.6
	9/11/2009	11.5	7.5	13.1
	10/23/2009	5.0	6.5	8.5
	4/19/2010	10.0	6.1	10.1
	6/15/2010	11.0	12.2	20.9
	10/7/2010	21.0	0.0	0.0
	5/18/2011	14.0	0.0	0.0
	6/8/2011	21.0	0.0	0.0
	9/22/2011	19.0	0.0	0.0
AS-25A				
	7/14/2009	5.0	10.0	13.1
	8/24/2009	6.5	10.0	14.1
	9/2/2009	10.0	7.0	11.5
	10/23/2009	8.5	0.0	0.0
	4/19/2010	15.0	4.6	9.1
	6/15/2010	17.0	3.4	7.2
	10/7/2010	3.0	16.5	19.5
	10/7/2010	14.0	0.0	0.0
	5/16/2011	21.0	0.0	0.0
	6/9/2011	22.5	0.0	0.0
	9/22/2011	13.0	0.0	0.0
AS-25B				
	7/15/2009	4.5	10.0	12.8
	8/24/2009	10.0	5.0	8.2
	9/2/2009	13.0	4.0	7.4
	10/23/2009	7.0	6.0	8.7
	4/19/2010	15.0	4.9	9.6
	6/16/2010	16.0	10.0	20.5
	10/7/2010	14.0	0.0	0.0
	5/16/2011	17.0	3.0	6.3
	6/9/2011	21.0	3.0	7.1
	9/22/2011	15.0	0.0	0.0
AS-25C				
	7/14/2009	9.0	3.0	4.7
	8/24/2009	13.0	0.0	0.0
	9/2/2009	15.0	3.0	5.9
	10/23/2009	8.0	2.0	3.0
	4/19/2010	14.5	0.0	0.0
	6/15/2010	15.0	0.0	0.0
	10/7/2010	17.0	0.0	0.0

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-25C				
	5/16/2011	17.0	0.0	0.0
	6/9/2011	18.0	0.0	0.0
	9/22/2011	19.0	0.0	0.0
AS-25D				
	7/15/2009	4.0	8.5	10.6
	8/24/2009	5.0	10.0	13.1
	9/2/2009	6.0	10.0	13.8
	9/11/2009	3.0	10.0	11.8
	10/23/2009	5.0	0.0	0.0
	4/19/2010	12.0	3.4	6.1
	6/15/2010	16.0	4.9	10.0
	10/7/2010	19.0	0.0	0.0
	5/18/2011	16.0	0.0	0.0
	6/8/2011	22.0	0.0	0.0
	9/22/2011	20.0	0.0	0.0
AS-26A				
	7/14/2009	4.0	10.0	12.5
	8/24/2009	6.0	10.0	13.8
	9/2/2009	6.0	9.0	12.4
	10/23/2009	3.5	7.4	9.0
	4/19/2010	6.0	11.1	15.4
	6/15/2010	11.5	13.2	23.1
	10/7/2010	15.0	0.0	0.0
	5/16/2011	21.0	0.0	0.0
	6/9/2011	22.0	0.0	0.0
	9/22/2011	10.0	0.0	0.0
AS-26B				
	7/15/2009	5.0	8.5	11.2
	8/24/2009	11.0	4.0	6.9
	9/2/2009	11.0	7.5	12.9
	10/23/2009	10.0	0.0	0.0
	4/19/2010	14.5	4.9	9.6
	6/16/2010	19.0	4.5	10.1
	10/7/2010	15.0	0.0	0.0
	5/17/2011	19.0	0.0	0.0
	6/9/2011	22.0	0.0	0.0
	9/22/2011	15.0	0.0	0.0
AS-26C				
	7/14/2009	3.5	10.0	12.1
	8/24/2009	6.0	10.0	13.8
	9/2/2009	14.0	6.0	11.5

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-26C				
	10/23/2009	9.0	0.0	0.0
	4/19/2010	10.0	10.1	16.7
	6/15/2010	12.0	11.1	19.9
	10/7/2010	8.0	15.0	22.7
	5/16/2011	13.0	9.0	16.6
	6/9/2011	10.0	10.0	16.5
	9/22/2011	15.0	9.5	18.8
AS-26D				
	7/15/2009	5.0	9.0	11.8
	8/24/2009	7.0	9.5	13.8
	9/2/2009	5.5	7.5	10.1
	9/11/2009	5.0	10.0	13.1
	10/23/2009	4.0	7.0	8.7
	4/19/2010	7.0	10.1	14.7
	6/15/2010	9.0	8.7	13.8
	10/7/2010	19.0	8.0	18.0
	5/18/2011	15.0	6.0	11.9
	6/8/2011	22.0	9.0	22.0
	9/22/2011	20.0	7.0	16.2
AS-27A				
	7/14/2009	6.0	8.5	11.7
	8/24/2009	10.0	5.0	8.2
	9/2/2009	8.0	8.0	12.1
	10/23/2009	7.0	5.0	7.2
	4/19/2010	6.0	11.1	15.4
	6/15/2010	1.0	4.0	4.2
	10/7/2010	0.0	0.0	0.0
	5/16/2011	11.0	2.5	4.3
	6/9/2011	14.0	3.0	5.7
	9/22/2011	11.0	0.0	0.0
AS-27B				
	7/15/2009	4.0	10.0	12.5
	8/24/2009	2.5	10.0	11.5
	9/2/2009	4.0	10.0	12.5
	10/23/2009	3.5	6.0	7.3
	4/19/2010	3.0	8.1	9.6
	6/16/2010	19.5	4.4	10.0
	10/7/2010	12.0	5.5	9.8
	5/17/2011	5.0	3.0	3.9
	6/9/2011	21.0	3.5	8.3
	9/22/2011	14.0	0.0	0.0

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-27C				
	7/14/2009	4.5	10.0	12.8
	8/24/2009	6.5	7.0	9.9
	9/2/2009	15.0	3.5	6.9
	10/23/2009	8.0	0.0	0.0
	4/19/2010	13.0	5.8	10.6
	6/15/2010	16.0	2.4	4.9
	10/7/2010	18.0	0.0	0.0
	5/17/2011	16.0	0.0	0.0
	6/9/2011	19.0	0.0	0.0
	9/22/2011	17.0	0.0	0.0
AS-27D				
	7/15/2009	5.5	8.0	10.8
	8/24/2009	8.5	3.0	4.6
	9/2/2009	10.5	6.0	10.1
	9/11/2009	12.0	7.0	12.5
	10/23/2009	6.0	5.8	8.0
	4/19/2010	11.0	5.1	8.7
	6/15/2010	12.0	11.1	19.9
	10/7/2010	15.0	12.0	23.8
	5/18/2011	14.0	7.0	13.4
	6/8/2011	17.0	12.0	25.4
	9/22/2011	16.0	10.0	20.5
AS-28A				
	7/14/2009	3.0	10.0	11.8
	8/24/2009	6.0	9.0	12.4
	9/2/2009	10.0	6.0	9.9
	10/23/2009	8.0	0.0	0.0
	4/19/2010	15.0	0.0	0.0
	6/15/2010	16.0	3.5	7.2
	10/7/2010	15.0	0.0	0.0
	5/16/2011	20.0	0.0	0.0
	6/9/2011	22.0	0.0	0.0
	9/22/2011	11.0	0.0	0.0
AS-28B				
	7/15/2009	1.0	10.0	10.5
	8/24/2009	2.0	10.0	11.1
	9/2/2009	3.0	10.0	11.8
	10/23/2009	2.0	10.0	11.1
	4/19/2010	3.0	14.6	17.2
	6/16/2010	1.0	4.0	4.2
	7/30/2010	4.0	16.5	20.6
	10/7/2010	1.0	6.5	6.8

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-28B				
	5/16/2011	1.0	3.0	3.1
	6/9/2011	3.0	5.0	5.9
	9/22/2011	3.0	5.0	5.9
AS-28C				
	7/14/2009	7.5	6.0	8.9
	8/24/2009	10.0	7.0	11.5
	9/2/2009	15.0	3.0	5.9
	10/23/2009	10.0	0.0	0.0
	4/19/2010	15.0	0.0	0.0
	6/15/2010	15.0	0.0	0.0
	10/7/2010	16.0	0.0	0.0
	5/16/2011	15.0	0.0	0.0
	6/9/2011	18.0	0.0	0.0
	9/22/2011	18.0	0.0	0.0
AS-28D				
	7/15/2009	4.0	8.0	10.0
	8/24/2009	9.0	7.0	11.1
	9/2/2009	8.0	7.0	10.6
	9/11/2009	10.0	7.0	11.5
	10/23/2009	3.0	6.0	7.1
	4/19/2010	7.0	7.1	10.2
	6/15/2010	4.5	2.3	2.9
	10/7/2010	4.0	0.0	0.0
	5/18/2011	0.0	3.0	2.9
	6/8/2011	6.0	18.0	24.9
	9/22/2011	4.0	18.0	22.5
AS-29A				
	7/14/2009	7.0	4.0	5.8
	8/24/2009	10.0	5.0	8.2
	9/2/2009	8.5	6.0	9.3
	10/23/2009	7.0	5.5	8.0
	4/19/2010	11.0	6.1	10.4
	6/15/2010	6.0	3.7	5.1
	10/7/2010	8.0	0.0	0.0
	5/16/2011	15.0	3.0	5.9
	6/9/2011	3.0	14.0	16.5
	9/22/2011	12.5	0.0	0.0
AS-29B				
	7/15/2009	2.5	8.0	9.2
	8/24/2009	6.0	10.0	13.8
	9/2/2009	8.5	7.0	10.8

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-29B				
	10/23/2009	8.0	0.0	0.0
	4/19/2010	7.0	7.1	10.2
	6/16/2010	18.0	6.1	13.3
	10/7/2010	14.0	0.0	0.0
	5/17/2011	17.0	0.0	0.0
	6/9/2011	22.0	0.0	0.0
	9/22/2011	15.0	0.0	0.0
AS-29C				
	7/14/2009	7.0	6.0	8.7
	8/24/2009	8.5	8.5	13.2
	9/2/2009	10.0	7.0	11.5
	10/23/2009	8.0	0.0	0.0
	4/19/2010	13.0	6.3	11.7
	6/15/2010	16.0	2.4	4.9
	10/7/2010	18.0	0.0	0.0
	5/17/2011	16.0	0.0	0.0
	6/9/2011	19.0	0.0	0.0
	9/22/2011	17.0	0.0	0.0
AS-29D				
	7/15/2009	5.0	8.0	10.5
	8/24/2009	7.0	9.8	14.1
	9/2/2009	7.0	7.0	10.1
	9/11/2009	12.5	5.5	10.0
	10/23/2009	9.0	0.0	0.0
	4/19/2010	8.0	7.1	10.7
	6/15/2010	12.0	4.0	7.2
	10/7/2010	21.0	0.0	0.0
	5/18/2011	18.0	0.0	0.0
	6/8/2011	24.0	0.0	0.0
	9/22/2011	20.0	0.0	0.0
AS-30A				
	7/14/2009	4.5	10.0	12.8
	8/24/2009	9.0	7.0	11.1
	9/2/2009	6.0	9.0	12.4
	10/23/2009	6.0	6.0	8.3
	4/19/2010	10.0	6.1	10.0
	6/15/2010	17.0	3.4	7.2
	10/7/2010	18.0	0.0	0.0
	5/16/2011	21.0	0.0	0.0
	6/9/2011	22.0	0.0	0.0
	9/22/2011	13.0	0.0	0.0

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-30B				
	7/15/2009	7.5	6.0	8.9
	8/24/2009	NR	NR	NR
	9/2/2009	13.0	3.0	5.5
	10/23/2009	8.0	0.0	0.0
	4/19/2010	14.0	4.2	8.1
	6/16/2010	20.0	1.3	3.0
	10/7/2010	13.0	0.0	0.0
	5/16/2011	17.0	0.0	0.0
	6/9/2011	22.0	0.0	0.0
AS-30C				
	7/14/2009	4.0	10.0	12.5
	8/24/2009	8.0	8.0	12.1
	9/2/2009	8.0	8.0	12.1
	10/23/2009	6.0	6.0	8.3
	4/19/2010	9.0	9.1	14.4
	6/15/2010	3.0	3.4	4.1
	10/7/2010	2.0	0.0	0.0
	5/17/2011	1.0	3.0	3.1
	6/9/2011	3.0	14.0	16.5
	9/22/2011	3.0	14.0	16.5
AS-30D				
	7/15/2009	5.0	8.0	10.5
	8/24/2009	6.0	10.0	13.8
	9/2/2009	8.0	7.0	10.6
	9/11/2009	14.0	3.3	6.2
	10/23/2009	6.0	0.0	0.0
	4/19/2010	9.5	7.4	12.0
	6/15/2010	15.0	6.1	12.2
	10/7/2010	20.0	3.0	6.9
	5/18/2011	17.0	0.0	0.0
	6/8/2011	22.0	0.0	0.0
	9/22/2011	19.0	0.0	0.0
AS-31A				
	7/14/2009	2.0	10.0	11.1
	8/24/2009	5.0	10.0	13.1
	9/2/2009	8.0	7.0	10.6
	10/23/2009	8.0	0.0	0.0
	4/19/2010	11.0	9.1	15.6
	6/15/2010	17.0	3.4	7.2
	10/7/2010	15.0	0.0	0.0
	5/16/2011	20.0	0.0	0.0
	6/8/2011	23.0	0.0	0.0

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-31A				
	9/22/2011	10.0	0.0	0.0
AS-31B				
	7/15/2009	3.0	10.0	11.8
	8/24/2009	6.0	10.0	13.8
	9/2/2009	5.0	8.0	10.5
	10/23/2009	7.0	4.0	5.8
	4/19/2010	10.0	6.1	10.0
	6/16/2010	20.0	4.3	10.0
	10/7/2010	10.0	0.0	0.0
	5/17/2011	16.0	0.0	0.0
	6/9/2011	22.0	0.0	0.0
	9/22/2011	14.0	0.0	0.0
AS-31C				
	7/14/2009	5.5	9.5	12.8
	8/24/2009	6.0	8.0	11.1
	9/2/2009	14.0	4.0	7.7
	10/23/2009	10.0	0.0	0.0
	4/19/2010	14.0	0.0	0.0
	6/15/2010	16.0	2.4	4.9
	10/7/2010	18.0	0.0	0.0
	5/17/2011	16.0	0.0	0.0
	6/9/2011	19.0	0.0	0.0
	9/22/2011	17.0	2.5	5.3
AS-31D				
	7/15/2009	3.5	9.5	11.5
	8/24/2009	5.0	10.0	13.1
	9/2/2009	5.0	8.0	10.5
	9/11/2009	13.0	6.0	11.1
	10/23/2009	8.0	0.0	0.0
	4/19/2010	7.0	11.1	16.1
	6/15/2010	5.0	3.3	4.4
	10/7/2010	11.0	3.5	6.0
	5/18/2011	14.0	3.0	5.7
	6/8/2011	21.0	3.3	7.7
	9/22/2011	19.0	0.0	0.0

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID	Pressure (psi)	Flow (acfm)	Flow (scfm)

Notes:

psi = pounds per square inch
acfm = actual cubic feet per minute
scfm = standard cubic feet per minute
Equation for converstion of acfm to scfm = (flow [in acfm])*[(14.7+pressure [in psi]/14.7]*[520/(460+70 deg. F)
NR = data not recorded
The initial system start date was August 10, 2009 and all data collected prior to then was a component of either startup/shake down or compliance sampling.
Initial Design Flow Rate = 10 scfm
Suffix A, B, C, D = legs of system in the volatile organic compound treatment area
Suffix E = E leg of system in the perimeter treatment curtain
"-R" indicates AS well replaced

Table 5
Soil Vapor Extraction Well Air Flow Data
Dover Municipal Landfill Superfund Site, Dover, NH

	SVE Well ID	Vacuum (in. H2O)	Differential Pressure (in. H2O)	Flow (scfm)	Total VOCs (ppmv)
6/23/2009					
	SVE-01	3.4	0.940	53.02	7.0
	SVE-02	2.8	0.880	51.34	10.5
	SVE-03	2.2	0.650	44.15	19.8
	SVE-04	2.2	0.220	25.69	19.3
	SVE-05	2.2	0.040	10.95	9.4
	SVE-06	1.4	0.140	20.51	5.5
	SVE-07	4.6	2.000	77.22	12.2
	SVE-08	3.8	0.200	24.44	54.8
	SVE-09	3	0.100	17.30	909.0
	SVE-10	2.2	0.120	18.97	2,875.0
	SVE-11	1.6	0.260	27.95	178.0
	SVE-12	1.2	0.180	23.26	76.2
	SVE-13	7.8	0.200	24.32	507.0
	SVE-14	5.8	0.700	45.62	631.0
	SVE-15	5.8	0.220	25.57	525.0
	SVE-16	5.4	0.260	27.81	4,221.0
	SVE-16	5.4	0.160	21.82	4,221.0
	SVE-17	4.8	0.300	29.90	3,306.0
	SVE-18	5	0.380	33.64	35.0
	SVE-19	5.8	0.080	15.42	118.0
	SVE-20	4.8	0.240	26.74	100.0
	SVE-21	1.2	0.140	20.52	7.3
	SVE-22	1.6	0.040	10.96	10.3
	SVE-23	1.4	0.080	15.51	36.2
7/6/2009					
	SVE-01	1.4	0.300	30.03	nm
	SVE-02	1.2	0.280	29.01	nm
	SVE-03	1.3	0.300	30.03	nm
	SVE-04	1.4	0.260	27.95	nm
	SVE-05	6.8	0.020	7.70	nm
	SVE-06	2	0.300	30.00	nm
	SVE-07	1	0.260	27.97	nm
	SVE-08	5	0.320	30.87	nm
	SVE-09	8.2	0.340	31.70	nm
	SVE-10	2.5	0.200	24.48	nm

Table 5
Soil Vapor Extraction Well Air Flow Data
Dover Municipal Landfill Superfund Site, Dover, NH

	SVE Well ID	Vacuum (in. H2O)	Differential Pressure (in. H2O)	Flow (scfm)	Total VOCs (ppmv)
7/6/2009					
	SVE-11	1.4	0.300	30.03	nm
	SVE-12	1.6	0.240	26.85	nm
	SVE-13	0.1	0.300	30.07	nm
	SVE-14	3.2	0.270	28.42	nm
	SVE-15	6	0.240	26.70	nm
	SVE-16	6	0.240	26.70	nm
	SVE-17	3.4	0.220	25.65	nm
	SVE-18	3.8	0.260	27.87	nm
	SVE-19	9	0.200	24.29	nm
	SVE-20	5.8	0.360	32.71	nm
	SVE-21	1	0.200	24.53	nm
	SVE-22	5	0.160	21.83	nm
	SVE-23	4.4	0.240	26.76	nm
	SVE-24	5	0.020	7.72	nm
	SVE-25	4.8	0.060	13.37	nm
	SVE-26	4.8	0.020	7.72	nm
	SVE-27	4.7	0.060	13.37	nm
	SVE-28	5	0.040	10.91	nm
	SVE-29	5	0.060	13.37	nm
	SVE-30	4.8	0.060	13.37	nm
	SVE-31	4.6	0.080	15.44	nm
8/21/2009					
	SVE-01	1.65	0.250	27.40	42.6
	SVE-02	1.05	0.250	27.42	203.0
	SVE-03	1.15	0.250	27.42	499.0
	SVE-04	1.25	0.250	27.41	54.6
	SVE-05	4.75	0.150	21.14	231.0
	SVE-06	1.6	0.250	27.40	26.0
	SVE-07	1	0.300	30.04	268.0
	SVE-08	6	0.250	27.25	1,020.0
	SVE-09	5.8	0.300	29.86	1,650.0
	SVE-10	3	0.300	29.97	3,450.0
	SVE-11	1.05	0.250	27.42	1,030.0
	SVE-12	0.9	0.200	24.53	611.0
	SVE-13	10	0.250	27.12	1,040.0

Table 5
Soil Vapor Extraction Well Air Flow Data
Dover Municipal Landfill Superfund Site, Dover, NH

	SVE Well ID	Vacuum (in. H2O)	Differential Pressure (in. H2O)	Flow (scfm)	Total VOCs (ppmv)
8/21/2009					
	SVE-14	2	0.250	27.39	1,370.0
	SVE-15	6.5	0.300	29.84	4,000.0
	SVE-16	4	0.250	27.32	4,000.0
	SVE-17	3	0.170	22.56	2,480.0
	SVE-18	5	0.300	29.89	547.0
	SVE-19	8.5	0.280	28.75	320.0
	SVE-20	7	0.260	27.76	204.0
	SVE-21	1.1	0.300	30.04	29.0
	SVE-22	4.5	0.220	25.61	59.2
	SVE-23	2	0.300	30.00	69.4
	SVE-24	4.5	0.050	12.21	15.5
	SVE-25	4.5	0.050	12.21	10.3
	SVE-26	4.5	0.050	12.21	163.0
	SVE-27	4.5	0.050	12.21	6.5
	SVE-28	4.5	0.050	12.21	13.3
	SVE-29	2	0.050	12.25	55.4
	SVE-30	4.5	0.050	12.21	8.2
	SVE-31	4.5	0.050	12.21	6.1
10/23/2009					
	SVE-01	2.2	0.300	30.00	20.0
	SVE-02	1.35	0.250	27.41	4.2
	SVE-03	1.75	0.300	30.01	439.0
	SVE-04	1.9	0.375	33.55	70.4
	SVE-05	8	0.200	24.32	61.0
	SVE-06	2.05	0.400	34.64	27.2
	SVE-07	0.85	0.325	31.27	254.0
	SVE-08	7.6	0.325	31.01	351.0
	SVE-09	8.2	0.250	27.18	1,093.0
	SVE-10	3.8	0.400	34.57	3,334.0
	SVE-11	1.65	0.450	36.76	593.0
	SVE-12	1.3	0.400	34.67	636.0
	SVE-13	10	0.300	29.71	966.0
	SVE-14	3	0.250	27.36	1,822.0
	SVE-15	10	0.300	29.71	4,709.0
	SVE-16	8	0.250	27.19	3,031.0

Table 5
Soil Vapor Extraction Well Air Flow Data
Dover Municipal Landfill Superfund Site, Dover, NH

	SVE Well ID	Vacuum (in. H2O)	Differential Pressure (in. H2O)	Flow (scfm)	Total VOCs (ppmv)
10/23/2009					
	SVE-17	3.6	0.250	27.33	1,917.0
	SVE-18	6	0.375	33.38	373.0
	SVE-19	10	0.250	27.12	951.0
	SVE-20	8	0.200	24.32	72.7
	SVE-21	1.35	0.450	36.78	10.0
	SVE-22	7	0.250	27.22	84.6
	SVE-23	0.2	0.050	12.28	897.0
	SVE-24	6.6	0.050	12.18	7.4
	SVE-25	nm	nm	nm	nm
	SVE-26	nm	nm	nm	nm
	SVE-27	5.8	0.050	12.19	17.3
	SVE-28	6.4	0.050	12.18	0.4
	SVE-29	6.6	0.050	12.18	12.7
	SVE-30	6.4	0.050	12.18	3.0
	SVE-31	6.4	0.050	12.18	29.7
6/15/2010					
	SVE-01	0.3	0.020	7.76	33.8
	SVE-02	0.35	0.050	12.27	48.0
	SVE-03	0.4	0.050	12.27	196.0
	SVE-04	0.35	0.020	7.76	30.2
	SVE-05	5.5	0.045	11.57	33.5
	SVE-06	0.6	0.035	10.27	14.1
	SVE-07	0.35	0.050	12.27	67.9
	SVE-08	3	0.035	10.24	262.0
	SVE-09	13	0.650	43.56	455.0
	SVE-10	9	1.300	61.91	2,149.0
	SVE-11	1.75	0.400	34.66	487.0
	SVE-12	2	0.350	32.41	323.0
	SVE-13	25	0.100	16.82	255.0
	SVE-14	18	2.750	89.03	692.0
	SVE-15	22	0.200	23.89	3,129.0
	SVE-16	18	0.750	46.49	1,806.0
	SVE-17	14	1.250	60.33	990.0
	SVE-18	2	0.050	12.25	176.0
	SVE-19	18	0.050	12.00	1,296.0

Table 5
Soil Vapor Extraction Well Air Flow Data
Dover Municipal Landfill Superfund Site, Dover, NH

	SVE Well ID	Vacuum (in. H2O)	Differential Pressure (in. H2O)	Flow (scfm)	Total VOCs (ppmv)
6/15/2010					
	SVE-20	6	0.050	12.19	106.0
	SVE-21	1	0.010	5.48	127.0
	SVE-22	7	0.025	8.61	19.6
	SVE-23	7	0.450	36.52	105.0
	SVE-24	9	0.010	5.43	39.8
	SVE-25	9	0.010	5.43	124.0
	SVE-26	9	0.010	5.43	14.8
	SVE-27	7	0.050	12.17	13.6
	SVE-28	9	0.010	5.43	34.8
	SVE-29	9	0.010	5.43	24.2
	SVE-30	9	0.030	9.41	11.1
	SVE-31	18	0.045	11.39	47.7
10/8/2010					
	SVE-01	0.065	0.005	3.88	33.4
	SVE-02	0.075	0.005	3.88	76.9
	SVE-03	0.25	0.040	10.98	163.0
	SVE-04	0.25	0.005	3.88	46.8
	SVE-05	0.075	0.010	5.49	18.2
	SVE-06	0.85	0.050	12.27	49.5
	SVE-07	0.15	0.005	3.88	164.0
	SVE-08	0.65	0.040	10.97	150.0
	SVE-09	15	0.550	39.97	347.0
	SVE-10	10	1.000	54.23	520.0
	SVE-11	1.1	0.300	30.04	115.0
	SVE-12	0.4	0.200	24.55	126.0
	SVE-13	22.5	0.010	5.34	42.3
	SVE-14	14	3.000	93.46	158.0
	SVE-15	19	0.005	3.79	1,032.0
	SVE-16	16	0.350	31.84	16.2
	SVE-17	13	2.000	76.41	42.5
	SVE-18	0.5	0.300	30.06	207.0
	SVE-19	19	0.030	9.29	650.0
	SVE-20	6	0.050	12.19	27.6
	SVE-21	0.25	0.045	11.65	22.0
	SVE-22	3	0.055	12.83	134.0

Table 5
Soil Vapor Extraction Well Air Flow Data
Dover Municipal Landfill Superfund Site, Dover, NH

	SVE Well ID	Vacuum (in. H2O)	Differential Pressure (in. H2O)	Flow (scfm)	Total VOCs (ppmv)
10/8/2010					
	SVE-23	9	0.700	45.43	63.2
	SVE-24	0.04	0.000	0.00	22.4
	SVE-25	0.11	0.005	3.88	41.3
	SVE-26	0.02	0.040	10.98	50.0
	SVE-27	0.04	0.000	0.00	9.4
	SVE-28	0.12	0.010	5.49	6.6
	SVE-29	0.01	0.010	5.49	53.3
	SVE-30	0.01	0.000	0.00	32.5
	SVE-31	0	0.000	0.00	26.6
4/1/2011					
	SVE-01	nm	nm	nm	44.4
	SVE-02	nm	nm	nm	27.2
	SVE-03	nm	nm	nm	38.5
	SVE-04	nm	nm	nm	63.8
	SVE-05	nm	nm	nm	8.7
	SVE-06	nm	nm	nm	3.5
	SVE-07	nm	nm	nm	56.8
	SVE-08	nm	nm	nm	126.0
	SVE-09	nm	nm	nm	33.5
	SVE-10	nm	nm	nm	49.1
	SVE-11	nm	nm	nm	99.6
	SVE-12	nm	nm	nm	79.2
	SVE-13	nm	nm	nm	140.0
	SVE-14	nm	nm	nm	304.0
	SVE-15	nm	nm	nm	118.0
	SVE-16	nm	nm	nm	264.0
	SVE-17	nm	nm	nm	134.0
	SVE-18	nm	nm	nm	40.0
	SVE-19	nm	nm	nm	69.7
	SVE-20	nm	nm	nm	33.0
	SVE-21	nm	nm	nm	1.8
	SVE-22	nm	nm	nm	31.3
	SVE-23	nm	nm	nm	9.4
	SVE-24	nm	nm	nm	8.5
	SVE-25	nm	nm	nm	9.2

Table 5
Soil Vapor Extraction Well Air Flow Data
Dover Municipal Landfill Superfund Site, Dover, NH

	SVE Well ID	Vacuum (in. H2O)	Differential Pressure (in. H2O)	Flow (scfm)	Total VOCs (ppmv)
4/1/2011					
	SVE-26	nm	nm	nm	29.2
	SVE-27	nm	nm	nm	5.5
	SVE-28	nm	nm	nm	8.1
	SVE-29	nm	nm	nm	4.8
	SVE-30	nm	nm	nm	8.2
	SVE-31	nm	nm	nm	7.8
5/9/2011 *					
	SVE-01	0.4	0.030	9.51	nm
	SVE-02	0.4	0.035	10.27	nm
	SVE-03	0.3	0.030	9.51	nm
	SVE-04	1.75	0.005	3.87	nm
	SVE-05	1.45	0.010	5.48	nm
	SVE-06	0.5	0.030	9.51	nm
	SVE-07	0.45	0.035	10.27	nm
	SVE-08	0.6	0.030	9.50	nm
	SVE-09	2.8	0.025	8.65	nm
	SVE-10	1.2	0.060	13.43	nm
	SVE-11	1.2	0.300	30.03	nm
	SVE-12	1.1	0.200	24.52	nm
	SVE-13	4.7	0.010	5.46	nm
	SVE-14	4.2	0.090	16.39	nm
	SVE-15	4.3	0.000	0.00	nm
	SVE-16	4	0.070	14.46	nm
	SVE-17	3.5	0.120	18.94	nm
	SVE-18	2.5	0.035	10.24	nm
	SVE-19	4	0.000	0.00	nm
	SVE-20	3.8	0.050	12.22	nm
	SVE-21	0.4	0.040	10.98	nm
	SVE-22	0.9	0.020	7.76	nm
	SVE-23	1.4	0.040	10.96	nm
	SVE-24	1.5	0.000	0.00	nm
	SVE-25	1.5	0.000	0.00	nm
	SVE-26	1.5	0.000	0.00	nm
	SVE-27	1.5	0.000	0.00	nm
	SVE-28	1.5	0.000	0.00	nm

Table 5
Soil Vapor Extraction Well Air Flow Data
Dover Municipal Landfill Superfund Site, Dover, NH

	SVE Well ID	Vacuum (in. H2O)	Differential Pressure (in. H2O)	Flow (scfm)	Total VOCs (ppmv)
5/9/2011 *					
	SVE-29	1.5	0.005	3.88	nm
	SVE-30	1.5	0.000	0.00	nm
	SVE-31	1	0.000	0.00	nm
5/22/2011					
	SVE-01	2	0.055	12.85	nm
	SVE-02	1	0.060	13.43	nm
	SVE-03	0.4	0.030	9.51	nm
	SVE-04	2	0.070	14.49	nm
	SVE-05	19	0.020	7.58	nm
	SVE-06	1.1	0.075	15.02	nm
	SVE-07	1	0.030	9.50	nm
	SVE-08	1.95	0.030	9.49	nm
	SVE-09	14	0.250	26.98	nm
	SVE-10	9	0.400	34.34	nm
	SVE-11	2	0.350	32.41	nm
	SVE-12	2	0.250	27.39	nm
	SVE-13	22	0.005	3.78	nm
	SVE-14	19	0.650	43.23	nm
	SVE-15	20	0.005	3.79	nm
	SVE-16	18	0.750	46.49	nm
	SVE-17	13	0.250	27.01	nm
	SVE-18	7	0.025	8.61	nm
	SVE-19	19	0.010	5.36	nm
	SVE-20	7	0.050	12.17	nm
	SVE-21	0.4	0.050	12.27	nm
	SVE-22	3	0.055	12.83	nm
	SVE-23	1.6	0.040	10.96	nm
	SVE-24	24	0.025	8.42	nm
	SVE-25	22	0.005	3.78	nm
	SVE-26	21	0.600	41.42	nm
	SVE-27	22	0.005	3.78	nm
	SVE-28	23	0.030	9.24	nm
	SVE-29	22	0.020	7.55	nm
	SVE-30	23	0.010	5.33	nm
	SVE-31	22	0.080	15.11	nm

Table 5
Soil Vapor Extraction Well Air Flow Data
Dover Municipal Landfill Superfund Site, Dover, NH

	SVE Well ID	Vacuum (in. H2O)	Differential Pressure (in. H2O)	Flow (scfm)	Total VOCs (ppmv)
6/10/2011					
	SVE-01	0.75	0.350	32.46	nm
	SVE-02	0.01	0.550	40.72	nm
	SVE-03	0.4	0.060	13.44	nm
	SVE-04	2.4	0.150	21.21	nm
	SVE-05	24	0.020	7.53	nm
	SVE-06	5	0.500	38.59	nm
	SVE-07	1	0.150	21.24	nm
	SVE-08	6	0.250	27.25	nm
	SVE-09	4	0.055	12.81	nm
	SVE-10	5	0.600	42.27	nm
	SVE-11	1.2	0.250	27.42	nm
	SVE-12	2.1	0.500	38.73	nm
	SVE-13	44	0.020	7.33	nm
	SVE-14	5	0.060	13.37	nm
	SVE-15	36	0.000	0.00	nm
	SVE-16	12.5	0.140	20.23	nm
	SVE-17	10	0.750	46.97	nm
	SVE-18	11.5	0.300	29.65	nm
	SVE-19	42	0.000	0.00	nm
	SVE-20	11	0.125	19.15	nm
	SVE-21	0.3	0.030	9.51	nm
	SVE-22	17	0.550	39.87	nm
	SVE-23	0	0.000	0.00	nm
	SVE-24	nm	nm	nm	nm
	SVE-25	nm	nm	nm	nm
	SVE-26	nm	nm	nm	nm
	SVE-27	nm	nm	nm	nm
	SVE-28	nm	nm	nm	nm
	SVE-29	nm	nm	nm	nm
	SVE-30	nm	nm	nm	nm
	SVE-31	nm	nm	nm	nm
9/23/2011					
	SVE-01	0.6	0.050	12.27	nm
	SVE-02	0.9	0.105	17.77	nm
	SVE-03	0.5	0.045	11.64	nm

Table 5
Soil Vapor Extraction Well Air Flow Data
Dover Municipal Landfill Superfund Site, Dover, NH

	SVE Well ID	Vacuum (in. H2O)	Differential Pressure (in. H2O)	Flow (scfm)	Total VOCs (ppmv)
9/23/2011					
	SVE-04	1.65	0.150	21.22	nm
	SVE-05	35	0.030	9.09	nm
	SVE-06	3.6	0.650	44.08	nm
	SVE-07	1.1	0.200	24.52	nm
	SVE-08	5.5	0.300	29.87	nm
	SVE-09	2.2	0.055	12.84	nm
	SVE-10	4.3	0.755	47.46	nm
	SVE-11	1	0.260	27.97	nm
	SVE-12	1.6	0.500	38.75	nm
	SVE-13	48	0.085	15.04	nm
	SVE-14	3	0.070	14.48	nm
	SVE-15	47	0.030	8.95	nm
	SVE-16	5	0.250	27.29	nm
	SVE-17	10	1.150	58.16	nm
	SVE-18	24	0.160	21.31	nm
	SVE-19	48	0.040	10.32	nm
	SVE-20	10	0.125	19.17	nm
	SVE-21	0.24	0.020	7.76	nm
	SVE-22	18	0.750	46.49	nm
	SVE-24	0.95	0.001	1.73	nm
	SVE-25	15	0.005	3.81	nm
	SVE-26	14	0.000	0.00	nm
	SVE-27	11	0.020	7.66	nm
	SVE-28	13	0.010	5.40	nm
	SVE-29	14	0.000	0.00	nm
	SVE-30	6	0.005	3.85	nm
	SVE-31	0.09	0.005	3.88	nm

Table 5
Soil Vapor Extraction Well Air Flow Data
Dover Municipal Landfill Superfund Site, Dover, NH

SVE Well ID	Vacuum (in. H2O)	Differential Pressure (in. H2O)	Flow (scfm)	Total VOCs (ppmv)

Notes:

SVE = soil vapor extraction
VOCs = volatile organic compounds
in. H2O = inches of water
scfm = standard cubic feet per minute
ppmv = parts per million by volume
nm = not measured
* = Dilution valve on SVE system was open.

1. Vacuum and differential pressure measured in the field using a Dwyer DS-300 for a 2-inch-diameter pipe . Flow was calculated from the field measurements.
2. Total VOCs were measured in the field using a photoionization detector.
3. During the June 2009 field event, total VOCs were measured on June 26, 2009 due to weather conditions/equipment malfunction.
4. During the October 2009 field event, SVE-25 and SVE-26 contained water so no air flow or VOC measurements were recorded.

SVE operations were initiated on July 6, 2009; AS and SVE operations were initiated on August 10, 2009.
SVE system was shut down due to mechanical problems Sept 2011 to present.

Table 6
Process Monitoring

Dover Municipal Landfill Superfund Site, Dover, NH

Date	Event Type	SVE Total Air Flow (scfm)	SVE Vacuum (in. Hg)	SVE Disc. Temp. (deg. F)	SVE Total Runtime (hrs)	Air Sparge PTC- Total Air Flow (scfm)	Air Sparge PTC- Pressure (psi)	Air Sparge PTC- Disc. Temp. (deg. F)	Air Sparge PTC- Total Runtime (hrs)	Air Sparge VOCTA- Total Air Flow (scfm)	Air Sparge VOCTA- Pressure (psi)	Air Sparge VOCTA- Disc. Temp. (deg. F)	Air Sparge VOCTA- Total Runtime* (hrs)	Transfer Pump - Total Runtime^
7/7/2009	A	753	5	113	238	NR	NR	NR	NR	NR	NR	NR	NR	NR
7/10/2009	A	743	6	84	315	NR	NR	NR	NR	NR	NR	NR	NR	4
7/13/2009	A	740	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
7/14/2009	A	750	NR	130	NR	NR	NR	NR	NR	440	7	92	NR	NR
7/17/2009	A	738	6	139	428	NR	NR	NR	21	NR	NR	NR	40	9
7/21/2009	A	767	6	107	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
7/22/2009	A	759	6	144	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
7/23/2009	A	761	5	82	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
7/31/2009	A	745	6	125	584	NR	NR	NR	NR	454	9	92	53	9
8/4/2009	A	742	5	128	NR	NR	NR	NR	NR	430	11	93	NR	NR
8/10/2009	B	730	4	140	762	100	10	140	125	380	10	110	288	6
8/21/2009	B	725	3	150	993	100	11	145	194	420	9	114	675	6
8/31/2009	A	725	3	134	1,162	100	12	120	236	421	12	101	998	9
9/4/2009	A	733	3	132	1,242	100	13	115	262	404	13	99	1,155	9
9/11/2009	B	730	4	125	1,405	105	13	130	308	380	18	94	1,488	6
9/18/2009	A	722	3	130	1,562	100	12	120	400	397	15	95	1,789	10
9/25/2009	B	730	4	135	1,675	100	13	120	427	380	18	83	2,025	7
10/2/2009	B	746	3	122	1,699	100	13	116	1,035	406	18	90	2,071	7

Table 6
Process Monitoring

Dover Municipal Landfill Superfund Site, Dover, NH

Date	Event Type	SVE Total Air Flow (scfm)	SVE Vacuum (in. Hg)	SVE Disc. Temp. (deg. F)	SVE Total Runtime (hrs)	Air Sparge PTC- Total Air Flow (scfm)	Air Sparge PTC- Pressure (psi)	Air Sparge PTC- Disc. Temp. (deg. F)	Air Sparge PTC- Total Runtime (hrs)	Air Sparge VOCTA- Total Air Flow (scfm)	Air Sparge VOCTA- Pressure (psi)	Air Sparge VOCTA- Disc. Temp. (deg. F)	Air Sparge VOCTA- Total Runtime* (hrs)	Transfer Pump - Total Runtime^
10/9/2009	B	725	3	130	1,814	100	13	116	477	339	19	93	2,286	10
10/16/2009	B	745	3	115	1,914	100	5	107	537	457	10	77	2,479	11
10/22/2009	A	740	4	120	2,059	100	14	115	560	450	11	70	2,782	8
10/30/2009	B	735	3	127	2,241	97	9	110	613	473	9	82	3,133	13
11/9/2009	B	738	3	130	2,481	99	10	117	676	481	8	86	3,613	14
11/13/2009	B	736	3	126	2,577	96	6	108	699	378	18	82	3,803	15
11/20/2009	B	754	3	122	2,745	96	12	124	742	448	11	91	4,140	16
11/23/2009	A	750	4	120	2,825	NR	NR	NR	NR	370	20	73	4,314	10
4/21/2010	A	750	3	125	2,862	NR	NR	NR	768	400	9	94	2,195	10
4/30/2010	B	749	3	127	3,004	NR	NR	NR	NR	353	18	102	2,327	86
5/7/2010	B	760	3	120	3,168	NR	NR	NR	NR	467	9	84	2,490	86
5/14/2010	B	747	3	118	3,336	NR	NR	NR	NR	471	9	85	2,659	86
5/27/2010	A	740	3	130	3,524	NR	NR	NR	920	320	5	93	2,855	27
6/4/2010	B	732	3	140	3,718	NR	NR	NR	NR	465	8	110	3,040	87
6/11/2010	B	751	3	134	3,854	93	13	131	992	397	15	105	3,175	87
6/15/2010	A	750	3	170	3,926	NR	9	120	1,002	450	6	100	3,258	28
6/17/2010	A	700	3	150	3,953	NR	12	120	1,011	280	17	90	3,288	29
6/18/2010	B	701	3	140	3,978	NR	NR	NR	1,031	376	10	112	3,296	87
6/25/2010	B	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR

Table 6
Process Monitoring

Dover Municipal Landfill Superfund Site, Dover, NH

Date	Event Type	SVE Total Air Flow (scfm)	SVE Vacuum (in. Hg)	SVE Disc. Temp. (deg. F)	SVE Total Runtime (hrs)	Air Sparge PTC- Total Air Flow (scfm)	Air Sparge PTC- Pressure (psi)	Air Sparge PTC- Disc. Temp. (deg. F)	Air Sparge PTC- Total Runtime (hrs)	Air Sparge VOCTA- Total Air Flow (scfm)	Air Sparge VOCTA- Pressure (psi)	Air Sparge VOCTA- Disc. Temp. (deg. F)	Air Sparge VOCTA- Total Runtime* (hrs)	Transfer Pump - Total Runtime^
6/29/2010	B	710	3	137	NR	NR	NR	NR	NR	278	9	117	NR	87
7/12/2010	B	721	3	144	4,282	97	12	143	1,066	364	10	117	3,600	87
7/16/2010	B	710	3	141	4,368	NR	NR	NR	NR	274	17	108	3,685	88
7/22/2010	A	700	3	145	4,509	86	NR	100	1,072	290	13	106	3,837	29
7/23/2010	B	706	3	143	4,529	NR	NR	NR	1,093	262	17	110	3,846	88
7/30/2010	B	713	3	143	4,681	85	11	137	1,135	280	16	113	3,995	89
8/6/2010	B	718	3	136	4,824	79	10	129	1,173	245	19	103	4,140	89
8/20/2010	B	711	3	147	4,947	NR	NR	NR	1,098	308	14	111	4,272	30
8/26/2010	A	700	1	145	5,091	NR	NR	NR	1,092	290	15	109	4,416	31
9/3/2010	B	703	3	145	5,187	NR	NR	NR	1,159	NR	NR	NR	4,429	48
9/10/2010	B	733	3	137	5,354	NR	NR	NR	1,200	NR	NR	NR	4,429	49
9/17/2010	B	760	3	119	5,488	82	10	108	1,234	NR	NR	NR	4,429	50
9/24/2010	B	743	3	137	5,656	NR	NR	NR	1,276	NR	NR	NR	4,429	50
10/7/2010	A	740	9	145	5,821	1	11	75	1,125	290	15	88	4,498	28
10/15/2010	B	694	3	132	6,012	87	8	115	1,372	251	16	91	4,689	52
10/29/2010	A	725	9	135	6,317	8	8	120	1,255	260	12	86	4,993	54
11/5/2010	B	700	3	137	6,480	14	0	78	1,492	204	13	85	5,156	57
11/12/2010	B	723	3	137	6,649	14	13	75	1,534	213	14	87	5,325	60

Table 6
Process Monitoring

Dover Municipal Landfill Superfund Site, Dover, NH

Date	Event Type	SVE Total Air Flow (scfm)	SVE Vacuum (in. Hg)	SVE Disc. Temp. (deg. F)	SVE Total Runtime (hrs)	Air Sparge PTC- Total Air Flow (scfm)	Air Sparge PTC- Pressure (psi)	Air Sparge PTC- Disc. Temp. (deg. F)	Air Sparge PTC- Total Runtime (hrs)	Air Sparge VOCTA- Total Air Flow (scfm)	Air Sparge VOCTA- Pressure (psi)	Air Sparge VOCTA- Disc. Temp. (deg. F)	Air Sparge VOCTA- Total Runtime* (hrs)	Transfer Pump - Total Runtime^
11/18/2010	A	700	8	125	6,794	80	8	105	1,375	260	13	78	5,470	54
5/9/2011	A**	900	11	110	6,807	0	0	71	1,380	NR	NR	72	5,476	54
5/16/2011	A**	900	7	100	6,971	0	0	50	1,380	NR	NR	54	5,477	54
5/18/2011	A**	900	8	100	7,018	0	0	54	1,380	200	15	74	5,484	72
5/22/2011	A	725	13	120	7,137	95	7	125	1,414	200	13	84	5,603	72
6/3/2011	A	725	16	130	7,238	90	7	125	1,429	150	12	85	57,036	108
6/27/2011	B	650	3	146	7,665	84	6	137	NR	93	17	104	5,881	164
7/5/2011	B	645	3	144	7,844	15	0	76	NR	NR	NR	84	5,885	NR
7/11/2011	B	640	3	147	7,985	14	0	91	NR	128	19	114	5,998	NR
7/21/2011	B	1	3	158	8,129	68	8	141	NR	NR	NR	104	6,075	NR
7/25/2011	B	646	3	144	8,215	14	0	75	NR	NR	NR	81	6,075	NR
7/27/2011	A	690	10	150	8,262	0	0	75	1,562	NR	NR	80	NR	NR
8/1/2011	B	658	3	154	8,356	14	0	96	NR	NR	NR	98	NR	NR
8/8/2011	B	645	3	149	8,461	15	0	82	NR	NR	NR	89	NR	NR
8/15/2011	B	652	3	140	8,631	14	0	73	NR	NR	NR	76	NR	NR
8/22/2011	B	620	4	144	8,794	14	0	74	NR	NR	NR	78	NR	NR
9/1/2011	A	650	9	100	8,939	0	0	75	1,624	NR	NR	79	NR	178
9/23/2011	A	650	9	145	8,996	75	7	125	1,626	210	12	92	6,080	178

Table 6
Process Monitoring

Dover Municipal Landfill Superfund Site, Dover, NH

Date	Event Type	SVE Total Air Flow (scfm)	SVE Vacuum (in. Hg)	SVE Disc. Temp. (deg. F)	SVE Total Runtime (hrs)	Air Sparge PTC- Total Air Flow (scfm)	Air Sparge PTC- Pressure (psi)	Air Sparge PTC- Disc. Temp. (deg. F)	Air Sparge PTC- Total Runtime (hrs)	Air Sparge VOCTA- Total Air Flow (scfm)	Air Sparge VOCTA- Pressure (psi)	Air Sparge VOCTA- Disc. Temp. (deg. F)	Air Sparge VOCTA- Total Runtime* (hrs)	Transfer Pump - Total Runtime^

Notes:

SVE = soil vapor extraction
in. Hg = inches of mercury
deg. F = degress Fahrenheit
hrs = hours
scfm = standard cubic feet per minute
psi = pounds per square inch
ppmv = parts per million by volume
PTC = Perimeter Treatment Curtain
VOCTA = Volatile Organic Carbon Treatment Area
NR = not recorded
Disc. Temp. = discharge temperature

A = Recorded during site visit
B = Recorded during telemetry status check

The flow rate readings for the VOCTA recorded via telemetry in August and September 2009 [Event Type B] are biased high due to the unit's calibration. More accurate flow rates were were recored during site visits [Event Type A].
Start date for system was August 10th 2009.

* = Two air compressors provide sparge air to the VOCTA. The air sparge runtime for the VOCTA is an average value of the two air compressors.
^ = Total runtime hours for the transfer pump differ between the site visit readings and telemetry readings; site visit readings are assumed to be more accurate.
** = Dilution valve on SVE system was open.
From 6/27/11 to present only onsite OM readings for hour meters are recorded due to compressor wiring.

Table 7
SVE Discharge VOC Concentrations

Dover Municipal Landfill Superfund Site, Dover, NH

Sample Event	Sample Date	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride
		(Concentrations are reported in ppmv)															
Maximum Allowable Stack Concentration		7,829	15,644	109,359	44,031	4,413	364,517	364,554	318	11,017	11,017	156	20,726	15,579	31,232	31,232	234
SVE	6/19/2009	43	9.2	5.9	14.0	1.4	410	0.8	71.0	1.5	0.7	0.62 U	9.4	140.0	25.0	6.2	84.0
SVE	7/6/2009	58	8.5	4.0	7.4	0.5	210	0.5	13.0	3.7	1.4	0.25 U	11.0	120.0	31.0	8.4	40.0
AS/SVE (Line A)	7/14/2009	76	10.0	10.0	9.3	0.6	200	0.5	21.0	4.1	1.7	0.25	14.0	140.0	38.0	10.0	46.0
AS/SVE (Line C)	7/14/2009	84	11.0	16.0	10.0	0.8	230	0.6	21.0	4.2	1.8	0.50 U	15.0	160.0	42.0	11.0	52.0
AS/SVE (Line B)	7/15/2009	72	9.4	14.0	8.4	0.6	180	0.5	18.0	3.7	1.5	0.25 U	13.0	130.0	35.0	9.8	39.0
AS/SVE (Line D)	7/15/2009	76	9.9	12.0	9.2	0.6	190	0.5	21.0	3.9	1.6	0.25 U	13.0	140.0	36.0	10.0	43.0
AS/SVE (Line E)	7/27/2009	40 J	8.1	4.0	5.4	0.3	130	0.4	6.2	3.8	1.4	0.21 U	11.0	110.0	32.0	9.0	28.0
SVE	8/14/2009	68	8.9	13.0	7.6	0.4 U	130	0.4	6.0	2.2	1.1	0.40 U	8.6	100.0	25.0	7.2	36.0
AS/SVE (Line D)	8/21/2009	140	12.0	26.0	13.0	1.1 U	200	1.1 U	6.6	6.3	3.0	1.10 U	17.0	190.0	53.0	16.0	65.0
AS/SVE (Line B)	9/25/2009	140	11.0	14.0	6.5	1.0 U	110	1.0 U	3.9	4.9	2.6	1.00 U	11.0	140.0	40.0	12.0	30.0
AS/SVE (Lines A&D)	10/22/2009	120	8.4	8.2	4.4	1.0 U	70	1.0 U	2.4	4.6	2.5	1.00 U	9.0	100.0	35.0	12.0	19.0
AS/SVE (Lines B&C)	11/24/2009	140	9.9	9.0	3.9	0.2	60	0.2	2.2	7.2	3.9	0.17 U	10.0	78.0	41.0	16.0	18.0
AS/SVE (Line B)	4/21/2010	59	9.5	7.2	6.4	0.4	87	0.6	77.0	1.0	0.7	0.12 U	3.7	56.0	13.0	4.1	24.0
AS/SVE (Lines B&D)	5/27/2010	100	6.9	6.3	2.8	0.1 U	42	0.2	4.2	2.4	1.7	0.12 U	3.8	42.0	16.0	6.7	9.7
AS/SVE (Line B)	6/15/2010	90	5.9	4.9	2.4	0.1 U	36	0.2	6.0	1.9	1.3	0.12 U	3.2	30.0	13.0	5.5	8.1

Table 7
SVE Discharge VOC Concentrations

Dover Municipal Landfill Superfund Site, Dover, NH

Sample Event	Sample Date	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride
		(Concentrations are reported in ppmv)															
Maximum Allowable Stack Concentration		7,829	15,644	109,359	44,031	4,413	364,517	364,554	318	11,017	11,017	156	20,726	15,579	31,232	31,232	234
AS/SVE (Line B)	6/17/2010	150	9.6	6.6	3.4	0.3 U	59	0.3	5.2	3.4	2.2	0.25 U	5.8	58.0	26.0	10.0	16.0
AS/SVE (Line A)	7/22/2010	160	12.0	6.1	3.2	0.3 U	54	0.3 U	5.1	6.3	3.8	0.28 U	8.3	68.0	34.0	13.0	14.0
AS/SVE (Line B)	8/26/2010	210	15.0	8.4	4.0	0.3 U	51	0.3	4.8	7.8	4.7	0.25 U	12.0	91.0	42.0	17.0	18.0
AS/SVE (Line B)	10/7/2010	160	14.0	8.5	4.9	0.2 U	61	0.4	6.2	7.0	4.1	0.21 U	9.6	82.0	32.0	13.0	24.0
AS/SVE (Line B)	10/29/2010	200	15.0	9.6	4.7	0.3 U	52	0.4	4.5	9.6	5.1	0.25 U	13.0	83.0	45.0	18.0	28.0
AS/SVE (Lines A&B)	11/18/2010	110	6.4	4.3	1.9	0.1 U	18	0.1 U	1.4	4.0	2.3	0.12 U	5.0	31.0	16.0	6.7	9.0
SVE	5/9/2011 *	10	1.9	1.0	1.4	0.1	16	0.1	18.0	0.4	0.2	0.32	0.7	8.4	2.1	0.8	4.7
SVE	5/16/2011 *	7	0.8	0.4	0.5	0.0	6	0.0	2.6	0.2	0.1	0.01 U	0.4	4.2	1.4	0.5	2.0
AS/SVE (Line B)	5/18/2011 *	4	0.5	0.4	0.4	0.0	5	0.0	7.3	0.1	0.1	0.02 U	0.2	2.6	0.8	0.3	1.1
AS/SVE (Line B)	5/23/2011	49	5.5	3.6	2.8	0.2	48	0.3	14.0	1.6	0.9	0.06 U	2.6	26.0	8.6	3.5	13.0
SVE	6/3/2011	42	4.7	2.5	2.0	0.1	31	0.2	12.0	1.3	0.8	0.06 U	2.1	19.0	7.0	3.2	8.3
AS/SVE (Line C)	6/10/2011	20	2.7	1.5	1.0	0.1	16	0.1	10.0	0.7	0.5	0.03 U	0.9	8.6	3.2	1.7	3.2
SVE	7/27/2011	7	0.9	0.4	0.3	0.0	5	0.0	1.9 J	0.1	0.1	0.01 U	0.2	2.2	0.5	0.4	1.0
SVE	9/1/2011	18	2.1	1.0	1.0	0.1 U	11	0.1 U	11.0	0.2	0.2	0.10 U	0.6	11.0	1.5	0.9	3.1

Table 7
SVE Discharge VOC Concentrations

Dover Municipal Landfill Superfund Site, Dover, NH

Sample Event	Sample Date	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride
		(Concentrations are reported in ppmv)															
Maximum Allowable Stack Concentration		7,829	15,644	109,359	44,031	4,413	364,517	364,554	318	11,017	11,017	156	20,726	15,579	31,232	31,232	234

Notes:

Sample Event Designation SVE = Sample collected during operation of soil vapor extraction system only
Sample Event Designation AS/SVE (Line X) = Sample collected during operation of both the soil vapor extraction and air sparging systems (applicable air sparging system leg indicated in parantheses)
SVE = soil vapor extraction
VOC = volatile organic compound
ppmv = parts per million by volume
U = compound was not detected at the indicated concentration
PCE = tetrachloroethene
TCE = trichloroethene
1,1,1-TCA = 1,1,1-trichloroethane
1,1-DCA = 1,1-dichloroethane
1,1-DCE = 1,1-dichloroethene
cis-1,2-DCE = cis-1,2-dichloroethene
trans-1,2-DCE = trans-1,2-dichloroethene
J = estimated value
* = Sample collected with dilution valve open

Table 8
Vapor Probe Data

Dover Municipal Landfill Superfund Site, Dover, NH

	Vapor Probe ID	Vacuum (in. H2O)	Total VOCs (ppmv)	Methane (%)
6/18/2009				
	VP-01	0	2.7	-
	VP-02	0	2.4	-
	VP-03	0	8.6	-
	VP-04	0	7.7	-
	VP-05	0	18.6	1.4
	VP-06	0	3.1	60.5
8/21/2009				
	VP-01	0.04	-	-
	VP-02	0	-	-
	VP-03	0.18	-	-
	VP-04	0.4	-	-
	VP-05	0.1	14.2	0.4
	VP-06	0.02	0.7	0.4
9/25/2009				
	VP-01	0.04	-	-
	VP-02	0	-	-
	VP-03	0.18	-	-
	VP-04	0.38	-	-
10/8/2009				
	VP-05	0.08	2	0
	VP-06	0.1	18.6	0.1
10/23/2009				
	VP-01	0.05	-	-
	VP-02	0	-	-
	VP-03	0.1	-	-
	VP-04	0.35	-	-
	VP-05	0	13.9	0
	VP-06	0.065	7.2	0
11/24/2009				
	VP-01	0	-	-
	VP-02	0.005	-	-
	VP-03	0.005	-	-
	VP-04	0.01	-	-
	VP-05	0	0.2	0
	VP-06	0.05	0.2	0
4/2/2010				
	VP-01	0	1.5	-

Table 8
Vapor Probe Data

Dover Municipal Landfill Superfund Site, Dover, NH

	Vapor Probe ID	Vacuum (in. H2O)	Total VOCs (ppmv)	Methane (%)
	VP-02	0	2.5	-
	VP-03	0	2.7	-
	VP-04	0	2.5	-
	VP-05	0	0.7	0.5
	VP-06	0	2.4	57.2
6/15/2010				
	VP-01	0.155	0.3	-
	VP-02	0.205	0	-
	VP-03	0.185	42.7	-
	VP-04	0.35	0.2	-
	VP-05	0.01	0.2	0.1
	VP-06	0.125	0.2	0
7/22/2010				
	VP-01	0.01	-	-
	VP-02	0	-	-
	VP-03	0.015	-	-
	VP-04	0.45	-	-
	VP-05	0	-	0
	VP-06	0.13	-	0
8/26/2010				
	VP-01	0.09	0.6	0.1
	VP-02	0.02	2.5	0.1
	VP-03	0	96	0
	VP-04	1	0.2	0.2
	VP-05	0.005	0	0
	VP-06	0.06	0	0
10/8/2010				
	VP-01	0.09	0.7	0
	VP-02	0.09	0.6	0
	VP-03	0.08	164	0
	VP-04	0.075	1	0
	VP-05	0.035	0.6	0
	VP-06	0.105	2.4	0
10/29/2010				
	VP-01	0.1	3.5	0
	VP-02	0	1.6	0
	VP-03	0	230	0
	VP-04	0.4	0.7	0

Table 8
Vapor Probe Data

Dover Municipal Landfill Superfund Site, Dover, NH

	Vapor Probe ID	Vacuum (in. H2O)	Total VOCs (ppmv)	Methane (%)
	VP-05	0	2	0
	VP-06	0	5.3	0.2
3/31/2011				
	VP-01	0	6.3	0.1
	VP-02	0	0.1	0.1
	VP-03	0.05	0.5	0
	VP-04	0	33.8	0.2
	VP-05	0	0.4	0.1
	VP-06	0	29	0.1
5/18/2011				
	VP-01	0.25	0	0
	VP-01	0	0	0
	VP-02	0.025	0.3	0
	VP-03	0.25	33.4	0.5
	VP-04	0.025	0	0
	VP-05	0.03	4.2	0
	VP-06	0.005	19.3	1.2
5/23/2011				
	VP-01	0.25	0	0
	VP-01	0.25	0	0
	VP-02	0.05	0	0
	VP-03	0.01	0	0
	VP-04	0.85	0	0
	VP-05	0	0	0
	VP-06	0.25	0	0
6/11/2011				
	VP-01	0.14	-	-
	VP-02	0.175	-	-
	VP-03	0	-	-
	VP-04	0.5	-	-
	VP-05	0	-	-
	VP-06	0	-	-
7/27/2011				
	VP-01	0	0	0
	VP-02	0.135	0	0
	VP-03	0.13	0	0
	VP-04	0.35	0	0.3
	VP-05	0	0	0

Table 8
Vapor Probe Data

Dover Municipal Landfill Superfund Site, Dover, NH

	Vapor Probe ID	Vacuum (in. H2O)	Total VOCs (ppmv)	Methane (%)
	VP-06	0	0	0
9/23/2011				
	VP-01	0.105	-	-
	VP-02	0.125	-	-
	VP-03	0.13	-	-
	VP-04	0.175	-	-
	VP-05	0	-	-
	VP-06	0	-	-

Notes:

VOCs = volatile organic compounds
in. H2O = inches of water
ppmv = parts per million by volume
% = percentage

Total VOCs were measured in the field using a photoionization detector.
- = per the work plan, parameter was not recorded.

During the September 25, 2009 Operations and Monitoring event, data could not be recorded at VP-05 and VP-06 due to equipment issues; these data were recorded during the next site visit, which occurred on October 8, 2009.

Table 9
Aqueous Carbon Treatment VOC Concentrations
Dover Municipal Landfill Superfund Site, Dover, NH

Sample Date	Sample	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis1,2-DCE	trans-1,2-DCE	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride	1,4-Dioxane	Vinyl Chloride	Benzene	THF
		(Concentrations are presented in ppb)																	
9/25/2009																			
	Carbon Inf.	1,600	190	120	150	10 U	3,500	20 U	140	78	61	2,400	700	480	1,300	700	20 U	20 U	240
	Carbon Eff	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	50 U	2 U	2 U	10 U
10/22/2009																			
	Carbon Inf.	1,600	180	110	120	5 U	2,800	12	150	74	160	2,400	680	450	1,100	540	10 U	10 U	210
	Carbon Eff	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	50 U	2 U	2 U	10 U
11/23/2009																			
	Carbon Inf.	1,700	140	98	86	5 U	1,600	10 U	150	92	84	1,100	480	350	730	490	10 U	10 U	140
	Carbon Eff	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	50 U	2 U	2 U	10 U
6/21/2010																			
	Carbon Inf.	1,900	190	53	68	5 U	1,700	13	29 J	91	10 U	510	240	430	710	400	13	10 U	140
	Carbon Eff	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	50 U	2 U	2 U	54
7/22/2010																			
	Carbon Inf.	1,200	210	55	62	5 U	1,500	12	10 U	79	10 U	940	88 J	350	630	330	15	10 U	81
	Carbon Eff	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	50 U	2 U	2 U	10 U
10/7/2010																			
	Carbon Inf.	1,300	180	47	61	5 U	1,200	10 U	130	58	94	1,400	450	300	520	250 U	18	10 U	50 U
	Carbon Eff	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	50 U	2 U	2 U	10 U
10/29/2010																			
	Carbon Inf.	1,100	120	41	38	5 U	730	10 U	95	55	58	760	330	260	410	250 U	10 U	10 U	57
	Carbon Eff	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	65	2 U	2 U	12
11/18/2010																			
	Carbon Inf.	1,000	90	39	46	5 U	590	10 U	23	60	26	350	83	210	510 J	260	10 U	10 U	55
	Carbon Eff	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	75	2 U	2 U	12
7/27/2011																			
	Carbon Inf.	290	38	7	14	1 U	340	2 U	2 U	11	2 U	17	2 U	46	120	50 U	13	2 U	16
	Carbon Eff	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	50 U	2 U	2 U	11
9/1/2011																			

Table 9
Aqueous Carbon Treatment VOC Concentrations
Dover Municipal Landfill Superfund Site, Dover, NH

Sample Date	Sample	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis1,2-DCE	trans-1,2-DCE	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride	1,4-Dioxane	Vinyl Chloride	Benzene	THF
(Concentrations are presented in ppb)																			
9/1/2011																			
	Carbon Inf.	220	37	7	18	1 U	260	2 U	4	9	6	70	16	38	32	50 U	24	2 U	69
	Carbon Eff	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	50 U	2 U	2 U	10 U

Notes:

VOC = volatile organic compound
Inf. = influent
Eff = effluent
ppb = parts per billion
U = compound was not detected at the indicated concentration
J = estimated concentration
PCE = tetrachloroethene
TCE = trichloroethene
1,1,1-TCA = 1,1,1-trichloroethane
1,1-DCA = 1,1-dichloroethane
1,1-DCE = 1,1-dichloroethene
cis-1,2-DCE = cis-1,2-dichloroethene
trans-1,2-DCE = trans-1,2-dichloroethene
MEK = methyl ethyl ketone
MIBK = methyl isobutyl ketone
THF = tetrahydrofuran
No sample was collected in August 2010 due to a lack of available water.

Table 10
AS and SVE System Mass Removal Total
Dover Muncipal Landfill Superfund Site, Dover, NH

Sample ID	Operational System Component	Sample Date	Cumulative Run Time	Flow Rate	Tetrachloroethene			Trichloroethene			1,1,1-Trichloroethane			1,1-Dichloroethane			1,1-Dichloroethene			cis-1,2-Dichloroethene		
			hours	scfm	ppmv	lb/hr	total lbs	ppmv	lb/hr	total lbs	ppmv	lb/hr	total lbs	ppmv	lb/hr	total lbs	ppmv	lb/hr	Total lbs	ppmv	lb/hr	total lbs
STACK 050911	SVE - Startup	5/9/2011	6,807	900	10	0.229	NC	1.9	0.034	NC	1.0	0.018	NC	1.4	0.019	NC	0.12	0.002	NC	16	0.214	NC
STACK 051611	SVE	5/16/2011	6,971	900	7	0.160	32	0.8	0.014	4	0.4	0.007	2	0.5	0.007	2	0.02	0.000	0.2	6	0.080	24
SVE Sample 051811	AS+SVE	5/18/2011	7,018	900	4	0.091	6	0.5	0.009	1	0.4	0.007	0	0.4	0.005	0	0.05	0.001	0.0	5	0.067	3
SVE stack 052311	AS+SVE	5/23/2011	7,137	725	49	0.902	59	5.5	0.080	5	3.6	0.053	4	2.8	0.031	2	0.19	0.002	0.2	48	0.516	35
Stack SVE 060311	SVE	6/3/2011	7,238	725	42	0.773	84	5	0.069	7	2.5	0.037	5	2.0	0.022	3	0.12	0.001	0.2	31	0.333	43
SVE stack 061011	AS+SVE	6/10/2011	7,342	725	20	0.368	59	3	0.039	6	1.5	0.022	3	1.0	0.011	2	0.08	0.001	0.1	16	0.172	26
SVE Stack 072711	SVE	7/27/2011	8,262	690	7	0.123	226	1	0.012	24	0.4	0.006	13	0.3	0.003	7	0.0	0.000	0.4	5	0.051	103
SVE STACK 090111	SVE	9/1/2011	8,939	650	18	0.297	142	2	0.027	14	1.0	0.013	6	1.0	0.010	4	0.0	0.000	0.0	11	0.106	53
Total Mass Removed:							**609**			**60**			**33**			**20**			**1**			**287**

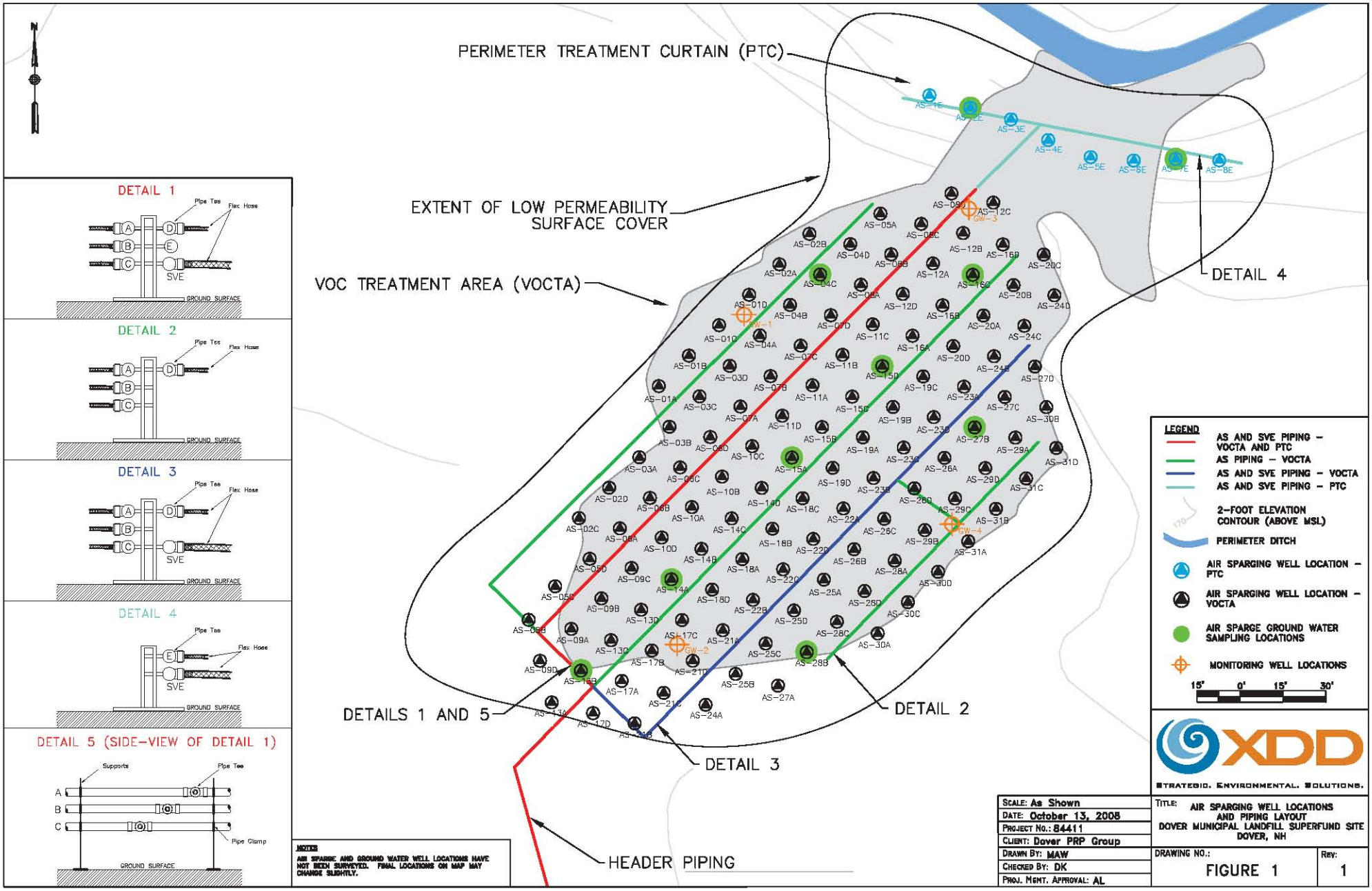
Sample ID	Operational System Component	Sample Date	Cumulative Run Time	Flow Rate	trans-1,2-Dichloroethene			Vinyl Chloride			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			Benzene			Ethylbenzene		
			hours	scfm	ppmv	lb/hr	total lbs	ppmv	lb/hr	Total lbs	ppmv	lb/hr	total lbs	ppmv	lb/hr	total lbs	ppmv	lb/hr	total lbs	ppmv	lb/hr	total lbs
STACK 050911	SVE - Startup	5/9/2011	6,807	900	0.08	0.001	NC	18	0.155	NC	0.4	0.007	NC	0.2	0.003	NC	0.3	0.003	NC	0.7	0.010	NC
STACK 051611	SVE	5/16/2011	6,971	900	0.04	0.001	0.1	2.6	0.022	15	0.2	0.003	1	0.1	0.002	0	0.0	0.000	0.3	0.4	0.000	1
SVE Sample 051811	AS+SVE	5/18/2011	7,018	900	0.03	0.000	0.0	7.3	0.063	2	0.1	0.002	0	0.1	0.002	0	0.0	0.000	0.0	0.2	0.000	0
SVE stack 052311	AS+SVE	5/23/2011	7,137	725	0.26	0.003	0.2	14.0	0.097	10	1.6	0.021	1	0.9	0.012	1	0.0	0.000	0.0	2.6	0.000	0
Stack SVE 060311	SVE	6/3/2011	7,238	725	0.18	0.003	0	12.0	0.175	14	1.3	0.019	2	0.8	0.009	1	0.0	0.000	0.0	2.1	0.023	1
SVE stack 061011	AS+SVE	6/10/2011	7,342	725	1.00	0.018	1	10.0	0.146	17	0.7	0.010	2	0.5	0.005	1	0.0	0.000	0.0	0.9	0.010	2
SVE Stack 072711	SVE	7/27/2011	8,262	690	0.0	0.001	9	1.9	0.026	79	0.1	0.001	5	0.1	0.001	3	0.0	0.000	0.0	0.2	0.002	5
SVE STACK 090111	SVE	9/1/2011	8,939	650	0.0	0.000	0	11.0	0.144	58	0.2	0.003	1	0.2	0.002	1	0.0	0.000	0.0	0.6	0.006	3
Total Mass Removed:							**11**			**193**			**13**			**7**			**0**			**12**

Sample ID	Operational System Component	Sample Date	Cumulative Run Time	Flow Rate	Toluene			m&p-Xylenes			o-Xylene			Methylene Chloride			Total VOCs Removed in 2011		
			hours	scfm	ppmv	lb/hr	total lbs	ppmv	lb/hr	Total lbs	ppmv	lb/hr	Total lbs	ppmv	lb/hr	total lbs	ppmv	lb/day	total lbs
STACK 050911	SVE - Startup	5/9/2011	6,807	900	8	0.102	NC	2	0.029	NC	0.8	0.012	NC	5	0.058	NC	66	22	NC
STACK 051611	SVE	5/16/2011	6,971	900	4	0.051	13	1	0.015	4	0.5	0.007	2	2	0.023	7	26	9	106
SVE Sample 051811	AS+SVE	5/18/2011	7,018	900	3	0.038	2	1	0.015	1	0.3	0.004	0	1	0.012	1	23	8	16
SVE stack 052311	AS+SVE	5/23/2011	7,137	725	26	0.266	18	9	0.106	7	4	0.041	3	13	0.123	8	180	54	154
Stack SVE 060311	SVE	6/3/2011	7,238	725	19	0.350	31	7	0.102	10	3	0.047	4	8	0.088	11	136	49	217
SVE stack 061011	AS+SVE	6/10/2011	7,406	725	9	0.166	43	3	0.044	12	2	0.025	6	3	0.033	10	71	26	190
SVE Stack 072711	SVE	7/27/2011	8,262	690	2.2	0.039	87	1	0.007	22	0	0.006	13	1	0.010	19	20	7	615
SVE STACK 090111	SVE	9/1/2011	8,939	650	11	0.182	75	2	0.020	9	1	0.012	6	3	0.031	14	62	20	386
Total Mass Removed:							**269**			**65**			**34**			**69**			**1,684**
																Total VOCs Removed in 2010:			**22,525**
																Total VOCs Removed:			**41,812**

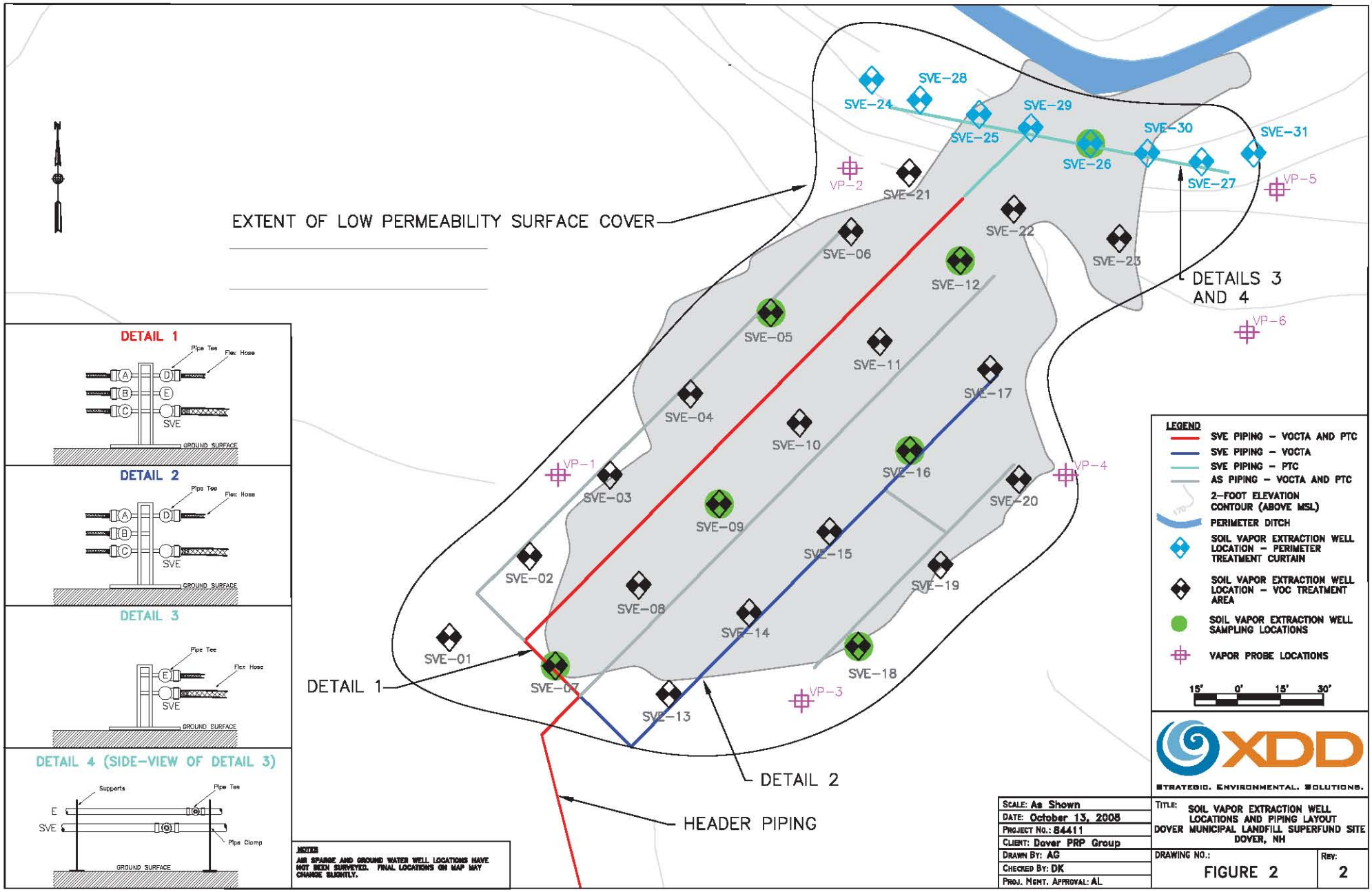
Notes:

scfm = standard cubic feet per minute
ppmv = parts per million by volume
hr = hour
NC = not calculated
lb = pound
SVE = system operating in soil vapor extraction mode only
AS = system operating in air sparging and soil vapor extraction mode
VOCs = volatile organic compounds

FIGURES



NOTES:
AIR SPARGE AND GROUND WATER WELL LOCATIONS HAVE NOT BEEN SURVEYED. FINAL LOCATIONS ON MAP MAY CHANGE SLIGHTLY.


EXTENT OF LOW PERMEABILITY SURFACE COVER
DETAILS 3 AND 4
DETAIL 1
DETAIL 2
HEADER PIPING
SVE-01
SVE-02
SVE-03
SVE-04
SVE-05
SVE-06
SVE-07
SVE-08
SVE-09
SVE-10
SVE-11
SVE-12
SVE-13
SVE-14
SVE-15
SVE-16
SVE-17
SVE-18
SVE-19
SVE-20
SVE-21
SVE-22
SVE-23
SVE-24
SVE-25
SVE-26
SVE-27
SVE-28
SVE-29
SVE-30
SVE-31
VP-1
VP-2
VP-3
VP-4
VP-5
VP-6
DETAIL 1
Pipe Tee
Flex Hose
SVE
GROUND SURFACE
DETAIL 2
Pipe Tee
Flex Hose
SVE
GROUND SURFACE
DETAIL 3
Pipe Tee
Flex Hose
SVE
GROUND SURFACE
DETAIL 4 (SIDE-VIEW OF DETAIL 3)
Supports
Pipe Tee
E
SVE
Pipe Clamp
GROUND SURFACE
NOTES:
AIR SPARGE AND GROUND WATER WELL LOCATIONS HAVE NOT BEEN SURVEYED. FINAL LOCATIONS ON MAP MAY CHANGE SLIGHTLY.
LEGEND
SVE PIPING – VOCTA AND PTC
SVE PIPING – VOCTA
SVE PIPING – PTC
AS PIPING – VOCTA AND PTC
2-FOOT ELEVATION CONTOUR (ABOVE MSL)
PERIMETER DITCH
SOIL VAPOR EXTRACTION WELL LOCATION – PERIMETER TREATMENT CURTAIN
SOIL VAPOR EXTRACTION WELL LOCATION – VOC TREATMENT AREA
SOIL VAPOR EXTRACTION WELL SAMPLING LOCATIONS
VAPOR PROBE LOCATIONS
15' 0' 15' 30'
XDD
STRATEGIC. ENVIRONMENTAL. SOLUTIONS.
SCALE: As Shown
DATE: October 13, 2008
PROJECT NO.: 84411
CLIENT: Dover PRP Group
DRAWN BY: AG
CHECKED BY: DK
PROJ. MGMT. APPROVAL: AL
TITLE: SOIL VAPOR EXTRACTION WELL LOCATIONS AND PIPING LAYOUT
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NH
DRAWING NO.: FIGURE 2
REV: 2

APPENDIX A

Air Toxics LTD.
Laboratory Services Since 1989

7/27/2011
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Landfill
Project #: 84411
Workorder #: 1107230

Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 7/14/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1107230

Work Order Summary

CLIENT:	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3 Stratham, NH 03885	**BILL TO:**	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3
PHONE:	603-778-1100	**P.O. #**	2123
FAX:	603-778-2121	**PROJECT #**	84411 Dover Landfill
DATE RECEIVED:	07/14/2011	**CONTACT:**	Ausha Scott
DATE COMPLETED:	07/27/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	Tolend Road 070611	Modified TO-15	3.5 "Hg	5 psi
02A	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA
04AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda L. Freeman DATE: 07/27/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
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
EPA Method TO-15
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 1107230

One 6 Liter Summa Canister sample was received on July 14, 2011. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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 not 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 and/or LCS.
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.
Laboratory Services Since 1989

Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: Tolend Road 070611

Lab ID#: 1107230-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	3.0	6.1	7.2	14

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Tolend Road 070611

Lab ID#: 1107230-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2071817**	**Date of Collection:**	**7/6/11 5:30:00 PM**
Dil. Factor:	**1.52**	**Date of Analysis:**	**7/18/11 06:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.76	Not Detected	3.8	Not Detected
Freon 114	0.76	Not Detected	5.3	Not Detected
Chloromethane	3.0	Not Detected	6.3	Not Detected
Vinyl Chloride	0.76	Not Detected	1.9	Not Detected
1,3-Butadiene	0.76	Not Detected	1.7	Not Detected
Bromomethane	0.76	Not Detected	3.0	Not Detected
Chloroethane	3.0	Not Detected	8.0	Not Detected
Freon 11	0.76	Not Detected	4.3	Not Detected
Ethanol	3.0	Not Detected	5.7	Not Detected
Freon 113	0.76	Not Detected	5.8	Not Detected
1,1-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Acetone	3.0	6.1	7.2	14
2-Propanol	3.0	Not Detected	7.5	Not Detected
Carbon Disulfide	3.0	Not Detected	9.5	Not Detected
3-Chloropropene	3.0	Not Detected	9.5	Not Detected
Methylene Chloride	0.76	Not Detected	2.6	Not Detected
Methyl tert-butyl ether	0.76	Not Detected	2.7	Not Detected
trans-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Hexane	0.76	Not Detected	2.7	Not Detected
1,1-Dichloroethane	0.76	Not Detected	3.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.0	Not Detected	9.0	Not Detected
cis-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected
Tetrahydrofuran	0.76	Not Detected	2.2	Not Detected
Chloroform	0.76	Not Detected	3.7	Not Detected
1,1,1-Trichloroethane	0.76	Not Detected	4.1	Not Detected
Cyclohexane	0.76	Not Detected	2.6	Not Detected
Carbon Tetrachloride	0.76	Not Detected	4.8	Not Detected
2,2,4-Trimethylpentane	0.76	Not Detected	3.6	Not Detected
Benzene	0.76	Not Detected	2.4	Not Detected
1,2-Dichloroethane	0.76	Not Detected	3.1	Not Detected
Heptane	0.76	Not Detected	3.1	Not Detected
Trichloroethene	0.76	Not Detected	4.1	Not Detected
1,2-Dichloropropane	0.76	Not Detected	3.5	Not Detected
1,4-Dioxane	3.0	Not Detected	11	Not Detected
Bromodichloromethane	0.76	Not Detected	5.1	Not Detected
cis-1,3-Dichloropropene	0.76	Not Detected	3.4	Not Detected
4-Methyl-2-pentanone	0.76	Not Detected	3.1	Not Detected
Toluene	0.76	Not Detected	2.9	Not Detected
trans-1,3-Dichloropropene	0.76	Not Detected	3.4	Not Detected
1,1,2-Trichloroethane	0.76	Not Detected	4.1	Not Detected
Tetrachloroethene	0.76	Not Detected	5.2	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Tolend Road 070611

Lab ID#: 1107230-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2071817**	**Date of Collection:**	**7/6/11 5:30:00 PM**
Dil. Factor:	**1.52**	**Date of Analysis:**	**7/18/11 06:38 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	3.0	Not Detected	12	Not Detected
Dibromochloromethane	0.76	Not Detected	6.5	Not Detected
1,2-Dibromoethane (EDB)	0.76	Not Detected	5.8	Not Detected
Chlorobenzene	0.76	Not Detected	3.5	Not Detected
Ethyl Benzene	0.76	Not Detected	3.3	Not Detected
m,p-Xylene	0.76	Not Detected	3.3	Not Detected
o-Xylene	0.76	Not Detected	3.3	Not Detected
Styrene	0.76	Not Detected	3.2	Not Detected
Bromoform	0.76	Not Detected	7.8	Not Detected
Cumene	0.76	Not Detected	3.7	Not Detected
1,1,2,2-Tetrachloroethane	0.76	Not Detected	5.2	Not Detected
Propylbenzene	0.76	Not Detected	3.7	Not Detected
4-Ethyltoluene	0.76	Not Detected	3.7	Not Detected
1,3,5-Trimethylbenzene	0.76	Not Detected	3.7	Not Detected
1,2,4-Trimethylbenzene	0.76	Not Detected	3.7	Not Detected
1,3-Dichlorobenzene	0.76	Not Detected	4.6	Not Detected
1,4-Dichlorobenzene	0.76	Not Detected	4.6	Not Detected
alpha-Chlorotoluene	0.76	Not Detected	3.9	Not Detected
1,2-Dichlorobenzene	0.76	Not Detected	4.6	Not Detected
1,2,4-Trichlorobenzene	3.0	Not Detected	22	Not Detected
Hexachlorobutadiene	3.0	Not Detected	32	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1107230-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2071807**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/18/11 10:09 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1107230-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2071807**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/18/11 10:09 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1107230-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2071802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/18/11 06:54 AM**	

Compound	%Recovery
Freon 12	87
Freon 114	90
Chloromethane	94
Vinyl Chloride	89
1,3-Butadiene	85
Bromomethane	95
Chloroethane	99
Freon 11	82
Ethanol	102
Freon 113	86
1,1-Dichloroethene	92
Acetone	93
2-Propanol	96
Carbon Disulfide	92
3-Chloropropene	101
Methylene Chloride	88
Methyl tert-butyl ether	89
trans-1,2-Dichloroethene	85
Hexane	84
1,1-Dichloroethane	85
2-Butanone (Methyl Ethyl Ketone)	95
cis-1,2-Dichloroethene	87
Tetrahydrofuran	87
Chloroform	83
1,1,1-Trichloroethane	86
Cyclohexane	86
Carbon Tetrachloride	86
2,2,4-Trimethylpentane	83
Benzene	83
1,2-Dichloroethane	82
Heptane	82
Trichloroethene	85
1,2-Dichloropropane	86
1,4-Dioxane	86
Bromodichloromethane	86
cis-1,3-Dichloropropene	90
4-Methyl-2-pentanone	90
Toluene	82
trans-1,3-Dichloropropene	94
1,1,2-Trichloroethane	82
Tetrachloroethene	84

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1107230-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2071802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/18/11 06:54 AM**	

Compound	%Recovery
2-Hexanone	91
Dibromochloromethane	86
1,2-Dibromoethane (EDB)	85
Chlorobenzene	85
Ethyl Benzene	87
m,p-Xylene	92
o-Xylene	95
Styrene	94
Bromoform	88
Cumene	97
1,1,2,2-Tetrachloroethane	83
Propylbenzene	99
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	95
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	92
1,4-Dichlorobenzene	93
alpha-Chlorotoluene	117
1,2-Dichlorobenzene	94
1,2,4-Trichlorobenzene	80
Hexachlorobutadiene	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	108	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1107230-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2071803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/18/11 07:31 AM**	

Compound	%Recovery
Freon 12	91
Freon 114	94
Chloromethane	95
Vinyl Chloride	96
1,3-Butadiene	89
Bromomethane	100
Chloroethane	105
Freon 11	88
Ethanol	100
Freon 113	97
1,1-Dichloroethene	104
Acetone	100
2-Propanol	103
Carbon Disulfide	109
3-Chloropropene	112
Methylene Chloride	93
Methyl tert-butyl ether	102
trans-1,2-Dichloroethene	110
Hexane	90
1,1-Dichloroethane	95
2-Butanone (Methyl Ethyl Ketone)	101
cis-1,2-Dichloroethene	94
Tetrahydrofuran	91
Chloroform	91
1,1,1-Trichloroethane	94
Cyclohexane	93
Carbon Tetrachloride	94
2,2,4-Trimethylpentane	89
Benzene	93
1,2-Dichloroethane	90
Heptane	91
Trichloroethene	93
1,2-Dichloropropane	95
1,4-Dioxane	96
Bromodichloromethane	94
cis-1,3-Dichloropropene	99
4-Methyl-2-pentanone	98
Toluene	90
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	91
Tetrachloroethene	92

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1107230-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2071803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/18/11 07:31 AM**	

Compound	%Recovery
2-Hexanone	101
Dibromochloromethane	92
1,2-Dibromoethane (EDB)	94
Chlorobenzene	94
Ethyl Benzene	94
m,p-Xylene	103
o-Xylene	104
Styrene	104
Bromoform	94
Cumene	108
1,1,2,2-Tetrachloroethane	92
Propylbenzene	110
4-Ethyltoluene	109
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	126
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	95
Hexachlorobutadiene	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	109	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1107230-04AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2071804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/18/11 08:05 AM**	

Compound	%Recovery
Freon 12	88
Freon 114	92
Chloromethane	92
Vinyl Chloride	92
1,3-Butadiene	88
Bromomethane	97
Chloroethane	102
Freon 11	86
Ethanol	98
Freon 113	94
1,1-Dichloroethene	103
Acetone	100
2-Propanol	101
Carbon Disulfide	106
3-Chloropropene	112
Methylene Chloride	92
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	107
Hexane	89
1,1-Dichloroethane	94
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	94
Tetrahydrofuran	90
Chloroform	90
1,1,1-Trichloroethane	93
Cyclohexane	93
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	88
Benzene	90
1,2-Dichloroethane	87
Heptane	88
Trichloroethene	95
1,2-Dichloropropane	94
1,4-Dioxane	93
Bromodichloromethane	92
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	97
Toluene	88
trans-1,3-Dichloropropene	101
1,1,2-Trichloroethane	89
Tetrachloroethene	91

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1107230-04AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**2071804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/18/11 08:05 AM**	

Compound	**%Recovery**
2-Hexanone	100
Dibromochloromethane	91
1,2-Dibromoethane (EDB)	92
Chlorobenzene	92
Ethyl Benzene	94
m,p-Xylene	101
o-Xylene	103
Styrene	102
Bromoform	92
Cumene	105
1,1,2,2-Tetrachloroethane	90
Propylbenzene	109
4-Ethyltoluene	109
1,3,5-Trimethylbenzene	105
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	125
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	94
Hexachlorobutadiene	105

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	107	70-130

Absolute Resource associates
124 Heritage Avenue #10 Portsmouth, NH 03801

Dennis Keane
Xpert Design & Diagnostics, LLC
22 Marin Way
Unit 3
Stratham, NH 03885

PO Number: 2275
Job ID: 22086
Date Received: 7/27/11

Project: Dover 84411

Attached please find results for the analysis of the samples received on the date referenced above.

Samples were received unpreserved.
The following report has been revised to include results for p-dioxane, as requested by the customer.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 8/8/2011
Total number of pages: 10

Absolute Resource Associates Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: Dover 84411
Job ID: 22086
Sample#: 22086-001
Sample ID: Influent
Matrix: Water
Sampled: 7/27/11 10:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
vinyl chloride	**13**	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
methylene chloride	**120**	5	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
1,1-dichloroethane	**14**	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
cis-1,2-dichloroethene	**340**	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
tetrahydrofuran (THF)	**16**	10	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
1,1,1-trichloroethane	**7**	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
trichloroethene	**38**	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
bromodichloromethane	< 1	1	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**11**	10	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
toluene	**17**	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
tetrachloroethene	**290**	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
chlorobenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B

Revised to include p-dioxane 8/8/11

Absolute Resource associates

Project ID: Dover 84411
Job ID: 22086
Sample#: 22086-001
Sample ID: Influent
Matrix: Water
Sampled: 7/27/11 10:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	**46**	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
1,3,5-trimethylbenzene	**11**	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
1,4-dioxane	< 50	50	ug/L	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**98**	78-114	%	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
toluene-D8 SUR	**99**	88-110	%	1	LMM		1101570	7/29/11	7:06	SW5030B8260B
4-bromofluorobenzene SUR	**94**	86-115	%	1	LMM		1101570	7/29/11	7:06	SW5030B8260B

Revised to include p-dioxane 8/8/11

Absolute Resource associates

Project ID: Dover 84411
Job ID: 22086
Sample#: 22086-002
Sample ID: Effluent
Matrix: Water
Sampled: 7/27/11 10:03

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
tetrahydrofuran (THF)	**11**	10	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
bromodichloromethane	< 1	1	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
chlorobenzene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B

Revised to include p-dioxane 8/8/11

Absolute Resource associates

Project ID: Dover 84411
Job ID: 22086
Sample#: 22086-002
Sample ID: Effluent
Matrix: Water
Sampled: 7/27/11 10:03

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
1,4-dioxane	< 50	50	ug/L	1	LMM		1101570	7/28/11	0:20	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**96**	78-114	%	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
toluene-D8 SUR	**97**	88-110	%	1	LMM		1101536	7/28/11	0:20	SW5030B8260B
4-bromofluorobenzene SUR	**91**	86-115	%	1	LMM		1101536	7/28/11	0:20	SW5030B8260B

Revised to include p-dioxane 8/8/11

Absolute Resource associates

Project ID: Dover 84411
Job ID: 22086
Sample#: 22086-003
Sample ID: Dup-01
Matrix: Water
Sampled: 7/27/11 12:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
bromodichloromethane	< 1	1	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
chlorobenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B

Revised to include p-dioxane 8/8/11

Absolute Resource associates

Project ID: Dover 84411
Job ID: 22086
Sample#: 22086-003
Sample ID: Dup-01
Matrix: Water
Sampled: 7/27/11 12:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
1,4-dioxane	< 50	50	ug/L	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**94**	78-114	%	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
toluene-D8 SUR	**97**	88-110	%	1	LMM		1101570	7/29/11	1:55	SW5030B8260B
4-bromofluorobenzene SUR	**88**	86-115	%	1	LMM		1101570	7/29/11	1:55	SW5030B8260B

Revised to include p-dioxane 8/8/11

Absolute Resource associates

Project ID: Dover 84411
Job ID: 22086
Sample#: 22086-004
Sample ID: Trip Blank
Matrix: Water
Sampled: 7/27/11 12:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
bromodichloromethane	< 1	1	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
chlorobenzene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B

Revised to include p-dioxane 8/8/11

Absolute Resource associates

Project ID: Dover 84411
Job ID: 22086
Sample#: 22086-004
Sample ID: Trip Blank
Matrix: Water
Sampled: 7/27/11 12:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
o-xylene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
1,4-dioxane	< 50	50	ug/L	1	LMM		1101570	7/27/11	19:07	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**96**	78-114	%	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
toluene-D8 SUR	**95**	88-110	%	1	LMM		1101536	7/27/11	19:07	SW5030B8260B
4-bromofluorobenzene SUR	**86**	86-115	%	1	LMM		1101536	7/27/11	19:07	SW5030B8260B

Revised to include p-dioxane 8/8/11

Absolute Resource associates

Air Toxics LTD.
Laboratory Services Since 1989

8/11/2011
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Landfill
Project #: 84411
Workorder #: 1107481

Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 7/28/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1107481

Work Order Summary

CLIENT:	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3 Stratham, NH 03885	**BILL TO:**	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3
PHONE:	603-778-1100	**P.O. #**	2084
FAX:	603-778-2121	**PROJECT #**	84411 Dover Landfill
DATE RECEIVED:	07/28/2011	**CONTACT:**	Ausha Scott
DATE COMPLETED:	08/11/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SVE Stack 072711	Modified TO-15	Tedlar Bag	Tedlar Bag
02A	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA
04AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda L. Freeman DATE: 08/11/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
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
EPA Method TO-15
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 1107481

One 1 Liter Tedlar Bag sample was received on July 28, 2011. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit exceedences and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in CCV analyses have not been flagged.

Dilution was performed on sample SVE Stack 072711 due to the presence of high level target species.

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 not 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 and/or LCS.
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

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: SVE Stack 072711

Lab ID#: 1107481-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	8.4	13	41	64
Vinyl Chloride	8.4	1900 J	21	4800 J
Freon 11	8.4	150	47	850
Ethanol	33	360	63	680
Freon 113	8.4	25	64	200
1,1-Dichloroethene	8.4	14	33	55
2-Propanol	33	36	82	88
Carbon Disulfide	8.4	16	26	51
Methylene Chloride	8.4	1000	29	3600
trans-1,2-Dichloroethene	8.4	30	33	120
Hexane	8.4	56	29	200
1,1-Dichloroethane	8.4	320	34	1300
cis-1,2-Dichloroethene	8.4	4800	33	19000
1,1,1-Trichloroethane	8.4	390	46	2100
Cyclohexane	8.4	38	29	130
Heptane	8.4	61	34	250
Trichloroethene	8.4	940	45	5100
Toluene	8.4	2200	31	8100
Tetrachloroethene	8.4	7100	57	48000
Ethyl Benzene	8.4	160	36	710
m,p-Xylene	8.4	510	36	2200
o-Xylene	8.4	400	36	1700
Cumene	8.4	16	41	79
Propylbenzene	8.4	18	41	90
4-Ethyltoluene	8.4	140	41	670
1,3,5-Trimethylbenzene	8.4	83	41	410
1,2,4-Trimethylbenzene	8.4	58	41	280

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVE Stack 072711

Lab ID#: 1107481-01A

EPA METHOD TO-15 GC/MS

File Name:	**14072933**	**Date of Collection:**	**7/27/11 11:20:00 AM**
Dil. Factor:	**1.67**	**Date of Analysis:**	**7/29/11 07:15 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	8.4	13	41	64
Freon 114	8.4	Not Detected	58	Not Detected
Chloromethane	33	Not Detected	69	Not Detected
Vinyl Chloride	8.4	1900 J	21	4800 J
1,3-Butadiene	8.4	Not Detected	18	Not Detected
Bromomethane	8.4	Not Detected	32	Not Detected
Chloroethane	33	Not Detected	88	Not Detected
Freon 11	8.4	150	47	850
Ethanol	33	360	63	680
Freon 113	8.4	25	64	200
1,1-Dichloroethene	8.4	14	33	55
Acetone	33	Not Detected	79	Not Detected
2-Propanol	33	36	82	88
Carbon Disulfide	8.4	16	26	51
3-Chloropropene	33	Not Detected	100	Not Detected
Methylene Chloride	8.4	1000	29	3600
Methyl tert-butyl ether	8.4	Not Detected	30	Not Detected
trans-1,2-Dichloroethene	8.4	30	33	120
Hexane	8.4	56	29	200
1,1-Dichloroethane	8.4	320	34	1300
2-Butanone (Methyl Ethyl Ketone)	33	Not Detected	98	Not Detected
cis-1,2-Dichloroethene	8.4	4800	33	19000
Tetrahydrofuran	8.4	Not Detected	25	Not Detected
Chloroform	8.4	Not Detected	41	Not Detected
1,1,1-Trichloroethane	8.4	390	46	2100
Cyclohexane	8.4	38	29	130
Carbon Tetrachloride	8.4	Not Detected	52	Not Detected
2,2,4-Trimethylpentane	8.4	Not Detected	39	Not Detected
Benzene	8.4	Not Detected	27	Not Detected
1,2-Dichloroethane	8.4	Not Detected	34	Not Detected
Heptane	8.4	61	34	250
Trichloroethene	8.4	940	45	5100
1,2-Dichloropropane	8.4	Not Detected	38	Not Detected
1,4-Dioxane	33	Not Detected	120	Not Detected
Bromodichloromethane	8.4	Not Detected	56	Not Detected
cis-1,3-Dichloropropene	8.4	Not Detected	38	Not Detected
4-Methyl-2-pentanone	8.4	Not Detected	34	Not Detected
Toluene	8.4	2200	31	8100
trans-1,3-Dichloropropene	8.4	Not Detected	38	Not Detected
1,1,2-Trichloroethane	8.4	Not Detected	46	Not Detected
Tetrachloroethene	8.4	7100	57	48000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVE Stack 072711

Lab ID#: 1107481-01A

EPA METHOD TO-15 GC/MS

File Name:	**14072933**	**Date of Collection:**	**7/27/11 11:20:00 AM**
Dil. Factor:	**1.67**	**Date of Analysis:**	**7/29/11 07:15 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	33	Not Detected	140	Not Detected
Dibromochloromethane	8.4	Not Detected	71	Not Detected
1,2-Dibromoethane (EDB)	8.4	Not Detected	64	Not Detected
Chlorobenzene	8.4	Not Detected	38	Not Detected
Ethyl Benzene	8.4	160	36	710
m,p-Xylene	8.4	510	36	2200
o-Xylene	8.4	400	36	1700
Styrene	8.4	Not Detected	36	Not Detected
Bromoform	8.4	Not Detected	86	Not Detected
Cumene	8.4	16	41	79
1,1,2,2-Tetrachloroethane	8.4	Not Detected	57	Not Detected
Propylbenzene	8.4	18	41	90
4-Ethyltoluene	8.4	140	41	670
1,3,5-Trimethylbenzene	8.4	83	41	410
1,2,4-Trimethylbenzene	8.4	58	41	280
1,3-Dichlorobenzene	8.4	Not Detected	50	Not Detected
1,4-Dichlorobenzene	8.4	Not Detected	50	Not Detected
alpha-Chlorotoluene	8.4	Not Detected	43	Not Detected
1,2-Dichlorobenzene	8.4	Not Detected	50	Not Detected
1,2,4-Trichlorobenzene	33	Not Detected	250	Not Detected
Hexachlorobutadiene	33	Not Detected	360	Not Detected

J = Estimated value due to bias in the CCV.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1107481-02A

EPA METHOD TO-15 GC/MS

File Name:	**14072911**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/29/11 08:41 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1107481-02A

EPA METHOD TO-15 GC/MS

File Name:	**14072911**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/29/11 08:41 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1107481-03A

EPA METHOD TO-15 GC/MS

File Name:	**14072908**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/29/11 07:24 AM**	

Compound	%Recovery
Freon 12	111
Freon 114	108
Chloromethane	92
Vinyl Chloride	132 Q
1,3-Butadiene	110
Bromomethane	113
Chloroethane	100
Freon 11	111
Ethanol	81
Freon 113	102
1,1-Dichloroethene	112
Acetone	98
2-Propanol	85
Carbon Disulfide	103
3-Chloropropene	101
Methylene Chloride	94
Methyl tert-butyl ether	109
trans-1,2-Dichloroethene	102
Hexane	94
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	106
cis-1,2-Dichloroethene	102
Tetrahydrofuran	89
Chloroform	107
1,1,1-Trichloroethane	103
Cyclohexane	106
Carbon Tetrachloride	106
2,2,4-Trimethylpentane	97
Benzene	106
1,2-Dichloroethane	106
Heptane	105
Trichloroethene	104
1,2-Dichloropropane	104
1,4-Dioxane	111
Bromodichloromethane	103
cis-1,3-Dichloropropene	102
4-Methyl-2-pentanone	102
Toluene	110
trans-1,3-Dichloropropene	101
1,1,2-Trichloroethane	106
Tetrachloroethene	105

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1107481-03A

EPA METHOD TO-15 GC/MS

File Name:	**14072908**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/29/11 07:24 AM**	

Compound	%Recovery
2-Hexanone	93
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	112
Chlorobenzene	113
Ethyl Benzene	112
m,p-Xylene	111
o-Xylene	109
Styrene	108
Bromoform	106
Cumene	113
1,1,2,2-Tetrachloroethane	113
Propylbenzene	117
4-Ethyltoluene	118
1,3,5-Trimethylbenzene	118
1,2,4-Trimethylbenzene	118
1,3-Dichlorobenzene	120
1,4-Dichlorobenzene	120
alpha-Chlorotoluene	108
1,2-Dichlorobenzene	124
1,2,4-Trichlorobenzene	119
Hexachlorobutadiene	109

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
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Client Sample ID: LCS
Lab ID#: 1107481-04A
EPA METHOD TO-15 GC/MS

File Name:	**14072909**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/29/11 08:03 AM**	

Compound	%Recovery
Freon 12	102
Freon 114	101
Chloromethane	86
Vinyl Chloride	115
1,3-Butadiene	97
Bromomethane	100
Chloroethane	90
Freon 11	104
Ethanol	73
Freon 113	99
1,1-Dichloroethene	107
Acetone	88
2-Propanol	77
Carbon Disulfide	111
3-Chloropropene	104
Methylene Chloride	86
Methyl tert-butyl ether	102
trans-1,2-Dichloroethene	104
Hexane	87
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	92
Tetrahydrofuran	78
Chloroform	99
1,1,1-Trichloroethane	95
Cyclohexane	100
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	90
Benzene	94
1,2-Dichloroethane	94
Heptane	96
Trichloroethene	96
1,2-Dichloropropane	95
1,4-Dioxane	93
Bromodichloromethane	92
cis-1,3-Dichloropropene	91
4-Methyl-2-pentanone	89
Toluene	99
trans-1,3-Dichloropropene	87
1,1,2-Trichloroethane	94
Tetrachloroethene	90

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1107481-04A

EPA METHOD TO-15 GC/MS

File Name:	**14072909**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/29/11 08:03 AM**	

Compound	%Recovery
2-Hexanone	81
Dibromochloromethane	92
1,2-Dibromoethane (EDB)	98
Chlorobenzene	101
Ethyl Benzene	96
m,p-Xylene	96
o-Xylene	96
Styrene	96
Bromoform	83
Cumene	101
1,1,2,2-Tetrachloroethane	99
Propylbenzene	103
4-Ethyltoluene	98
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	77
1,2-Dichlorobenzene	105
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	79

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD
Lab ID#: 1107481-04AA
EPA METHOD TO-15 GC/MS

File Name:	**14072910**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/29/11 08:22 AM**	

Compound	%Recovery
Freon 12	101
Freon 114	101
Chloromethane	90
Vinyl Chloride	119
1,3-Butadiene	101
Bromomethane	96
Chloroethane	87
Freon 11	103
Ethanol	73
Freon 113	104
1,1-Dichloroethene	108
Acetone	84
2-Propanol	76
Carbon Disulfide	112
3-Chloropropene	105
Methylene Chloride	85
Methyl tert-butyl ether	102
trans-1,2-Dichloroethene	109
Hexane	86
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	92
cis-1,2-Dichloroethene	93
Tetrahydrofuran	75
Chloroform	103
1,1,1-Trichloroethane	94
Cyclohexane	98
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	90
Benzene	97
1,2-Dichloroethane	94
Heptane	97
Trichloroethene	98
1,2-Dichloropropane	97
1,4-Dioxane	95
Bromodichloromethane	92
cis-1,3-Dichloropropene	89
4-Methyl-2-pentanone	90
Toluene	100
trans-1,3-Dichloropropene	85
1,1,2-Trichloroethane	93
Tetrachloroethene	94

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1107481-04AA

EPA METHOD TO-15 GC/MS

File Name:	**14072910**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/29/11 08:22 AM**	

Compound	%Recovery
2-Hexanone	79
Dibromochloromethane	92
1,2-Dibromoethane (EDB)	99
Chlorobenzene	103
Ethyl Benzene	99
m,p-Xylene	101
o-Xylene	100
Styrene	95
Bromoform	85
Cumene	101
1,1,2,2-Tetrachloroethane	99
Propylbenzene	102
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	105
1,2,4-Trimethylbenzene	97
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	80
1,2-Dichlorobenzene	109
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	86

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

9/14/2011
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover
Project #: 84411
Workorder #: 1109052

Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 9/2/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1109052

Work Order Summary

CLIENT:	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3 Stratham, NH 03885	**BILL TO:**	Ms. Amy Gibney XDD (Xpert Design & Diagnostics, LLP) 22 Marin Way Suite 3
PHONE:	603-778-1100	**P.O. #**	2308
FAX:	603-778-2121	**PROJECT #**	84411 Dover
DATE RECEIVED:	09/02/2011	**CONTACT:**	Ausha Scott
DATE COMPLETED:	09/14/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SVE STACK 090111	Modified TO-15	Tedlar Bag	Tedlar Bag
02A	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA
04AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda L. Freeman DATE: 09/14/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
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
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LABORATORY NARRATIVE
EPA Method TO-15
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 1109052

One 1 Liter Tedlar Bag sample was received on September 02, 2011. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit exceedences and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Dilution was performed on sample SVE STACK 090111 due to the presence of high level target species.

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 not 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 and/or LCS.
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

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SVE STACK 090111

Lab ID#: 1109052-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	100	11000	260	28000
Freon 11	100	590	560	3300
Ethanol	400	660	750	1200
Freon 113	100	260	770	2000
Acetone	400	1900	950	4400
Carbon Disulfide	400	1100	1200	3400
Methylene Chloride	100	3100	350	11000
Hexane	100	250	350	870
1,1-Dichloroethane	100	1000	400	4300
2-Butanone (Methyl Ethyl Ketone)	400	910	1200	2700
cis-1,2-Dichloroethene	100	11000	400	45000
1,1,1-Trichloroethane	100	1000	540	5700
Cyclohexane	100	150	340	520
Heptane	100	300	410	1200
Trichloroethene	100	2100	540	11000
4-Methyl-2-pentanone	100	100	410	410
Toluene	100	11000	380	41000
Tetrachloroethene	100	18000	680	120000
Ethyl Benzene	100	590	430	2500
m,p-Xylene	100	1500	430	6700
o-Xylene	100	850	430	3700
4-Ethyltoluene	100	380	490	1800
1,3,5-Trimethylbenzene	100	200	490	990
1,2,4-Trimethylbenzene	100	160	490	810

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Client Sample ID: SVE STACK 090111

Lab ID#: 1109052-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p090414**	**Date of Collection:**	**9/1/11 1:35:00 PM**
Dil. Factor:	**200**	**Date of Analysis:**	**9/4/11 01:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	100	Not Detected	490	Not Detected
Freon 114	100	Not Detected	700	Not Detected
Chloromethane	400	Not Detected	830	Not Detected
Vinyl Chloride	100	11000	260	28000
1,3-Butadiene	100	Not Detected	220	Not Detected
Bromomethane	100	Not Detected	390	Not Detected
Chloroethane	400	Not Detected	1000	Not Detected
Freon 11	100	590	560	3300
Ethanol	400	660	750	1200
Freon 113	100	260	770	2000
1,1-Dichloroethene	100	Not Detected	400	Not Detected
Acetone	400	1900	950	4400
2-Propanol	400	Not Detected	980	Not Detected
Carbon Disulfide	400	1100	1200	3400
3-Chloropropene	400	Not Detected	1200	Not Detected
Methylene Chloride	100	3100	350	11000
Methyl tert-butyl ether	100	Not Detected	360	Not Detected
trans-1,2-Dichloroethene	100	Not Detected	400	Not Detected
Hexane	100	250	350	870
1,1-Dichloroethane	100	1000	400	4300
2-Butanone (Methyl Ethyl Ketone)	400	910	1200	2700
cis-1,2-Dichloroethene	100	11000	400	45000
Tetrahydrofuran	100	Not Detected	290	Not Detected
Chloroform	100	Not Detected	490	Not Detected
1,1,1-Trichloroethane	100	1000	540	5700
Cyclohexane	100	150	340	520
Carbon Tetrachloride	100	Not Detected	630	Not Detected
2,2,4-Trimethylpentane	100	Not Detected	470	Not Detected
Benzene	100	Not Detected	320	Not Detected
1,2-Dichloroethane	100	Not Detected	400	Not Detected
Heptane	100	300	410	1200
Trichloroethene	100	2100	540	11000
1,2-Dichloropropane	100	Not Detected	460	Not Detected
1,4-Dioxane	400	Not Detected	1400	Not Detected
Bromodichloromethane	100	Not Detected	670	Not Detected
cis-1,3-Dichloropropene	100	Not Detected	450	Not Detected
4-Methyl-2-pentanone	100	100	410	410
Toluene	100	11000	380	41000
trans-1,3-Dichloropropene	100	Not Detected	450	Not Detected
1,1,2-Trichloroethane	100	Not Detected	540	Not Detected
Tetrachloroethene	100	18000	680	120000

Air Toxics LTD.
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Client Sample ID: SVE STACK 090111

Lab ID#: 1109052-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p090414**	**Date of Collection:**	**9/1/11 1:35:00 PM**
Dil. Factor:	**200**	**Date of Analysis:**	**9/4/11 01:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	400	Not Detected	1600	Not Detected
Dibromochloromethane	100	Not Detected	850	Not Detected
1,2-Dibromoethane (EDB)	100	Not Detected	770	Not Detected
Chlorobenzene	100	Not Detected	460	Not Detected
Ethyl Benzene	100	590	430	2500
m,p-Xylene	100	1500	430	6700
o-Xylene	100	850	430	3700
Styrene	100	Not Detected	420	Not Detected
Bromoform	100	Not Detected	1000	Not Detected
Cumene	100	Not Detected	490	Not Detected
1,1,2,2-Tetrachloroethane	100	Not Detected	690	Not Detected
Propylbenzene	100	Not Detected	490	Not Detected
4-Ethyltoluene	100	380	490	1800
1,3,5-Trimethylbenzene	100	200	490	990
1,2,4-Trimethylbenzene	100	160	490	810
1,3-Dichlorobenzene	100	Not Detected	600	Not Detected
1,4-Dichlorobenzene	100	Not Detected	600	Not Detected
alpha-Chlorotoluene	100	Not Detected	520	Not Detected
1,2-Dichlorobenzene	100	Not Detected	600	Not Detected
1,2,4-Trichlorobenzene	400	Not Detected	3000	Not Detected
Hexachlorobutadiene	400	Not Detected	4300	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1109052-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p090409**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/4/11 11:43 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1109052-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p090409**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/4/11 11:43 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	89	70-130

Air Toxics LTD.
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Client Sample ID: CCV

Lab ID#: 1109052-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p090405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/4/11 09:53 AM**	

Compound	%Recovery
Freon 12	107
Freon 114	108
Chloromethane	78
Vinyl Chloride	104
1,3-Butadiene	89
Bromomethane	101
Chloroethane	109
Freon 11	104
Ethanol	85
Freon 113	101
1,1-Dichloroethene	103
Acetone	95
2-Propanol	83
Carbon Disulfide	105
3-Chloropropene	107
Methylene Chloride	83
Methyl tert-butyl ether	110
trans-1,2-Dichloroethene	108
Hexane	101
1,1-Dichloroethane	103
2-Butanone (Methyl Ethyl Ketone)	112
cis-1,2-Dichloroethene	105
Tetrahydrofuran	85
Chloroform	106
1,1,1-Trichloroethane	104
Cyclohexane	111
Carbon Tetrachloride	103
2,2,4-Trimethylpentane	105
Benzene	105
1,2-Dichloroethane	101
Heptane	111
Trichloroethene	108
1,2-Dichloropropane	107
1,4-Dioxane	110
Bromodichloromethane	105
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	106
Toluene	110
trans-1,3-Dichloropropene	117
1,1,2-Trichloroethane	119
Tetrachloroethene	107

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1109052-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p090405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/4/11 09:53 AM**	

Compound	%Recovery
2-Hexanone	120
Dibromochloromethane	114
1,2-Dibromoethane (EDB)	117
Chlorobenzene	112
Ethyl Benzene	112
m,p-Xylene	114
o-Xylene	115
Styrene	121
Bromoform	114
Cumene	121
1,1,2,2-Tetrachloroethane	113
Propylbenzene	119
4-Ethyltoluene	114
1,3,5-Trimethylbenzene	109
1,2,4-Trimethylbenzene	111
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	126
1,2-Dichlorobenzene	107
1,2,4-Trichlorobenzene	107
Hexachlorobutadiene	104

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1109052-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p090403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/4/11 09:16 AM**	

Compound	%Recovery
Freon 12	110
Freon 114	108
Chloromethane	92
Vinyl Chloride	107
1,3-Butadiene	92
Bromomethane	101
Chloroethane	109
Freon 11	105
Ethanol	70
Freon 113	102
1,1-Dichloroethene	108
Acetone	100
2-Propanol	84
Carbon Disulfide	126
3-Chloropropene	121
Methylene Chloride	83
Methyl tert-butyl ether	112
trans-1,2-Dichloroethene	124
Hexane	101
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	114
cis-1,2-Dichloroethene	106
Tetrahydrofuran	80
Chloroform	106
1,1,1-Trichloroethane	106
Cyclohexane	113
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	102
Benzene	110
1,2-Dichloroethane	105
Heptane	113
Trichloroethene	112
1,2-Dichloropropane	110
1,4-Dioxane	106
Bromodichloromethane	109
cis-1,3-Dichloropropene	113
4-Methyl-2-pentanone	104
Toluene	112
trans-1,3-Dichloropropene	124
1,1,2-Trichloroethane	125
Tetrachloroethene	113

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1109052-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p090403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/4/11 09:16 AM**	

Compound	**%Recovery**
2-Hexanone	115
Dibromochloromethane	117
1,2-Dibromoethane (EDB)	124
Chlorobenzene	118
Ethyl Benzene	117
m,p-Xylene	122
o-Xylene	121
Styrene	118
Bromoform	117
Cumene	125
1,1,2,2-Tetrachloroethane	121
Propylbenzene	125
4-Ethyltoluene	111
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	112
1,3-Dichlorobenzene	113
1,4-Dichlorobenzene	112
alpha-Chlorotoluene	132 Q
1,2-Dichlorobenzene	114
1,2,4-Trichlorobenzene	120
Hexachlorobutadiene	111

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	91	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1109052-04AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p090404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/4/11 09:33 AM**	

Compound	%Recovery
Freon 12	105
Freon 114	104
Chloromethane	87
Vinyl Chloride	103
1,3-Butadiene	87
Bromomethane	94
Chloroethane	103
Freon 11	101
Ethanol	55 Q
Freon 113	99
1,1-Dichloroethene	103
Acetone	92
2-Propanol	79
Carbon Disulfide	122
3-Chloropropene	115
Methylene Chloride	80
Methyl tert-butyl ether	108
trans-1,2-Dichloroethene	116
Hexane	96
1,1-Dichloroethane	101
2-Butanone (Methyl Ethyl Ketone)	108
cis-1,2-Dichloroethene	100
Tetrahydrofuran	77
Chloroform	102
1,1,1-Trichloroethane	101
Cyclohexane	107
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	102
Benzene	104
1,2-Dichloroethane	100
Heptane	107
Trichloroethene	104
1,2-Dichloropropane	103
1,4-Dioxane	99
Bromodichloromethane	101
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	99
Toluene	103
trans-1,3-Dichloropropene	114
1,1,2-Trichloroethane	114
Tetrachloroethene	105

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1109052-04AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p090404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/4/11 09:33 AM**	

Compound	**%Recovery**
2-Hexanone	108
Dibromochloromethane	109
1,2-Dibromoethane (EDB)	116
Chlorobenzene	110
Ethyl Benzene	109
m,p-Xylene	114
o-Xylene	113
Styrene	109
Bromoform	109
Cumene	116
1,1,2,2-Tetrachloroethane	112
Propylbenzene	115
4-Ethyltoluene	104
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	120
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	112
Hexachlorobutadiene	106

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	93	70-130

Absolute Resource associates
124 Heritage Avenue #10 Portsmouth, NH 03801

Dennis Keane
Xpert Design & Diagnostics, LLC
22 Marin Way
Unit 3
Stratham, NH 03885

PO Number: 2309
Job ID: 22329
Date Received: 9/2/11

Project: Dover Landfill 84411

Attached please find results for the analysis of the samples received on the date referenced above.

Unless otherwise noted in the attached report, the analyses performed met the requirements of Absolute Resource Associates' Quality Assurance Plan. The Standard Operating Procedures are based upon USEPA SW-846, USEPA Methods for Chemical Analysis of Water and Wastewater, Standard Methods for the Examination of Water and Wastewater and other recognized methodologies. The results contained in this report pertain only to the samples as indicated on the chain of custody.

Absolute Resource Associates maintains certification with the agencies listed below.

We appreciate the opportunity to provide laboratory services. If you have any questions regarding the enclosed report, please contact the laboratory and we will be glad to assist you.

Sincerely,
Absolute Resource Associates

(for)

Sue Sylvester
Principal, General Manager

Date of Approval: 9/15/2011
Total number of pages: 10

Absolute Resource Associates Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: Dover Landfill 84411
Job ID: 22329
Sample#: 22329-001
Sample ID: Carbon Inf
Matrix: Water
Sampled: 9/1/11 13:39

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
vinyl chloride	**24**	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
acetone	**260**	50	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
methylene chloride	**32**	5	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
1,1-dichloroethane	**18**	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
t-butanol (TBA)	< 30	30	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
2-butanone (MEK)	**84**	10	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
cis-1,2-dichloroethene	**260**	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
tetrahydrofuran (THF)	**69**	10	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
1,1,1-trichloroethane	**7**	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
trichloroethene	**37**	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
1,4-dioxane	< 50	50	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**31**	10	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
toluene	**70**	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
tetrachloroethene	**220**	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B

Absolute Resource associates

Project ID: Dover Landfill 84411
Job ID: 22329
Sample#: 22329-001
Sample ID: Carbon Inf
Matrix: Water
Sampled: 9/1/11 13:39

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
chlorobenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
ethylbenzene	**6**	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
m&p-xylenes	**16**	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
o-xylene	**38**	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
1,3,5-trimethylbenzene	**9**	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
1,2,4-trimethylbenzene	**4**	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**96**	78-114	%	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
toluene-D8 SUR	**101**	88-110	%	1	LMM		1101990	9/12/11	21:38	SW5030B8260B
4-bromofluorobenzene SUR	**95**	86-115	%	1	LMM		1101990	9/12/11	21:38	SW5030B8260B

Absolute Resource associates

Project ID: Dover Landfill 84411
Job ID: 22329
Sample#: 22329-002
Sample ID: Carbon Eff
Matrix: Water
Sampled: 9/1/11 13:34

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
t-butanol (TBA)	< 30	30	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
1,4-dioxane	< 50	50	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B

Project ID: Dover Landfill 84411
Job ID: 22329
Sample#: 22329-002
Sample ID: Carbon Eff
Matrix: Water
Sampled: 9/1/11 13:34

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
chlorobenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
o-xylene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**93**	78-114	%	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
toluene-D8 SUR	**99**	88-110	%	1	LMM		1101981	9/9/11	18:48	SW5030B8260B
4-bromofluorobenzene SUR	**93**	86-115	%	1	LMM		1101981	9/9/11	18:48	SW5030B8260B

Absolute Resource associates

Project ID: Dover Landfill 84411
Job ID: 22329
Sample#: 22329-003
Sample ID: DUP-01
Matrix: Water
Sampled: 9/1/11 13:42

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
vinyl chloride	**24**	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
acetone	**230**	50	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
methylene chloride	**110**	5	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
1,1-dichloroethane	**15**	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
t-butanol (TBA)	< 30	30	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
2-butanone (MEK)	**92**	10	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
cis-1,2-dichloroethene	**260**	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
tetrahydrofuran (THF)	**72**	10	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
1,1,1-trichloroethane	**7**	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
trichloroethene	**37**	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
1,4-dioxane	< 50	50	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**32**	10	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
toluene	**69**	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
tetrachloroethene	**210**	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B

Absolute Resource associates

Project ID: Dover Landfill 84411
Job ID: 22329
Sample#: 22329-003
Sample ID: DUP-01
Matrix: Water
Sampled: 9/1/11 13:42

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
chlorobenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
ethylbenzene	**6**	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
m&p-xylenes	**16**	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
o-xylene	**38**	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
1,3,5-trimethylbenzene	**9**	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
1,2,4-trimethylbenzene	**4**	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**97**	78-114	%	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
toluene-D8 SUR	**103**	88-110	%	1	LMM		1101990	9/12/11	22:09	SW5030B8260B
4-bromofluorobenzene SUR	**96**	86-115	%	1	LMM		1101990	9/12/11	22:09	SW5030B8260B

Absolute Resource associates

Project ID: Dover Landfill 84411
Job ID: 22329
Sample#: 22329-004
Sample ID: Trip Blank
Matrix: Water
Sampled: 9/1/11 0:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
t-butanol (TBA)	< 30	30	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
1,4-dioxane	< 50	50	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B

Project ID: Dover Landfill 84411
Job ID: 22329
Sample#: 22329-004
Sample ID: Trip Blank
Matrix: Water
Sampled: 9/1/11 0:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
chlorobenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
o-xylene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	**100**	78-114	%	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
toluene-D8 SUR	**99**	88-110	%	1	LMM		1101981	9/9/11	13:35	SW5030B8260B
4-bromofluorobenzene SUR	**98**	86-115	%	1	LMM		1101981	9/9/11	13:35	SW5030B8260B

Absolute Resource associates

SUMMARY AND STATUS OF ACTIVITIES – Q3 – OCTOBER 10, 2011
SOURCE CONTROL REMEDIAL ACTION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

1. Summary of Activities

During this reporting period, the following was performed:

- additional focused site clearing for electrical utility line installation;
- Normandeau completed the base-line assessment of the vegetation monitoring plots in July 2011;
- extraction well (EW) drilling activities were completed on July 25, 2011;
- EW development activities were started on July 6 and completed on August 16, 2011;
- the sedimentation tank was installed on August 16, 2011;
- the majority of trenching activities for the gravity and force piping conveyance were completed in September 2011;
- EW building enclosure construction began on September 12, 2011;
- sewer conveyance extension project activities (City managed); and
- electrical design and permitting activities.

2. Deliverables and Correspondence

During this reporting period, GeoInsight transmitted the following to the Agencies:

- a draft table and figure of the post-excavation sediment sample data for samples collected from the perimeter ditch were transmitted by email on July 22, 2011;
- weekly site meeting minutes from June 28th to September 27th; and
- dewatering analytical data were transmitted by email on September 28, 2011.

3. Schedule for Next Quarter

During the next quarter the following activities are anticipated to be performed:

- continued installation of EW station buildings;
- installation of the electrical system infrastructure;
- installation of equipment and controls; and
- system shake-down and evaluation.

4. Status of Activities

Remedy Design: Completed.
Remedy Construction: 50 Percent Complete.
Remedy Implementation: Anticipated in Winter 2011
Reporting Schedule - Information regarding the SCRA will be included in the four Quarterly Progress Reports as specified in March 24, 2011 Final SCRA Work Plan. The Annual Remedy Performance Report will be submitted in the April 10th report following each year of operation.

5. Modifications

In general, design modifications were not implemented during this quarter. Minor adjustments to site infrastructure locations were made based upon site conditions.