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

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

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

DATE: October 10, 2009

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)." Pre-Design Investigation (PDI), Remedial Design (RD), and 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, Environmental Projects Manager for the City of Dover, 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 will only include updates for on-going PDIs, RD, and 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 2009. During this reporting period, activities were conducted associated with:

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

- Northwest Landfill Hot Spot Remedial Design and Remedial Action (summary attached);
- Ecotoxicity and Human Health Assessment of the Cocheco River PDI (summary attached); and
- Source Control (discussed in Section III).

On September 23, 2009, USEPA notified the City of Dover that USEPA had completed their review of the results of the Soil Vapor Intrusion PDI (initiated in 2006) and found that there is no current risk for exposure to indoor air from contamination originating from the Site. USEPA requested that sampling and assessment of a potential future indoor air exposure pathway be conducted annually. These activities will be performed as part of the Environmental Monitoring Program (EMP).

On September 24, 2009, in accordance with the Groundwater Management Permit (GMP), GeoInsight provided NHDES with documentation of notification of the GMP to owners of property located within the Groundwater Management Zone (GMZ). On October 1, 2009, Notice of GMP forms were submitted to the Strafford County Registry of Deeds for recordation.

A master schedule of anticipated activities for 2009 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. STATUS OF SOURCE CONTROL ACTIVITIES

A Source Control Remedial Design Work Plan (SCRD-WP) was submitted to the agencies on October 5, 2009. Design activities will be initiated upon approval of the SCRD-WP.

IV. COMMUNITY RELATIONS PLAN

Public meetings were not completed during the third quarter of 2009:

V. SUMMARY OF REMEDIAL ACTIVITIES

This section of the Quarterly Progress Report will provide 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**	**Total**
Southern Plume MOM	4.6	2.8	7.4
Northwest Landfill Hotspot	0	11,220	11,220

VI. ATTACHMENTS

- Master Schedule of Anticipated Activities - Year 2009; and
- Summary and Status of Activities (three attachments)

MASTER SCHEDULE OF ANTICIPATED ACTIVITIES - YEAR 2009
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
TOLEND ROAD
DOVER, NEW HAMPSHIRE

	2009												2010
	Q1			Q2			Q3			Q4			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
SOURCE CONTROL													
Source Control Focused Feasibility Study													
Final Version with Response to Agency Comments		■											
Explanation of Significant Difference													
Draft presented at public meeting				■									
Final version issued by USEPA on June 30, 2009						■							
Source Control Remedial Design													
Work Plan for Remedial Design										■			
30 Percent Remedial Design (120 days from Work Plan approval)													■
75 Percent Remedial Design (90 days from approval of 30 percent design)													■
100 Percent Remedial Design (60 days from approval of 75 percent design)													■
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 Sampling				■									
System Start Up				■									
Seasonal Operation				■	■	■	■	■	■	■	■		
Performance Monitoring							■			■		■	
System Shutdown											■	■	
Data submittals (with Quarterly Progress Reports)	■									■			
OTHER RESPONSE ACTIONS													
Soil Vapor Intrusion - Indoor Air Pre-Design Investigation													
Focused Monitoring during EMP Events						■							■
Ecotoxicity and Human Health Assessment of the Cocheco River													
Field Sampling Activities						■							
Environmental Monitoring Plan													
Summary Report: Second Monitoring Event (Winter) Year 2008			■										
First Monitoring Event (Summer) 2009					■								
Second Monitoring Event (Winter) 2009											■		
Summary Report: First Monitoring Event (Summer) Year 2009										■			
Summary Report: Second Monitoring Event (Winter) Year 2009													■
EMP Program Proposed Modifications Summary												■	■

SUMMARY AND STATUS OF ACTIVITIES – Q3 – OCTOBER 10, 2009
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

1. Summary of Activities

- a performance monitoring event was completed on July 15, 2009;
- a new extraction pump was installed in well MW-206(I) on July 7, 2009;
- accumulated silt was removed from well MW-206(I) on July 28, 2009;
- weekly system operation, monitoring, and maintenance activities;
- weekly and monthly sampling activities from extraction wells and the frac tank, respectively; and
- discharge of extracted ground water was overseen weekly between July 7 and September 1, 2009.

2. Deliverables and Correspondence

The following deliverables were submitted or received by the agencies:

- The Interim Remedial Action Report – Southern Plume Management of Migration was submitted on September 14, 2009 and approved by the agencies on September 17, 2009; and
- A Periodic Remedy Performance report for the period April to September 2009 is attached.

3. Schedule for Next Quarter

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

- weekly system operation, monitoring, and maintenance activities;
- weekly and monthly sampling activities from extraction wells and the frac tank, respectively;
- performance monitoring event on October 6, 2009;
- 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 (attached to this summary page)
-August to November activities will be included in the January Report

Remedy Design:	Completed.
Remedy Construction:	100 Percent Complete.
Remedy Implementation Status:	Second system operating season in progress.

Mass Removal 2008:	4.6 pounds
Mass Removal 2009 (to date):	2.8 pounds
Total Mass Removal	**7.4 pounds**

5. Modifications

None.

PERIODIC REMEDY PERFORMANCE REPORT

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

DATE: October 10, 2009
TO: Darryl Luce, USEPA; Andrew Hoffman, NHDES
FROM: Mike Webster and Christene Binger
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 January 10th)

A. INTRODUCTION

This Periodic Remedy Performance (PRP) Report provides information regarding the performance of the Southern Plume ground water extraction (GWE) system for the period between April 29 and Jul 28, 2009. In addition, ground water elevation data collected during the last quarterly transducer downloading event (September 1, 2009) was included with this report. To be consistent, other available data and activities completed on or prior to September 1, 2009 were also presented in this report. 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.

B. ACTIVITIES

i. Pumping Periods

- In general, the GWE system operated continuously between April 29 (date of system start up) and September 1, 2009 (last day of the reporting period). Intermittent brief periods (i.e., hours to several days) of downtime were associated with pump failure and high water alarms in the fractionation (frac) tank. Additional 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 extracted ground water at an average rate of 0.83 and 0.90 gallons per minute (gpm), respectively. The total flow rate for the GWE system (i.e., combined total flow with both extraction wells operating) ranged from 1.50 to 2.10 gpm. Additional information regarding the GWE system flow rates is summarized in Table 2 (modified from Table 2 of the Operation and Maintenance Plan Southern Plume Remedial Action MOM [SPRA O&M Plan]).

ii. GWE System Operation and Maintenance

- Based upon observations of GWE system performance during the 2008 field season, system modifications were proposed in the August 2008 100 Percent Remedial Design Southern Plume MOM report. These modifications were completed prior to initiating the 2009 field season. On March 18, 2009, the cycle counters were removed from the influent air lines and a new manifold was installed adjacent to the Butler Building to support in-line totalizers, influent sample ports, manual flow rate ports, and associated piping. On April 29, 2009, the pneumatic pumps were re-installed into the extraction wells to a depth near the bottom of the screened interval (they were previously installed near the top of the screened interval throughout the 2008 pumping season), air pressure gauges were installed at the well heads, and the GWE system was started for the 2009 season. Updates to the GWE system are depicted in the Process and Instrumentation Diagram (Figure 1) and photographs of the modified system components are presented in Appendix A.

- During the period of system operation, GWE system O&M activities were performed on a weekly basis. GWE system operational history 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 [modified from Appendix H of the SPRA O&M Plan]).

- In general, the GWE system operated continuously during this reporting period; however, brief periods (i.e., up to three consecutive days) of unscheduled downtimes occurred. Downtimes during this reporting period were caused by iron and sediment fouling in the pump chamber(s), iron and sediment fouling in the water lines, and high water in the frac tank triggering an automatic system shutdown. System 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 soaked in a mild acid solution prior to resuming operation. Fouled 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 on July 7, 2009. Using 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.

- High water alarm conditions associated with the frac tank occurred during the weeks of May 12, June 9, and August 4, 2009. The GWE system was down for a total of approximately 9 days because of high water level in the frac tank. The frequency of regularly scheduled water transfers was subsequently increased to alleviate issues associated with on-site water storage.

- On July, 28, 2009, Clean Harbors Environmental Services of Bow, New Hampshire re-developed extraction well MW-206(I). A vactor truck was used to remove approximately

11 feet of sediment that had collected at the bottom of the well since the start of the 2009 pumping season. Approximately 125 gallons of water and sediment were removed from the well and transported to the frac tank for storage. Depth to bottom measurements will be obtained during the remainder of the pumping season to monitor the relative rate of sediment accumulation in the well. Sediment accumulation was not observed in extraction well SB-4D.

iii. Discharges

Since the installation of the GWE system in November 2007, approximately 451,000 gallons of ground water have been extracted from the pumping wells and discharged to the City of Dover municipal sewer system for treatment at the Publicly Owned Treatment Works (POTW). During this reporting period, approximately 186,500 gallons of ground water were extracted by the GWE system. GWE system effluent volume estimates are recorded in Table 2.

Extracted Ground Water Summary:

Total Volume 2007 and 2008:	264,588 gallons
Total Volume During Reporting Period (April 29 to September 1, 2009):	186,468 gallons
Total Volume to Date:	451,056 gallons

iv. Hydraulic Monitoring

- In November 2008, five additional remedy performance monitoring wells that had been proposed in the 100 Percent Design Southern Plume MOM report and the SPRA O&M Plan were installed in the Southern Plume MOM RA area. The wells were positioned to monitor hydraulic and ground water quality conditions near the estimated capture zone associated with extraction well MW-206(I). On December 2, 2008, the new wells were surveyed for elevation and location, and pressure transducers were installed into each well. Well details were summarized in Table 7 of the January 10, 2009 Southern Plume PRP Report. Well completion logs are attached in Appendix B.

- On April 16, 2009, 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 and surface water gauging stations that were included in the comprehensive hydraulic monitoring event are summarized in Table 4 (modified from Table 5 of the SPRA O&M Plan). A second comprehensive hydraulic monitoring event will be conducted in October 2009 (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 not-pumping hydraulic conditions will be included in the January 2010 Southern Plume PRP Report.

- In addition to semi-annual gauging events, continuous hydraulic influence of 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 March 24 and September 1, 2009. Hydraulic data were recorded at 30-minute intervals in 12 transducers located in the vicinity of MW-206(I). Transducer data recorded between December 2, 2008 and September 1, 2009 are presented in Figure 2.

- Extraction wells were typically gauged during each O&M site visit. Average drawdown observed in the extraction wells was between 3 to 4 feet during pumping periods. Extraction well gauging data will be presented in the January 2010 PRP Report.

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 collected on a weekly basis and submitted to Resource Laboratories, Inc. of Portsmouth, New Hampshire (RL) and analyzed for volatile organic compounds (VOCs) by 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 1,400 to 2,100 micrograms per liter (ug/L) in the water samples collected from MW-206(I) and from 1,200 to 2,700 ug/L in water samples collected from SB-4D, exceeding the Interim Cleanup Level (ICL) of 154 ug/L. Benzene was also detected in the influent water samples at concentrations exceeding the ICL of 5 ug/L. Benzene concentrations ranged from 21 to 31 ug/L in water samples collected from MW-206(I) and from 21 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 the ICLs. In general, the data is consistent with data collected during the 2008 operating season. Analytical results are summarized in Tables 5A and 6A (2008 data) and Tables 5B and 6B (2009 data) and laboratory analytical reports for influent samples collected since July 2008 will be presented in the January 2010 Southern Plume PRP report. Influent concentrations of THF and benzene versus time for the 2008 and 2009 pumping seasons are illustrated in the attached Figures 3A and 3B (MW-206(I)) and Figures 4A and 4B (SB-4D), respectively.

THF and benzene data from each extraction well during individual pumping seasons were analyzed for statistical parameters, including; peak maximum value, peak minimum value, and average concentration. Statistical parameters are presented on Figures 3A, 3B, 4A, and 4B. 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 the data and additional analyses have not been requested. Analytical results are summarized in Table 7A (2008) and Table 7B (2009). Laboratory analytical reports for frac tank samples collected since July 2008 will be presented in the January 2010 Southern Plume PRP report.

iii. Mass Removal Estimates

Water samples were collected 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 ground water transported from the frac tank during the corresponding pumping period.

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 1,200 to 2,700 micrograms per liter (ug/L). Other VOCs that were consistently detected in the water samples included benzene, toluene, ethylbenzene, xylenes, chloroethane, and chlorobenzene (Tables 7A and 7B). 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 pumping season, 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, preliminary calculations of mass removal associated with the GWE system focused upon these two VOCs. These calculations indicate that approximately 2.78 pounds of THF and benzene (combined) have been removed by operation of the GWE system during the 2009 pumping season. Approximately 7.35 pounds of THF and benzene have been removed since initiation of the GWE system in 2008. THF represents approximately 98.7 percent of the mass removed.

Mass removal calculations associated with THF and benzene are summarized in Tables 8A (2008) and 8B (2009) (modified from Table 5 of the 100 Percent Remedial Design Southern Plume MOM report). These mass removal calculations will be updated as the GWE system is operated during the rest of 2009 and subsequent pumping seasons.

iv. Ground Water Monitoring

Between April 27 and 29, 2009, a ground water sampling event was conducted to evaluate the "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 baseline monitoring event are summarized in Table 4 and include wells positioned in the US, UUI, and LUI stratigraphic units.

A quarterly performance monitoring event was conducted on July 15, 2009. 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 summarized in Table 4 and include wells located within the same stratigraphic unit as the pumping well. Quarterly performance monitoring events will also be performed in October and December 2009.

The July 2009 quarterly performance monitoring ground water analytical results are summarized in tables included in Appendix C and laboratory analytical reports will be presented in the January 2010 Southern Plume PRP report.

D. REMEDY PROGRESS AND SYSTEM OPTIMIZATION

i. Overview

The Southern Plume GWE system was installed as part of the Southern Plume MOM RA and was designed to control the migration of the western lobe of the Southern Plume (i.e., the portion of the Southern Plume that is potentially migrating towards the Bellamy Reservoir). The GWE system pumps ground water from two extraction wells located within the Southern Plume Study Area; MW-206(I) which is located near the leading edge of the plume is utilized to control potential migration of the plume towards the Bellamy Reservoir, and SB-4D located near the toe of the Landfill is utilized to "cut off" the source of impacts contributing to the Southern Plume.

As requested by USEPA, periodic evaluations will be conducted to assess the performance of the GWE system with regard to its intended purpose and to assess system optimization to evaluate for possible system enhancements.

ii. Monitoring of Remedy Performance

Monitoring data obtained while operating the Southern Plume GWE system was used to complete a preliminary evaluation of remedial system performance. The approach used to evaluate performance follows the USEPA guidance described in "A Systematic Approach for Evaluation of Capture Zones at Pump and Treat System, Final Project Report," USEPA Report EPA600/R-08/003 (dated January 2008). The approach consists of evaluation of multiple "lines of evidence" that include estimating the required pumping rate, evaluating hydraulic information and data, estimating capture zone(s), and reviewing trends in VOC concentrations. Based upon available data, the current evaluation of remedial system performance included:

- calculating the pumping rate required to maintain adequate capture based upon plume dimensions and the estimated hydraulic parameters of the aquifer;

- refining the existing hydraulic analysis presented in the 100 Percent Design Southern Plume MOM report using data collected from the enhanced monitoring well network (i.e., network including the additional monitoring wells installed in November 2008); and

- refining the extent of the theoretical capture zone based upon the typical pumping rate of the extraction well(s) and the hydraulic parameters calculated from the revised hydraulic analysis.

Pumping Rate Analysis

Information obtained during the Southern Plume Pre-Design Investigation (PDI) activities indicated that the majority of ground water impacts associated with the Southern Plume were located primarily within 400 feet of the toe of the Landfill, and that the leading edge of the plume (as defined by COC concentrations below ICLs) was located approximately 600 feet from the toe of the Landfill (approximately half of the distance from the north bank of the Bellamy Reservoir to the southwest toe of the Landfill). Information obtained during PDI activities also identified that wells MW-206(I) and SB-B well clusters were located along the estimated axis of the portion of the Southern Plume that is potentially migrating in the direction of the Bellamy Reservoir. In the vicinity of well MW-206(I), the Southern Plume is located within the UUI stratigraphic unit primarily at depths of 35 to 45 feet BGS, and the plume is 200 to 300 feet wide. These dimensions defined the approximate Target Capture Zone for the Southern Plume MOM activities.

The approximate plume dimensions were combined with the estimated hydraulic parameters of the UUI stratigraphic unit to calculate minimum pumping rates required to achieve the three-dimensional Target Capture Zone. Flow rates were estimated using the approach described in "A Systematic Approach for Evaluation of Capture Zones at Pump and Treat System, Final Project Report," USEPA Report EPA600/R-08/003 (dated January 2008). The equations that were used to complete the evaluation are included in Appendix D-1.

The pumping rate analysis was performed using an extraction well with an effective screen length of 16 feet, which represents the 10-foot screened interval in well MW-206(I), a 3 foot-thick sand pack located above the screen, and an estimated 3-foot sand pack below the well screen interval. The minimum required flow rate to achieve the Target Capture Zone (i.e., 200 to 300 feet) with a well with an effective screen length of 16 feet ranged from 0.58 to 1.2 gpm. The current average pumping rate at each extraction well is approximately 0.9 gpm, occurring well within the range identified by the pumping rate analysis.

Updated Hydraulic Analysis

During this reporting period, two "tests periods" were evaluated to monitor hydraulic influence in the performance monitoring wells installed in the vicinity of the anticipated capture zone. These performance monitoring wells were installed in late 2008 to enhance the data set and,

consequently, refine the preliminary hydraulic analysis conducted during the 2008 Southern Plume MOM Pilot Test.

The first pump test (Test Period 1) was conducted over a 3-day period from April 29 to May 1, 2009 and second pump test (Test Period 2) was conducted over a 3-day period from May 12 to May 14, 2008. Both test periods were conducted immediately following a period of system/pump downtime to allow hydraulic conditions to equilibrate prior to testing (Test Period 1 was conducted immediately following the 2009 seasonal start-up and Test Period 2 was conducted immediately following a period of pump downtime). Both tests were conducted with well MW-206(I) pumped at an average rate of approximately 0.9 gpm. Transducer data obtained from performance monitoring wells MW-207(I), MW-208(I), and MW-209(I) were evaluated associated with each test period.

Methods used to analyze the hydraulic data from the 2009 pumping tests are consistent with the methods used in the initial hydraulic evaluation presented in the 100 Percent Design Southern Plume MOM report. The transmissivity of the vertical pumping interval targeted by the pumping well (MW-206(I)) was evaluated using forms of the Cooper and Jacob non-equilibrium equation and straight line methods following the analytical procedures of Dawson and Istok (1991). A brief description is presented in the following paragraphs. Refer to Section 5.0 of the November 2008 100 Percent Design Southern Plume report for additional information regarding the hydraulic analysis approach.

Time-drawdown and distance-drawdown data were evaluated for each test. For time-drawdown analyses, data were plotted on semi-logarithmic graphs and drawdown over one log cycle of time (referred to as delta s) was estimated for each well, and the values were used to calculate transmissivity. For distance-drawdown analyses, drawdown over one log cycle of distance was used to calculate transmissivity for each test. A summary of time-drawdown and distance-drawdown analyses are presented in Appendix D.

During the test periods, hydraulic responses were observed in monitoring wells that were screened within the same depth interval as the pumping well (UUI), including wells MW-207(I), MW-208(I), and MW-209(I). These wells are located radially outward (in a cross-gradient direction) from pumping well MW-206(I) at distances of 33 feet, 56 feet, and 144 feet, respectively. Hydraulic responses were observed in other UUI monitoring wells including SB-B2(I) and MW-200(I); however, these wells were not installed specifically to monitor system performance and, consequently, data from these wells were not used for the updated hydraulic analysis. Drawdown that could be clearly attributed to hydraulic influences associated with pumping from well MW-206(I) was not observed in performance monitoring wells screened in hydrogeologic units located above (B-10WT, MW-206(S), and MW-208(S)) and below (PT-1) the pumping interval.

A summary of calculations associated with Test Period 1 and Test Period 2 is included in Appendix D-5 and D-6. The transmissivity values obtained from these pump tests were used in the capture zone analysis that follows. In general, the results of the updated analysis indicated that hydraulic conductivity in the UUI ranged from 8 to 12 ft/day, with an average of 9.3 ft/day.

Capture Zone Analysis

Hydraulic information obtained during Test Period 1 and Test Period 2 was used to refine the initial capture zone dimensions estimated in the 100 Percent Design Southern Plume MOM report. The refined theoretical capture zone was then compared to the estimated current footprint of the Southern Plume within the UUI stratigraphic unit. The capture zone was estimated using the approach described in "A Systematic Approach for Evaluation of Capture Zones at Pump and Treat System, Final Project Report," USEPA Report EPA600/R-08/003 (January 2008), and are consistent with the methods used to perform the initial capture zone analysis as described in the 100 Percent Design Southern Plume MOM report. Methods outlined in the USEPA document were used to calculate the downgradient stagnation point, the width of the capture zone in the area of the ground water extraction well, and the width of the capture zone upgradient of the extraction well. The equations that were used to complete the evaluation are included in Appendix D.

Operating conditions for the GWE system recorded during the 2009 season were used to calculate the refined theoretical hydraulic capture zone. These conditions included an average pumping rate of 0.9 gpm for well MW-206(I) and an effective screen length of 16 feet. The capture zone analysis was performed using the average hydraulic conductivity value (i.e., 9.3 ft/day) calculated from the updated time-drawdown and distance-drawdown analyses. The results of the refined hydraulic capture zone analysis indicated the following for extraction well MW-206(I):

- the downgradient stagnation point was estimated to be approximately 62 feet;
- adjacent to the extraction well, the width of the capture area was estimated to be 194 feet; and
- upgradient of the extraction well, the maximum capture width was estimated to be 388 feet.

These values are presented in the following summary table that includes data associated with the 2008 100 Percent Design Southern Plume MOM report. Hydraulic conductivity values and capture zone dimensions calculated based on the 2009 data fell within the range of values associated with sensitivity analysis that had been completed using the 2008 Pilot Test data presented below.

	2008 Pilot Test			2009
	Lowest K	Average K	Highest K	
Hydraulic conductivity	4 ft/day	6 ft/day	12 ft/day	9.3 ft/day
Downgradient stagnation point (X_o):	120 ft	81 ft	40 ft	62 ft
Width of capture near well ($2* Y_{well}$):	376 ft	255 ft	125 ft	194 ft
Width of capture upgradient of well ($2*Y_{max}$):	752 ft	511 ft	251 ft	388 ft

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The estimated capture zones are illustrated on Figure 5. The updated capture zone evaluation indicated similar results to the 2008 analysis with a smaller capture zone.

Additional Activities

Additional "lines of evidence" will be used to evaluate system performance when the data set is more robust (i.e., after at least one full operating season of collecting hydraulic and chemical data from the enhanced monitoring well network). Additional analyses will include:

- using trend and other appropriate statistical analyses to evaluate changes in VOC concentrations within and downgradient of the Southern Plume;
- mapping and comparing VOC distribution and concentrations over time within the Southern Plume (in plan and cross-section view); and,
- using trend and other appropriate statistical analyses to evaluate changes in hydraulic conditions within and between monitoring wells within the Southern Plume.

Results of the additional analyses using the full set of monitoring data obtained during the 2009 operation season will be presented in the January 10, 2010 PRP Report.

iii. System Optimization Assessment

Monitoring data obtained while operating the Southern Plume GWE system will be used to evaluate system performance and identify possible remedial system enhancements. The evaluation will also include information obtained from the Environmental Monitoring Program and remedial actions conducted elsewhere at the Site, including the Northwest Landfill air sparging/soil vapor extraction system and the Source Control GWE system along the toe of the Landfill.

Based upon the current understanding of conditions within the Southern Plume, possible system enhancements that will be evaluated at the end of the 2009 operating season will include:

- installing additional ground water extraction wells within the Southern Plume;
- modifying ground water extraction rates;
- evaluating use of alternative pumping systems;
- evaluating use of alternative pumping schedules (such as pulsed systems); and
- assessing the utility of possible system tie-ins with other remedies operating at the Site.

A preliminary review of monitoring data obtained to date during the 2009 operating season suggests that the GWE system is operating as designed and that there are no conditions that require immediate attention. Minor operational issues that were identified and mitigated during

the first part of the 2009 operating season were summarized in the September 2009 Interim Remedial Action Report.

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

Pumping Period	Average 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 (to date)			
April 29 to September 1, 2009	1.7	MW-206(I) SB-4D	451,056

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.

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

DATE	ACTIVITIES/NOTES	SAMPLES COLLECTED	SYSTEM OPERATING ON ARRIVAL	SYSTEM OPERATING ON DEPARTURE	PRESSURE AT REGULATOR SB-4D (PSI)	PRESSURE AT WELL SB-4D (PSI)	PRESSURE AT REGULATOR MW-206(I) (PSI)	PRESSURE AT WELL 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	APPROXIMATE VOLUME PUMPED TO DATE	APPROXIMATE VOLUME TRANSFERRED
INITIAL SYSTEM START UP														
11/29/2007	CAB, KEZ on-site to start up system	NO	NO	YES	60	---	60	---	0.88	0.27	1.14	SB-4D/MW-206(I)		---
					80	---	90	---	0.87	NR	0.87	SB-4D/MW-206(I)	---	---
					80	---	120	---	0.87	NR	0.87	SB-4D/MW-206(I)		---
11/30/2007	KEZ, RSE on-site to check system and work on MW-206	NO	YES	YES	80	---	120	---	1.00	1.25	2.25	SB-4D/MW-206(I)	2,549	---
12/1/2007	BPP on-site for system inspection	NO	YES	YES	80	---	120	---	NR	NR	NR	SB-4D/MW-206(I)	5,628	---
12/2/2007	BPP on-site for system inspection - system on but not pumping	NO	YES	YES	81	---	120	---	0.00 (Frozen)	0.00 (Frozen)	0.00	---	7,115	---
12/3/2007	KEZ and WMC on-site to shut down system for winter and collect sample from frac tank	FRAC TANK	YES	NO	NR	---	NR	---	0.00 (Frozen)	0.00 (Frozen)	0.00	---	7,115	---
12/6/2007	KEZ on-site to check system and frac tank	NO	NO	NO	NR	---	NR	---	---	---	---	---	7,115	---
PILOT TEST														
04/16/08	CAB, KEZ on-site for seasonal pump install and system start up, gauge wells	NO	NO	YES	100	---	100	---	1.25	1.00	2.25	SB-4D/MW-206(I)	7,434	---
04/17/08	KDT on-site for system O&M	NO	YES	YES	100	---	100	---	1.30	0.80	2.10	SB-4D/MW-206(I)	9,812	---
04/18/08	WMC, KEZ on-site for system O&M	FRAC TANK	YES	YES	100	---	100	---	1.40	0.80	2.20	SB-4D/MW-206(I)	13,232	---
04/19/08	BPP on-site for system O&M, frac tank full, shut down system	NO	NO	NO	---	---	---	---	---	---	---	NONE	15,441	---
04/29/08	KEZ, BPP, JRF on-site for water transfer	NO	NO	NO	---	---	---	---	---	---	---	NONE	15,441	---
04/30/08	JRF, BPP on-site for water transfer and make repairs/upgrades to system	NO	NO	NO	---	---	---	---	---	---	---	NONE	15,441	---
05/01/08	BPP on-site to restart system and O&M	NO	NO	YES	120	---	100	---	1.50	1.00	2.50	SB-4D/MW-206(I)	15,441	---
05/05/08	KEZ, WMC on-site for system O&M, shut down system, install four new transducers	FRAC TANK	YES	NO	100	---	110	---	1.50	0.75	2.25	SB-4D/MW-206(I)	30,605	---
05/09/08	BPP on-site for system shut down and water transfer	NO	NO	NO	---	---	---	---	---	---	---	NONE	30,605	---
05/12/08	KEZ on-site to restart system, system O&M, and water transfer	INFLUENT	NO	YES	---	---	110	---	---	0.88	0.88	MW-206(I)	30,605	---
05/20/08	BPP on-site for system O&M and water transfer	INFLUENT	YES	YES	---	---	110	---	---	0.75	0.75	MW-206(I)	36,020	---
05/27/08	BPP on-site for system O&M and water transfer	INFLUENT	YES	YES	---	---	117	---	---	0.50	0.50	MW-206(I)	42,626	---
06/04/08	KEZ on-site for system O&M and water transfer	INFLUENT	YES	YES	---	---	115	---	---	0.65	0.65	MW-206(I)	49,592	---
06/10/08	BPP on-site for system O&M, gauging, and system shut down	INFLUENT/FRAC TANK	YES	NO	---	---	110	---	---	0.75	0.75	MW-206(I)	56,342	---
06/13/08	BPP on-site for system O&M and restart system	NO	NO	YES	---	---	120	---	---	0.75	0.75	MW-206(I)	56,342	---
06/17/08	KEZ on-site for system O&M, system shut down, and download transducers	INFLUENT	YES	NO	---	---	110	---	---	0.70	0.70	MW-206(I)	60,590	---
2008 OPERATING SEASON														
06/20/08	BPP on-site for system O&M and restart system	NO	NO	YES	100	---	---	---	1.25	---	1.25	SB-4D	64,816	---
06/25/08	BPP on-site for system O&M and water transfer	INFLUENT	YES	YES	98	---	---	---	1.25	---	1.25	SB-4D	73,816	---
07/01/08	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	SB-4D	82,816	---
07/02/08	KEZ on-site for system O&M and downloading transducers	INFLUENT	YES	YES	98	---	---	---	1.25	---	1.25	SB-4D	82,816	---
07/03/08	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	SB-4D	88,816	---
07/08/08	BPP on-site for system O&M, water transfer, and well gauging	INFLUENT	YES	YES	98	---	---	---	1.25	---	1.25	SB-4D	95,782	---
07/15/08	BPP on-site for system O&M and water transfer	INFLUENT/FRAC TANK	YES	YES	98	---	---	---	1.00	---	1.00	SB-4D	104,782	---
07/22/08	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	MW-206(I)	113,782	---
07/23/08	BPP on-site for system O&M	INFLUENT	YES	YES	---	---	106	---	---	0.50	0.50	MW-206(I)	109,030	---
07/29/08	BPP on-site for system O&M and water transfer, took photos of system	INFLUENT	YES	YES	---	---	116	---	---	0.75	0.75	MW-206(I)	115,030	---
08/05/08	BPP on-site for system O&M, water transfer, and compressor maintenance	INFLUENT	YES	YES	---	---	116	---	---	0.75	0.75	MW-206(I)	121,030	---
08/12/08	BPP on-site for system O&M, water transfer, gauging, and compressor maintenance	INFLUENT/FRAC TANK	YES	YES	100	---	117	---	0.75	0.50	1.25	SB-4D/MW-206(I)	127,030	---
08/19/08	BPP on-site for system O&M and water transfer	INFLUENT	YES	YES	100	---	119	---	0.25	0.50	0.75	SB-4D/MW-206(I)	136,030	---
08/26/08	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	SB-4D/MW-206(I)	145,030	---
09/02/08	KEZ on-site for system O&M, water transfer, and download transducers	INFLUENT	NO	YES	100	---	115	---	0.90	0.70	1.60	SB-4D/MW-206(I)	153,781	---
09/05/08	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	SB-4D/MW-206(I)	162,781	---
09/09/08	BPP on-site for system O&M, water transfer, and clean/repair pump in MW-206I	INFLUENT	YES	YES	98	---	117	---	0.75	0.75	1.50	SB-4D/MW-206(I)	166,881	---
09/16/08	BPP on-site for system O&M, water transfer, and gauging	INFLUENT/FRAC TANK	YES	YES	98	---	117	---	0.75	0.50	1.25	SB-4D/MW-206(I)	175,801	---
09/23/08	BPP on-site for system O&M, water transfer, compressor maintenance, and clean/repair pumps.	INFLUENT	NO	YES	98	---	118	---	1.00	0.75	1.75	SB-4D/MW-206(I)	181,801	---
09/30/08	BPP on-site for system O&M, water transfer, and clean/repair pump in SB-4D	INFLUENT	YES	YES	98	---	117	---	1.00	0.50	1.50	SB-4D/MW-206(I)	189,101	---
10/07/08	BPP on-site for system O&M and water transfer	INFLUENT/FRAC TANK	YES	YES	102	---	117	---	0.75	0.67	1.42	SB-4D/MW-206(I)	196,088	---
10/14/08	BPP on-site for system O&M, water transfer, clean/repairs to both pumps	INFLUENT	NO	YES	102	---	117	---	1.00	0.75	1.75	SB-4D/MW-206(I)	204,088	---
10/21/08	BPP on-site for system O&M, water transfer, gauging, and clean/repairs to both pumps	INFLUENT	YES	YES	102	---	117	---	0.75	0.50	1.25	SB-4D/MW-206(I)	213,088	---
10/22/08	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	SB-4D/MW-206(I)	220,588	---
10/27/08	BPP on-site for system O&M and clean/repair pump in MW-206I	INFLUENT	YES	YES	102	---	117	---	0.75	0.67	1.42	SB-4D/MW-206(I)	220,588	---
10/28/08	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	SB-4D/MW-206(I)	229,588	---
11/04/08	BPP on-site for system O&M, water transfer, and clean/repair pump in MW-206I	INFLUENT	YES	YES	102	---	117	---	1.00	0.75	1.75	SB-4D/MW-206(I)	238,588	---
11/11/08	BPP on-site for system O&M and clean/repair pump in SB-4D	INFLUENT/FRAC TANK	YES	YES	102	---	117	---	1.00	0.75	1.75	SB-4D/MW-206(I)	247,588	---
11/18/08	BPP on-site for system O&M, water transfer, and clean/repair pump in MW-206I	INFLUENT	YES	YES	102	---	117	---	1.00	0.00	1.00	SB-4D	256,588	---
11/25/08	BPP on-site for system O&M, water transfer, and seasonal system shutdown	NO	YES	NO	102	---	---	---	---	---	---	NONE	264,588	---
2009 OPERATING SEASON														
05/05/09	CHES on-site for water transfer	NO	---	---	---	---	---	---	---	---	---	SB-4D/MW-206(I)	273,588	9000
05/07/09	BPP on-site for system O&M, clean MW-206I totalizer.	INFLUENT/FRAC TANK	YES	YES	102	100	112	110	0.90	1.00	1.90	SB-4D/MW-206(I)	273,588	0
05/12/09	BPP on-site for system O&M, water transfer	INFLUENT	NO	YES	101	101	118	118	1.20	0.90	2.10	SB-4D/MW-206(I)	282,588	9,000
05/14/09	CAM on-site for system O&M, water transfer	NO	YES	YES	---	---	---	---	---	---	---	SB-4D/MW-206(I)	285,588	3,000
05/19/09	BPP on-site for system O&M, water transfer	INFLUENT	YES	YES	102	---	118	---	1.00	0.80	1.80	SB-4D/MW-206(I)	294,588	9,000
05/26/09	BPP on-site for system O&M, water transfer	INFLUENT	YES	YES	102	100	102	99	0.90	0.80	1.70	SB-4D/MW-206(I)	303,588	9,000
06/02/09	BPP on-site for system O&M, water transfer	INFLUENT/FRAC TANK	YES	YES	102	101	104	102	0.85	0.90	1.80	SB-4D/MW-206(I)	312,588	9,000
06/09/09	BPP on-site for system O&M, water transfer	INFLUENT	NO	YES	102	102	104	102	0.90	0.90	1.80	SB-4D/MW-206(I)	321,588	9,000
06/16/09	BPP on-site for system O&M, water transfer	INFLUENT	YES	YES	102	101	102	102	0.90	0.90	1.80	SB-4D/MW-206(I)	330,588	9,000
06/23/09	CHES on-site for water transfer	---	---	---	---	---	---	---	---	---	---	---	339,588	9,000
06/25/09	BPP on-site for system O&M	NO	NO	YES	102	101	102	101	0.80	0.70	1.50	SB-4D/MW-206(I)	339,588	0
06/30/09	BPP on-site for system O&M, water transfer	INFLUENT	YES	YES	102	101	102	101	0.80	0.80	1.60	SB-4D/MW-206(I)	346,588	7,000
07/07/09	BPP on-site for system O&M, water transfer, new pump installed in MW-206I	INFLUENT/FRAC TANK	YES	YES	102	101	102	101	0.80	0.70	1.50	SB-4D/MW-206(I)	355,588	9,000
07/10/09	CHES on site for water transfer	---	---	---	---	---	---	---	---	---	---	---	364,588	9,000
07/14/09	BPP on-site for system O&M, clean totalizers	INFLUENT	YES	NO	102	100	102	101	0.80	0.80	1.60	SB-4D/MW-206(I)	365,256	668
07/16/09	CHES on site for water transfer	---	---	---	---	---	---	---	---	---	---	---	374,256	9,000
07/20/09	BPP on-site for system O&M, clean totalizers	NO	YES	YES	102	101	102	101	0.80	0.70	1.50	SB-4D/MW-206(I)	374,256	0
7/21/109	CHES on site for water transfer	---	---	---	---	---	---	---	---	---	---	---	381,756	7,500
07/28/09	BPP on-site for system O&M, replace frac tank valve	NO	YES	YES	102	101	102	100	1.00	1.00	2.00	SB-4D/MW-206(I)	396,756	15,000
08/04/09	BPP on-site for system O&M	INFLUENT/FRAC TANK	NO	YES	102	100	102	101	0.90	0.75	1.65	SB-4D/MW-206(I)	411,556	14,800
08/07/09	CHES on-site for water transfer	---	---	---	---	---	---	---	---	---	---	---	417,556	6,000
08/11/09	BPP on-site for system O&M, water transfer	INFLUENT	YES	YES	102	100	102	101	0.80	0.80	1.60	SB-4D/MW-206(I)	421,556	4,000
08/17/09	BPP on-site for system O&M, water transfer	INFLUENT	YES	YES	102	101	102	101	0.80	0.75	1.55	SB-4D/MW-206(I)	432,556	11,000
08/21/09	CHES on-site for water transfer	---	---	---	---	---	---	---	---	---	---	---	435,556	3,000
08/25/09	BPP on-site for system O&M, water transfer	INFLUENT	YES	YES	102	101	102	101	0.80	0.75	1.55	SB-4D/MW-206(I)	443,056	7,500
09/01/09	KEZ/SJL on-site for system O&M, water transfer	INFLUENT	YES	YES	101	102	102	101	---	0.88	0.88	MW-206(I)	451,056	8,000

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; KEZ = Krisstin Zeman, system operator; SJL = Shauna Little, system operator
3. gpm = gallons per minute.
3. gpm = gallons per minute.

TABLE 3
MAINTENANCE TRACKING LOG - 2009
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)
06/16/09	BPP	Pulled and cleaned pump in MW-206I.	Iron/sediment buildup observed in pump. Pump in MW-206I operating at departure.	ON	ON
06/25/09	BPP	Dismantled and cleand process piping from totalizers to downspout.	Iron/sediment buildup formed a blockage in process piping. Pumps not operating at arrival. Pumps operating at departure.	OFF	ON
06/30/09	BPP	Greased compressor motor, pulled and cleaned pump in SB-4D.	Iron/sediment buildup observed in pump. Pump in SB-4D operating at departure.	ON	ON
07/07/09	BPP	Pulled and replaced pump in MW-206I with new pump. Pump removed from MW-206I cleaned and stored as alternate pump. New connectors installed on both the new and alternate pumps.	Pumps operating at departure.	ON	ON
07/14/09	BPP	Pulled, inspected, and cleaned pumps in SB-4D and MW-206I. Clean totalizers. MW-206I pump replaced with alternate pump.	Pumps operating at departure.	ON	ON
07/20/09	BPP	Pulled and cleaned pump in SB-4D. Clear SB-4D return line with compressed air to remove iron/sediment buildup.	Pumps operating at departure.	ON	ON
07/28/09	BPP	Removed silt from MW-206I using a Vac Truck. Cleaned pump in MW-206I. Replace vac out valve on frac tank.	Pump in MW-206I operating at departure.	ON	ON
08/04/09	BPP	Greased fittings in air compressor motor.	Pumps not operating at arrival due to high water level in frac tank. Pumps operating at departure.	OFF	ON
08/11/09	BPP	Changed compressor oil. Pulled and cleaned pump in SB-4D and MW-206I. Clear SB-4D return line with compressed air; return line was clogged with iron/sediment. Check valve on SB-4D pump jammed.	Pump in SB-4D not operating at arrival. Pumps operating at departure.	ON (SB-4D OFF)	ON
08/17/09	BPP	Pulled and cleaned pump in SB-4D.	Pump in SB-4D not operating at arrival. Pumps operating at departure.	ON (SB-4D OFF)	ON
08/25/09	BPP	Clear SB-4D influent line with air; influent line was clogged with iron/sediment. Also pulled and cleaned pump in SB-4D.	Pump in SB-4D operating at departure.	ON	ON
09/01/09	KEZ/SJL	Pulled and inspected pump in SB-4D. SB-4D operated temporarily; issue not resolved.	Pump in SB-4D not operating at arrival. SB-4D not operating at departure.	ON (SB-4D OFF)	ON (SB-4D OFF)

NOTES:

1. BPP = Brian Poulin; GWE primary system operator.
2. KEZ = Kristin Zeman; GWE system operator.
3. SJL = Shauna Little; GWE system operator.

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	ANNUAL BASELINE GAUGING	CONTINUOUS HYDRAULIC INFLUENCE MONITORING	ANNUAL BASELINE 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	X				
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	X	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	X	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					
New 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

TABLE 5A
SUMMARY OF LABORATORY ANALYSES
INFLUENT VOC MONITORING - MW-206(I) - 2008
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

Constituent	POTW Screening Levels	12-May-08	20-May-08	27-May-08	4-Jun-08	10-Jun-08	17-Jun-08	23-Jul-08	29-Jul-08	5-Aug-08	13-Aug-08	19-Aug-08	2-Sep-08	9-Sep-08	16-Sep-08	23-Sep-08	30-Sep-08	7-Oct-08	14-Oct-08	21-Oct-08	27-Oct-08	4-Nov-08	11-Nov-08
benzene	N/A	**29**	**37**	**19**	**20**	**22**	**56**	**22**	**21**	**19**	**23**	**28**	**27**	**26**	**23**	**23**	**23**	**45**	**26**	**23**	**25**	**25**	**19**
ethylbenzene	**1,590**	**23**	**33**	**21**	**21**	**23**	**53**	**23**	**24**	**21**	**26**	**26**	**28**	**28**	**26**	**27**	**27**	**41**	**25**	**25**	**26**	**25**	**19**
toluene	**1,350**	**4**	<10	**2**	**3**	<10	<10	**3**	**3**	**2**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	<10	**3**	**2**	**3**	**3**	**2**
xylenes (total)	N/A	**63**	**77**	**45**	**47**	**50**	**122**	**52**	**53**	**48**	**59**	**67**	**72**	**72**	**61**	**67**	**65**	**108**	**67**	**64**	**68**	**67**	**50**
PCE	**530**	<2	<10	<2	<2	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2
TCE	**710**	<2	<10	<2	<2	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2
cis-1,2-DCE	**280***	<2	<10	<2	<2	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2
vinyl chloride	**3**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2
acetone	**1,176,000**	<50	<250	<50	<50	<250	<250	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<250	<50	<50	<50	<50	<50
tetrahydrofuran	N/A	**2,600**	**2,700**	**1,500**	**3,600**	**1,700**	**4,200**	**3,100**	**2,400**	**2,100**	**1,700**	**1,900**	**2,200**	**2,000**	**1,900**	**1,800**	**1,200**	**1,500**	**2,900**	**2,500**	**2,200**	**2,100**	**2,200**
MEK	**249,000**	<10	<50	<10	<10	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10
MIBK	N/A	<10	<50	<10	<10	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10
methylene chloride	**4,150**	<5	<25	<5	<5	<25	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<25	<5	<5	<5	<5	<5
1,1,1-TCA	**1,550****	<2	<10	<2	<2	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2
1,1-DCA	**4,580**	**3**	<10	**2**	<2	<10	<10	<2	**2**	<2	<2	**2**	**2**	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2
1,1-DCE	N/A	<1	<5	<1	<1	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<5	<1	<1	<1	<1	<1
1,2-DCA	N/A	<2	<10	<2	<2	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2
bromomethane	**2**	<2	<10	<2	<2	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2
chloromethane	**7**	<2	<10	<2	<2	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2
chloroform	**420**	<2	<10	<2	<2	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2
dibromochloromethane	N/A	<2	<10	<2	<2	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2
bromoform	N/A	<2	<10	<2	<2	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2
carbon disulfide	**60**	<2	<10	<2	<2	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2
styrene	N/A	<2	<10	<2	<2	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2
chloroethane	N/A	**3**	<10	<2	<2	<10	<10	<2	<2	<2	<2	**2**	**2**	**2**	<2	<2	<2	<10	<2	<2	<2	<2	<2
chlorobenzene	**2,350**	**3**	<10	**3**	**3**	<10	<10	**3**	**3**	**2**	**3**	**3**	**4**	**3**	**3**	**3**	**3**	<10	**4**	**3**	**3**	**3**	**2**
1,2-dichloropropane	**3,650**	<2	<10	<2	<2	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2
1,1,2-trichloroethane	N/A	<2	<10	<2	<2	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2
cis-1,3-dichloropropene	**90*****	<2	<10	<2	<2	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2
trans-1,3-dichloropropene	**90*****	<2	<10	<2	<2	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2
1,1,2,2-tetrachloroethane	N/A	<2	<10	<2	<2	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<10	<2	<2	<2	<2	<2
2-hexanone	N/A	<10	<50	<10	<10	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10	<10

NOTES:
1. Laboratory analytical results are reported in micrograms per liter (ug/L).
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. Bold values exceed laboratory practical quantitation limits (PQLs).
5. "<" = Not detected above reported PQL.
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 5B
SUMMARY OF LABORATORY ANALYSES
INFLUENT VOC MONITORING - MW-206(I) - 2009
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

Analyte	POTW Screening Levels	7-May-09	12-May-09	19-May-09	26-May-09	2-Jun-09	9-Jun-09	16-Jun-09	25-Jun-09	30-Jun-09	7-Jul-09	14-Jul-09	20-Jul-09	28-Jul-09	4-Aug-09	11-Aug-09	17-Aug-09	25-Aug-09	1-Sep-09
benzene	N/A	**29**	**31**	**28**	**31**	**25**	**28**	**27**	**25**	**26**	**22**	**24**	**26**	**26**	**23**	**24**	**23**	**21**	**22**
ethylbenzene	**1,590**	**20**	**23**	**19**	**20**	**22**	**22**	**21**	**20**	**22**	**20**	**25**	**26**	**27**	**20**	**22**	**20**	**17**	**19**
toluene	**1,350**	<10	<10	**2**	**2**	2	**3**	**2**	**2**	**3**	**2**	**3**	**3**	**3**	**2**	**2**	**2**	**2**	**2**
xylenes (total)	N/A	**50**	**58**	**46**	**51**	**50**	**56**	**54**	**51**	**53**	**50**	**67**	**71**	**74**	**58**	**64**	**61**	**53**	**60**
PCE	**530**	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
TCE	**710**	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
cis-1,2-DCE	**280***	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
vinyl chloride	**3**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
acetone	**1,176,000**	<250	<250	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
tetrahydrofuran	N/A	**1,800**	**2,100**	**1,800**	**2,000**	**2,500**	**2,000**	**1,800**	**1,700**	**1,900**	**1,700**	**1,900**	**1,600**	**2,000**	**1,600**	**1,500**	**1,600**	**1,600**	**1,400**
MEK	**249,000**	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MIBK	N/A	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
methylene chloride	**4,150**	<25	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-TCA	**1,550****	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-DCA	**4,580**	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-DCE	N/A	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	N/A	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
bromomethane	**2**	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloromethane	**7**	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloroform	**420**	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
dibromochloromethane	N/A	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
bromoform	N/A	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
carbon disulfide	**60**	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
styrene	N/A	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloroethane	N/A	<10	<10	<2	<2	<2	<2	<2	<2	**2**	<2	<2	<2	<2	<2	<2	<2	<2	<2
chlorobenzene	**2,350**	<10	<10	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**
1,2-dichloropropane	**3,650**	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1,2-trichloroethane	N/A	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
cis-1,3-dichloropropene	**90*****	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
trans-1,3-dichloropropene	**90*****	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1,2,2-tetrachloroethane	N/A	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
2-hexanone	N/A	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<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 6A
SUMMARY OF LABORATORY ANALYSES
INFLUENT VOC MONITORING - SB-4D - 2008
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

Constituent	POTW Screening Levels	12-May-08	25-Jun-08	1-Jul-08	8-Jul-08	15-Jul-08	5-Aug-08	13-Aug-08	19-Aug-08	2-Sep-08	9-Sep-08	16-Sep-08	23-Sep-08	30-Sep-08	7-Oct-08	14-Oct-08	21-Oct-08	27-Oct-08	4-Nov-08	11-Nov-08	18-Nov-08
benzene	N/A	**35**	**34**	**31**	**35**	**31**	**36**	**32**	**31**	**31**	**30**	**30**	**32**	**30**	**37**	**34**	**29**	**29**	**29**	**19**	**25**
ethylbenzene	**1,590**	**30**	**22**	**25**	**29**	**25**	**28**	**25**	**19**	**17**	**3**	**8**	**12**	**14**	**11**	**14**	**14**	**19**	**23**	<2	**15**
toluene	**1,350**	**89**	**70**	**74**	**82**	**80**	**50**	**76**	**73**	**69**	**70**	**70**	**55**	**64**	**61**	**58**	**57**	**59**	**67**	**32**	**51**
xylenes (total)	N/A	**92**	**97**	**114**	**130**	**116**	**108**	**118**	**107**	**107**	**118**	**115**	**112**	**114**	**105**	**98**	**109**	**112**	**123**	**78**	**92**
PCE	**530**	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
TCE	**710**	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
cis-1,2-DCE	**280***	**2**	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
vinyl chloride	**3**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
acetone	**1,176,000**	**56**	**52**	**66**	<250	**51**	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
tetrahydrofuran	N/A	**3,100**	**1,900**	**1,900**	**1,700**	**1,300**	**1,800**	**2,000**	**1,200**	**1,400**	**1,500**	**1,700**	**1,400**	**3,100**	**2,200**	**1,700**	**1,100**	**1,700**	**1,500**	**1,300**	**1,500**
MEK	**249,000**	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MIBK	N/A	**15**	<10	<10	<50	<10	**2**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
methylene chloride	**4,150**	<5	<5	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-TCA	**1,550****	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-DCA	**4,580**	**2**	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-DCE	N/A	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	N/A	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
bromomethane	**2**	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloromethane	**7**	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloroform	**420**	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
dibromochloromethane	N/A	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
bromoform	N/A	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
carbon disulfide	**60**	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
styrene	N/A	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloroethane	N/A	**9**	**7**	**6**	<10	**6**	**9**	**6**	**6**	**6**	**6**	**6**	**6**	**6**	**6**	<2	<2	**5**	**6**	**4**	**4**
chlorobenzene	**2,350**	<2	<2	**2**	<10	**2**	<2	**2**	**2**	**3**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**3**	**2**	<2	<2
1,2-dichloropropane	**3,650**	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1,2-trichloroethane	N/A	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
cis-1,3-dichloropropene	**90*****	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
trans-1,3-dichloropropene	**90*****	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1,2,2-tetrachloroethane	N/A	<2	<2	<2	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
2-hexanone	N/A	<10	<10	<10	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

NOTES:
1. Laboratory analytical results are reported in micrograms per liter(ug/L).
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. Bold values exceed laboratory practical quantitation limits (PQLs).
5. "<" = Not detected above reported PQL.
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 6B
SUMMARY OF LABORATORY ANALYSES
INFLUENT VOC MONITORING - SB-4D - 2009
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

Analyte	POTW Screening Levels	7-May-09	12-May-09	19-May-09	26-May-09	2-Jun-09	9-Jun-09	16-Jun-09	25-Jun-09	30-Jun-09	7-Jul-09	14-Jul-09	20-Jul-09	28-Jul-09	4-Aug-09	11-Aug-09	17-Aug-09	25-Aug-09	1-Sep-09
benzene	N/A	**21**	**35**	**37**	**37**	**33**	**35**	**33**	**34**	**33**	**29**	**34**	**38**	**34**	**32**	**35**	**35**	**29**	**28**
ethylbenzene	**1,590**	**23**	**24**	**22**	**23**	**20**	**23**	**26**	**20**	**25**	**27**	**24**	**25**	**29**	**28**	**28**	**28**	**21**	**22**
toluene	**1,350**	**36**	**38**	**50**	**46**	**46**	**48**	**47**	**41**	**40**	**40**	**39**	**37**	**41**	**37**	**32**	**34**	**31**	**34**
xylenes (total)	N/A	**118**	**136**	**122**	**119**	**136**	**145**	**134**	**147**	**136**	**137**	**157**	**167**	**158**	**159**	**180**	**180**	**155**	**167**
PCE	**530**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
TCE	**710**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
cis-1,2-DCE	**280***	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
vinyl chloride	**3**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
acetone	**1,176,000**	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	**57**	<50	<50	<50	<50	<50	<50
tetrahydrofuran	N/A	**1,500**	**1,600**	**1,400**	**1,400**	**1,500**	**1,700**	**2,900**	**1,700**	**2,000**	**1,500**	**1,600**	**2,500**	**2,700**	**1,700**	**1,400**	**1,500**	**1,400**	**1,200**
MEK	**249,000**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MIBK	N/A	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
methylene chloride	**4,150**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,1,1-TCA	**1,550****	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-DCA	**4,580**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1-DCE	N/A	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	N/A	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
bromomethane	**2**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloromethane	**7**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	**3**
chloroform	**420**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
dibromochloromethane	N/A	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
bromoform	N/A	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
carbon disulfide	**60**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
styrene	N/A	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloroethane	N/A	<2	<2	**5**	**5**	**5**	**5**	<2	**7**	**6**	**6**	**7**	**7**	**6**	**6**	**6**	**7**	**6**	**6**
chlorobenzene	**2,350**	**3**	**3**	**3**	**2**	**3**	**3**	**3**	**3**	**2**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**
1,2-dichloropropane	**3,650**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1,2-trichloroethane	N/A	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
cis-1,3-dichloropropene	**90*****	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
trans-1,3-dichloropropene	**90*****	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
1,1,2,2-tetrachloroethane	N/A	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
2-hexanone	N/A	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<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 7A
SUMMARY OF LABORATORY ANALYSES - FRAC TANK WITH POTW LOCAL LIMITS AND SCREENING LEVELS - 2008
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 MW-206(I)	Combined Water 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)	Combined Water SB-4D and MW-206(I)
		FRAC TANK	FRAC TANK	FRAC TANK	FRAC TANK	FRAC TANK	FRAC TANK	FRAC TANK	FRAC TANK
Analyte/Parameter	**Local Limit**	**4/18/2008**	**5/5/2008**	**6/10/2008**	**7/15/2008**	**8/13/2008**	**9/16/2008**	**10/7/2008**	**11/11/2008**
Total Arsenic	0.4	**0.09**	**0.30**	**0.030**	**0.051**	**0.050**	**0.032**	**0.015**	**0.036**
Total Cadmium	0.02	<0.005	<0.005	**0.01**	<0.005	<0.005	<0.005	<0.005	<0.005
Total Chromium	4.03	<0.05	**0.05**	<0.50	<0.05	**0.34**	<0.05	<0.05	<0.05
Total Copper	3.46	<0.05	<0.05	<0.50	<0.05	<0.05	<0.05	<0.05	<0.05
Total Lead	0.806	<0.01	<0.01	**0.38**	<0.008	<0.008	<0.008	<0.008	<0.008
Mercury	0.004	<0.0009	<0.0009	---	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009
Total Nickel	1.07	<0.05	**0.12**	<0.50	<0.05	**0.89**	<0.05	<0.05	<0.05
Selenium	8.55	<0.05	<0.05	**0.06**	<0.05	<0.05	<0.05	<0.05	<0.05
Silver	0.713	<0.007*	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Total Zinc	4.33	<0.05	**0.07**	**0.99**	<0.05	<0.05	<0.05	<0.05	<0.05
Cyanide	0.363	<0.02	<0.02	<0.02	---	<0.02	<0.02	<0.02	<0.02
Total Phenol	182	<0.05	**0.09**	**0.20**	**0.08**	**2.1**	<0.05	<0.05	**0.51**
Analyte/Parameter	**Screening Level**	**4/18/2008**	**5/5/2008**	**6/10/2008**	**7/15/2008**	**8/13/2008**	**9/16/2008**	**10/7/2008**	**11/11/2008**
1,1,1-Trichloroethylene	1.55	<0.01**	<0.01**	<0.01**	<0.002**	<0.002**	<0.002**	<0.002**	<0.002**
1,1-Dichloroethane	4.58	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,4-Trichlorobenzene	0.43	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002
1,2-Dichlorobenzene	3.74	<0.01	<0.01	<0.01	<0.002	**0.002**	**0.003**	**0.003**	**0.002**
1,2-Dichloropropane	3.65	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002
1,3-Dichloropropene (Total)	0.09	<0.02	<0.02	<0.02	<0.004	<0.004	<0.004	<0.004	<0.004
1,4-Dichlorobenzene	3.54	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002
2-Butanone (MEK)	249	<0.05	<0.05	<0.05	<0.010	<0.010	<0.010	<0.010	<0.010
Acetone	1,176	<0.25	<0.25	<0.25	<0.050	<0.050	<0.050	<0.050	<0.050
Acrylonitrile	1.24	---	---	---	---	---	---	---	---
Bromomethane	0.002	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002
Carbon Disulfide	0.06	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002
Chlorobenzene	2.35	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002
Chloroform	0.42	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002
Chloromethane	0.007	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002
Dichlorodifluoromethane	0.04	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	1.59	**0.015**	**0.21**	**0.25**	**0.018**	**0.009**	**0.014**	**0.009**	**0.012**
Ethylene Dichloride	1.05	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002
Hexachloroethane	0.96	<0.002*	<0.2	<0.1	---	---	---	---	---
Hexachloro-1,3-Butadiene	0.0002	---	---	---	---	---	---	---	---
Methylene Chloride	4.15	<0.025	<0.025	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	3.34	<0.025	**0.031**	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005
Tetrachloroethylene	0.53	<0.01	**0.26**	**0.093**	<0.002	<0.002	<0.002	<0.002	<0.002
Toluene	1.35	**0.026**	<0.01	<0.01	**0.044**	**0.030**	**0.029**	**0.012**	**0.021**
trans-1,2-Dichloroethylene	0.28	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002
Trichloroethylene	0.71	<0.01	**0.036**	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002
Trichlorofluoromethane	1.22	<0.01	<0.01	<0.01	<0.002	<0.002	<0.002	<0.002	<0.002
Vinyl Acetate	1.21	---	---	---	---	---	<0.010	<0.010	<0.010
Vinyl Chloride	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Formaldehyde	0.07	**0.069/0.084**[A]	**0.10/0.036**[A]	**1.5**[B]	**0.051/0.653**[C]	**0.590**[D]	**0.076**[D]	**0.13**[D]	**0.087**[D]
Heptachlor	0.003	---	---	---	---	---	---	---	---
Sulfate	150/1,500	---	---	---	---	---	---	---	---
Sulfide	1	<0.04	<0.04	**0.07**	---	---	<0.04	<0.04	<0.04
Sulfite	2.00	---	---	---	---	---	---	---	---
Oil and Grease	100	---	---	---	---	---	---	---	---
Ammonia-N	90	**58**	**160**	**28**	**70**	**63**	**72**	---	---
pH	<6.0 or >11.0	**6.46**	**6.45**	**6.28**	**6.38**^	**6.22**^	**6.23**^	**6.26**	**6.23**
Alkalinity (as CaCO3)	>75.0	**530**	**1,100**	**1,800**	**630**	**540**	---	---	---
Biological Oxygen Demand	791	**14**	**22**	**17**	**13**	**17**	**12**	**13**	**11**
Total Suspended Solids	847	**110**	**370**	**11,000**	**65**	**80**	**42**	**80**	**58**
ADDITIONAL ANALYSES (NON-PERMIT) REQUESTED BY POTW									
Analyte/Parameter		**4/18/2008**	**5/5/2008**	**6/10/2008**	**7/15/2008**	**8/13/2008**	**9/16/2008**	**10/7/2008**	**11/11/2008**
Antimony		**0.007**	**0.01**	**0.53**	<0.006	<0.006	<0.006	<0.006	<0.006
Beryllium		<0.004	<0.004	**0.01**	<0.004	<0.004	<0.004	<0.004	<0.004
Molybdenum		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Thallium		<0.004	<0.004	<0.004	**0.005**	<0.004	<0.002	<0.002	<0.002
Tetrahydrofuran		**3.0**	**1.8**	**1.8**	**1.3**	**1.7**	**1.5**	**2.3**	**2.1**
Flash Point (Closed Cup)		NonIgnitable	**>140**	**>140**	**>140**	**>140**	---	---	---

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 two different laboratories (Katahdin/ChemServe).
8. [B] data reported by Alpha Analytical.
9. [C] data reported by two different laboratories (Katahdin/Alpha Analytical).
10. [D] data reported by ChemServe.
11. ^ = sample was analyzed beyond method holding time.
12. pH measured in standard pH units.
13. POTW = Dover's Publicly Owned Treatment Works.

TABLE 7B
SUMMARY OF LABORATORY ANALYSES - FRAC TANK WITH POTW LOCAL LIMITS AND SCREENING LEVELS - 2009
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**	**5/7/2009**	**6/2/2009**	**7/7/2009**	**8/4/2009**
Total Arsenic	0.4	**0.064**	**0.054**	**0.036**	**0.030**
Total Cadmium	0.02	<0.005	<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	<0.0009	<0.0009	<0.0009	<0.0009
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	<0.05
Cyanide	0.363	<0.02	<0.02	<0.02	<0.02
Total Phenol	182	<0.05	**0.05**	<0.05	**0.05**
Analyte/Parameter	**Screening Level**	**5/7/2009**	**6/2/2009**	**7/7/2009**	**8/4/2009**
1,1,1-Trichloroethylene	1.55	<0.010*	<0.002*	<0.002*	<0.002*
1,1-Dichloroethane	4.58	<0.010	<0.002	<0.002	<0.002
1,2,4-Trichlorobenzene	0.43	<0.010	<0.002	<0.002	<0.002
1,2-Dichlorobenzene	3.74	<0.010	**0.002**	**0.003**	**0.002**
1,2-Dichloropropane	3.65	<0.010	<0.002	<0.002	<0.002
1,3-Dichloropropene (Total)	0.09	<0.020	<0.004	<0.004	<0.004
1,4-Dichlorobenzene	3.54	<0.010	<0.002	<0.002	<0.002
2-Butanone (MEK)	249	<0.050	<0.010	<0.010	<0.010
Acetone	1,176	<0.250	<0.050	<0.050	<0.050
Acrylonitrile	1.24	---	---	---	---
Bromomethane	0.002	<0.010	<0.002	<0.002	<0.002
Carbon Disulfide	0.06	<0.010	<0.002	<0.002	<0.002
Chlorobenzene	2.35	<0.010	**0.002**	**0.002**	**0.002**
Chloroform	0.42	<0.010	<0.002	<0.002	<0.002
Chloromethane	0.007	<0.010	<0.002	<0.002	<0.002
Dichlorodifluoromethane	0.04	<0.010	<0.002	<0.002	<0.002
Ethylbenzene	1.59	**0.014**	**0.020**	**0.021**	**0.022**
Ethylene Dichloride	1.05	<0.010	<0.002	<0.002	<0.002
Hexachloroethane	0.96	---	---	---	---
Hexachloro-1,3-Butadiene	0.0002	---	---	---	---
Methylene Chloride	4.15	<0.025	<0.005	<0.005	<0.005
Naphthalene	3.34	<0.025	<0.005	<0.005	<0.005
Tetrachloroethylene	0.53	<0.010	<0.002	<0.002	<0.002
Toluene	1.35	**0.015**	**0.021**	**0.017**	**0.014**
trans-1,2-Dichloroethylene	0.28	<0.010	<0.002	<0.002	<0.002
Trichloroethylene	0.71	<0.010	<0.002	<0.002	<0.002
Trichlorofluoromethane	1.22	<0.010	<0.002	<0.002	<0.002
Vinyl Acetate	1.21	<0.050	<0.010	<0.010	<0.010
Vinyl Chloride	0.003	<0.002	<0.002	<0.002	<0.002
Formaldehyde	0.07	**0.697[A]**	**0.310[B]**	**0.340[B]**	**0.190[B]**
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	**6.3**^	**6.3**^	**6.3**^	**6.5**^
Alkalinity (as CaCO3)	>75.0	---	---	---	---
Biological Oxygen Demand	791	**20**	**19**	**25**	**25**
Total Suspended Solids	847	**82**	**95**	**99**	**80**
ADDITIONAL ANALYSES (NON-PERMIT) REQUESTED BY POTW					
Analyte/Parameter		**5/7/2009**	**6/2/2009**	**7/7/2009**	**8/4/2009**
Antimony		<0.006	**0.006**	<0.006	<0.006
Beryllium		<0.004	<0.004	<0.004	<0.004
Molybdenum		<0.05	<0.05	<0.05	<0.05
Thallium		<0.002	<0.002	<0.002	<0.002
Tetrahydrofuran		**1.6**	**1.9**	**1.6**	**1.5**
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 Alpha Analytical.
8. [B] data reported by ChemServe.
9. ^ = sample was analyzed beyond method holding time.
10. pH measured in standard pH units.
11. POTW = Dover's Publicly Owned Treatment Works.

TABLE 8A
MASS REMOVAL CALCULATIONS - 2008
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

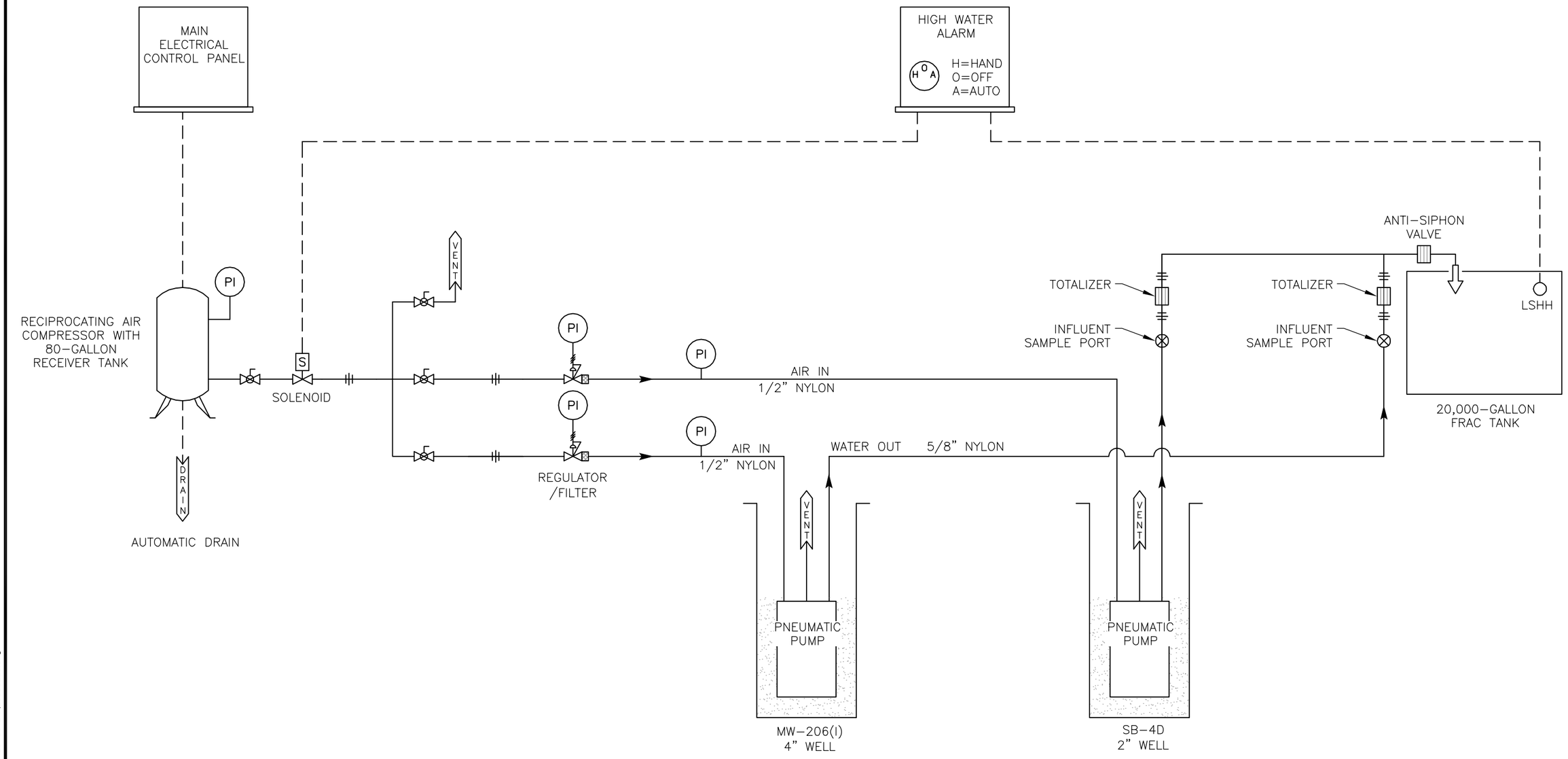
	Constituents						Constituent Weekly Totals	
Date	**Benzene (ug/L)**	**Tetrahydrofuran (ug/L)**	**Well Pumping**	**Approximate Pumping Rate (gal/min)**	**Gallons Pumped**	**Liters Pumped**	**Benzene (kg)**	**Tetrahydrofuran (kg)**
Pilot Test Period								
04/18/08	**22**	**3,000**	Frac Tank	NA	15,441	58,451	1.29E-03	1.75E-01
05/05/08	ND(10)*	**1,800**	Frac Tank	NA	15,164	57,402	2.87E-04	1.03E-01
05/12/08	**29**	**2,600**	MW-206I	0.88	5,415	20,498	5.94E-04	5.33E-02
05/20/08	**37**	**2,700**	MW-206I	0.75	6,606	25,006	9.25E-04	6.75E-02
05/27/08	**19**	**1,500**	MW-206I	0.50	6,966	26,369	5.01E-04	3.96E-02
06/04/08	**20**	**3,600**	MW-206I	0.65	6,750	25,552	5.11E-04	9.20E-02
6/10 & 6/17/2008	**39****	**2,950****	MW-206I	0.73	4,248	16,080	6.27E-04	4.74E-02
2008 Operating Season (6/17/2008 - 11/25/2008)								
Well ID	**Average Benzene Concentration (ug/L)**	**Average Tetrahydrofuran Concentration (ug/L)**	**Well Pumping**	**Average Pumping Rate per Well (gal/min)**	**Gallons Pumped**	**Liters Pumped**	**Benzene (kg)**	**Tetrahydrofuran (kg)**
MW-206I	**25**	**2,106**	NA	0.64	86,827	328,677	8.22E-03	6.92E-01
SB-4D	**31**	**1,679**	NA	0.93	126,171	477,608	1.48E-02	8.02E-01
TOTAL TO DATE:					273,588	1,035,643	2.78E-02	2.07E+00
SUMMARY								
TOTAL ESTIMATED MASS REMOVED IN 2008:							**kg**	**lbs**
Benzene							**0.028**	**0.06**
Tetrahydrofuran							**2.073**	**4.57**

NOTES:
1. * = constituent not detected above detection limit; mass removal calculated using half of the detection limit.
2. ** = average concentrations calculated from two influent samples collected during pumping period.
3. Frac Tank = indicates water sample was collected from fractionation tank (i.e., water storage tank); SB-4D and MW-206I combined effluent.
4. NA = not applicable.
5. ug/L = micrograms per liter.
6. gal/min = gallons per minute.
7. kg = kilograms.
8. lbs = pounds.
9. "Gallons Pumped" estimated based upon volume monitoring of frac tank and/or recorded water transfer volume.

TABLE 8B
MASS REMOVAL CALCULATIONS
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

	Constituents						Constituent Weekly Totals	
Date	**Benzene (ug/L) Influent**	**Tetrahydrofuran (ug/L) Influent**	**Well Pumping**	**Approximate Pumping Rate (gal/min)**	**Gallons Pumped**	**Liters Pumped**	**Benzene (kg)**	**Tetrahydrofuran (kg)**
2009 Operating Season (to date):								
5/7/2009	**25**	**1,650**	MW-206I/SB-4D	0.95	9,000	34,069	8.52E-04	5.62E-02
5/12/2009	**33**	**1,850**	MW-206I/SB-4D	1.05	9,000	34,069	1.12E-03	6.30E-02
5/19/2009	**32.5**	**1,600**	MW-206I/SB-4D	0.90	12,000	45,425	1.48E-03	7.27E-02
5/26/2009	**34**	**1,700**	MW-206I/SB-4D	0.85	9,000	34,069	1.16E-03	5.79E-02
6/2/2009	**29**	**2,000**	MW-206I/SB-4D	0.88	9,000	34,069	9.88E-04	6.81E-02
6/9/2009	**31.5**	**1,850**	MW-206I/SB-4D	0.90	9,000	34,069	1.07E-03	6.30E-02
6/16/2009	**30**	**2,350**	MW-206I/SB-4D	0.90	9,000	34,069	1.02E-03	8.01E-02
6/25/2009	**29.5**	**1,700**	MW-206I/SB-4D	0.75	9,000	34,069	1.01E-03	5.79E-02
6/30/2009	**29.5**	**1,950**	MW-206I/SB-4D	0.80	7,000	26,498	7.82E-04	5.17E-02
7/7/2009	**25.5**	**1,600**	MW-206I/SB-4D	0.75	9,000	34,069	8.69E-04	5.45E-02
7/14/2009	**29**	**1,750**	MW-206I/SB-4D	0.80	18,668	70,666	2.05E-03	1.24E-01
7/28/2009	**30**	**2,350**	MW-206I/SB-4D	1.00	22,500	85,172	2.56E-03	2.00E-01
8/4/2009	**27.5**	**1,650**	MW-206I/SB-4D	0.83	14,800	56,024	1.54E-03	9.24E-02
8/11/2009	**29.5**	**1,450**	MW-206I/SB-4D	0.80	10,000	37,854	1.12E-03	5.49E-02
8/17/2009	**29**	**1,550**	MW-206I/SB-4D	0.78	11,000	41,640	1.21E-03	6.45E-02
8/25/2009	**25**	**1,500**	MW-206I/SB-4D	0.78	10,500	39,747	9.94E-04	5.96E-02
9/1/2009	**25**	**1,300**	MW-206I	0.44	8,000	30,283	7.57E-04	3.94E-02
TOTAL ESTIMATED MASS REMOVED DURING CURRENT OPERATING SEASON:							**kg**	**lbs**
Benzene							**0.021**	**0.05**
Tetrahydrofuran							**1.260**	**2.78**

NOTES:
1. ug/L = micrograms per liter.
2. kg = kilograms.
3. lbs = pounds.
4. "Gallons Pumped" estimated based upon recorded water transfer volume; reported quantity includes transfer volumes following previous sample date up to and including current sample date.



LEGEND

PI	PRESSURE INDICATOR
	BALL VALVE
S	SOLENOID
	UNION
LSHH	LEVEL SWITCH HIGH HIGH

CLIENT: DOVER GROUP			
PROJECT: DOVER LANDFILL SUPERFUND SITE DOVER, NEW HAMPSHIRE			
TITLE: GROUND WATER EXTRACTION SYSTEM PROCESS AND INSTRUMENTATION DIAGRAM			
DESIGNED: KEZ	DRAWN: NMT	CHECKED: CAB	APPROVED: KDT
SCALE: NTS	DATE: 07/07/09	FILE NO.: 2009D226	PROJECT NO.: 2009-009

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FIGURE NO.: 1

PLOT DATE: 10-9-09
FILE: F:\Projects\Active Projects\2009-Dover Landfill\FIGURES-DOVER\20090226.dwg

FIGURE 2
TRANSDUCER DATA WATER ELEVATION - DECEMBER 2, 2008 - SEPTEMBER 1, 2009
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

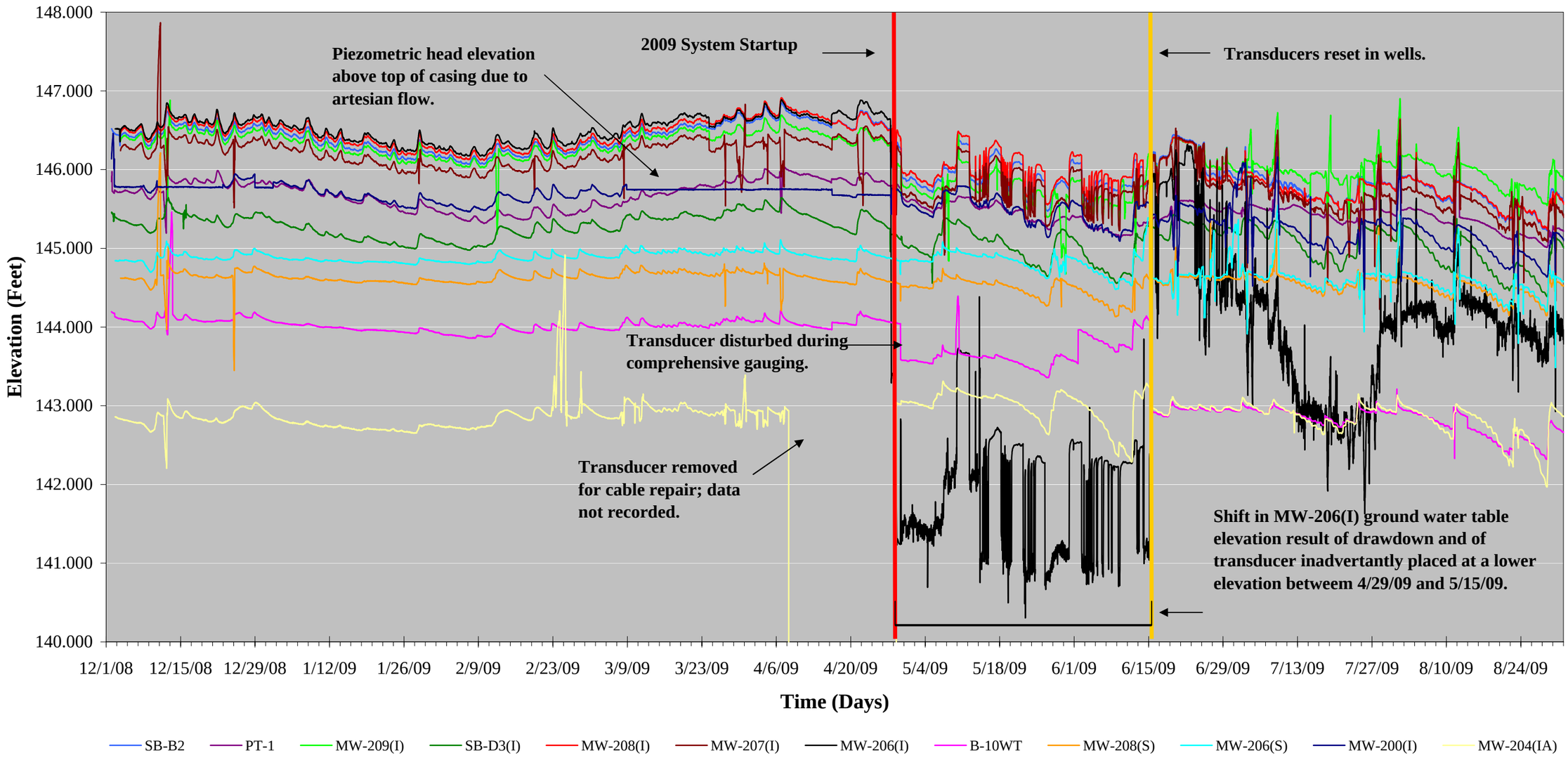


FIGURE 3A
CONCENTRATION VERSUS TIME - MW-206I - 2008
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

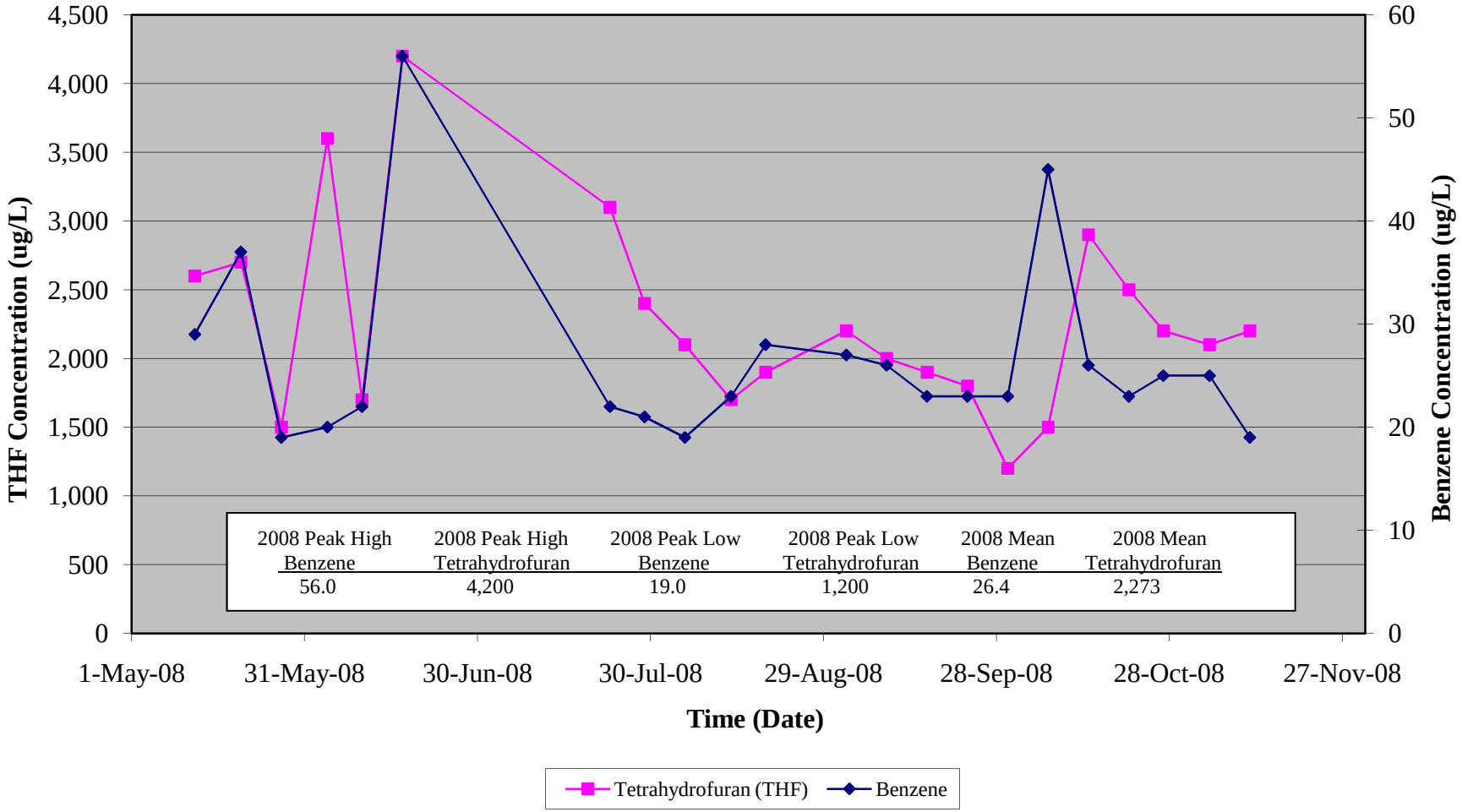


FIGURE 3B
CONCENTRATION VERSUS TIME - MW-206I - 2009
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

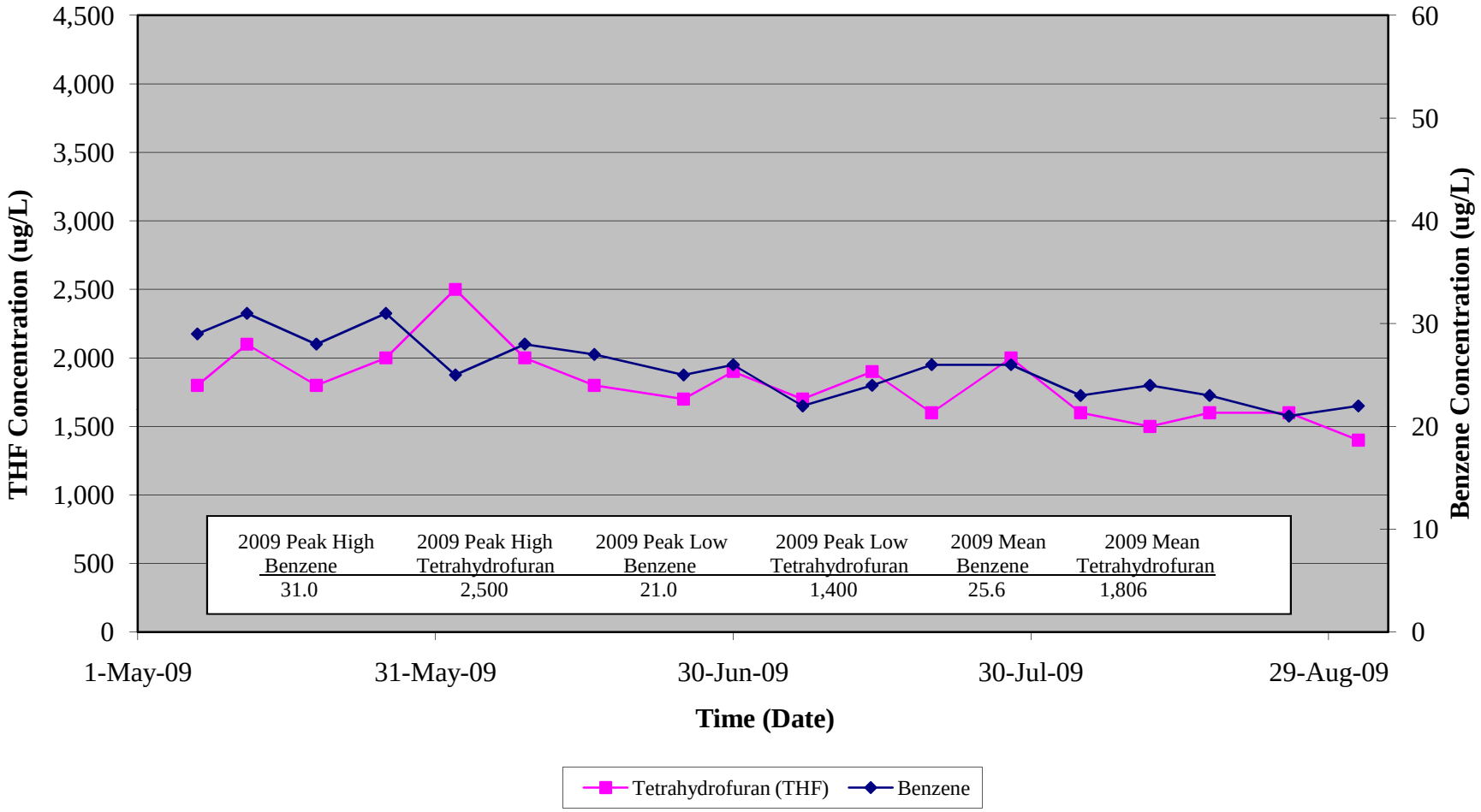


FIGURE 4A
CONCENTRATION VERSUS TIME - SB-4D - 2008
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

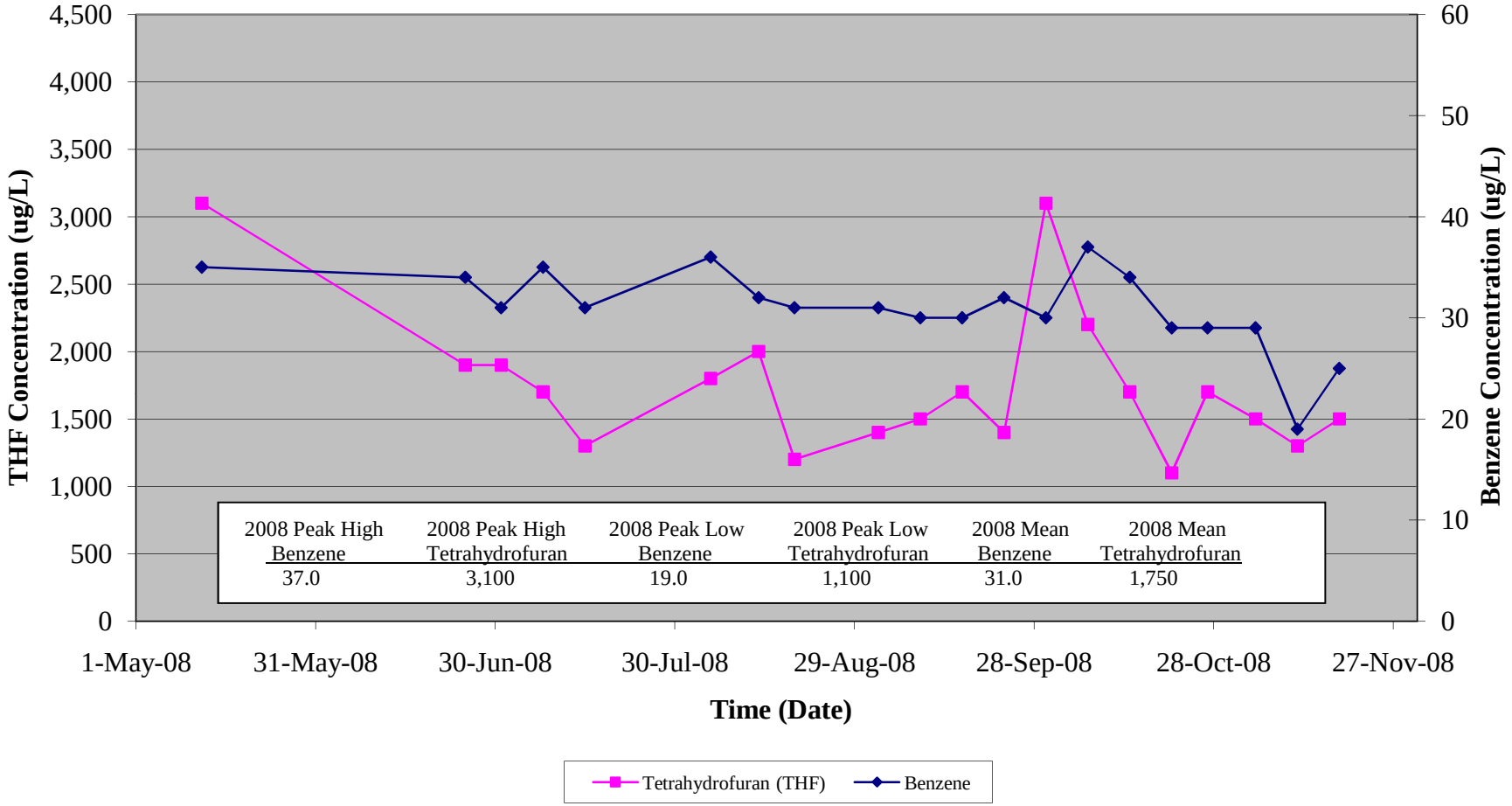
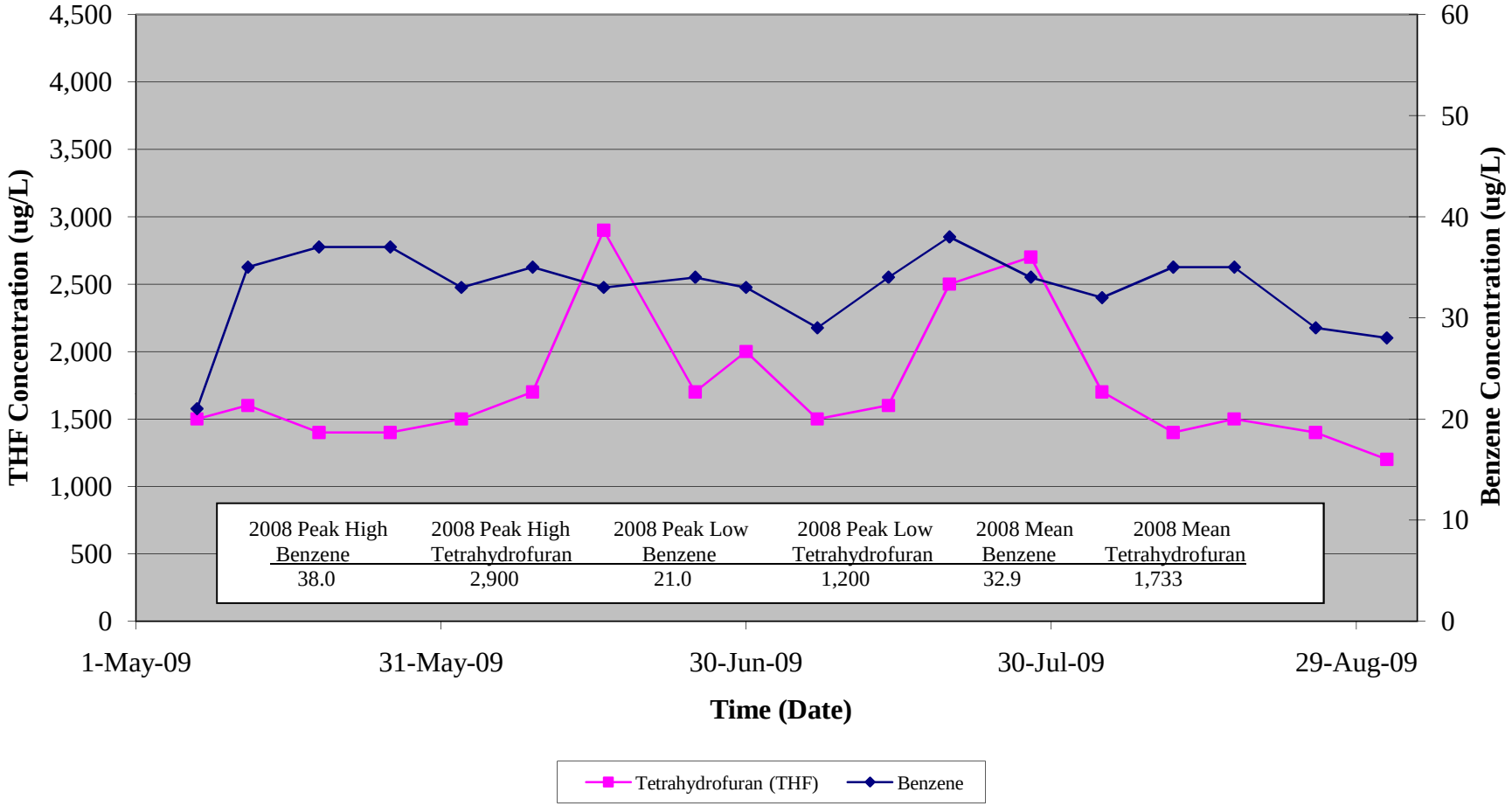
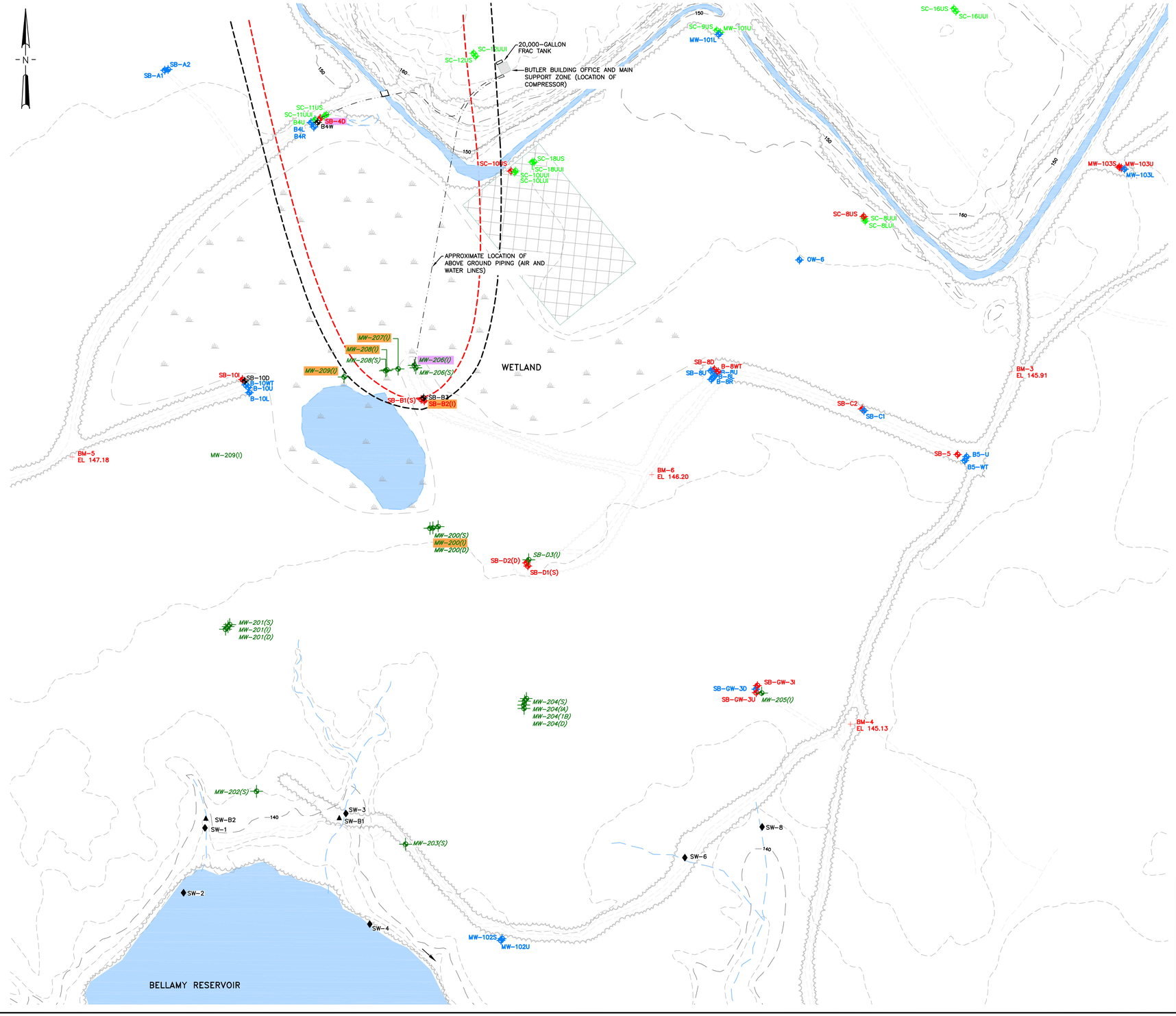


FIGURE 4B
CONCENTRATION VERSUS TIME - SB-4D - 2009
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE





LEGEND

SC-7US	EMP WELL SAMPLING LOCATION AND DESIGNATION
SC-7UUI	ADDITIONAL WELL SAMPLING LOCATION AND DESIGNATION (DECEMBER 1995 TO PRESENT)
MW-17US	WELL LOCATIONS WHERE EMP WATER LEVELS ARE OBTAINED (IE, EMP SAMPLING IS NOT PERFORMED)
OW-2	WELL LOCATIONS WHERE WATER LEVELS ARE NOT OBTAINED AND SAMPLING IS NOT PERFORMED
SW-A	EMP SURFACE WATER SAMPLING LOCATION
SC-30	SENTINEL WELL SAMPLING LOCATION AND DESIGNATION
SW-3	SURFACE WATER GAUGING STATION
MW-201	SOIL BORING/MONITORING WELL (GEOINSIGHT 2007 AND 2008)
150	EXISTING TOPOGRAPHIC CONTOUR
	PAVED ROAD
	UNPAVED ROAD OR DRIVE
MW-200(I)	SELECTED AS PERFORMANCE MONITORING LOCATIONS
MW-206(I)	LOCATION OF SOUTHERN PLUME GROUND WATER EXTRACTION WELLS
	THEORETICAL CAPTURE ZONE (2008)
	THEORETICAL CAPTURE ZONE (2009)

NOTES:

1. EXISTING CONDITIONS TAKEN FROM TOPOGRAPHIC WORKSHEET OF THE DOVER (NH) LANDFILL FOR GOLDER ASSOCIATES INC., MANCHESTER NH, BY EASTERN TOPOGRAPHICS, WOLFBORO, NH. ORIGINAL SCALE 1"=50', CONTOUR INTERVAL 2', PHOTO DATE: 13 APRIL 92.

2. MONITORING WELL LOCATIONS UPDATED IN NOVEMBER 2007, BASED UPON COMPREHENSIVE SITE SURVEY PERFORMED BY VERMONT SURVEY AND ENGINEERING, INC. OF MONTPELIER, VERMONT.

0 100 200
APPROX. SCALE IN FEET

CLIENT: DOVER GROUP				GeoInsight Practical in Nature
PROJECT: DOVER LANDFILL SUPERFUND SITE DOVER, NEW HAMPSHIRE				
TITLE: THEORETICAL CAPTURE ZONES				
DESIGNED: KEZ	DRAWN: NMT	CHECKED: CAB	APPROVED: MJW	
SCALE: 1" = 100'	DATE: 09-15-09	FILE NO.: 2009D264	PROJECT NO.: 2009-009	FIGURE NO.: 5

PLOT DATE: 10-5-09
FILE: P:\Projects\Active Projects\2009-Dover Landfill\FIGURES-DOVER\20094264.dwg

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

1. GWE system control panel (top right), main electrical control panel (bottom center).

2. 80-gallon reciprocating air compressor inside Butler Building.

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

3. Air line manifold, air filter/regulators, and compressor auto drain.

4. View of manifold, including; totalizers, influent sample ports, and manual flow ports.

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

5. Siphon relief valves located at top of fractionation tank.

6. Pumping well MW-206(I).

7. Pumping well SB-4D.

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WELL COMPLETION LOG

Project: Dover Municipal Landfill
Southern Plume Management of Migration

Location: Dover, New Hampshire

Boring No.: NA Well ID: MW-206S
Sheet: 1 Of: 1
Project Number: 2009-009
Chkd By: KEZ/CAB

Drilling Co.: GeoSearch, Inc.
Foreman: Brad Brock
GeoInsight Eng./Geol: RSE

Boring Location: . Adjacent to MW-206I
Ground Surface Elevation (feet): NS Well: NS Datum: NA
Date Started: 11/20/08 Date Completed: 11/20/08

DRILLING METHOD	SAMPLER
Vehicle: CME	Type: NA
Model: 850	Hammer(lb): 360
Method: Hollow Stem Auger	Fall (in): NA

GROUND WATER READINGS

DATE	DEPTH	REFERENCE	STABILIZATION

DEPTH (ft)	SAMPLE NO.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	WELL COMPLETION DETAIL	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	FIELD SCREENING (ppm)	NOTE
0						Samples were not collected.			
5							Upper Sand		
10									
15						End of boring at 13 feet BGS. Refusal not encountered.			

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/ft.	DENSITY	BLOWS/ft.	CONSISTENCY
0-4	V. LOOSE	<2	V. SOFT
4-10	LOOSE	2-4	SOFT
10-30	M. DENSE	4-8	M. STIFF
30-50	DENSE	8-15	STIFF
>50	V. DENSE	15-30	V. STIFF
		>30	HARD

WELL CONSTRUCTION		INTERVAL	LEGEND
MATERIAL	TYPE	FEET BGS	
Concrete		0-0.5	
Backfill			
Grout			
Bentonite (Chips)		0.5-2	
Sandpack (No. 1 Sand)		2-13	
Riser		0-3	
Screen (0.01-inch Slot Screen)		3-13	

NOTES:

1. 2-inch diameter PVC monitoring well installed with 3 feet of PVC riser above ground, expansion plug, and standpipe with protective cover set with concrete.
2. PPM = Parts per million.
3. NS = Not surveyed.
4. NA = Not applicable.
5. BGS = Below ground surface.

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WELL COMPLETION LOG

Project: Dover Municipal Landfil
Southern Plume Management of Migration

Location: Dover, New Hampshire

Boring No.: NA Well ID: MW-207I
Sheet: 1 Of: 3
Project Number: 2009-009
Chkd By: KEZ/CAB

Drilling Co.: GeoSearch, Inc.
Foreman: Brad Brock
GeoInsight Eng./Geol: RSE

Boring Location: . Approximately 25 feet west of MW-206I
Ground Surface Elevation (feet): NS Well: NS Datum: NA
Date Started: 11/18/08 Date Completed: 11/18/08

DRILLING METHOD	SAMPLER
Vehicle: CME	Type: NA
Model: 850	Hammer(lb): NA
Method: Drive and Wash	Fall (in): NA

GROUND WATER READINGS

DATE	DEPTH	REFERENCE	STABILIZATION

DEPTH (ft)	SAMPLE NO.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	WELL COMPLETION DETAIL	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	FIELD SCREENING (ppm)	NOTE
0						Samples were not collected.			
5							Upper Sand		
10									
15							Upper Upper Interbedded		

GRANULAR SOILS		COHESIVE SOILS		WELL CONSTRUCTION		INTERVAL	LEGEND
BLOWS/ft.	DENSITY	BLOWS/ft.	CONSISTENCY	MATERIAL	TYPE	FEET BGS	
0-4	V. LOOSE	<2	V. SOFT	Concrete		0-0.5	
4-10	LOOSE	2-4	SOFT	Backfill			
10-30	M. DENSE	4-8	M. STIFF	Grout		0.5-30.5	
30-50	DENSE	8-15	STIFF	Bentonite (Chips)		30.5-33	
>50	V. DENSE	15-30	V. STIFF	Sandpack (No. 1 Sand)		33-45	
		>30	HARD	Riser		0-35	
				Screen (0.01-inch Slot Screen)		35-45	

NOTES:

1. 2-inch diameter PVC monitoring well installed with 3 feet of PVC riser above ground, expansion plug, and standpipe with protective cover set with concrete.
2. PPM = Parts per million.
3. NS = Not surveyed.
4. NA = Not applicable.
5. BGS = Below ground surface.

GeoInsight
Practical in Nature

WELL COMPLETION LOG

Project: Dover Municipal Landfil
Southern Plume Management of Migration

Location: Dover, New Hampshire

Boring No.: NA Well ID: MW-207I
Sheet: 2 Of: 3
Project Number: 2009-009
Chkd By: KEZ/CAB

Drilling Co.: GeoSearch, Inc.
Foreman: Brad Brock
GeoInsight Eng./Geol: RSE

Boring Location: . Approximately 25 feet west of MW-206I
Ground Surface Elevation (feet): NS Well: NS Datum: NA
Date Started: 11/18/08 Date Completed: 11/18/08

DRILLING METHOD	SAMPLER
Vehicle: CME	Type: NA
Model: 850	Hammer(lb): NA
Method: Drive and Wash	Fall (in): NA

GROUND WATER READINGS

DATE	DEPTH	REFERENCE	STABILIZATION

DEPTH (ft)	SAMPLE NO.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	WELL COMPLETION DETAIL	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	FIELD SCREENING (ppm)	NOTE
20						Samples were not collected.			
25									
30							Upper Upper Interbedded		
35									

GRANULAR SOILS		COHESIVE SOILS		WELL CONSTRUCTION		INTERVAL	LEGEND
BLOWS/ft.	DENSITY	BLOWS/ft.	CONSISTENCY	MATERIAL	TYPE	FEET BGS	
0-4	V. LOOSE	<2	V. SOFT	Concrete		0-0.5	
4-10	LOOSE	2-4	SOFT	Backfill			
10-30	M. DENSE	4-8	M. STIFF	Grout		0.5-30.5	
30-50	DENSE	8-15	STIFF	Bentonite (Chips)		30.5-33	
>50	V. DENSE	15-30	V. STIFF	Sandpack (No. 1 Sand)		33-45	
		>30	HARD	Riser		0-35	
				Screen (0.01-inch Slot Screen, pre-packed)		35-45	

NOTES:

1. 2-inch diameter PVC monitoring well installed with 3 feet of PVC riser above ground, expansion plug, and standpipe with protective cover set with concrete.
2. PPM = Parts per million.
3. NS = Not surveyed.
4. NA = Not applicable.
5. BGS = Below ground surface.

GeoInsight
Practical in Nature

WELL COMPLETION LOG

Project: Dover Municipal Landfil
Southern Plume Management of Migration

Location: Dover, New Hampshire

Boring No.: NA Well ID: MW-207I
Sheet: 3 Of: 3
Project Number: 2009-009
Chkd By: KEZ/CAB

Drilling Co.: GeoSearch, Inc.
Foreman: Brad Brock
GeoInsight Eng./Geol: RSE

Boring Location: . Approximately 25 feet west of MW-206I
Ground Surface Elevation (feet): NS Well: NS Datum: NA
Date Started: 11/18/08 Date Completed: 11/18/08

DRILLING METHOD	SAMPLER
Vehicle: CME	Type: NA
Model: 850	Hammer(lb): NA
Method: Drive and Wash	Fall (in): NA

GROUND WATER READINGS

DATE	DEPTH	REFERENCE	STABILIZATION

DEPTH (ft)	SAMPLE NO.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	WELL COMPLETION DETAIL	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	FIELD SCREENING (ppm)	NOTE
40						Samples were not collected.	Upper Upper Interbedded		
45						End of boring at 45 feet BGS. Refusal not encountered.			
50									
55									

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/ft.	DENSITY	BLOWS/ft.	CONSISTENCY
0-4	V. LOOSE	<2	V. SOFT
4-10	LOOSE	2-4	SOFT
10-30	M. DENSE	4-8	M. STIFF
30-50	DENSE	8-15	STIFF
>50	V. DENSE	15-30	V. STIFF
		>30	HARD

WELL CONSTRUCTION MATERIAL TYPE	INTERVAL FEET BGS	LEGEND
Concrete	0-0.5	
Backfill		
Grout	0.5-30.5	
Bentonite (Chips)	30.5-33	
Sandpack (No. 1 Sand)	33-45	
Riser	0-35	
Screen (0.01-inch Slot Screen, pre-packed)	35-45	

NOTES:

1. 2-inch diameter PVC monitoring well installed with 3 feet of PVC riser above ground, expansion plug, and standpipe with protective cover set with concrete.
2. PPM = Parts per million.
3. NS = Not surveyed.
4. NA = Not applicable.
5. BGS = Below ground surface.

GeoInsight
Practical in Nature

WELL COMPLETION LOG

Project: Dover Municipal Landfill
Southern Plume Management of Migration

Location: Dover, New Hampshire

Boring No.: NA Well ID: MW-208S
Sheet: 1 Of: 1
Project Number: 2009-009
Chkd By: KEZ/CAB

Drilling Co.: GeoSearch, Inc.
Foreman: Brad Brock
GeoInsight Eng./Geol: RSE

Boring Location: . Approximately 50 feet west of MW-206I
Ground Surface Elevation (feet): NS Well: NS Datum: NA
Date Started: 11/19/08 Date Completed: 11/19/08

DRILLING METHOD	SAMPLER
Vehicle: CME	Type: NA
Model: 850	Hammer(lb): NA
Method: Drive and Wash	Fall (in): NA

GROUND WATER READINGS

DATE	DEPTH	REFERENCE	STABILIZATION

DEPTH (ft)	SAMPLE NO.	SAMPLE PEN/REC (in)	SAMPLE DEPTH (ft)	BLOWS/6"	WELL COMPLETION DETAIL	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	FIELD SCREENING (ppm)	NOTE
0						Samples were not collected.			
5							Upper Sand		
10									
						End of boring at 12 feet BGS. Refusal not encountered.			
15									

GRANULAR SOILS		COHESIVE SOILS		WELL CONSTRUCTION		INTERVAL	LEGEND
BLOWS/ft.	DENSITY	BLOWS/ft.	CONSISTENCY	MATERIAL	TYPE	FEET BGS	
0-4	V. LOOSE	<2	V. SOFT	Concrete		0-0.5	
4-10	LOOSE	2-4	SOFT	Backfill			
10-30	M. DENSE	4-8	M. STIFF	Grout			
30-50	DENSE	8-15	STIFF	Bentonite (Chips)		0.5-1.5	
>50	V. DENSE	15-30	V. STIFF	Sandpack (No. 1 Sand)		1.5-12	
		>30	HARD	Riser		0-2	
				Screen (0.01-inch Slot Screen)		2-12	

NOTES:

1. 2-inch diameter PVC monitoring well installed with 3 feet of PVC riser above ground, expansion plug, and standpipe with protective cover set with concrete.
2. PPM = Parts per million.
3. NS = Not surveyed.
4. NA = Not applicable.
5. BGS = Below ground surface.

GeoInsight
Practical in Nature

WELL COMPLETION LOG

Project: Dover Municipal Landfil
Southern Plume Management of Migration

Location: Dover, New Hampshire

Boring No.: NA Well ID: MW-208I
Sheet: 1 Of: 3
Project Number: 2009-009
Chkd By: KEZ/CAB

Drilling Co.: GeoSearch, Inc.
Foreman: Brad Brock
GeoInsight Eng./Geol: RSE

Boring Location: . Approximately 50 feet west of MW-206I
Ground Surface Elevation (feet): NS Well: NS Datum: NA
Date Started: 11/19/08 Date Completed: 11/19/08

DRILLING METHOD	SAMPLER
Vehicle: CME	Type: NA
Model: 850	Hammer(lb): NA
Method: Drive and Wash	Fall (in): NA

GROUND WATER READINGS

DATE	DEPTH	REFERENCE	STABILIZATION

DEPTH (ft)	SAMPLE NO.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	WELL COMPLETION DETAIL	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	FIELD SCREENING (ppm)	NOTE
0						Samples were not collected.			
5							Upper Sand		
10									
15							Upper Upper Interbedded		

GRANULAR SOILS		COHESIVE SOILS		WELL CONSTRUCTION		INTERVAL	LEGEND
BLOWS/ft.	DENSITY	BLOWS/ft.	CONSISTENCY	MATERIAL	TYPE	FEET BGS	
0-4	V. LOOSE	<2	V. SOFT	Concrete		0-0.5	
4-10	LOOSE	2-4	SOFT	Backfill			
10-30	M. DENSE	4-8	M. STIFF	Grout		0.5-31	
30-50	DENSE	8-15	STIFF	Bentonite (Chips)		31-33	
>50	V. DENSE	15-30	V. STIFF	Sandpack (No. 1 Sand)		33-45	
		>30	HARD	Riser		0-35	
				Screen (0.01-inch Slot Screen)		35-45	

NOTES:

1. 2-inch diameter PVC monitoring well installed with 3 feet of PVC riser above ground, expansion plug, and standpipe with protective cover set with concrete.
2. PPM = Parts per million.
3. NS = Not surveyed.
4. NA = Not applicable.
5. BGS = Below ground surface.

GeoInsight
Practical in Nature

WELL COMPLETION LOG

Project: Dover Municipal Landfil
Southern Plume Management of Migration

Location: Dover, New Hampshire

Boring No.: NA Well ID: MW-208I
Sheet: 2 Of: 3
Project Number: 2009-009
Chkd By: KEZ/CAB

Drilling Co.: GeoSearch, Inc.
Foreman: Brad Brock
GeoInsight Eng./Geol: RSE

Boring Location: . Approximately 50 feet west of MW-206I
Ground Surface Elevation (feet): NS Well: NS Datum: NA
Date Started: 11/19/08 Date Completed: 11/19/08

DRILLING METHOD	SAMPLER
Vehicle: CME	Type: NA
Model: 850	Hammer(lb): NA
Method: Drive and Wash	Fall (in): NA

GROUND WATER READINGS

DATE	DEPTH	REFERENCE	STABILIZATION

DEPTH (ft)	SAMPLE NO.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	WELL COMPLETION DETAIL	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	FIELD SCREENING (ppm)	NOTE
20						Samples were not collected.			
25									
30							Upper Upper Interbedded		
35									

GRANULAR SOILS		COHESIVE SOILS		WELL CONSTRUCTION		INTERVAL	LEGEND
BLOWS/ft.	DENSITY	BLOWS/ft.	CONSISTENCY	MATERIAL	TYPE	FEET BGS	
0-4	V. LOOSE	<2	V. SOFT	Concrete		0-0.5	
4-10	LOOSE	2-4	SOFT	Backfill			
10-30	M. DENSE	4-8	M. STIFF	Grout		0.5-31	
30-50	DENSE	8-15	STIFF	Bentonite (Chips)		31-33	
>50	V. DENSE	15-30	V. STIFF	Sandpack (No. 1 Sand)		33-45	
		>30	HARD	Riser		0-35	
				Screen (0.01-inch Slot Screen, pre-packed)		35-45	

NOTES:

1. 2-inch diameter PVC monitoring well installed with 3 feet of PVC riser above ground, expansion plug, and standpipe with protective cover set with concrete.
2. PPM = Parts per million.
3. NS = Not surveyed.
4. NA = Not applicable.
5. BGS = Below ground surface.

GeoInsight
Practical in Nature

WELL COMPLETION LOG

Project: Dover Municipal Landfill
Southern Plume Management of Migration

Location: Dover, New Hampshire

Boring No.: NA Well ID: MW-208I
Sheet: 3 Of: 3
Project Number: 2009-009
Chkd By: KEZ/CAB

Drilling Co.: GeoSearch, Inc.
Foreman: Brad Brock
GeoInsight Eng./Geol: RSE

Boring Location: . Approximately 50 feet west of MW-206I
Ground Surface Elevation (feet): NS Well: NS Datum: NA
Date Started: 11/19/08 Date Completed: 11/19/08

DRILLING METHOD	SAMPLER
Vehicle: CME	Type: NA
Model: 850	Hammer(lb): NA
Method: Drive and Wash	Fall (in): NA

GROUND WATER READINGS

DATE	DEPTH	REFERENCE	STABILIZATION

DEPTH (ft)	SAMPLE NO.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	WELL COMPLETION DETAIL	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	FIELD SCREENING (ppm)	NOTE
40						Samples were not collected.	Upper Upper Interbedded		
45						End of boring at 45 feet BGS. Refusal not encountered.			
50									
55									

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/ft.	DENSITY	BLOWS/ft.	CONSISTENCY
0-4	V. LOOSE	<2	V. SOFT
4-10	LOOSE	2-4	SOFT
10-30	M. DENSE	4-8	M. STIFF
30-50	DENSE	8-15	STIFF
>50	V. DENSE	15-30	V. STIFF
		>30	HARD

WELL CONSTRUCTION MATERIAL TYPE	INTERVAL FEET BGS
Concrete	0-0.5
Backfill	
Grout	0.5-31
Bentonite (Chips)	31-33
Sandpack (No. 1 Sand)	33-45
Riser	0-35
Screen (0.01-inch Slot Screen, pre-packed)	35-45

LEGEND

NOTES:

1. 2-inch diameter PVC monitoring well installed with 3 feet of PVC riser above ground, expansion plug, and standpipe with protective cover set with concrete.
2. PPM = Parts per million.
3. NS = Not surveyed.
4. NA = Not applicable.
5. BGS = Below ground surface.

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WELL COMPLETION LOG

Project: Dover Municipal Landfill
Southern Plume Management of Migration

Location: Dover, New Hampshire

Boring No.: NA Well ID: MW-209I
Sheet: 1 Of: 3
Project Number: 2009-009
Chkd By: KEZ/CAB

Drilling Co.: GeoSearch, Inc.
Foreman: Brad Brock
GeoInsight Eng./Geol: RSE

Boring Location: . Approximately 150 feet west of MW-206I
Ground Surface Elevation (feet): NS Well: NS Datum: NA
Date Started: 11/19/08 Date Completed: 11/20/08

DRILLING METHOD	SAMPLER
Vehicle: CME	Type: NA
Model: 850	Hammer(lb): NA
Method: Drive and Wash	Fall (in): NA

GROUND WATER READINGS

DATE	DEPTH	REFERENCE	STABILIZATION

DEPTH (ft)	SAMPLE NO.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	WELL COMPLETION DETAIL	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	FIELD SCREENING (ppm)	NOTE
0						Samples were not collected.			
5							Upper Sand		
10									
15							Upper Upper Interbedded		

GRANULAR SOILS		COHESIVE SOILS		WELL CONSTRUCTION		INTERVAL	LEGEND
BLOWS/ft.	DENSITY	BLOWS/ft.	CONSISTENCY	MATERIAL	TYPE	FEET BGS	
0-4	V. LOOSE	<2	V. SOFT	Concrete		0-0.5	
4-10	LOOSE	2-4	SOFT	Backfill			
10-30	M. DENSE	4-8	M. STIFF	Grout		0.5-31	
30-50	DENSE	8-15	STIFF	Bentonite (Chips)		31-33	
>50	V. DENSE	15-30	V. STIFF	Sandpack (No. 1 Sand)		33-50	
		>30	HARD	Riser		0-35, 45-50	
				Screen (0.01-inch Slot Screen)		35-45	

NOTES:

1. 4-inch diameter PVC monitoring well installed with 3 feet of PVC riser above ground, expansion plug, and standpipe with protective cover set with concrete.
2. PPM = Parts per million.
3. NS = Not surveyed.
4. NA = Not applicable.
5. BGS = Below ground surface.
6. Sump installed below screen interval; constructed of PVC riser at 45-50 feet BGS.

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WELL COMPLETION LOG

Project: Dover Municipal Landfill
Southern Plume Management of Migration

Location: Dover, New Hampshire

Boring No.: NA Well ID: MW-209I
Sheet: 2 Of: 3
Project Number: 2009-009
Chkd By: KEZ/CAB

Drilling Co.: GeoSearch, Inc.
Foreman: Brad Brock
GeoInsight Eng./Geol: RSE

Boring Location: . Approximately 150 feet west of MW-206I
Ground Surface Elevation (feet): NS Well: NS Datum: NA
Date Started: 11/19/08 Date Completed: 11/20/08

DRILLING METHOD	SAMPLER
Vehicle: CME	Type: NA
Model: 850	Hammer(lb): NA
Method: Drive and Wash	Fall (in): NA

GROUND WATER READINGS

DATE	DEPTH	REFERENCE	STABILIZATION

DEPTH (ft)	SAMPLE NO.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	WELL COMPLETION DETAIL	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	FIELD SCREENING (ppm)	NOTE
20						Samples were not collected.			
25									
30							Upper Upper Interbedded		
35									

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/ft.	DENSITY	BLOWS/ft.	CONSISTENCY
0-4	V. LOOSE	<2	V. SOFT
4-10	LOOSE	2-4	SOFT
10-30	M. DENSE	4-8	M. STIFF
30-50	DENSE	8-15	STIFF
>50	V. DENSE	15-30	V. STIFF
		>30	HARD

WELL CONSTRUCTION		INTERVAL
MATERIAL	TYPE	FEET BGS
Concrete		0-0.5
Backfill		
Grout		0.5-31
Bentonite (Chips)		31-33
Sandpack (No. 1 Sand)		33-50
Riser		0-35, 45-50
Screen (0.01-inch Slot Screen, pre-packed)		35-45

LEGEND

NOTES:

1. 4-inch diameter PVC monitoring well installed with 3 feet of PVC riser above ground, expansion plug, and standpipe with protective cover set with concrete.
2. PPM = Parts per million.
3. NS = Not surveyed.
4. NA = Not applicable.
5. BGS = Below ground surface.
6. Sump installed below screen interval; constructed of PVC riser at 45-50 feet BGS.

GeoInsight
Practical by Nature

WELL COMPLETION LOG

Project: Dover Municipal Landfill
Southern Plume Management of Migration

Location: Dover, New Hampshire

Boring No.: NA Well ID: MW-209I
Sheet: 3 Of: 3
Project Number: 2009-009
Chkd By: KEZ/CAB

Drilling Co.: GeoSearch, Inc.
Foreman: Brad Brock
GeoInsight Eng./Geol: RSE

Boring Location: . Approximately 150 feet west of MW-206I
Ground Surface Elevation (feet): NS Well: NS Datum: NA
Date Started: 11/19/08 Date Completed: 11/20/08

DRILLING METHOD	SAMPLER
Vehicle: CME	Type: NA
Model: 850	Hammer(lb): NA
Method: Drive and Wash	Fall (in): NA

GROUND WATER READINGS

DATE	DEPTH	REFERENCE	STABILIZATION

DEPTH (ft)	SAMPLE NO.	PEN/REC (in)	DEPTH (ft)	BLOWS/6"	WELL COMPLETION DETAIL	SAMPLE DESCRIPTION	STRATUM DESCRIPTION	FIELD SCREENING (ppm)	NOTE
40						Samples were not collected.			
45							Upper Upper Interbedded		
50						End of boring at 50 feet BGS. Refusal not encountered.			
55									

GRANULAR SOILS		COHESIVE SOILS	
BLOWS/ft.	DENSITY	BLOWS/ft.	CONSISTENCY
0-4	V. LOOSE	<2	V. SOFT
4-10	LOOSE	2-4	SOFT
10-30	M. DENSE	4-8	M. STIFF
30-50	DENSE	8-15	STIFF
>50	V. DENSE	15-30	V. STIFF
		>30	HARD

WELL CONSTRUCTION		INTERVAL	LEGEND
MATERIAL	TYPE	FEET BGS	
Concrete		0-0.5	
Backfill			
Grout		0.5-31	
Bentonite (Chips)		31-33	
Sandpack (No. 1 Sand)		33-50	
Riser		0-35, 45-50	
Screen (0.01-inch Slot Screen, pre-packed)		35-45	

NOTES:

1. 4-inch diameter PVC monitoring well installed with 3 feet of PVC riser above ground, expansion plug, and standpipe with protective cover set with concrete.
2. PPM = Parts per million.
3. NS = Not surveyed.
4. NA = Not applicable.
5. BGS = Below ground surface.
6. Sump installed below screen interval; constructed of PVC riser at 45-50 feet BGS.

SUMMARY OF HISTORICAL GROUND WATER QUALITY DATA
WELL SB-B1

Well SB-B1
[5-15 feet BGS]

DOWNGRADIENT WELL
SCREENED INTERVAL - 5 - 15 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
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**
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
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
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)**
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
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
1,2-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)**
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)**
acetone	700	---	<5	<5	**5(R)**	**2(J)**	**12**	<5	<5	<5	<5	<5	**8**	<5	<5	**7**	<5	<5	<5	<5	**13**	<5	<5	<10	<1	**4(J)**	<5	<5	<5	<5	<5	**3(JB)**	<5	<5	**2(J)**
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)**
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
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
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)**
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-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)**
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
1,2-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**
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
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
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
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
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
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
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
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
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
1,2-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
1,1,2-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
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
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
1,1,2,2-tetrachloroethane	---	<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
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
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)
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)
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	37,600	43,400	45,600	46,800	40,000	52,900	44,400	53,700	47,100	44,800	48,600	59,900
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
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	---
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	---
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
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
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
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
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
Temp (^{0}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
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

"*" 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 HISTORICAL GROUND WATER QUALITY DATA
WELL SB-B2

Well SB-B2
[34-44 feet BGS]

DOWNGRADIENT WELL
SCREENED INTERVAL - 34 - 44 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	Jul-09
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**
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**
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**
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**
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
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
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)**
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)**
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**
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**
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
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
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)**
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-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**
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
1,2-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)**
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
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
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
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
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
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
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
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**
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-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
1,1,2-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
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
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
1,1,2,2-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
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
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
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
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	5.93	6.18	5.98	5.99	6.08
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	4.978	3.924	3.867	4.24	4.11
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	---
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
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	-54.1	-30.2	19	-4
Temp (^{o}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
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	146.35	145.47

"*" denotes the ground water sample collected for well SB-B2 was incorrectly identified in the field and on the laboratory analytical report as SB-B1.

SUMMARY OF HISTORICAL GROUND WATER QUALITY DATA
WELL SB-B3

DOWNGRADIENT WELL
SCREENED INTERVAL - 47 - 57 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
benzene	5	**2**	**1**	**1**	**4.9**	**4**	**4**	**4**	**5**	**5**	**6**	**4**
ethylbenzene	---	**2**	**1**	**2**	**3.3**	**3**	**2**	**3**	**3**	**3**	**4**	**2**
toluene	1,000	**0.5**	**0.4**	**0.6**	<1	<1	<1	**0.7(J)**	<1	<1	<1	**0.6(J)**
xylene	---	**1.7**	**1**	**3**	**7.2**	**6**	**4**	**6**	**6**	**6**	**6**	**2(J)**
PCE	5	<0.4	<0.4	**0.6**	<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-DCE	70	<0.4	<0.4	**1**	<1	<1	<1	<1	<1	<1	<1	**0.3(J)**
vinyl chloride	2	**0.9**	<0.4	**1**	<1	<1	<1	<1	<1	<1	<1	<2
acetone	700	---	**15**	<5	<1	**7**	<5	<5	<5	**5**	**6**	**3(J)**
tetrahydrofuran	154	**74**	**360**	**94**	**83**	**82**	<5	**74**	**110**	**140**	**160**	**19**
2-butanone	200	---	<5	<5	<1	<5	<5	<5	<5	<5	<5	<5
4-methyl 2-pentanone	350	---	<5	<5	<1	<5	<5	<5	<5	<5	<5	<5
methylene chloride	5	<1	<1	<1	<1	<1	<2	<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-DCA	---	<0.3	<0.3	<0.3	<1	<1	<1	**0.5(J)**	<1	<1	<1	**0.5(J)**
1,1-DCE	7	<1.3	<0.4	<1.3	<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)**
bromomethane	---	<0.3	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<2
chloromethane	---	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<2
chloroform	---	<0.7	<0.7	<0.7	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	<0.3	<0.3	---	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	<0.3	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	---	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1
styrene	---	<0.4	<0.4	<0.4	<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
chlorobenzene	---	**0.2**	<0.2	**0.4**	<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
1,1,2-trichloroethane	---	<0.2	<0.2	<0.2	<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
trans-1,3-dichloropropene	---	<0.4	<0.4	<0.4	<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
2-hexanone	---	---	---	---	<1	<5	<5	<5	<5	<5	<5	<5
arsenic (dissolved)	10	---	39.5	---	40	42	43	42.8	39	43.9	46.2	51.9
arsenic (total)	---	---	---	---	41	46	40	42	38	41.9	48	55.1
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
SC (mS/cm)	---	---	---	---	---	1.176	0.933	0.946	1.269	1.304	0.00962	1.301
Turb (NTU)	---	---	---	---	---	1.33	1.88	0.64	1.56	0.39	0.98	55.4
DO (mg/l)	---	---	---	---	---	0.38	0.76	3.01	0.32	0.59	0.3	0.25
Eh (mv)	---	---	---	---	---	-99.9	6.8	-20.6	-108.7	-4.8	-188	-67
Temp (^{o}C)	---	---	---	---	---	7.67	9.79	14.28	9.87	11.57	10.15	10.17
Water Level Elevation	---	---	---	---	---	146.88	147.23	147.63	146.78	146.98	146.05	141.94

"*" 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 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
benzene	5	**2**	**4**
ethylbenzene	---	**0.6 (J)**	**0.7 (J)**
toluene	1,000	<1	**0.4 (J)**
xylenes (total)	---	<3	<3
PCE	5	<1	<1
TCE	5	<1	<1
cis-1,2-DCE	70	**0.7 (J)**	**0.7 (J)**
vinyl chloride	2	**0.8 (J)**	**1 (J)**
acetone	700	<5	**3 (J)**
tetrahydrofuran	154	<5	**2 (J)**
2-butanone	200	<5	<5
4-methyl 2-pentanone	350	<5	<5
methylene chloride	5	<5	**0.5 (JB)**
1,1,1-TCA	---	<1	<1
1,1-DCA	---	<1	**1**
1,1-DCE	7	<1	<1
1,2-DCA	5	<1	**0.9 (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	---	**0.4 (J)**	**0.4 (J)**
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	**24.3**	**22.7**
arsenic (total)	---	**24.3**	**23.1**
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
SC (mS/cm)	---	0.864	0.995
Turb (NTU)	---	56.8	73.2
DO (mg/l)	---	0.08	0.28
ORP (mv)	---	-17	-46
Temp (^{o}C)	---	9.65	11.66
Water Level Elevation	NA	143.80	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
benzene	5	**4**	**6**	**6**	**6**
ethylbenzene	---	**3**	**5**	**5**	**5**
toluene	1,000	**0.8 (J)**	**1**	**1**	**1**
xylenes (total)	---	**2 (J)**	**4**	**6**	**5**
PCE	5	<1	<1	<1	<1
TCE	5	<1	<1	<1	<1
cis-1,2-DCE	70	**0.5 (J)**	<1	**0.7 (J)**	**0.7 (J)**
vinyl chloride	2	**1 (J)**	**1**	**1 (J)**	**1 (J)**
acetone	700	<5	<5	**7**	**3 (J)**
tetrahydrofuran	154	**5**	**26**	**57**	**58**
2-butanone	200	<5	<5	**2 (J)**	**3 (J)**
4-methyl 2-pentanone	350	**7**	<5	<5	<5
methylene chloride	5	**0.7 (J)**	<5	**2 (JB)**	<5
1,1,1-TCA	---	<1	<1	<1	<1
1,1-DCA	---	<1	<1	**0.9 (J)**	**0.8 (J)**
1,1-DCE	7	<1	<1	<1	<1
1,2-DCA	5	**0.5 (J)**	<1	**0.6 (J)**	**0.6 (J)**
bromomethane	---	<2	<1	<2	<2
chloromethane	---	<2	<1	<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	<1	<2	<2
chlorobenzene	---	**0.4 (J)**	<1	**0.6 (J)**	**0.5 (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	**21.7**	**16.5**	**16.1**	**21.2**
arsenic (total)	---	**19.5**	**16.6**	**18.2**	**20.8**
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
SC (mS/cm)	---	0.841	0.945	1.151	1.139
Turb (NTU)	---	66.2	9.54	35.5	---
DO (mg/l)	---	0.06	0.2	0.13	0.21
ORP (mv)	---	-85	---	-70	-1
Temp (^{o}C)	---	10.42	9.27	10.75	11.73
Water Level Elevation	---	---	---	145.12	144.96

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
benzene	5	<1	<1
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	<1	<1
vinyl chloride	2	<2	<2
acetone	700	<5	<5
tetrahydrofuran	154	<5	<5
2-butanone	200	<5	<5
4-methyl 2-pentanone	350	<5	<5
methylene chloride	5	<5	**0.6(JB)**
1,1,1-TCA	---	<1	<1
1,1-DCA	---	<1	<1
1,1-DCE	7	<1	<1
1,2-DCA	5	<1	<1
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	**89.6**	**89.4**
arsenic (total)	---	**92.8**	**86.4**
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
SC (mS/cm)	---	0.169	0.170
Turb (NTU)	---	88	13.6
DO (mg/l)	---	0.14	0.06
ORP (mv)	---	-88	-109
Temp (^{o}C)	---	10.73	11.01
Water Level Elevation	NA	144.16	144.66

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 HISTORICAL GROUND WATER QUALITY DATA
WELL SB-10I

DOWNGRADIENT WELL
SCREENED INTERVAL - 30- 40 FEET BGS

constituent (ppb)	ICL	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
benzene	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)**
ethylbenzene	---	<1	<1	<1	**0.2(JB)**	**0.3(J)**	<10	<1	**1(J)**	**2**	**2**	**3**	**3**	**3**	**4**	**6**	**6**	**7**	**6**
toluene	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**
xylene	---	<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)**
PCE	5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TCE	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)**
1,2-DCE	70	**0.6(J)**	<1	<1	<1	<1	<10	**1**	**2**	**2**	**3**	**4**	**4**	**5**	**6**	**7**	**6**	**7**	**8**
vinyl chloride	2	<1	<1	<1	<1	<1	<10	<1	**0.7(J)**	<1	**1**	<1	**2**	**4**	**4**	**5**	**5**	**4**	**6**
acetone	700	<5	<5	<5	<5	<5	<10	<1	**2(J)**	<5	<5	<5	<5	**7**	<5	**4(J)**	**3(J)**	**3(J)**	**4(J)**
tetrahydrofuran	154	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	**2(J)**	**2(J)**	**8**	<5
2-butanone	200	<5	<5	**7**	<5	<5	<10	<1	<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
methylene chloride	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)**
1,1,1,-TCA	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	<1	<1	<1	**0.3(J)**	**0.6(J)**	<10	**1**	**1**	**1**	**2**	**2**	**2**	**3**	**4**	**4**	**4**	**5**	**6**
1,1-DCE	7	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	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**
bromomethane	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1
chloromethane	---	<1	**0.6(J)**	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1
chloroform	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
styrene	---	<1	<1	<1	<1	<1	<10	<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
chlorobenzene	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	<1	<1	<1	<1	<1	<10	<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
trans-1,3-dichloropropene	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	<1	<1	<1	<1	<1	<10	<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
arsenic (dissolved)	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	14.0	14.1	---
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	---
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	---
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	---
magnesium	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
manganese (dissolved)	---	540	318	305	290	282	277	305	322	352	339	418	443	542	565	642	649	653	---
manganese (total)	---	1,240	374	286	298	277	260	314	340	355	322	409	438	520	555	643	651	645	---
potassium	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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
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
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
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
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
Temp (^{o}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
Water Level Elevation	149.39	146.49	143.89	146.38	145.89	146.68	146.54	147.16	146.73	146.96	146.79	147.31	146.44	---	---	---	---	---	---

SUMMARY OF HISTORICAL GROUND WATER QUALITY DATA
WELL SB-D1(S)

Well SB-D1(S)
[5-15 feet BGS]

DOWNGRADIENT WELL
SCREENED INTERVAL - 5 - 15 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	Jun-05	Oct-05	Jun-06	Oct-06	Jun-07	Oct-07	Jun-08	Nov-08	Apr-09	May-09
benzene	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
ethylbenzene	---	<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
toluene	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
xylene	---	<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
PCE	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
TCE	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
1,2-DCE	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
vinyl chloride	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
acetone	700	---	**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)**
tetrahydrofuran	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
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
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
methylene chloride	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)**
1,1,1-TCA	---	<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-DCA	---	<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-DCE	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
1,2-DCA	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
bromomethane	---	<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
chloromethane	---	<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
chloroform	---	<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
dibromochloromethane	---	<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
bromoform	---	<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
carbon disulfide	---	---	<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
styrene	---	<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
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
chlorobenzene	---	<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
1,2-dichloropropane	---	<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
1,1,2-trichloroethane	---	<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
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
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
1,1,2,2-tetrachloroethane	---	<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
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
arsenic (dissolved)	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	---
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	---
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	---
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	1,340	2,060	1,760	1,770	4,280	---
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)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	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	---
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	---
potassium	---	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	4.63	4.46	4.84	4.87	4.83	4.85	4.69
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	0.060	0.041	0.063	0.036	0.034	0.300	0.040	0.047	0.044
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	1.90	0.34	0.27	0.00	1.19	0.63	1.25	41.8	0.47
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	0.36	1.16	0.22	0.29	1.16	0.24	0.44
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
Temp (^{o}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
Water Level Elevation	149.00	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

SUMMARY OF HISTORICAL GROUND WATER QUALITY DATA
WELL SB-D2(D)

Well SB-D2(D)
[50-60 feet BGS]

DOWNGRADIENT WELL
SCREENED INTERVAL - 50 - 60 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	Jun-05	Oct-05	Jun-06	Oct-06	Jun-07	Oct-07	Jun-08	Nov-08	Apr-09	May-09
benzene	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
ethylbenzene	---	<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
toluene	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
xylene	---	<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
PCE	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
TCE	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
1,2-DCE	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
vinyl chloride	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
acetone	700	---	<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)**
tetrahydrofuran	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
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
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
methylene chloride	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
1,1,1-TCA	---	<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-DCA	---	<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-DCE	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
1,2-DCA	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
bromomethane	---	<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
chloromethane	---	<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
chloroform	---	<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
dibromochloromethane	---	<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
bromoform	---	<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
carbon disulfide	---	---	<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
styrene	---	<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
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
chlorobenzene	---	<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
1,2-dichloropropane	---	<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
1,1,2-trichloroethane	---	<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
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
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
1,1,2,2-tetrachloroethane	---	<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
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
arsenic (dissolved)	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	---
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	---
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	---
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	---
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)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	417	---	448	446	393	440	410	340	397	413	417	405	429	385	264	410	244	415	249	---
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	---
potassium	---	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
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
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
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
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
Temp (^{o}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
Water Level Elevation	148.99	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

SUMMARY OF GROUND WATER ANALYTICAL DATA
SB-D3(I)
SCREENED INTERVAL - 35 45 FEET BGS

SOUTHERN PLUME PDI
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

constituent (ppb)	ICL	Nov-07	Apr-09	May-09
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	<1
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	<1
chloromethane	---	<2	<2	<1
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	<5
arsenic (dissolved)	10	**63.9**	**47.8**	**56**
arsenic (total)	---	**68.6**	**47.1**	**58**
calcium	---	---	---	---
iron (dissolved)	---	**2,690**	**3,570**	**298**
iron (total)	---	**3,290**	**3,690**	**2,990**
magnesium	---	---	---	---
manganese (dissolved)	---	**504**	---	**424**
manganese (total)	---	**498**	---	**430**
potassium	---	---	---	---
sodium	---	---	---	---
pH (SU)	---	9.09	6.94	7.03
SC (mS/cm)	---	0.128	0.118	0.122
Turb (NTU)	---	92.1	57.7	0.61
DO (mg/l)	---	0.15	0.29	0.41
ORP (mv)	---	-65	-83	-94.9
Temp (^{o}C)	---	9.88	12.49	8.29
Water Level Elevation	NA	144.78	145.08	---

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-204(IA)
SCREENED INTERVAL - 17 - 27 FEET BGS

SOUTHERN PLUME PDI
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

constituent (ppb)	ICL	Nov-07	Apr-09
benzene	5	**0.6 (J)**	**0.4(J)**
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	<1	<1
vinyl chloride	2	<2	<2
acetone	700	<5	<5
tetrahydrofuran	154	<5	<5
2-butanone	200	<5	<5
4-methyl 2-pentanone	350	<5	<5
methylene chloride	5	<5	**0.9(JB)**
1,1,1-TCA	---	<1	<1
1,1-DCA	---	<1	**0.3(J)**
1,1-DCE	7	<1	<1
1,2-DCA	5	<1	<1
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	**6.9 B**	<1.2
arsenic (total)	---	**7.6 B**	<1.2
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
SC (mS/cm)	---	0.380	0.315
Turb (NTU)	---	118	2.4
DO (mg/l)	---	0.15	0.31
ORP (mv)	---	-51	-23
Temp (^{o}C)	---	5.42	11.63
Water Level Elevation	NA	142.75	142.92

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
benzene	5	**1 (J)**
ethylbenzene	---	<1
toluene	1,000	<1
xylenes (total)	---	<3
PCE	5	<1
TCE	5	<1
cis-1,2-DCE	70	**0.7 (J)**
vinyl chloride	2	<2
acetone	700	**2.0 (J)**
tetrahydrofuran	154	<5
2-butanone	200	<5
4-methyl 2-pentanone	350	<5
methylene chloride	5	<5
1,1,1-TCA	---	<1
1,1-DCA	---	**0.6 (J)**
1,1-DCE	7	<1
1,2-DCA	5	**0.8 (J)**
bromomethane	---	<2
chloromethane	---	<2
chloroform	---	<1
dibromochloromethane	---	<1
bromoform	---	<1
carbon disulfide	---	<1
styrene	---	<1
chloroethane	14,000	<2
chlorobenzene	---	<1
1,2-dichloropropane	---	<1
1,1,2-trichloroethane	---	<1
cis-1,3-dichloropropene	---	<1
trans-1,3-dichloropropene	---	<1
1,1,2,2-tetrachloroethane	---	<1
2-hexanone	---	<5
arsenic (dissolved)	10	**3.2 (B)**
arsenic (total)	---	**3.3 (B)**
calcium	---	---
iron (dissolved)	---	**22,400**
iron (total)	---	**24,300**
magnesium	---	---
manganese (dissolved)	---	---
manganese (total)	---	---
potassium	---	---
sodium	---	---
pH (SU)	---	6.02
SC (mS/cm)	---	0.479
Turb (NTU)	---	123
DO (mg/l)	---	0.43
ORP (mv)	---	-54
Temp (^{o}C)	---	9.04
Water Level Elevation	NA	144.02

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-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
benzene	5	**21**	**20**
ethylbenzene	---	**7**	**6**
toluene	1,000	**3**	**2**
xylenes (total)	---	**13**	**11**
PCE	5	<1	<1
TCE	5	<1	<1
cis-1,2-DCE	70	**2**	**2**
vinyl chloride	2	<2	**0.4 (J)**
acetone	700	**17**	**10**
tetrahydrofuran	154	**1400**	**870**
2-butanone	200	**8**	<5
4-methyl 2-pentanone	350	<5	<5
methylene chloride	5	**2 (JB)**	**2 (JB)**
1,1,1-TCA	---	<1	<1
1,1-DCA	---	**3**	**3**
1,1-DCE	7	<1	<1
1,2-DCA	5	**0.8 (J)**	**0.9 (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	**5**	**5**
chlorobenzene	---	**1 (J)**	**0.8 (J)**
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	**17.8**	**20.8**
arsenic (total)	---	**17.5**	**21.0**
calcium	---	---	---
iron (dissolved)	---	**87,100**	---
iron (total)	---	**85,800**	---
magnesium	---	---	---
manganese (dissolved)	---	---	---
manganese (total)	---	---	---
potassium	---	---	---
sodium	---	---	---
pH (SU)	---	7.55	6.23
SC (mS/cm)	---	4.18	3.60
Turb (NTU)	---	24.0	---
DO (mg/l)	---	0.20	0.18
ORP (mv)	---	-19	37
Temp (^{o}C)	---	12.56	10.91
Water Level Elevation	NA	149.34	148.60

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
benzene	5	**0.3(J)**
ethylbenzene	---	<1
toluene	1,000	<1
xylenes (total)	---	<3
PCE	5	<1
TCE	5	<1
cis-1,2-DCE	70	**0.8(J)**
vinyl chloride	2	**0.3(J)**
acetone	700	<5
tetrahydrofuran	154	<5
2-butanone	200	<5
4-methyl 2-pentanone	350	<5
methylene chloride	5	<5
1,1,1-TCA	---	<1
1,1-DCA	---	**0.3(J)**
1,1-DCE	7	<1
1,2-DCA	5	**0.6(J)**
bromomethane	---	<2
chloromethane	---	<2
chloroform	---	<1
dibromochloromethane	---	<1
bromoform	---	<1
carbon disulfide	---	<1
styrene	---	<1
chloroethane	14,000	<2
chlorobenzene	---	<1
1,2-dichloropropane	---	<1
1,1,2-trichloroethane	---	<1
cis-1,3-dichloropropene	---	<1
trans-1,3-dichloropropene	---	<1
1,1,2,2-tetrachloroethane	---	<1
2-hexanone	---	<5
arsenic (dissolved)	10	**2.5 (B)**
arsenic (total)	---	**3.0 (B)**
calcium	---	---
iron (dissolved)	---	**33,200**
iron (total)	---	**34,700**
magnesium	---	---
manganese (dissolved)	---	---
manganese (total)	---	---
potassium	---	---
sodium	---	---
pH (SU)	---	5.84
SC (mS/cm)	---	0.448
Turb (NTU)	---	61.7
DO (mg/l)	---	0.15
ORP (mv)	---	-50
Temp (^{o}C)	---	9.78
Water Level Elevation	NA	144.74

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
benzene	5	**16**	**4**
ethylbenzene	---	**7**	**2**
toluene	1,000	**2**	**0.5 (J)**
xylenes (total)	---	**6**	<3
PCE	5	<1	<1
TCE	5	<1	<1
cis-1,2-DCE	70	**2**	**0.4 (J)**
vinyl chloride	2	<2	**0.5 (J)**
acetone	700	**14**	**3 (J)**
tetrahydrofuran	154	**960**	**40**
2-butanone	200	<5	**2 (J)**
4-methyl 2-pentanone	350	6	<5
methylene chloride	5	**0.9(JB)**	**0.6(JB)**
1,1,1-TCA	---	<1	<1
1,1-DCA	---	**2**	**0.5 (J)**
1,1-DCE	7	<1	<1
1,2-DCA	5	**2**	**0.6 (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	**3**	<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	**18.7**	**11.2**
arsenic (total)	---	**18.3**	**12.9**
calcium	---	---	---
iron (dissolved)	---	**170,000**	---
iron (total)	---	**160,000**	---
magnesium	---	---	---
manganese (dissolved)	---	---	---
manganese (total)	---	---	---
potassium	---	---	---
sodium	---	---	---
pH (SU)	---	5.59	6.31
SC (mS/cm)	---	3.45	1.16
Turb (NTU)	---	88.1	---
DO (mg/l)	---	0.25	0.22
ORP (mv)	---	-32	-95
Temp (^{o}C)	---	9.87	10.91
Water Level Elevation	NA	146.66	145.89

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-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
benzene	5	**14**	**8**
ethylbenzene	---	**7**	**5**
toluene	1,000	**2**	**2**
xylenes (total)	---	**12**	**5**
PCE	5	<1	<1
TCE	5	<1	<1
cis-1,2-DCE	70	**0.7(J)**	**0.7(J)**
vinyl chloride	2	<2	**0.7 (J)**
acetone	700	**10**	**4 (J)**
tetrahydrofuran	154	**340**	**70**
2-butanone	200	**3(J)**	<5
4-methyl 2-pentanone	350	<5	<5
methylene chloride	5	<5	**0.8 (JB)**
1,1,1-TCA	---	<1	<1
1,1-DCA	---	**3**	**1**
1,1-DCE	7	<1	<1
1,2-DCA	5	**1(J)**	**1**
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**	**0.7 (J)**
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	**19.6**	**20.6**
arsenic (total)	---	**18.8**	**20.4**
calcium	---	---	---
iron (dissolved)	---	**135,000**	---
iron (total)	---	**133,000**	---
magnesium	---	---	---
manganese (dissolved)	---	---	---
manganese (total)	---	---	---
potassium	---	---	---
sodium	---	---	---
pH (SU)	---	6.13	6.20
SC (mS/cm)	---	2.27	1.57
Turb (NTU)	---	146	---
DO (mg/l)	---	0.26	0.38
ORP (mv)	---	-73	-65
Temp (^{o}C)	---	10.49	10.87
Water Level Elevation	NA	146.7	146.15

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.

APPENDIX D-1
TARGET FLOW RATE ANALYSIS
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

b = 16
(10' Well Screen)

K	w	factor	i	Q (gal/day)	Q (gal/min)
8	200	1	0.003	574	0.399
	200	1.5	0.003	862	0.598
	200	2	0.003	1,149	0.798
	250	1	0.003	718	0.499
	250	1.5	0.003	1,077	0.748
	250	2	0.003	1,436	0.997
	300	1	0.003	862	0.598
	300	1.5	0.003	1,293	0.898
	300	2	0.003	1,723	1.197
9.3	200	1	0.003	668	0.464
	200	1.5	0.003	1,002	0.696
	200	2	0.003	1,336	0.928
	250	1	0.003	835	0.580
	250	1.5	0.003	1,252	0.870
	250	2	0.003	1,670	1.159
	300	1	0.003	1,002	0.696
	300	1.5	0.003	1,503	1.043
	300	2	0.003	2,003	1.391
12	200	1	0.003	862	0.598
	200	1.5	0.003	1,293	0.898
	200	2	0.003	1,723	1.197
	250	1	0.003	1,077	0.748
	250	1.5	0.003	1,616	1.122
	250	2	0.003	2,154	1.496
	300	1	0.003	1,293	0.898
	300	1.5	0.003	1,939	1.346
	300	2	0.003	2,585	1.795

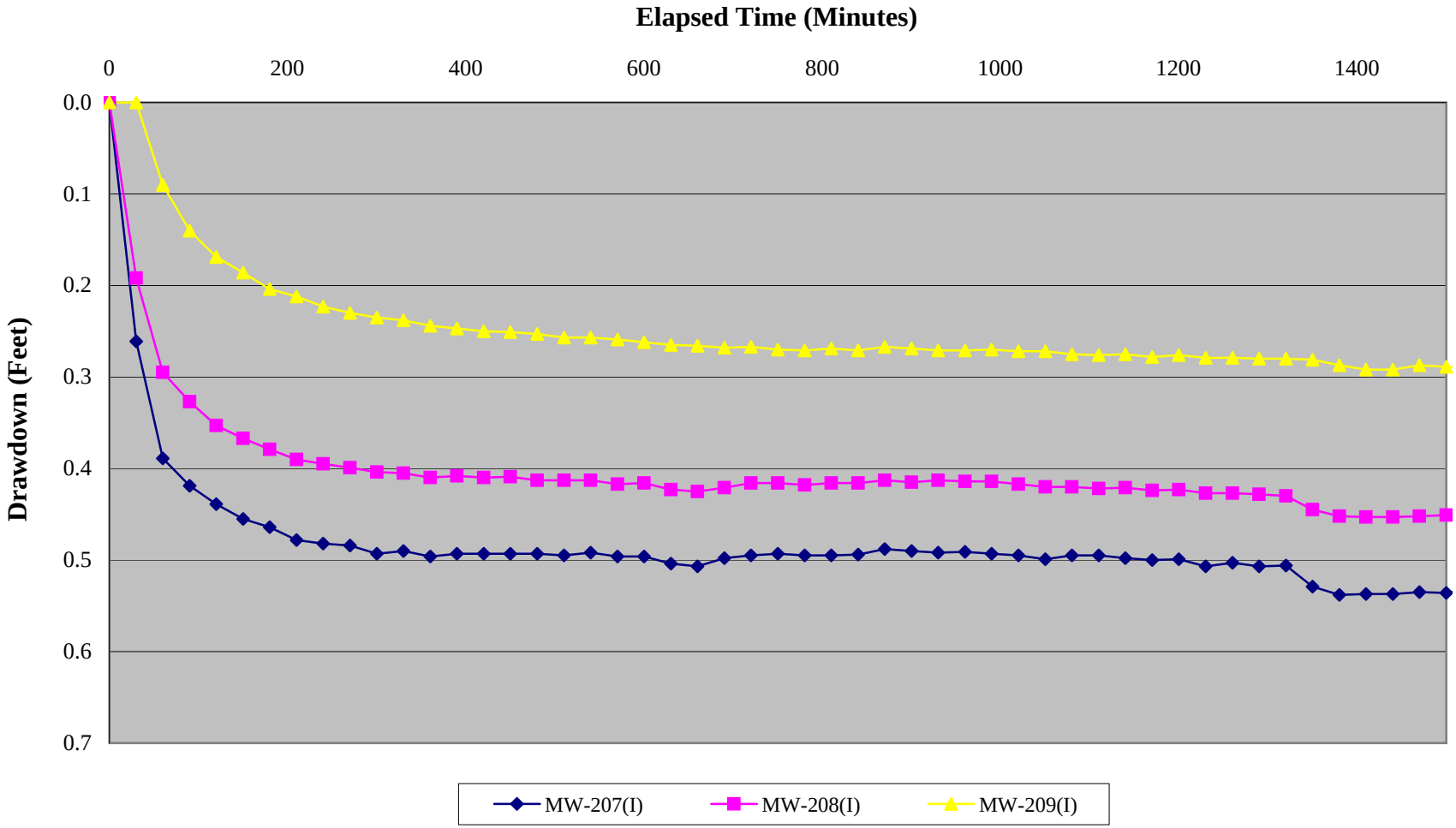
EQUATION
Q = K*(b*w)*i*factor

Q	extraction rate (calculated)
K	8 to 12
b	16 (but up to 20)
w	estimated from ground water concentrations
i	estimated from figures
factor	"rule of thumb" is 1.5 to 2.0

1. Q = constant pumping rate in gallons per minute (gal/min).
2. K = hydraulic conductivity (ft/day).
3. b = aquifer thickness (ft).
4. w = plume width (ft).
5. i = regional hydraulic gradient (feet/foot); i.e., without remedy pumping.
6. factor = "rule of thumb" factor is intended to account for other contributions to pumping well such as flux from a surface water body or induced vertical flow from other stratigraphic units.
7. Equation from "A Systematic Approach for Evaluation of Capture Zones at Pump and Treat Systems, Final Project Report," USEPA January 2008 Report (EPA600/R-08/003).

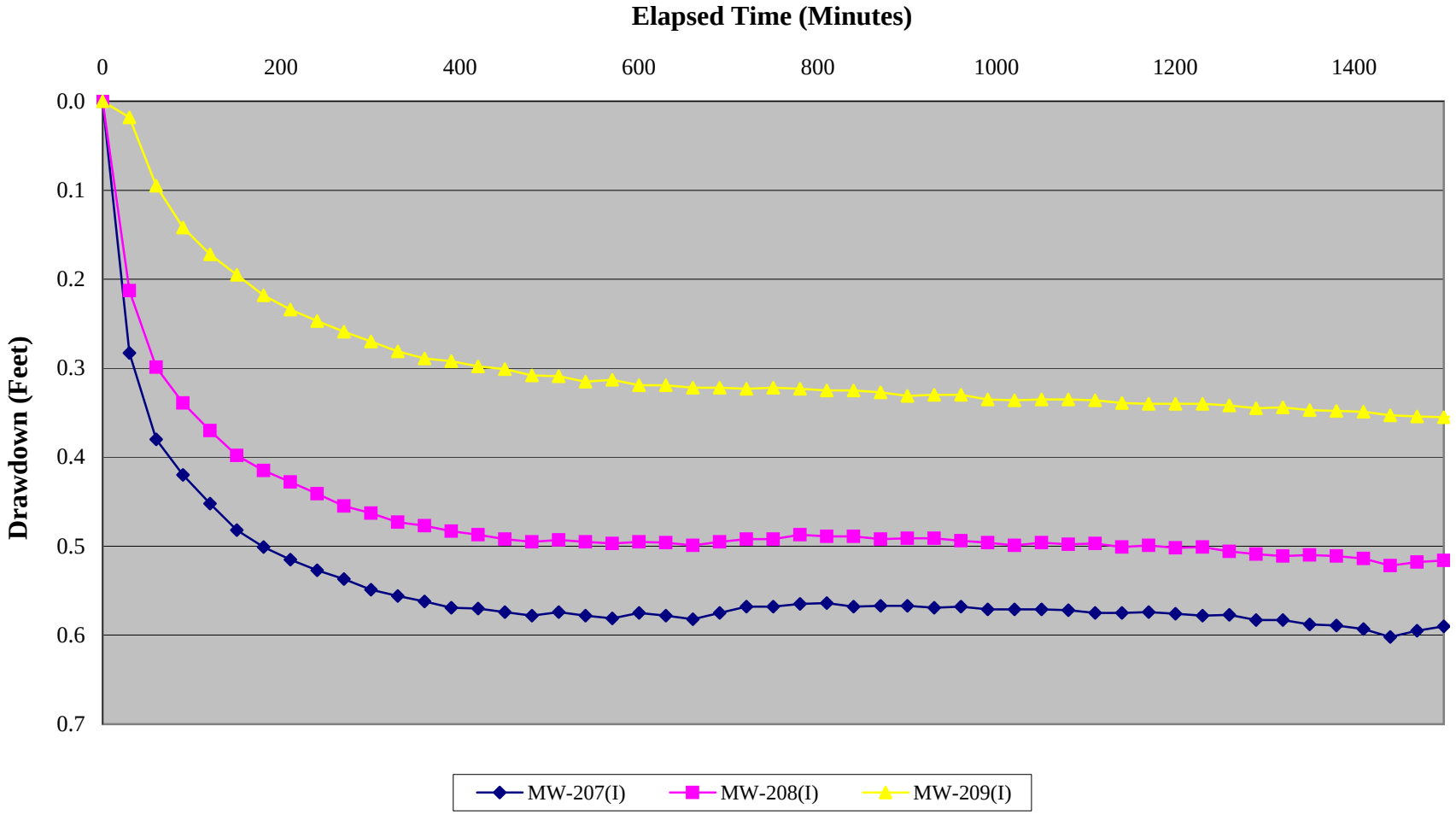
APPENDIX D-2A1
DRAWDOWN VERSUS TIME - TEST PERIOD 1
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

TEST PERIOD STARTED:
April 29, 2009

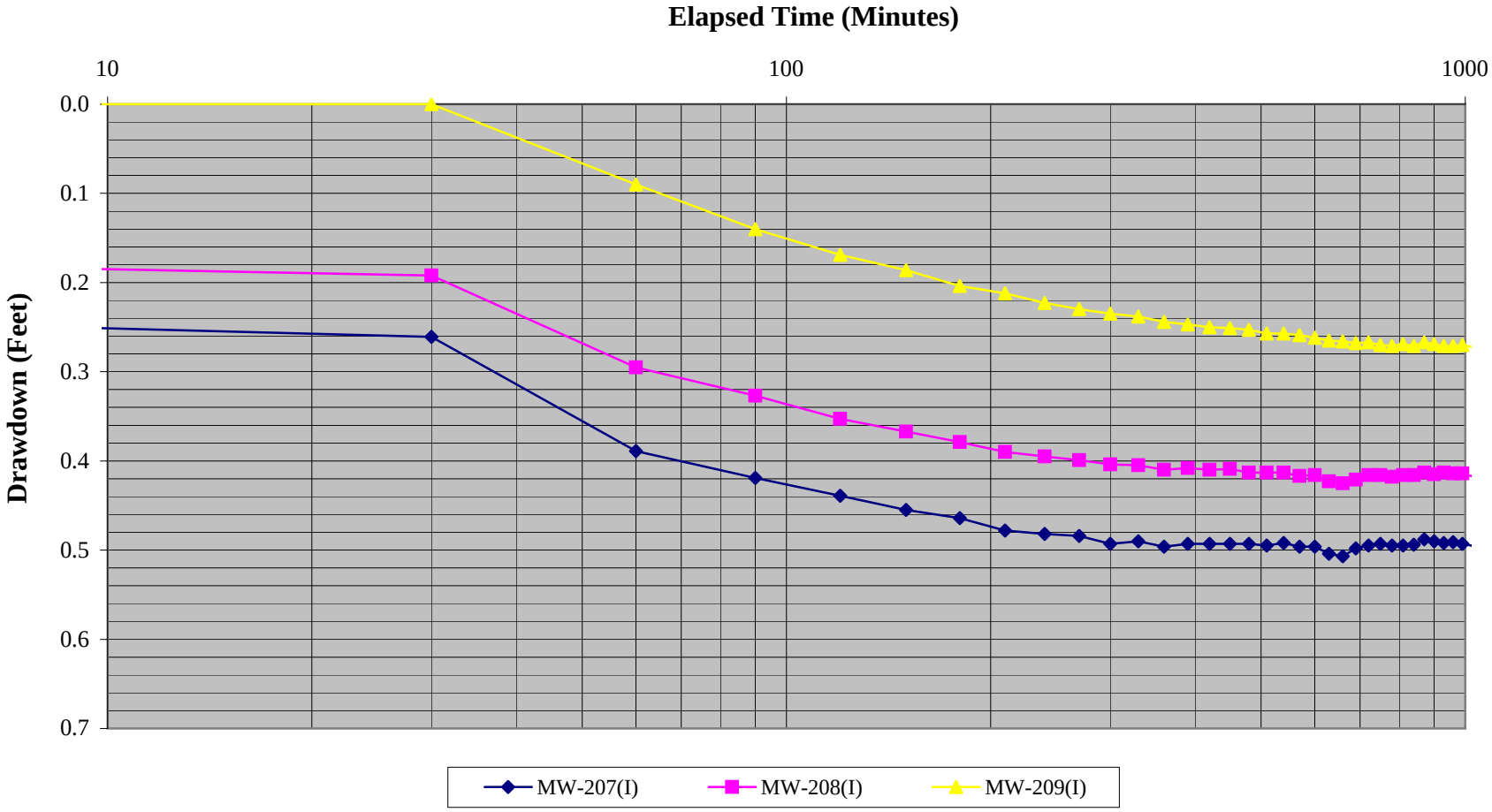


APPENDIX D-2A2
DRAWDOWN VERSUS TIME - TEST PERIOD 2
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

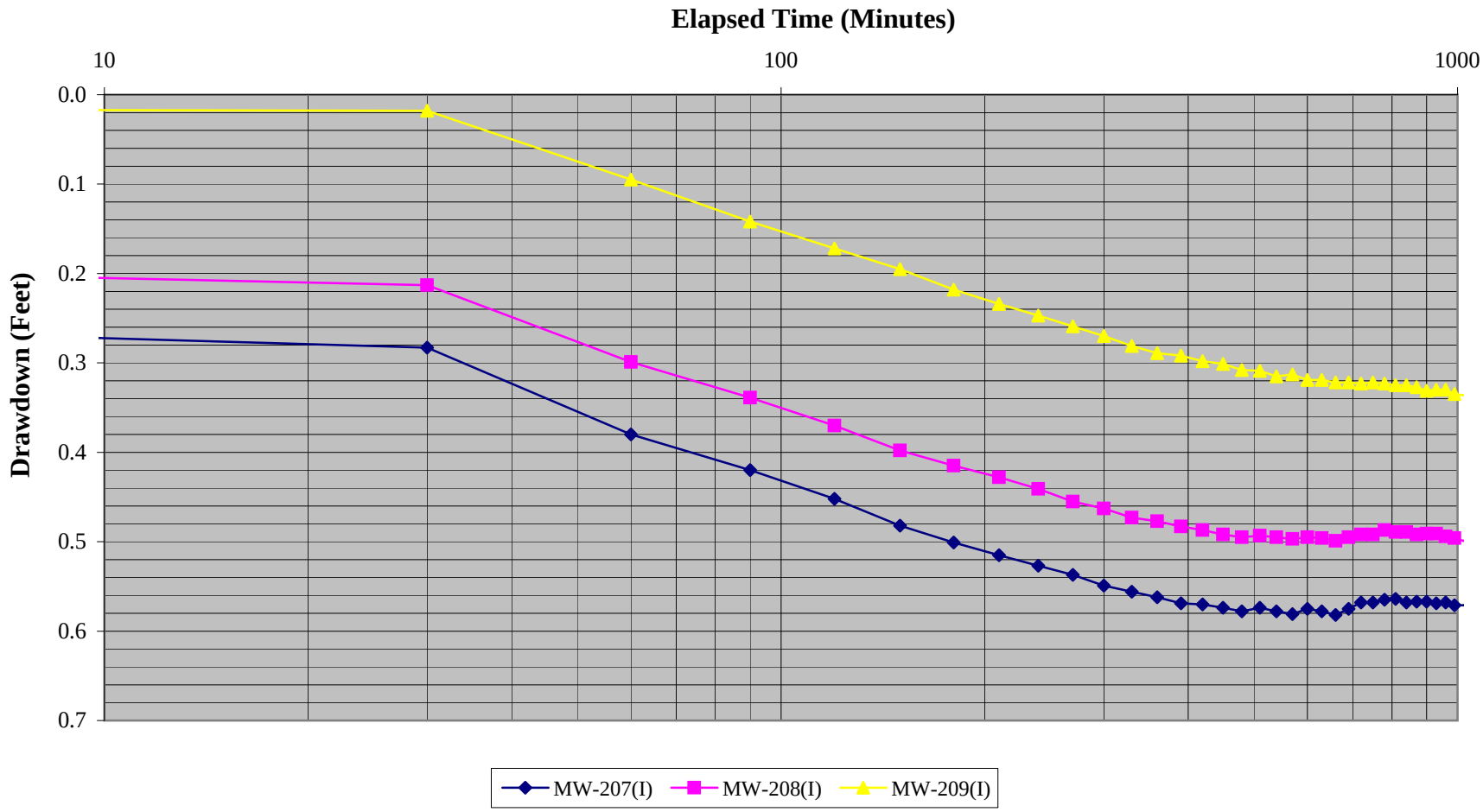
TEST PERIOD STARTED:
May 12, 2009



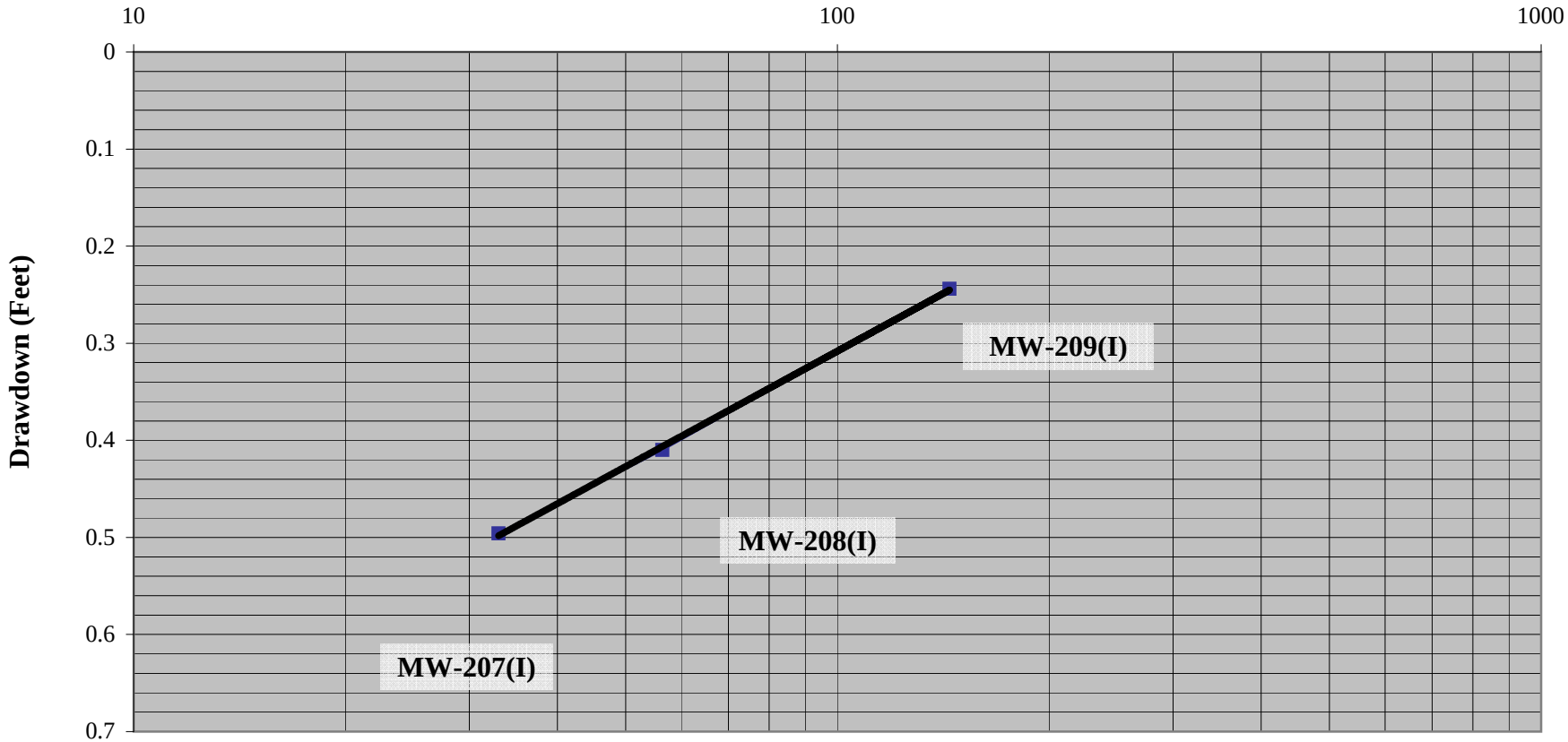
APPENDIX D-2B1
DRAWDOWN VERSUS LOG-TIME - TEST PERIOD 1
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE



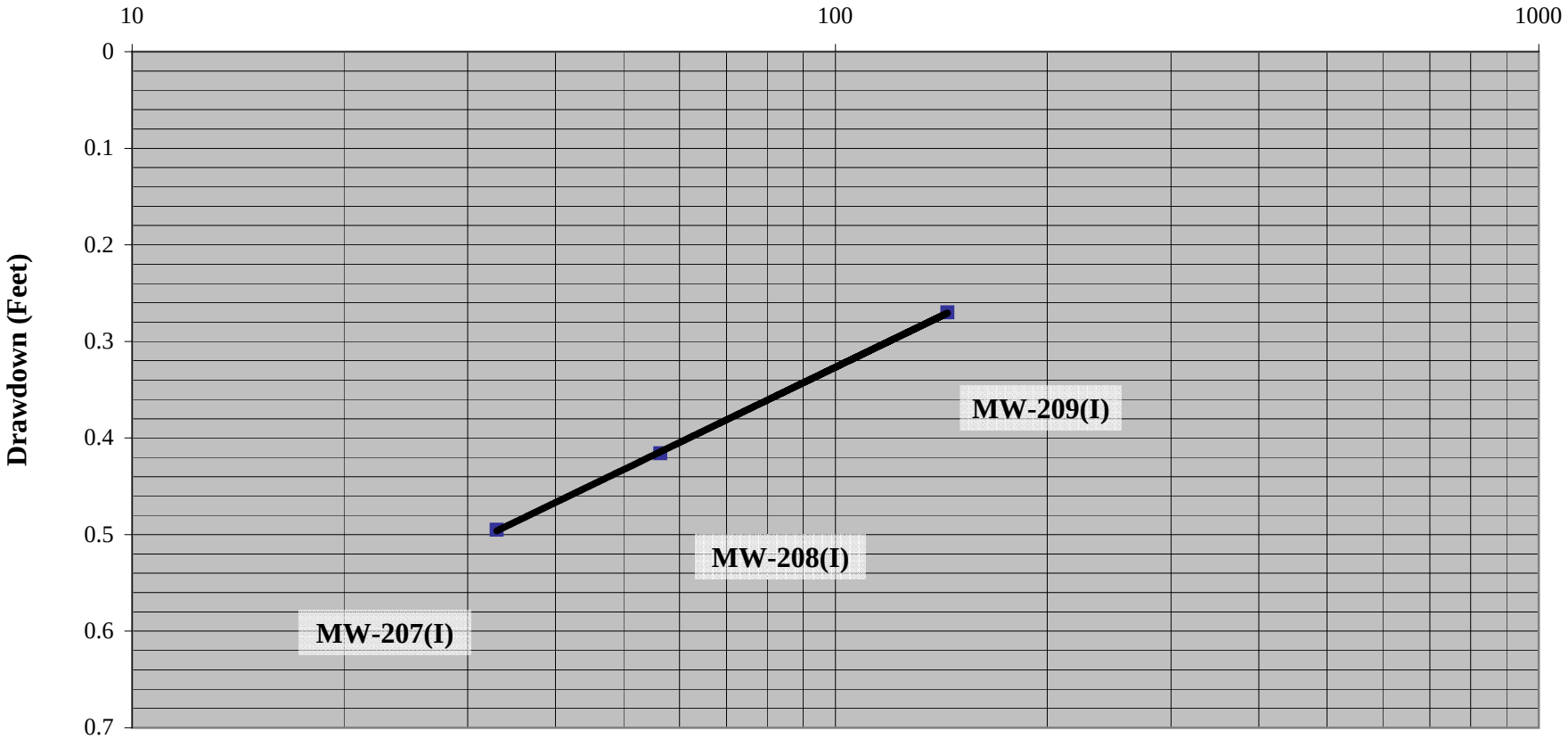
APPENDIX D-2B2
DRAWDOWN VERSUS LOG-TIME - TEST PERIOD 2
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE



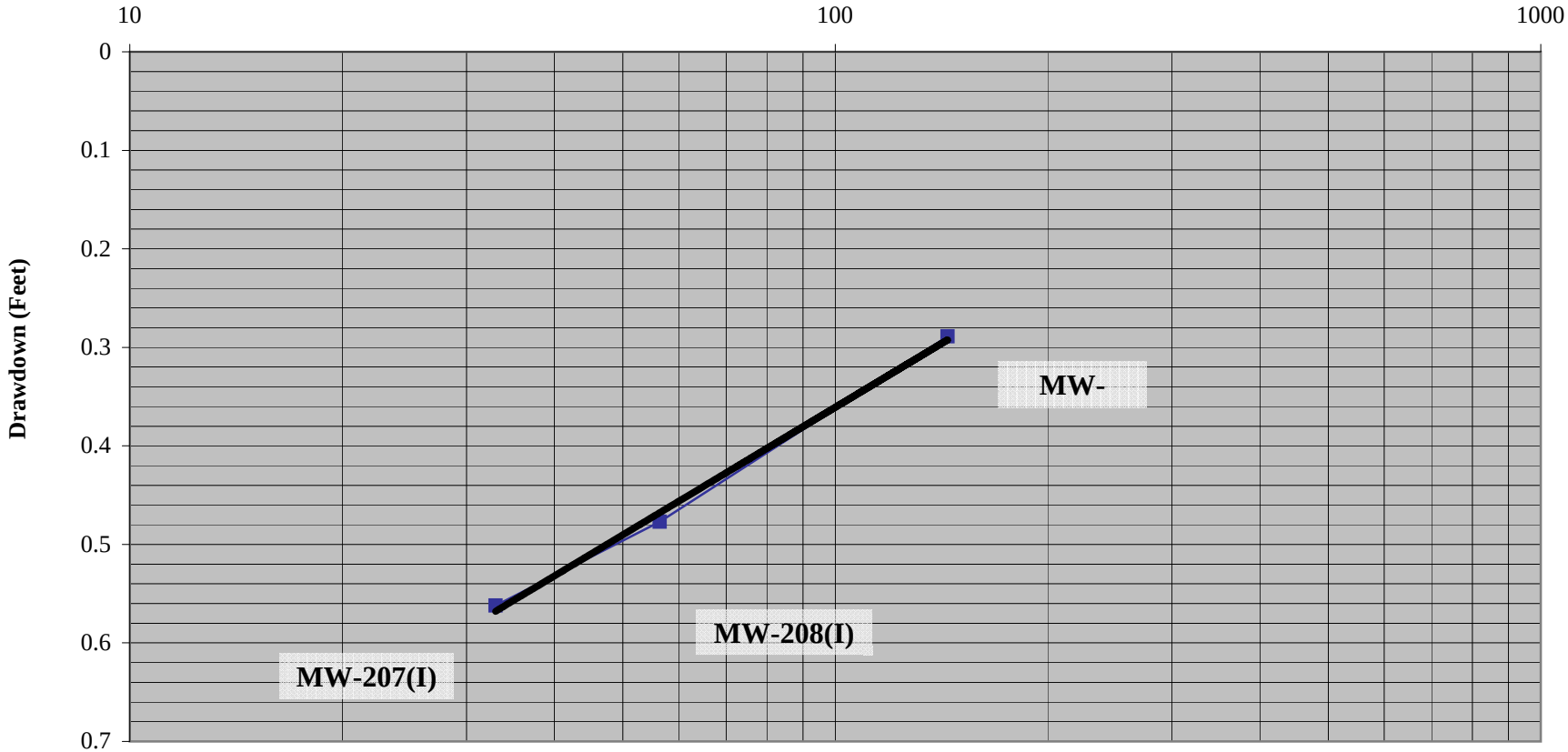
APPENDIX D-3A1
6-HOUR DRAWDOWN VERSUS LOG-DISTANCE - TEST PERIOD 1
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE



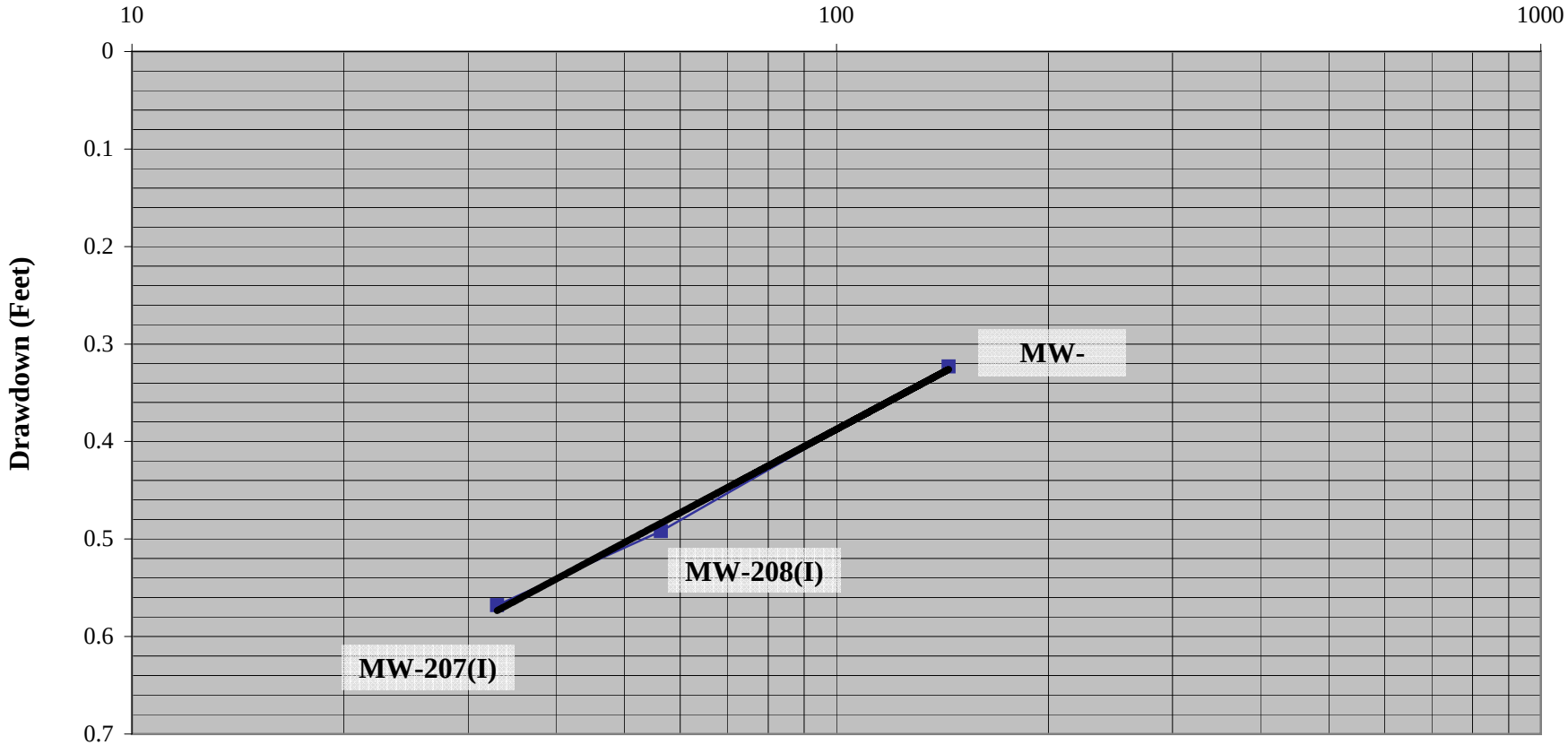
APPENDIX D-3A2
12-HOUR DRAWDOWN VERSUS LOG-DISTANCE - TEST PERIOD 1
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE



APPENDX D-3B1
6-HOUR DRAWDOWN VERSUS LOG-DISTANCE - TEST PERIOD 2
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE



APPENDIX D-3B2
12-HOUR DRAWDOWN VERSUS LOG-DISTANCE - TEST PERIOD 2
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE



APPENDIX D-4
TIME-DRAWDOWN ANALYSIS
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVERMUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

TIME-DRAWDOWN

	WELL ID	Δs	Δs AVG	Q	T	t_o	r	S	b	K
TEST PERIOD #1	(April 29, 2009 - May 1, 2009)									
	MW-207(I)	0.17	0.17	0.9	1382	0.4	33	0.0001	16	12
	MW-208(I)	0.17				1.4	56			
	MW-209(I)	0.18				15	144			
TEST PERIOD #2	(May 12, 2009 - May 14, 2009)									
	MW-207(I)	0.245	0.25	0.9	961	1.7	33	0.0003	16	8
	MW-208(I)	0.245				4	56			
	MW-209(I)	0.25				26	144			

NOTES:

1. Δs = change in drawdown for one log cycle in feet (ft).
2. Δs_{AVG} = average Δs (ft).
3. Q = constant pumping rate in gallons per minute (gal/min).
4. r = distance from pumping well (ft).
5. T = transmissivity in gallons per day per foot (gal/day*ft).
6. t_o = zero drawdown intercept (min).
7. S = storativity.
8. b = aquifer thickness (ft).
9. K = hydraulic conductivity (ft/day).
10. Shaded values used to identify ranges and calculate averages.
11. Straight-Line Time-Drawdown Method (Cooper and Jacob, 1946).
12. Equations from *Aquifer Testing* (Dawson and Istok, 1991).

EQUATIONS

Δs	estimated from graph
Δs AVG	average Δs
t_o	estimated from graph
T	((0.183 * Q) / Δs) * 1440
S	(2.25 * T * t * (1/7.48) * (1/1440)) / (r^2)
b	16 (constant)
K	T / b / 7.48

APPENDIX D-5
DISTANCE-DRAWDOWN ANALYSIS
SOUTHERN PLUMEMANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

DISTANCE-DRAWDOWN							
TIME (Days)		0.25	0.5	0.25		0.5	
TIME (Minutes)		360	720	360		720	
WELL ID	DISTANCE TO 206I (ft)	DRAWDOWN (6HR)	DRAWDOWN (12HR)	Δs (6-hr)	r_o (6-hr)	Δs (12-hr)	r_o (12-hr)
TEST PERIOD #1	(April 29, 2009 - May 1, 2009)						
MW-207(I)	33	0.496	0.495				
MW-208(I)	56	0.410	0.416	0.395	600	0.350	850
MW-209(I)	144	0.244	0.27				
TIME		4/29/2009 17:00	4/29/2009 23:00	T	1,067		1,205
				S	0.0002		0.0003
				b	16	b	16
				K	9	K	10
				Δs (6-hr)	r_o (6-hr)	Δs (12-hr)	r_o (12-hr)
TEST #2	(May 12, 2009 - May 14, 2009)						
MW-207(I)	33	0.562	0.568				
MW-208(I)	56	0.477	0.492	0.430	700	0.390	1000
MW-209(I)	144	0.289	0.323				
				T	981	T	1,081
TIME		5/12/2009 13:00	5/12/2009 19:00	S	0.0002	S	0.0002
				b	16	b	16
				K	8	K	9

NOTES:

1. Δs = change in drawdown for one log cycle in feet (ft).
2. r_o = zero drawdown intercept.
3. T = transmissivity in gallons per day per foot (gal/day*ft).
4. S = storativity.
5. b = aquifer thickness (ft).
6. K = hydraulic conductivity (ft/day).
7. Straight-Line Distance-Drawdown Method (Cooper and Jacob, 1946).
8. Equations from *Aquifer Testing* (Dawson and Istok, 1991).
9. Shaded values used to identify ranges and calculate averages.

EQUATIONS

Δs	estimated from graph
r_o	estimated from graph
T	(0.366 * 0.8 * 1440) / Δs
S	(2.25 * T * t * (1/7.48) * (1/1440)) / (r_o^2)
b	16 (constant)
K	T / b / 7.48

APPENDIX D-6
CAPTURE ZONE ANALYSIS
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

SUMMARY OF PUMP TEST RESULTS

TEST	T (gal/ft*day)	T_{AVG} (gal/ft*day)	K (ft/day)	K_{AVG} (ft/day)	Q (gal/day)
1	1,067, 1205, 1,382	1,218	9 to 12	10.3	1,296
2	961, 981, 1,081	1,008	8 to 9	8.3	1,296
AVERAGE	---	**1,113**	---	**9.3**	**1,296**

CAPTURE ZONE CALCULATIONS

	T	Q	i	Total Width ($2*Y_{MAX}$)	Y_{MAX}	Y_{WELL}	X_o
CALCULATED FROM AVERAGE VALUES							
	1,113	1,296	0.003	388	194	97	-62
2008 ANALYSIS							
	705	1,172	0.003	554	277	139	-88

NOTES:
1. T = transmissivity in gallons per day per foot (gal/day*ft).
2. Q = constant pumping rate (gal/day).
3. i = initial uniform hydraulic gradient (feet/foot).
4. Y = distance along the Y-axis (ft).
5. X = distance along the X-axis (ft).
6. X_o = stagnation point (ft).
7. K = hydraulic conductivity (ft/day).
8. Equations from "A Systematic Approach for Evaluation of Capture Zones at Pump and Treat Systems, Final Project Report," USEPA January 2008 Report (EPA600/R-08/003).

EQUATIONS

Total Width	Q/Ti
Y_{MAX}	Q/2Ti
Y_{WELL}	Q/4Ti
Stagnation Point (X_o)	-Q/2ΠTi

SUMMARY AND STATUS OF ACTIVITIES – Q3 – OCTOBER 10, 2009
NORTHWEST LANDFILL HOTSPOT REMEDIAL DESIGN AND REMEDIAL ACTION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

1. Summary of Activities

Baseline Data Reports – 2008/2009

- Tables 1 through 3 summarize soil vapor, ground water, and ambient air baseline sampling results, respectively.
- No data was collected for inclusion in Tables 1 and 2 during Q3, but the tables have been provided for informational purposes.

2009 Field Work – Q3

- System operation and well adjustments: Figures 1 and 2 present the air sparge (AS) and soil vapor extraction (SVE) system layout with respect to the volatile organic compound treatment area (VOCTA) and the perimeter treatment curtain (PTC). Tables 4 and 5 present a summary of AS and SVE well air flow data, respectively.
- Collection of ambient air sample along Tolend Road: Table 3 presents a summary of ambient air baseline sample results for this location. The corresponding laboratory report has been provided in Attachment A.
- Weekly system checks: Table 6 presents a summary of system status check data.
- Monthly Operations and Management Field Event – August 21 and 24, 2009: Tables 4 and 5 present a summary of AS and SVE well air flow data, respectively. 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.
- Monthly Operations and Management Field Event – September 25, 2009: Table 7 is a summary of laboratory results collected from the SVE discharge. Table 8 presents a summary of vapor probe data. Table 9 for 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.

Mass Removal Calculation

- Table 10 presents the mass removed at the site during operation of the AS and SVE system.
- Approximately 11,200 pounds of volatile organic compounds (primarily cis-1,2-dichloroethene, tetrachloroethene, and toluene) have been removed through September 25, 2009.

2. Deliverables and Correspondence

None.

3. Schedule for Next Quarter

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

- Monthly Operations and Management Field Events – October and November* 2009 (*pending weather/freezing conditions that would affect the system operation and shut down date)
- Ambient air sample collection along Tolend Road (estimated to occur late October 2009)
- System shut down activities (estimated to occur mid November 2009)
- Baseline groundwater and soil vapor sampling activities (estimated to occur mid December 2009)

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
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
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
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
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
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
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
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
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
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
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
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
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
	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
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
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
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
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
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

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-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
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
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
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
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
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
Trip Blank																	
	9/03/08	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	2 U	2 U	5 U
	4/01/09	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	2 U	2 U	5 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)															

Notes:

VOC = volatile organic compound
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
G = grab sample was collected after attempting EPA low flow sampling procedures; the well was purged unti 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	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 ppbv)															
Annual AAL Criteria		59.71	119.09	833.45	335.49	50.44	1984.20	1984.20	2.43	83.81	83.81	1.19	230.31	106.15	23.03	23.03	119.17
TR-Base																	
	9/3/2008	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	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	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
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.

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

	AS Well ID	Pressure (psi)	Flow (acfm)	Flow (scfm)
7/14/2009				
	AS-01A	6.0	8.0	11.1
	AS-02A	6.0	7.5	10.4
	AS-03A	7.0	4.0	5.8
	AS-04A	7.0	4.5	6.5
	AS-05A	5.0	8.0	10.5
	AS-06A	5.0	10.0	13.1
	AS-07A	5.5	8.0	10.8
	AS-08A	7.0	5.5	8.0
	AS-09A	7.0	6.0	8.7
	AS-10A	5.0	8.5	11.2
	AS-11A	7.0	4.5	6.5
	AS-12A	8.0	4.5	6.8
	AS-13A	4.5	9.5	12.2
	AS-14A	2.0	10.0	11.1
	AS-15A	4.0	9.0	11.2
	AS-16A	4.0	10.0	12.5
	AS-17A	6.0	7.5	10.4
	AS-18A	4.0	10.0	12.5
	AS-19A	5.0	9.0	11.8
	AS-20A	5.5	9.0	12.1
	AS-21A	3.0	10.0	11.8
	AS-22A	2.5	10.0	11.5
	AS-23A	4.0	8.0	10.0
	AS-24A	6.0	4.5	6.2
	AS-25A	5.0	10.0	13.1
	AS-26A	4.0	10.0	12.5
	AS-27A	6.0	8.5	11.7
	AS-28A	3.0	10.0	11.8
	AS-29A	7.0	4.0	5.8
	AS-30A	4.5	10.0	12.8
	AS-31A	2.0	10.0	11.1
	AS-01C	7.5	0.0	0.0
	AS-02C	8.0	0.0	0.0
	AS-03C	5.5	9.0	12.1
	AS-04C	5.0	7.5	9.9
	AS-05C	5.0	10.0	13.1
	AS-06C	4.0	8.0	10.0
	AS-07C	7.0	0.0	0.0
	AS-08C	4.0	7.5	9.4
	AS-09C	7.0	7.5	10.9
	AS-10C	4.0	9.5	11.9
	AS-11C	5.0	7.5	9.9
	AS-12C	5.5	5.5	7.4
	AS-13C	8.0	7.5	11.4
	AS-14C	4.0	10.0	12.5
	AS-15C	4.0	10.0	12.5

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

	AS Well ID	Pressure (psi)	Flow (acfm)	Flow (scfm)
7/14/2009				
	AS-16C	4.0	9.0	11.2
	AS-17C	8.0	5.0	7.6
	AS-18C	3.5	9.0	10.9
	AS-19C	5.5	6.5	8.8
	AS-20C	4.0	10.0	12.5
	AS-21C	9.0	5.0	7.9
	AS-22C	4.5	10.0	12.8
	AS-23C	3.5	10.0	12.1
	AS-24C	4.5	10.0	12.8
	AS-25C	9.0	3.0	4.7
	AS-26C	3.5	10.0	12.1
	AS-27C	4.5	10.0	12.8
	AS-28C	7.5	6.0	8.9
	AS-29C	7.0	6.0	8.7
	AS-30C	4.0	10.0	12.5
	AS-31C	5.5	9.5	12.8
7/15/2009				
	AS-01B	2.0	9.0	10.0
	AS-02B	8.0	0.0	0.0
	AS-03B	8.0	4.0	6.1
	AS-04B	8.0	4.0	6.1
	AS-05B	2.0	9.5	10.6
	AS-06B	5.0	9.5	12.5
	AS-07B	2.0	8.0	8.9
	AS-08B	8.0	3.0	4.5
	AS-09B	6.0	3.0	4.1
	AS-10B	4.5	10.0	12.8
	AS-11B	8.0	4.5	6.8
	AS-12B	8.0	3.0	4.5
	AS-13B	2.0	10.0	11.1
	AS-14B	3.5	8.0	9.7
	AS-15B	3.5	9.5	11.5
	AS-16B	2.5	9.0	10.3
	AS-17B	4.0	7.5	9.4
	AS-18B	4.0	10.0	12.5
	AS-19B	2.0	9.5	10.6
	AS-20B	3.0	9.0	10.6
	AS-21B	4.0	8.0	10.0
	AS-22B	4.5	10.0	12.8
	AS-23B	5.0	10.0	13.1
	AS-24B	3.0	9.0	10.6
	AS-25B	4.5	10.0	12.8
	AS-26B	5.0	8.5	11.2
	AS-27B	4.0	10.0	12.5
	AS-28B	1.0	10.0	10.5

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

	AS Well ID	Pressure (psi)	Flow (acfm)	Flow (scfm)
7/15/2009				
	AS-29B	2.5	8.0	9.2
	AS-30B	7.5	6.0	8.9
	AS-31B	3.0	10.0	11.8
	AS-01D	NR	NR	NR
	AS-02D	3.5	7.5	9.1
	AS-03D	7.0	3.0	4.3
	AS-04D	7.0	5.0	7.2
	AS-05D	3.0	8.0	9.5
	AS-06D	5.5	7.0	9.4
	AS-07D	7.0	5.5	8.0
	AS-08D	4.0	8.5	10.6
	AS-09D	3.5	10.0	12.1
	AS-10D	4.0	10.0	12.5
	AS-11D	8.0	0.0	0.0
	AS-12D	5.5	9.0	12.1
	AS-13D	4.5	10.0	12.8
	AS-14D	4.0	10.0	12.5
	AS-15D	4.0	10.0	12.5
	AS-16D	6.0	7.0	9.7
	AS-17D	4.0	8.5	10.6
	AS-18D	3.0	10.0	11.8
	AS-19D	5.0	10.0	13.1
	AS-20D	4.5	10.0	12.8
	AS-21D	6.0	6.5	9.0
	AS-22D	3.0	10.0	11.8
	AS-23D	4.5	9.0	11.5
	AS-24D	6.5	6.0	8.5
	AS-25D	4.0	8.5	10.6
	AS-26D	5.0	9.0	11.8
	AS-27D	5.5	8.0	10.8
	AS-28D	4.0	8.0	10.0
	AS-29D	5.0	8.0	10.5
	AS-30D	5.0	8.0	10.5
	AS-31D	3.5	9.5	11.5
7/27/2009				
	AS-01E	3.0	9.8	11.5
	AS-02E	7.0	5.5	8.0
	AS-03E	2.0	10.0	11.1
	AS-04E	8.0	5.0	7.6
	AS-05E	10.0	3.0	4.9
	AS-06E	8.0	9.0	13.6
	AS-07E	7.5	8.5	12.6
	AS-08E	6.0	8.5	11.7
8/24/2009				
	AS-01A	9.0	3.0	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)
8/24/2009				
	AS-02A	11.0	2.5	4.3
	AS-03A	10.0	3.0	4.9
	AS-04A	9.0	7.5	11.9
	AS-05A	11.0	0.0	0.0
	AS-06A	9.0	8.0	12.7
	AS-07A	9.0	7.0	11.1
	AS-08A	11.0	0.0	0.0
	AS-09A	10.0	6.0	9.9
	AS-10A	7.0	10.0	14.5
	AS-11A	11.0	0.0	0.0
	AS-12A	11.0	2.5	4.3
	AS-13A	3.0	10.0	11.8
	AS-14A	4.0	10.0	12.5
	AS-15A	4.0	10.0	12.5
	AS-16A	3.0	10.0	11.8
	AS-17A	10.0	5.0	8.2
	AS-18A	3.0	10.0	11.8
	AS-19A	4.0	10.0	12.5
	AS-20A	8.0	9.0	13.6
	AS-21A	7.0	10.0	14.5
	AS-22A	4.0	10.0	12.5
	AS-23A	7.0	10.0	14.5
	AS-24A	11.0	0.0	0.0
	AS-25A	6.5	10.0	14.1
	AS-26A	6.0	10.0	13.8
	AS-27A	10.0	5.0	8.2
	AS-28A	6.0	9.0	12.4
	AS-29A	10.0	5.0	8.2
	AS-30A	9.0	7.0	11.1
	AS-31A	5.0	10.0	13.1
	AS-01B	10.0	0.0	0.0
	AS-02B	11.0	0.0	0.0
	AS-03B	10.0	2.5	4.1
	AS-04B	4.0	10.0	12.5
	AS-05B	5.0	10.0	13.1
	AS-06B	8.0	9.0	13.6
	AS-07B	9.5	5.5	8.9
	AS-08B	10.5	3.0	5.0
	AS-09B	4.0	10.0	12.5
	AS-10B	5.0	10.0	13.1
	AS-11B	9.5	7.0	11.3
	AS-12B	10.0	4.0	6.6
	AS-13B	7.0	5.0	7.2
	AS-14B	6.0	10.3	14.2
	AS-15B	4.0	10.0	12.5
	AS-16B	10.5	3.5	5.9

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

	AS Well ID	Pressure (psi)	Flow (acfm)	Flow (scfm)
8/24/2009				
	AS-17B	10.5	0.0	0.0
	AS-18B	3.0	10.0	11.8
	AS-19B	2.0	10.0	11.1
	AS-20B	5.0	10.0	13.1
	AS-21B	9.0	5.5	8.7
	AS-22B	10.0	4.0	6.6
	AS-23B	4.0	10.0	12.5
	AS-24B	8.0	10.0	15.2
	AS-25B	10.0	5.0	8.2
	AS-26B	11.0	4.0	6.9
	AS-27B	2.5	10.0	11.5
	AS-28B	2.0	10.0	11.1
	AS-29B	6.0	10.0	13.8
	AS-30B	NR	NR	NR
	AS-31B	6.0	10.0	13.8
	AS-01C	13.0	0.0	0.0
	AS-02C	13.0	0.0	0.0
	AS-03C	11.0	7.0	12.0
	AS-04C	12.0	6.0	10.7
	AS-05C	4.5	10.0	12.8
	AS-06C	5.0	5.0	6.6
	AS-07C	6.0	0.0	0.0
	AS-08C	6.0	0.0	0.0
	AS-09C	10.0	6.5	10.7
	AS-10C	10.0	4.0	6.6
	AS-11C	10.0	5.5	9.1
	AS-12C	8.0	9.0	13.6
	AS-13C	5.0	4.0	5.3
	AS-14C	3.0	5.5	6.5
	AS-15C	4.0	9.5	11.9
	AS-16C	5.5	9.5	12.8
	AS-17C	9.5	8.0	12.9
	AS-18C	4.0	10.0	12.5
	AS-19C	7.5	10.0	14.8
	AS-20C	11.0	5.5	9.4
	AS-21C	10.0	6.5	10.7
	AS-22C	4.0	10.0	12.5
	AS-23C	4.0	10.0	12.5
	AS-24C	6.0	10.0	13.8
	AS-25C	13.0	0.0	0.0
	AS-26C	6.0	10.0	13.8
	AS-27C	6.5	7.0	9.9
	AS-28C	10.0	7.0	11.5
	AS-29C	8.5	8.5	13.2
	AS-30C	8.0	8.0	12.1
	AS-31C	6.0	8.0	11.1

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

	AS Well ID	Pressure (psi)	Flow (acfm)	Flow (scfm)
8/24/2009				
	AS-01D	9.0	7.0	11.1
	AS-02D	10.5	0.0	0.0
	AS-03D	7.0	8.0	11.6
	AS-04D	11.0	0.0	0.0
	AS-05D	6.0	9.0	12.4
	AS-06D	8.0	8.5	12.9
	AS-07D	10.0	3.0	4.9
	AS-08D	9.5	5.5	8.9
	AS-09D	4.0	11.8	14.7
	AS-10D	8.0	8.0	12.1
	AS-11D	11.0	0.0	0.0
	AS-12D	9.0	7.0	11.1
	AS-13D	2.0	10.0	11.1
	AS-14D	3.0	10.0	11.8
	AS-15D	9.0	7.0	11.1
	AS-16D	10.0	3.0	4.9
	AS-17D	7.0	8.0	11.6
	AS-18D	5.0	10.0	13.1
	AS-19D	3.0	10.0	11.8
	AS-20D	7.0	10.0	14.5
	AS-21D	10.5	0.0	0.0
	AS-22D	3.0	10.0	11.8
	AS-23D	8.0	10.0	15.2
	AS-24D	9.5	6.0	9.7
	AS-25D	5.0	10.0	13.1
	AS-26D	7.0	9.5	13.8
	AS-27D	8.5	3.0	4.6
	AS-28D	9.0	7.0	11.1
	AS-29D	7.0	9.8	14.1
	AS-30D	6.0	10.0	13.8
	AS-31D	5.0	10.0	13.1
	AS-01E	5.0	10.0	13.1
	AS-02E	10.0	0.0	0.0
	AS-03E	4.0	8.0	10.0
	AS-04E	10.0	4.5	7.4
	AS-05E	10.0	4.5	7.4
	AS-06E	8.0	6.5	9.8
	AS-07E	5.0	10.0	13.1
	AS-08E	4.0	10.0	12.5
9/2/2009				
	AS-01A	12.0	4.5	8.0
	AS-02A	10.0	6.5	10.7
	AS-03A	11.0	6.5	11.1
	AS-04A	6.5	9.0	12.7
	AS-05A	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)
9/2/2009				
	AS-06A	8.0	8.0	12.1
	AS-07A	10.0	7.5	12.4
	AS-08A	14.0	0.0	0.0
	AS-09A	11.0	6.0	10.3
	AS-10A	5.0	9.0	11.8
	AS-11A	11.0	7.0	12.0
	AS-12A	11.0	5.5	9.4
	AS-13A	NR	NR	NR
	AS-14A	4.0	9.0	11.2
	AS-15A	3.0	9.5	11.2
	AS-16A	5.0	9.0	11.8
	AS-17A	12.0	4.0	7.1
	AS-18A	4.0	9.5	11.9
	AS-19A	4.0	10.0	12.5
	AS-20A	12.0	3.5	6.2
	AS-21A	10.0	7.0	11.5
	AS-22A	4.0	9.0	11.2
	AS-23A	6.0	9.0	12.4
	AS-24A	11.5	4.5	7.9
	AS-25A	10.0	7.0	11.5
	AS-26A	6.0	9.0	12.4
	AS-27A	8.0	8.0	12.1
	AS-28A	10.0	6.0	9.9
	AS-29A	8.5	6.0	9.3
	AS-30A	6.0	9.0	12.4
	AS-31A	8.0	7.0	10.6
	AS-01B	14.0	3.0	5.7
	AS-02B	11.5	7.0	12.2
	AS-03B	13.0	4.5	8.3
	AS-04B	11.0	6.5	11.1
	AS-05B	3.0	10.0	11.8
	AS-06B	8.0	8.0	12.1
	AS-07B	13.0	3.0	5.5
	AS-08B	12.0	5.0	8.9
	AS-09B	4.0	10.0	12.5
	AS-10B	4.5	9.0	11.5
	AS-11B	11.0	7.0	12.0
	AS-12B	10.0	6.0	9.9
	AS-13B	8.5	7.5	11.6
	AS-14B	8.0	8.0	12.1
	AS-15B	4.0	10.0	12.5
	AS-16B	13.0	4.5	8.3
	AS-17B	13.0	3.0	5.5
	AS-18B	6.0	9.0	12.4
	AS-19B	4.5	10.0	12.8
	AS-20B	8.0	8.0	12.1

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

	AS Well ID	Pressure (psi)	Flow (acfm)	Flow (scfm)
9/2/2009				
	AS-21B	12.5	3.0	5.4
	AS-22B	12.5	3.5	6.4
	AS-23B	4.5	9.0	11.5
	AS-24B	8.0	8.0	12.1
	AS-25B	13.0	4.0	7.4
	AS-26B	11.0	7.5	12.9
	AS-27B	4.0	10.0	12.5
	AS-28B	3.0	10.0	11.8
	AS-29B	8.5	7.0	10.8
	AS-30B	13.0	3.0	5.5
	AS-31B	5.0	8.0	10.5
	AS-01C	15.0	3.0	5.9
	AS-02C	16.0	3.0	6.1
	AS-03C	8.0	10.0	15.2
	AS-04C	15.0	5.0	9.9
	AS-05C	5.0	10.0	13.1
	AS-06C	8.0	8.0	12.1
	AS-07C	16.0	0.0	0.0
	AS-08C	12.0	7.0	12.5
	AS-09C	10.0	7.0	11.5
	AS-10C	13.5	6.5	12.2
	AS-11C	8.0	8.0	12.1
	AS-12C	7.0	9.0	13.0
	AS-13C	13.0	6.5	12.0
	AS-14C	3.0	6.0	7.1
	AS-15C	4.0	9.0	11.2
	AS-16C	10.0	7.0	11.5
	AS-17C	8.0	8.0	12.1
	AS-18C	4.5	9.0	11.5
	AS-19C	7.0	8.0	11.6
	AS-20C	15.0	4.0	7.9
	AS-21C	15.0	4.0	7.9
	AS-22C	4.0	9.0	11.2
	AS-23C	4.5	9.0	11.5
	AS-24C	8.0	8.0	12.1
	AS-25C	15.0	3.0	5.9
	AS-26C	14.0	6.0	11.5
	AS-27C	15.0	3.5	6.9
	AS-28C	15.0	3.0	5.9
	AS-29C	10.0	7.0	11.5
	AS-30C	8.0	8.0	12.1
	AS-31C	14.0	4.0	7.7
	AS-01D	9.0	6.5	10.3
	AS-02D	16.0	0.0	0.0
	AS-03D	13.0	8.0	14.8
	AS-04D	14.0	8.0	15.3

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

	AS Well ID	Pressure (psi)	Flow (acfm)	Flow (scfm)
9/2/2009				
	AS-05D	4.0	10.0	12.5
	AS-06D	6.5	9.0	12.7
	AS-07D	10.0	6.0	9.9
	AS-08D	8.0	6.5	9.8
	AS-09D	NR	NR	NR
	AS-10D	5.0	8.0	10.5
	AS-11D	15.5	0.0	0.0
	AS-12D	5.0	7.5	9.9
	AS-13D	4.0	8.0	10.0
	AS-14D	3.5	8.0	9.7
	AS-15D	5.0	8.0	10.5
	AS-16D	10.0	6.0	9.9
	AS-17D	13.0	4.5	8.3
	AS-18D	4.0	8.0	10.0
	AS-19D	3.0	8.5	10.0
	AS-20D	6.5	7.0	9.9
	AS-21D	12.0	5.5	9.8
	AS-22D	3.0	9.0	10.6
	AS-23D	7.0	5.5	8.0
	AS-24D	8.0	7.0	10.6
	AS-25D	6.0	10.0	13.8
	AS-26D	5.5	7.5	10.1
	AS-27D	10.5	6.0	10.1
	AS-28D	8.0	7.0	10.6
	AS-29D	7.0	7.0	10.1
	AS-30D	8.0	7.0	10.6
	AS-31D	5.0	8.0	10.5
	AS-01E	5.0	8.0	10.5
	AS-02E	11.0	4.0	6.9
	AS-03E	6.0	7.0	9.7
	AS-04E	10.0	6.0	9.9
	AS-05E	9.0	6.0	9.5
	AS-06E	10.0	7.0	11.5
	AS-07E	8.0	8.0	12.1
	AS-08E	4.0	10.0	12.5
9/11/2009				
	AS-01D	10.0	5.5	9.1
	AS-02D	15.0	0.0	0.0
	AS-03D	9.0	5.0	7.9
	AS-04D	13.0	5.0	9.2
	AS-05D	6.0	9.5	13.1
	AS-06D	6.0	8.5	11.7
	AS-07D	10.0	5.0	8.2
	AS-08D	11.5	7.0	12.2
	AS-09D	3.0	9.5	11.2

Table 4
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

	AS Well ID	Pressure (psi)	Flow (acfm)	Flow (scfm)
9/11/2009				
	AS-10D	7.0	7.0	10.1
	AS-11D	15.0	0.0	0.0
	AS-12D	15.0	0.0	0.0
	AS-13D	5.0	9.0	11.8
	AS-14D	5.0	8.0	10.5
	AS-15D	5.0	8.0	10.5
	AS-16D	11.0	8.0	13.7
	AS-17D	15.0	4.0	7.9
	AS-18D	5.0	10.0	13.1
	AS-19D	3.0	9.0	10.6
	AS-20D	12.0	7.5	13.4
	AS-21D	12.0	7.0	12.5
	AS-22D	2.5	10.0	11.5
	AS-23D	14.0	3.0	5.7
	AS-24D	11.5	7.5	13.1
	AS-25D	3.0	10.0	11.8
	AS-26D	5.0	10.0	13.1
	AS-27D	12.0	7.0	12.5
	AS-28D	10.0	7.0	11.5
	AS-29D	12.5	5.5	10.0
	AS-30D	14.0	3.3	6.2
	AS-31D	13.0	6.0	11.1

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.
System start date was 8/10/2009 and all data was collected prior to 8/10/09 was a component of either startup/shake down or compliance sampling.
Initial Design Flow Rate = 10 scfm.
Suffix A,B,C,D = each leg of system in the volatile organic compound treatment area.
Suffix E = E leg of system in the perimeter treatment curtain.

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	0.94	53.02	7.0
	SVE-02	2.8	0.88	51.34	10.5
	SVE-03	2.2	0.65	44.15	19.8
	SVE-04	2.2	0.22	25.69	19.3
	SVE-05	2.2	0.04	10.95	9.4
	SVE-06	1.4	0.14	20.51	5.5
	SVE-07	4.6	2.00	77.22	12.2
	SVE-08	3.8	0.20	24.44	54.8
	SVE-09	3	0.10	17.30	909.0
	SVE-10	2.2	0.12	18.97	2,875.0
	SVE-11	1.6	0.26	27.95	178.0
	SVE-12	1.2	0.18	23.26	76.2
	SVE-13	7.8	0.20	24.32	507.0
	SVE-14	5.8	0.70	45.62	631.0
	SVE-15	5.8	0.22	25.57	525.0
	SVE-16	5.4	0.26	27.81	4,221.0
	SVE-16	5.4	0.16	21.82	4,221.0
	SVE-17	4.8	0.30	29.90	3,306.0
	SVE-18	5	0.38	33.64	35.0
	SVE-19	5.8	0.08	15.42	118.0
	SVE-20	4.8	0.24	26.74	100.0
	SVE-21	1.2	0.14	20.52	7.3
	SVE-22	1.6	0.04	10.96	10.3
	SVE-23	1.4	0.08	15.51	36.2
7/6/2009					
	SVE-01	1.4	0.30	30.03	nm
	SVE-02	1.2	0.28	29.01	nm
	SVE-03	1.3	0.30	30.03	nm
	SVE-04	1.4	0.26	27.95	nm
	SVE-05	6.8	0.02	7.70	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-06	2	0.30	30.00	nm
	SVE-07	1	0.26	27.97	nm
	SVE-08	5	0.32	30.87	nm
	SVE-09	8.2	0.34	31.70	nm
	SVE-10	2.5	0.20	24.48	nm
	SVE-11	1.4	0.30	30.03	nm
	SVE-12	1.6	0.24	26.85	nm
	SVE-13	0.1	0.30	30.07	nm
	SVE-14	3.2	0.27	28.42	nm
	SVE-15	6	0.24	26.70	nm
	SVE-16	6	0.24	26.70	nm
	SVE-17	3.4	0.22	25.65	nm
	SVE-18	3.8	0.26	27.87	nm
	SVE-19	9	0.20	24.29	nm
	SVE-20	5.8	0.36	32.71	nm
	SVE-21	1	0.20	24.53	nm
	SVE-22	5	0.16	21.83	nm
	SVE-23	4.4	0.24	26.76	nm
	SVE-24	5	0.02	7.72	nm
	SVE-25	4.8	0.06	13.37	nm
	SVE-26	4.8	0.02	7.72	nm
	SVE-27	4.7	0.06	13.37	nm
	SVE-28	5	0.04	10.91	nm
	SVE-29	5	0.06	13.37	nm
	SVE-30	4.8	0.06	13.37	nm
	SVE-31	4.6	0.08	15.44	nm
8/21/2009					
	SVE-01	1.65	0.25	27.40	42.6
	SVE-02	1.05	0.25	27.42	203.0
	SVE-03	1.15	0.25	27.42	499.0

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-04	1.25	0.25	27.41	54.6
	SVE-05	4.75	0.15	21.14	231.0
	SVE-06	1.6	0.25	27.40	26.0
	SVE-07	1	0.30	30.04	268.0
	SVE-08	6	0.25	27.25	1,020.0
	SVE-09	5.8	0.30	29.86	1,650.0
	SVE-10	3	0.30	29.97	3,450.0
	SVE-11	1.05	0.25	27.42	1,030.0
	SVE-12	0.9	0.20	24.53	611.0
	SVE-13	10	0.25	27.12	1,040.0
	SVE-14	2	0.25	27.39	1,370.0
	SVE-15	6.5	0.30	29.84	4,000.0
	SVE-16	4	0.25	27.32	4,000.0
	SVE-17	3	0.17	22.56	2,480.0
	SVE-18	5	0.30	29.89	547.0
	SVE-19	8.5	0.28	28.75	320.0
	SVE-20	7	0.26	27.76	204.0
	SVE-21	1.1	0.30	30.04	29.0
	SVE-22	4.5	0.22	25.61	59.2
	SVE-23	2	0.30	30.00	69.4
	SVE-24	4.5	0.05	12.21	15.5
	SVE-25	4.5	0.05	12.21	10.3
	SVE-26	4.5	0.05	12.21	163.0
	SVE-27	4.5	0.05	12.21	6.5
	SVE-28	4.5	0.05	12.21	13.3
	SVE-29	2	0.05	12.25	55.4
	SVE-30	4.5	0.05	12.21	8.2
	SVE-31	4.5	0.05	12.21	6.1

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

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 June 2009 field event, total VOCs were measured on June 26, 2009 due to weather conditions/equipment malfunction.

SVE-01 through SVE-23 Design Flow Rate per the Workplan = 25 scfm.
SVE-24 through SVE-31 Design Flow Rate per the Workplan = 12.5 scfm.
Start date for the system is 8/10/2009

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 (scfm)	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^ (hrs)
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	47	140	762	100	10	140	125	380	10	110	288	6
8/21/2009	B	725	45	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	50	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	49	135	1,675	100	13	120	427	380	18	83	2,025	7
10/2/2009	A	746	3	122	1,699	100	13	116	1,035	442	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 (scfm)	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^ (hrs)

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 due to data available for event type.
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 A] are biased high due to the unit's calibration. More accurate flow rates were were recored during site visits [Event Type B].
Start date for system was 8/10/009.

* = 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.

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	43.0	9.2	5.9	14.0	1.4	410.0	0.8	71.0	1.5	0.7	0.6 U	9.4	140.0	25.0	6.2	84.0
SVE	7/6/2009	58.0	8.5	4.0	7.4	0.5	210.0	0.5	13.0	3.7	1.4	0.3 U	11.0	120.0	31.0	8.4	40.0
AS/SVE (Line A)	7/14/2009	76.0	10.0	10.0	9.3	0.6	200.0	0.5	21.0	4.1	1.7	0.3	14.0	140.0	38.0	10.0	46.0
AS/SVE (Line C)	7/14/2009	84.0	11.0	16.0	10.0	0.8	230.0	0.6	21.0	4.2	1.8	0.5 U	15.0	160.0	42.0	11.0	52.0
AS/SVE (Line B)	7/15/2009	72.0	9.4	14.0	8.4	0.6	180.0	0.5	18.0	3.7	1.5	0.3 U	13.0	130.0	35.0	9.8	39.0
AS/SVE (Line D)	7/15/2009	76.0	9.9	12.0	9.2	0.6	190.0	0.5	21.0	3.9	1.6	0.3 U	13.0	140.0	36.0	10.0	43.0
AS/SVE (Line E)	7/27/2009	40.0 J	8.1	4.0	5.4	0.3	130.0	0.4	6.2	3.8	1.4	0.2 U	11.0	110.0	32.0	9.0	28.0
SVE	8/14/2009	68.0	8.9	13.0	7.6	0.4 U	130.0	0.4	6.0	2.2	1.1	0.4 U	8.6	100.0	25.0	7.2	36.0
AS/SVE (Line D)	8/21/2009	140.0	12.0	26.0	13.0	1.1 U	200.0	1.1 U	6.6	6.3	3.0	1.1 U	17.0	190.0	53.0	16.0	65.0
AS/SVE (Line B)	9/25/2009	140.0	11.0	14.0	6.5	1.0 U	110.0	1.0 U	3.9	4.9	2.6	1.0 U	11.0	140.0	40.0	12.0	30.0

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

Table 8
Vapor Probe Data

Dover Municipal Superfund Site, Dover, NH

	Vapor Probe ID	Vacuum (in. H2O)	Total VOCs (ppmv)	Methane (%)
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

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.

TABLE 9
Aqueous Results from Activated Carbon Influent and Effluent
Dover Muncipal Landfill Superfund Site
Dover, New Hampshire

Date	Sample ID	Unit	PCE	TCE	cDCE	tDCE	VC	1,1-DCE	1,1-DCA	1,1,1-TCA	Chloroethane	MEK	MIBK	Freon 12	Freon 11	Freon 113
9/25/2009	Influent	ug/L	1,600	190	3,500	20 U	20 U	10 U	150	120	20 U	1,800	1,100	20 U	20 U	NA
	Effluent		2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	10 U	10 U	2 U	2 U	NA

Date	Sample ID	Unit	Benzene	Toluene	Ethylbenzene	Total Xylenes	Isopropyl Benzene	1,3,5-Trimethyl-benzene	1,2,4-Trimethyl-benzene	Hexane	Cyclohexane	Heptane	Ethanol	Acetone	Methylene Chloride	THF	2-Hexanone
9/25/2009	Influent	ug/L	20 U	2,400	61	1,180	20 U	78	140	NA	NA	NA	NA	820	1,300	240	150
	Effluent		2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	NA	NA	50 U	5 U	10 U	2 U

Notes:

The 9/25/09 aqueous sample was collected as part of the September O&M event. No sample was collected during the August O&M event because insufficient volume of water was removed by the soil vapor extraction system air moister separator.
NA = compound was not analyzed

PCE = tetrachloroethene
TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
tDCE = trans-1,2-dichloroethene
VC = vinyl chloride
DCE = dichloroethene
DCA = dichloroethane
TCA = trichloroethane
MEK = 2-butanone
MIBK = 4-methyl-2-pentanone
Freon 12 = dichlorodifluoromethane
Freon 11 = trichlorofluoromethane
Freon 113 = 1,1,2-trichlorotrifluoroethane
THF = tetrahydrofuran

U = compound was not detected at the reported concentration

Table 10
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-061909-A	SVE - Startup	6/23/2009	15	750	43	0.819	NC	9.2	0.139	NC	5.9	0.090	NC	14	0.159	NC	1.4	0.016	NC	410	4.561	NC
Stack-070609-A	SVE - Startup	7/6/2009	214	750	58	1.105	192	8.5	0.128	27	4	0.061	15	7.4	0.084	24	0.46	0.005	2	210	2.336	687
Stack-081409	SVE	8/14/2009	816	750	68	1.295	722	8.9	0.134	79	13	0.199	78	7.6	0.086	51	0	0.000	2	130	1.446	1,139
Stack-082109	AS	8/21/2009	993	725	140	2.578	457	12	0.175	31	26	0.386	68	13	0.143	25	0	0.000	0	200	2.151	382
Stack-092509	AS	9/25/2009	1675	730	140	2.595	1,770	11	0.162	110	14	0.209	143	6.5	0.072	49	0	0.000	0	110	1.191	812
Total Mass Removed:							**3,141**			**247**			**305**			**150**			**4**			**3,019**

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-061909-A	SVE - Startup	6/23/2009	15	750	0.75	0.008	NC	71	0.511	NC	1.5	0.021	NC	0.74	0.010	NC	0	0.000	NC	9.4	0.115	NC
Stack-070609-A	SVE - Startup	7/6/2009	214	750	0.49	0.005	1	13	0.093	60	3.7	0.051	7	1.4	0.019	3	0	0.000	0	11	0.134	25
Stack-081409	SVE	8/14/2009	816	750	0.4	0.004	3	6	0.043	41	2.2	0.030	25	1.1	0.015	10	0	0.000	0	8.6	0.105	72
Stack-082109	AS	8/21/2009	993	725	0	0.000	0	6.6	0.046	8	6.3	0.084	15	3	0.040	7	0	0.000	0	17	0.200	36
Stack-092509	AS	9/25/2009	1675	730	0	0.000	0	3.9	0.027	19	4.9	0.066	45	2.6	0.035	24	0	0.000	0	11	0.131	89
Total Mass Removed:							**4**			**128**			**92**			**44**			**0**			**221**

Sample ID	Operational System Component	Sample Date	Cumulative Run Time	Flow Rate	Toluene			m&p-Xylenes			o-Xylene			Methylene Chloride			Total VOCs		
			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-061909-A	SVE - Startup	6/23/2009	15	750	140	1.483	NC	25	0.305	NC	6.2	0.076	NC	84	0.819	NC	822	219.1	NC
Stack-070609-A	SVE - Startup	7/6/2009	214	750	120	1.271	274	31	0.378	68	8.4	0.102	18	40	0.390	120	517	147.9	1,523
Stack-081409	SVE	8/14/2009	816	750	100	1.059	701	25	0.305	206	7.2	0.088	57	36	0.351	223	414	123.9	3,409
Stack-082109	AS	8/21/2009	993	725	190	1.945	345	53	0.625	111	16	0.189	33	65	0.613	109	748	220.2	1,627
Stack-092509	AS	9/25/2009	1675	730	140	1.443	984	40	0.475	324	12	0.142	97	30	0.285	194	526	164.0	4,660
Total Mass Removed:							**2,305**			**708**			**206**			**646**			**11,220**

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

PERIMETER TREATMENT CURTAIN (PTC)

EXTENT OF LOW PERMEABILITY SURFACE COVER

VOC TREATMENT AREA (VOCTA)

DETAIL 4

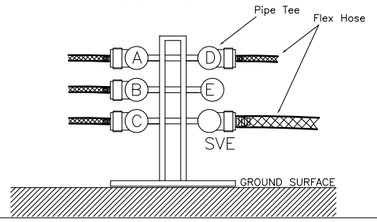
DETAILS 1 AND 5

DETAIL 2

DETAIL 3

HEADER PIPING

DETAIL 1



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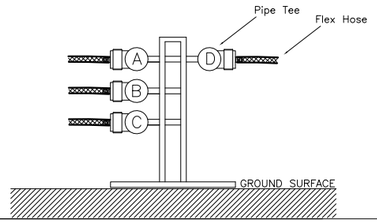

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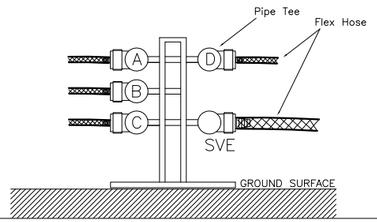

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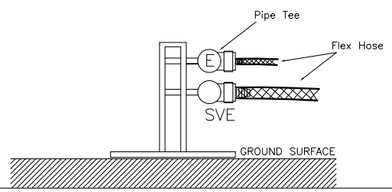
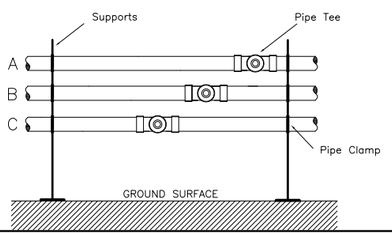


DETAIL 5 (SIDE-VIEW OF DETAIL 1)



NOTES

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

LEGEND

- AS AND SVE PIPING – VOCTA AND PTC
- AS PIPING – VOCTA
- AS AND SVE PIPING – VOCTA
- AS AND SVE PIPING – PTC
- 170 — 2-FOOT ELEVATION CONTOUR (ABOVE MSL)
- PERIMETER DITCH
- AIR SPARGING WELL LOCATION – PTC
- AIR SPARGING WELL LOCATION – VOCTA
- AIR SPARGE GROUND WATER SAMPLING LOCATIONS
- MONITORING WELL LOCATIONS

15' 0' 15' 30'

XDD
STRATEGIC. ENVIRONMENTAL. SOLUTIONS.

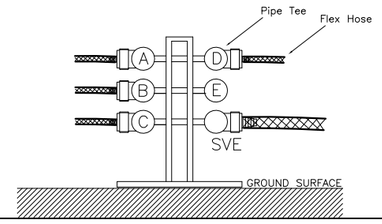
SCALE: As Shown	TITLE: AIR SPARGING WELL LOCATIONS AND PIPING LAYOUT DOVER MUNICIPAL LANDFILL SUPERFUND SITE DOVER, NH
DATE: October 13, 2008	
PROJECT NO.: 84411	
CLIENT: Dover PRP Group	
DRAWN BY: MAW	
CHECKED BY: DK	
PROJ. MGMT. APPROVAL: AL	DRAWING NO.: FIGURE 1 — REV: 1

N

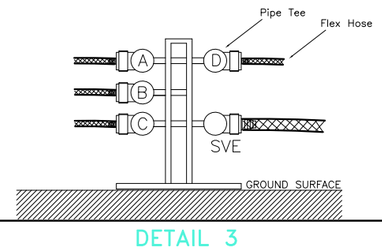
EXTENT OF LOW PERMEABILITY SURFACE COVER

SVE-24
SVE-28
SVE-25
SVE-29
SVE-26
SVE-30
SVE-27
SVE-31
VP-2
SVE-21
VP-5
SVE-22
SVE-06
SVE-23
SVE-12
DETAILS 3 AND 4
SVE-05
VP-6
SVE-11
SVE-17
SVE-04
SVE-10
VP-1
SVE-16
VP-4
SVE-03
SVE-20
SVE-09
SVE-15
SVE-02
SVE-19
SVE-08
SVE-14
SVE-01
SVE-18
SVE-07
VP-3
SVE-13
DETAIL 1
DETAIL 2
HEADER PIPING

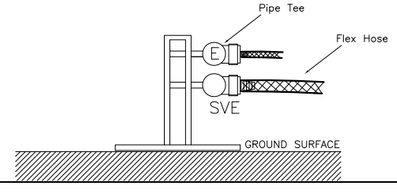
DETAIL 1



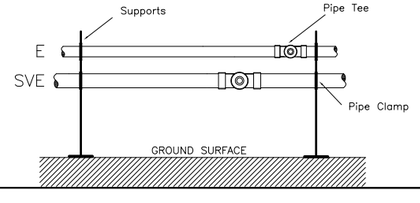
DETAIL 2



DETAIL 3



DETAIL 4 (SIDE-VIEW OF DETAIL 3)



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
- 170 — 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	TITLE: SOIL VAPOR EXTRACTION WELL LOCATIONS AND PIPING LAYOUT DOVER MUNICIPAL LANDFILL SUPERFUND SITE DOVER, NH
DATE: October 13, 2008	
PROJECT NO.: 84411	
CLIENT: Dover PRP Group	
DRAWN BY: AG	DRAWING NO.: FIGURE 2
CHECKED BY: DK	REV: 2
PROJ. MGMT. APPROVAL: AL	

ATTACHMENT A

Air Toxics LTD.
Laboratory Services Since 1989

8/4/2009
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Municipal Landfill
Project #:
Workorder #: 0907583

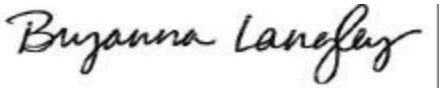
Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 7/28/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 (5&20 ppbv) 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: Bryanna Langley at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Bryanna Langley
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0907583

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 Stratham, NH 03885
PHONE:	603-778-1100	**P.O. #**	1411
FAX:	603-778-2121	**PROJECT #**	Dover Municipal Landfill
DATE RECEIVED:	07/28/2009	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	08/04/2009		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	Line Stack E 072709	Modified TO-15 (5&20 ppbv)	Tedlar Bag	Tedlar Bag
02A	Lab Blank	Modified TO-15 (5&20 ppbv)	NA	NA
03A	CCV	Modified TO-15 (5&20 ppbv)	NA	NA
04A	LCS	Modified TO-15 (5&20 ppbv)	NA	NA

CERTIFIED BY: Linda L. Truman DATE: 08/04/09

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
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: 07/01/08, Expiration date: 06/30/09
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 Soil Gas
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 0907583

One 1 Liter Tedlar Bag sample was received on July 28, 2009. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit failures 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 QC analyses have not been flagged.

Sample Line Stack E 072709 was transferred from a Tedlar bag into a summa canister to extend the hold time from 72 hours to 14 days. Canister pressurization resulted in a dilution factor which was applied to all analytical results.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction no

performed).

J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: Line Stack E 072709

Lab ID#: 0907583-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	210	240	1000	1200
Vinyl Chloride	210	6200	530	16000
Chloroethane	210	310	550	830
Freon 11	210	1400	1200	7800
Freon 113	210	470	1600	3600
1,1-Dichloroethene	210	250	830	1000
Acetone	840	2800	2000	6800
Methylene Chloride	210	28000	730	98000
trans-1,2-Dichloroethene	210	350	830	1400
Hexane	210	1200	740	4300
1,1-Dichloroethane	210	5400	850	22000
2-Butanone (Methyl Ethyl Ketone)	210	8200	620	24000
cis-1,2-Dichloroethene	210	130000	830	520000
1,1,1-Trichloroethane	210	4000	1100	22000
Cyclohexane	210	780	720	2700
Heptane	210	2100	860	8600
Trichloroethene	210	8100	1100	44000
4-Methyl-2-pentanone	210	2200	860	9200
Toluene	210	110000	790	410000
Tetrachloroethene	210	40000 J	1400	270000 J
Ethyl Benzene	210	11000	910	48000
m,p-Xylene	210	32000	910	140000
o-Xylene	210	9000	910	39000
Cumene	210	660	1000	3300
Propylbenzene	210	1000	1000	4900
4-Ethyltoluene	210	4400	1000	22000
1,3,5-Trimethylbenzene	210	1400	1000	7000
1,2,4-Trimethylbenzene	210	3800	1000	18000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Line Stack E 072709

Lab ID#: 0907583-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b080311**	**Date of Collection: 7/27/09 2:08:00 PM**	
Dil. Factor:	**41.8**	**Date of Analysis: 8/3/09 04:37 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	210	240	1000	1200
Freon 114	210	Not Detected	1500	Not Detected
Chloromethane	840	Not Detected	1700	Not Detected
Vinyl Chloride	210	6200	530	16000
1,3-Butadiene	210	Not Detected	460	Not Detected
Bromomethane	210	Not Detected	810	Not Detected
Chloroethane	210	310	550	830
Freon 11	210	1400	1200	7800
Ethanol	840	Not Detected	1600	Not Detected
Freon 113	210	470	1600	3600
1,1-Dichloroethene	210	250	830	1000
Acetone	840	2800	2000	6800
2-Propanol	840	Not Detected	2000	Not Detected
Carbon Disulfide	210	Not Detected	650	Not Detected
3-Chloropropene	840	Not Detected	2600	Not Detected
Methylene Chloride	210	28000	730	98000
Methyl tert-butyl ether	210	Not Detected	750	Not Detected
trans-1,2-Dichloroethene	210	350	830	1400
Hexane	210	1200	740	4300
1,1-Dichloroethane	210	5400	850	22000
2-Butanone (Methyl Ethyl Ketone)	210	8200	620	24000
cis-1,2-Dichloroethene	210	130000	830	520000
Tetrahydrofuran	210	Not Detected	620	Not Detected
Chloroform	210	Not Detected	1000	Not Detected
1,1,1-Trichloroethane	210	4000	1100	22000
Cyclohexane	210	780	720	2700
Carbon Tetrachloride	210	Not Detected	1300	Not Detected
2,2,4-Trimethylpentane	210	Not Detected	980	Not Detected
Benzene	210	Not Detected	670	Not Detected
1,2-Dichloroethane	210	Not Detected	840	Not Detected
Heptane	210	2100	860	8600
Trichloroethene	210	8100	1100	44000
1,2-Dichloropropane	210	Not Detected	960	Not Detected
1,4-Dioxane	840	Not Detected	3000	Not Detected
Bromodichloromethane	210	Not Detected	1400	Not Detected
cis-1,3-Dichloropropene	210	Not Detected	950	Not Detected
4-Methyl-2-pentanone	210	2200	860	9200
Toluene	210	110000	790	410000
trans-1,3-Dichloropropene	210	Not Detected	950	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Line Stack E 072709

Lab ID#: 0907583-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b080311**	**Date of Collection: 7/27/09 2:08:00 PM**	
Dil. Factor:	**41.8**	**Date of Analysis: 8/3/09 04:37 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	210	Not Detected	1100	Not Detected
Tetrachloroethene	210	40000 J	1400	270000 J
2-Hexanone	840	Not Detected	3400	Not Detected
Dibromochloromethane	210	Not Detected	1800	Not Detected
1,2-Dibromoethane (EDB)	210	Not Detected	1600	Not Detected
Chlorobenzene	210	Not Detected	960	Not Detected
Ethyl Benzene	210	11000	910	48000
m,p-Xylene	210	32000	910	140000
o-Xylene	210	9000	910	39000
Styrene	210	Not Detected	890	Not Detected
Bromoform	210	Not Detected	2200	Not Detected
Cumene	210	660	1000	3300
1,1,2,2-Tetrachloroethane	210	Not Detected	1400	Not Detected
Propylbenzene	210	1000	1000	4900
4-Ethyltoluene	210	4400	1000	22000
1,3,5-Trimethylbenzene	210	1400	1000	7000
1,2,4-Trimethylbenzene	210	3800	1000	18000
1,3-Dichlorobenzene	210	Not Detected	1200	Not Detected
1,4-Dichlorobenzene	210	Not Detected	1200	Not Detected
alpha-Chlorotoluene	210	Not Detected	1100	Not Detected
1,2-Dichlorobenzene	210	Not Detected	1200	Not Detected
1,2,4-Trichlorobenzene	840	Not Detected	6200	Not Detected
Hexachlorobutadiene	840	Not Detected	8900	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	89	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0907583-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b080307**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/3/09 02:26 PM**	

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	5.0	Not Detected	13	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)	5.0	Not Detected	15	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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0907583-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b080307**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/3/09 02:26 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected U J	34	Not Detected U J
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

UJ = Non-detected compound associated with low bias in the CCV

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0907583-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b080305**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/3/09 01:27 PM**	

Compound	%Recovery
Freon 12	92
Freon 114	92
Chloromethane	89
Vinyl Chloride	97
1,3-Butadiene	97
Bromomethane	95
Chloroethane	97
Freon 11	88
Ethanol	108
Freon 113	101
1,1-Dichloroethene	97
Acetone	97
2-Propanol	83
Carbon Disulfide	102
3-Chloropropene	103
Methylene Chloride	95
Methyl tert-butyl ether	107
trans-1,2-Dichloroethene	103
Hexane	102
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	93
Tetrahydrofuran	90
Chloroform	94
1,1,1-Trichloroethane	90
Cyclohexane	103
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	103
Benzene	97
1,2-Dichloroethane	86
Heptane	105
Trichloroethene	94
1,2-Dichloropropane	97
1,4-Dioxane	96
Bromodichloromethane	99
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	105
Toluene	101
trans-1,3-Dichloropropene	92

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0907583-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b080305**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/3/09 01:27 PM**	

Compound	%Recovery
1,1,2-Trichloroethane	127
Tetrachloroethene	62 Q
2-Hexanone	102
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	95
Chlorobenzene	97
Ethyl Benzene	95
m,p-Xylene	99
o-Xylene	101
Styrene	104
Bromoform	113
Cumene	99
1,1,2,2-Tetrachloroethane	103
Propylbenzene	112
4-Ethyltoluene	122
1,3,5-Trimethylbenzene	93
1,2,4-Trimethylbenzene	112
1,3-Dichlorobenzene	107
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	106
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	122
Hexachlorobutadiene	126

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0907583-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b080306**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/3/09 01:55 PM**	

Compound	%Recovery
Freon 12	85
Freon 114	89
Chloromethane	83
Vinyl Chloride	95
1,3-Butadiene	89
Bromomethane	95
Chloroethane	95
Freon 11	86
Ethanol	63
Freon 113	101
1,1-Dichloroethene	96
Acetone	94
2-Propanol	90
Carbon Disulfide	95
3-Chloropropene	92
Methylene Chloride	93
Methyl tert-butyl ether	99
trans-1,2-Dichloroethene	93
Hexane	92
1,1-Dichloroethane	95
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	93
Tetrahydrofuran	81
Chloroform	93
1,1,1-Trichloroethane	90
Cyclohexane	92
Carbon Tetrachloride	87
2,2,4-Trimethylpentane	91
Benzene	96
1,2-Dichloroethane	85
Heptane	93
Trichloroethene	94
1,2-Dichloropropane	96
1,4-Dioxane	92
Bromodichloromethane	92
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	96
Toluene	102
trans-1,3-Dichloropropene	96

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0907583-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b080306**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/3/09 01:55 PM**	

Compound	%Recovery
1,1,2-Trichloroethane	124
Tetrachloroethene	64 Q
2-Hexanone	94
Dibromochloromethane	95
1,2-Dibromoethane (EDB)	93
Chlorobenzene	95
Ethyl Benzene	93
m,p-Xylene	96
o-Xylene	99
Styrene	107
Bromoform	103
Cumene	98
1,1,2,2-Tetrachloroethane	103
Propylbenzene	96
4-Ethyltoluene	112
1,3,5-Trimethylbenzene	88
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	122
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	131 Q
Hexachlorobutadiene	139 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	87	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

9/30/2009

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

Project Name: Dover Landfill
Project #: 84411
Workorder #: 0909582

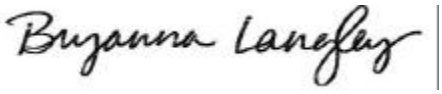
Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 9/26/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 (5&20 ppbv) 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: Bryanna Langley at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Bryanna Langley
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0909582

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 Stratham, NH 03885
PHONE:	603-778-1100	**P.O. #**	1501
FAX:	603-778-2121	**PROJECT #**	84411 Dover Landfill
DATE RECEIVED:	09/26/2009	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	09/30/2009		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SVESTACK092509	Modified TO-15 (5&20 ppbv	Tedlar Bag	Tedlar Bag
02A	Lab Blank	Modified TO-15 (5&20 ppbv	NA	NA
03A	CCV	Modified TO-15 (5&20 ppbv	NA	NA
04A	LCS	Modified TO-15 (5&20 ppbv	NA	NA

CERTIFIED BY: Linda D. Frumarn DATE: 09/30/09

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
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: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 Soil Gas
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 0909582

One 1 Liter Tedlar Bag sample was received on September 26, 2009. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit failures 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 QC analyses have not been flagged.

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
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
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: SVESTACK092509

Lab ID#: 0909582-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1000	3900	2600	10000
Freon 11	1000	1600	5600	8800
Methylene Chloride	1000	30000	3500	100000
Hexane	1000	1000	3500	3700
1,1-Dichloroethane	1000	6500	4000	26000
2-Butanone (Methyl Ethyl Ketone)	1000	1100	2900	3200
cis-1,2-Dichloroethene	1000	110000	4000	420000
1,1,1-Trichloroethane	1000	14000	5400	77000
Heptane	1000	2300	4100	9600
Trichloroethene	1000	11000	5400	57000
Toluene	1000	140000	3800	530000
Tetrachloroethene	1000	140000	6800	930000
Ethyl Benzene	1000	11000	4300	48000
m,p-Xylene	1000	40000	4300	180000
o-Xylene	1000	12000	4300	54000
Propylbenzene	1000	1100	4900	5600
4-Ethyltoluene	1000	6300	4900	31000
1,3,5-Trimethylbenzene	1000	2600	4900	13000
1,2,4-Trimethylbenzene	1000	4900	4900	24000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVESTACK092509

Lab ID#: 0909582-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b092808**	**Date of Collection:**	**9/25/09 10:26:00 AM**
Dil. Factor:	**200**	**Date of Analysis:**	**9/28/09 02:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1000	Not Detected	4900	Not Detected
Freon 114	1000	Not Detected	7000	Not Detected
Chloromethane	4000	Not Detected	8300	Not Detected
Vinyl Chloride	1000	3900	2600	10000
1,3-Butadiene	1000	Not Detected	2200	Not Detected
Bromomethane	1000	Not Detected	3900	Not Detected
Chloroethane	1000	Not Detected	2600	Not Detected
Freon 11	1000	1600	5600	8800
Ethanol	4000	Not Detected	7500	Not Detected
Freon 113	1000	Not Detected	7700	Not Detected
1,1-Dichloroethene	1000	Not Detected	4000	Not Detected
Acetone	4000	Not Detected	9500	Not Detected
2-Propanol	4000	Not Detected	9800	Not Detected
Carbon Disulfide	1000	Not Detected	3100	Not Detected
3-Chloropropene	4000	Not Detected	12000	Not Detected
Methylene Chloride	1000	30000	3500	100000
Methyl tert-butyl ether	1000	Not Detected	3600	Not Detected
trans-1,2-Dichloroethene	1000	Not Detected	4000	Not Detected
Hexane	1000	1000	3500	3700
1,1-Dichloroethane	1000	6500	4000	26000
2-Butanone (Methyl Ethyl Ketone)	1000	1100	2900	3200
cis-1,2-Dichloroethene	1000	110000	4000	420000
Tetrahydrofuran	1000	Not Detected	2900	Not Detected
Chloroform	1000	Not Detected	4900	Not Detected
1,1,1-Trichloroethane	1000	14000	5400	77000
Cyclohexane	1000	Not Detected	3400	Not Detected
Carbon Tetrachloride	1000	Not Detected	6300	Not Detected
2,2,4-Trimethylpentane	1000	Not Detected	4700	Not Detected
Benzene	1000	Not Detected	3200	Not Detected
1,2-Dichloroethane	1000	Not Detected	4000	Not Detected
Heptane	1000	2300	4100	9600
Trichloroethene	1000	11000	5400	57000
1,2-Dichloropropane	1000	Not Detected	4600	Not Detected
1,4-Dioxane	4000	Not Detected	14000	Not Detected
Bromodichloromethane	1000	Not Detected	6700	Not Detected
cis-1,3-Dichloropropene	1000	Not Detected	4500	Not Detected
4-Methyl-2-pentanone	1000	Not Detected	4100	Not Detected
Toluene	1000	140000	3800	530000
trans-1,3-Dichloropropene	1000	Not Detected	4500	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVESTACK092509

Lab ID#: 0909582-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b092808**	**Date of Collection:**	**9/25/09 10:26:00 AM**
Dil. Factor:	**200**	**Date of Analysis:**	**9/28/09 02:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1000	Not Detected	5400	Not Detected
Tetrachloroethene	1000	140000	6800	930000
2-Hexanone	4000	Not Detected	16000	Not Detected
Dibromochloromethane	1000	Not Detected	8500	Not Detected
1,2-Dibromoethane (EDB)	1000	Not Detected	7700	Not Detected
Chlorobenzene	1000	Not Detected	4600	Not Detected
Ethyl Benzene	1000	11000	4300	48000
m,p-Xylene	1000	40000	4300	180000
o-Xylene	1000	12000	4300	54000
Styrene	1000	Not Detected	4200	Not Detected
Bromoform	1000	Not Detected	10000	Not Detected
Cumene	1000	Not Detected	4900	Not Detected
1,1,2,2-Tetrachloroethane	1000	Not Detected	6900	Not Detected
Propylbenzene	1000	1100	4900	5600
4-Ethyltoluene	1000	6300	4900	31000
1,3,5-Trimethylbenzene	1000	2600	4900	13000
1,2,4-Trimethylbenzene	1000	4900	4900	24000
1,3-Dichlorobenzene	1000	Not Detected	6000	Not Detected
1,4-Dichlorobenzene	1000	Not Detected	6000	Not Detected
alpha-Chlorotoluene	1000	Not Detected	5200	Not Detected
1,2-Dichlorobenzene	1000	Not Detected	6000	Not Detected
1,2,4-Trichlorobenzene	4000	Not Detected	30000	Not Detected
Hexachlorobutadiene	4000	Not Detected	43000	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0909582-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b092807**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/28/09 12:38 PM**	

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	5.0	Not Detected	13	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)	5.0	Not Detected	15	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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0909582-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b092807**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/28/09 12:38 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
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	96	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0909582-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b092802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/28/09 10:01 AM**	

Compound	%Recovery
Freon 12	107
Freon 114	110
Chloromethane	102
Vinyl Chloride	107
1,3-Butadiene	107
Bromomethane	102
Chloroethane	117
Freon 11	103
Ethanol	110
Freon 113	109
1,1-Dichloroethene	104
Acetone	107
2-Propanol	105
Carbon Disulfide	109
3-Chloropropene	115
Methylene Chloride	103
Methyl tert-butyl ether	139 Q
trans-1,2-Dichloroethene	108
Hexane	107
1,1-Dichloroethane	107
2-Butanone (Methyl Ethyl Ketone)	107
cis-1,2-Dichloroethene	104
Tetrahydrofuran	106
Chloroform	103
1,1,1-Trichloroethane	105
Cyclohexane	105
Carbon Tetrachloride	106
2,2,4-Trimethylpentane	106
Benzene	111
1,2-Dichloroethane	106
Heptane	108
Trichloroethene	104
1,2-Dichloropropane	106
1,4-Dioxane	107
Bromodichloromethane	108
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	108
Toluene	104
trans-1,3-Dichloropropene	111

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0909582-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b092802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/28/09 10:01 AM**	

Compound	%Recovery
1,1,2-Trichloroethane	107
Tetrachloroethene	107
2-Hexanone	107
Dibromochloromethane	112
1,2-Dibromoethane (EDB)	107
Chlorobenzene	106
Ethyl Benzene	107
m,p-Xylene	106
o-Xylene	105
Styrene	110
Bromoform	113
Cumene	105
1,1,2,2-Tetrachloroethane	104
Propylbenzene	102
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	109
1,2-Dichlorobenzene	95
1,2,4-Trichlorobenzene	76
Hexachlorobutadiene	77

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0909582-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b092803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/28/09 10:30 AM**	

Compound	%Recovery
Freon 12	103
Freon 114	105
Chloromethane	101
Vinyl Chloride	106
1,3-Butadiene	98
Bromomethane	101
Chloroethane	112
Freon 11	98
Ethanol	82
Freon 113	120
1,1-Dichloroethene	112
Acetone	124
2-Propanol	101
Carbon Disulfide	106
3-Chloropropene	112
Methylene Chloride	110
Methyl tert-butyl ether	124
trans-1,2-Dichloroethene	107
Hexane	105
1,1-Dichloroethane	108
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	105
Tetrahydrofuran	102
Chloroform	106
1,1,1-Trichloroethane	104
Cyclohexane	104
Carbon Tetrachloride	106
2,2,4-Trimethylpentane	104
Benzene	108
1,2-Dichloroethane	104
Heptane	106
Trichloroethene	104
1,2-Dichloropropane	104
1,4-Dioxane	102
Bromodichloromethane	103
cis-1,3-Dichloropropene	102
4-Methyl-2-pentanone	103
Toluene	107
trans-1,3-Dichloropropene	104

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0909582-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b092803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/28/09 10:30 AM**	

Compound	%Recovery
1,1,2-Trichloroethane	105
Tetrachloroethene	106
2-Hexanone	89
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	100
Chlorobenzene	102
Ethyl Benzene	102
m,p-Xylene	102
o-Xylene	102
Styrene	98
Bromoform	108
Cumene	104
1,1,2,2-Tetrachloroethane	101
Propylbenzene	102
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	91
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	95
1,2,4-Trichlorobenzene	86
Hexachlorobutadiene	83

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

7/23/2009
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Landfil
Project #: 84411
Workorder #: 0907320

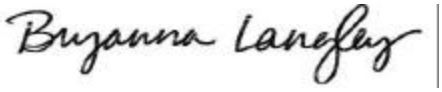
Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 7/16/2009 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 you air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Bryanna Langley at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Bryanna Langley
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0907320

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 Stratham, NH 03885
PHONE:	603-778-1100	**P.O. #**	1368
FAX:	603-778-2121	**PROJECT #**	84411 Dover Landfil
DATE RECEIVED:	07/16/2009	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	07/23/2009		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	LineC-Stack-071409	Modified TO-15	Tedlar Bag	Tedlar Bag
02A	LineA-Stack-071409	Modified TO-15	Tedlar Bag	Tedlar Bag
03A	LineB-Stack-071509	Modified TO-15	Tedlar Bag	Tedlar Bag
04A	LineD-Stack-071509	Modified TO-15	Tedlar Bag	Tedlar Bag
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda L. Truman DATE: 07/23/09

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
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: 07/01/08, Expiration date: 06/30/09
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 0907320

Four 1 Liter Tedlar Bag samples were received on July 16, 2009. The laboratory performed analysis via modified 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.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-15*	*ATL Modifications*
Daily CCV	</= 30% Difference	</= 30% Difference; Compounds exceeding this criterion and associated data are flagged and narrated.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The reported results for 2-Butanone in sample LineD-Stack-071509 and Cyclohexane in all of the samples may be biased high due to co-elution with a non target compound with similar characteristic ions.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: LineC-Stack-071409

Lab ID#: 0907320-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	500	21000	1300	54000
Chloroethane	500	2100	1300	5600
Freon 11	500	7900	2800	44000
Freon 113	500	4300	3800	33000
1,1-Dichloroethene	500	790	2000	3100
Acetone	2000	2800	4800	6800
Methylene Chloride	500	52000	1700	180000
trans-1,2-Dichloroethene	500	630	2000	2500
Hexane	500	2300	1800	8200
1,1-Dichloroethane	500	10000	2000	42000
2-Butanone (Methyl Ethyl Ketone)	500	8600	1500	25000
cis-1,2-Dichloroethene	500	230000	2000	900000
1,1,1-Trichloroethane	500	16000	2700	86000
Cyclohexane	500	1500	1700	5100
Heptane	500	4100	2000	17000
Trichloroethene	500	11000	2700	59000
4-Methyl-2-pentanone	500	2600	2000	11000
Toluene	500	160000	1900	620000
Tetrachloroethene	500	84000	3400	570000
Ethyl Benzene	500	15000	2200	66000
m,p-Xylene	500	42000	2200	180000
o-Xylene	500	11000	2200	49000
Cumene	500	860	2400	4200
Propylbenzene	500	1200	2400	5900
4-Ethyltoluene	500	5100	2400	25000
1,3,5-Trimethylbenzene	500	1800	2400	8600
1,2,4-Trimethylbenzene	500	4200	2400	21000

Client Sample ID: LineA-Stack-071409

Lab ID#: 0907320-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	250	21000	640	53000
Chloroethane	250	2400	660	6400
Freon 11	250	6300	1400	36000
Freon 113	250	2100	1900	16000

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: LineA-Stack-071409

Lab ID#: 0907320-02A

1,1-Dichloroethene	250	620	990	2500
Acetone	1000	2700	2400	6400
2-Propanol	1000	980 J	2400	2400 J
Methylene Chloride	250	46000	870	160000
trans-1,2-Dichloroethene	250	540	990	2200
Hexane	250	2500	880	8900
1,1-Dichloroethane	250	9300	1000	38000
2-Butanone (Methyl Ethyl Ketone)	250	8400	740	25000
cis-1,2-Dichloroethene	250	200000	990	790000
1,1,1-Trichloroethane	250	10000	1400	57000
Cyclohexane	250	1300	860	4500
Benzene	250	250	800	810
Heptane	250	3900	1000	16000
Trichloroethene	250	10000	1300	53000
4-Methyl-2-pentanone	250	2800	1000	11000
Toluene	250	140000	940	530000
Tetrachloroethene	250	76000	1700	520000
Ethyl Benzene	250	14000	1100	61000
m,p-Xylene	250	38000	1100	160000
o-Xylene	250	10000	1100	45000
Cumene	250	810	1200	4000
Propylbenzene	250	1200	1200	5700
4-Ethyltoluene	250	4800	1200	24000
1,3,5-Trimethylbenzene	250	1700	1200	8300
1,2,4-Trimethylbenzene	250	4100	1200	20000

Client Sample ID: LineB-Stack-071509

Lab ID#: 0907320-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	250	18000	640	47000
Chloroethane	250	2000	660	5400
Freon 11	250	4700	1400	26000
Freon 113	250	8000	1900	61000
1,1-Dichloroethene	250	600	990	2400
Acetone	1000	2600	2400	6100
Methylene Chloride	250	39000	870	140000
trans-1,2-Dichloroethene	250	500	990	2000

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: LineB-Stack-071509

Lab ID#: 0907320-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	250	2100	880	7500
1,1-Dichloroethane	250	8400	1000	34000
2-Butanone (Methyl Ethyl Ketone)	250	9200	740	27000
cis-1,2-Dichloroethene	250	180000	990	720000
1,1,1-Trichloroethane	250	14000	1400	78000
Cyclohexane	250	1300	860	4300
Heptane	250	3400	1000	14000
Trichloroethene	250	9400	1300	51000
4-Methyl-2-pentanone	250	2600	1000	11000
Toluene	250	130000	940	500000
Tetrachloroethene	250	72000	1700	490000
Ethyl Benzene	250	13000	1100	57000
m,p-Xylene	250	35000	1100	150000
o-Xylene	250	9800	1100	42000
Cumene	250	770	1200	3800
Propylbenzene	250	1100	1200	5300
4-Ethyltoluene	250	4400	1200	22000
1,3,5-Trimethylbenzene	250	1500	1200	7600
1,2,4-Trimethylbenzene	250	3700	1200	18000

Client Sample ID: LineD-Stack-071509

Lab ID#: 0907320-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	250	21000	640	54000
Chloroethane	250	1800	660	4900
Freon 11	250	6700	1400	38000
Freon 113	250	6300	1900	48000
1,1-Dichloroethene	250	620	990	2500
Acetone	1000	2600	2400	6300
2-Propanol	1000	980 J	2400	2400 J
Methylene Chloride	250	43000	870	150000
trans-1,2-Dichloroethene	250	500	990	2000
Hexane	250	2500	880	8900
1,1-Dichloroethane	250	9200	1000	37000
2-Butanone (Methyl Ethyl Ketone)	250	10000	740	29000
cis-1,2-Dichloroethene	250	190000	990	740000
1,1,1-Trichloroethane	250	12000	1400	66000

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

Client Sample ID: LineD-Stack-071509

Lab ID#: 0907320-04A

Cyclohexane	250	1200	860	4300
Heptane	250	3500	1000	14000
Trichloroethene	250	9900	1300	53000
4-Methyl-2-pentanone	250	2700	1000	11000
Toluene	250	140000	940	510000
Tetrachloroethene	250	76000	1700	520000
Ethyl Benzene	250	13000	1100	58000
m,p-Xylene	250	36000	1100	160000
o-Xylene	250	10000	1100	43000
Cumene	250	750	1200	3700
Propylbenzene	250	1100	1200	5500
4-Ethyltoluene	250	4500	1200	22000
1,3,5-Trimethylbenzene	250	1600	1200	7700
1,2,4-Trimethylbenzene	250	3900	1200	19000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LineC-Stack-071409

Lab ID#: 0907320-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b071709**	**Date of Collection:**	**7/14/09 12:00:00 PM**
Dil. Factor:	**100**	**Date of Analysis:**	**7/17/09 01:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	500	Not Detected	2500	Not Detected
Freon 114	500	Not Detected	3500	Not Detected
Chloromethane	2000	Not Detected	4100	Not Detected
Vinyl Chloride	500	21000	1300	54000
1,3-Butadiene	500	Not Detected	1100	Not Detected
Bromomethane	500	Not Detected	1900	Not Detected
Chloroethane	500	2100	1300	5600
Freon 11	500	7900	2800	44000
Ethanol	2000	Not Detected	3800	Not Detected
Freon 113	500	4300	3800	33000
1,1-Dichloroethene	500	790	2000	3100
Acetone	2000	2800	4800	6800
2-Propanol	2000	Not Detected	4900	Not Detected
Carbon Disulfide	500	Not Detected	1600	Not Detected
3-Chloropropene	2000	Not Detected	6300	Not Detected
Methylene Chloride	500	52000	1700	180000
Methyl tert-butyl ether	500	Not Detected	1800	Not Detected
trans-1,2-Dichloroethene	500	630	2000	2500
Hexane	500	2300	1800	8200
1,1-Dichloroethane	500	10000	2000	42000
2-Butanone (Methyl Ethyl Ketone)	500	8600	1500	25000
cis-1,2-Dichloroethene	500	230000	2000	900000
Tetrahydrofuran	500	Not Detected	1500	Not Detected
Chloroform	500	Not Detected	2400	Not Detected
1,1,1-Trichloroethane	500	16000	2700	86000
Cyclohexane	500	1500	1700	5100
Carbon Tetrachloride	500	Not Detected	3100	Not Detected
2,2,4-Trimethylpentane	500	Not Detected	2300	Not Detected
Benzene	500	Not Detected	1600	Not Detected
1,2-Dichloroethane	500	Not Detected	2000	Not Detected
Heptane	500	4100	2000	17000
Trichloroethene	500	11000	2700	59000
1,2-Dichloropropane	500	Not Detected	2300	Not Detected
1,4-Dioxane	2000	Not Detected	7200	Not Detected
Bromodichloromethane	500	Not Detected	3400	Not Detected
cis-1,3-Dichloropropene	500	Not Detected	2300	Not Detected
4-Methyl-2-pentanone	500	2600	2000	11000
Toluene	500	160000	1900	620000
trans-1,3-Dichloropropene	500	Not Detected	2300	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LineC-Stack-071409

Lab ID#: 0907320-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b071709**	**Date of Collection: 7/14/09 12:00:00 PM**	
Dil. Factor:	**100**	**Date of Analysis: 7/17/09 01:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	500	Not Detected	2700	Not Detected
Tetrachloroethene	500	84000	3400	570000
2-Hexanone	2000	Not Detected	8200	Not Detected
Dibromochloromethane	500	Not Detected	4200	Not Detected
1,2-Dibromoethane (EDB)	500	Not Detected	3800	Not Detected
Chlorobenzene	500	Not Detected	2300	Not Detected
Ethyl Benzene	500	15000	2200	66000
m,p-Xylene	500	42000	2200	180000
o-Xylene	500	11000	2200	49000
Styrene	500	Not Detected	2100	Not Detected
Bromoform	500	Not Detected	5200	Not Detected
Cumene	500	860	2400	4200
1,1,2,2-Tetrachloroethane	500	Not Detected	3400	Not Detected
Propylbenzene	500	1200	2400	5900
4-Ethyltoluene	500	5100	2400	25000
1,3,5-Trimethylbenzene	500	1800	2400	8600
1,2,4-Trimethylbenzene	500	4200	2400	21000
1,3-Dichlorobenzene	500	Not Detected	3000	Not Detected
1,4-Dichlorobenzene	500	Not Detected	3000	Not Detected
alpha-Chlorotoluene	500	Not Detected	2600	Not Detected
1,2-Dichlorobenzene	500	Not Detected	3000	Not Detected
1,2,4-Trichlorobenzene	2000	Not Detected	15000	Not Detected
Hexachlorobutadiene	2000	Not Detected	21000	Not Detected

Container Type: 1 Liter Tedlar Bag

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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LineA-Stack-071409

Lab ID#: 0907320-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b071710**	**Date of Collection: 7/14/09 4:00:00 PM**	
Dil. Factor:	**50.0**	**Date of Analysis: 7/17/09 01:35 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	250	Not Detected	1200	Not Detected
Freon 114	250	Not Detected	1700	Not Detected
Chloromethane	1000	Not Detected	2100	Not Detected
Vinyl Chloride	250	21000	640	53000
1,3-Butadiene	250	Not Detected	550	Not Detected
Bromomethane	250	Not Detected	970	Not Detected
Chloroethane	250	2400	660	6400
Freon 11	250	6300	1400	36000
Ethanol	1000	Not Detected	1900	Not Detected
Freon 113	250	2100	1900	16000
1,1-Dichloroethene	250	620	990	2500
Acetone	1000	2700	2400	6400
2-Propanol	1000	980 J	2400	2400 J
Carbon Disulfide	250	Not Detected	780	Not Detected
3-Chloropropene	1000	Not Detected	3100	Not Detected
Methylene Chloride	250	46000	870	160000
Methyl tert-butyl ether	250	Not Detected	900	Not Detected
trans-1,2-Dichloroethene	250	540	990	2200
Hexane	250	2500	880	8900
1,1-Dichloroethane	250	9300	1000	38000
2-Butanone (Methyl Ethyl Ketone)	250	8400	740	25000
cis-1,2-Dichloroethene	250	200000	990	790000
Tetrahydrofuran	250	Not Detected	740	Not Detected
Chloroform	250	Not Detected	1200	Not Detected
1,1,1-Trichloroethane	250	10000	1400	57000
Cyclohexane	250	1300	860	4500
Carbon Tetrachloride	250	Not Detected	1600	Not Detected
2,2,4-Trimethylpentane	250	Not Detected	1200	Not Detected
Benzene	250	250	800	810
1,2-Dichloroethane	250	Not Detected	1000	Not Detected
Heptane	250	3900	1000	16000
Trichloroethene	250	10000	1300	53000
1,2-Dichloropropane	250	Not Detected	1200	Not Detected
1,4-Dioxane	1000	Not Detected	3600	Not Detected
Bromodichloromethane	250	Not Detected	1700	Not Detected
cis-1,3-Dichloropropene	250	Not Detected	1100	Not Detected
4-Methyl-2-pentanone	250	2800	1000	11000
Toluene	250	140000	940	530000
trans-1,3-Dichloropropene	250	Not Detected	1100	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LineA-Stack-071409

Lab ID#: 0907320-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b071710**	**Date of Collection: 7/14/09 4:00:00 PM**	
Dil. Factor:	**50.0**	**Date of Analysis: 7/17/09 01:35 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	250	Not Detected	1400	Not Detected
Tetrachloroethene	250	76000	1700	520000
2-Hexanone	1000	Not Detected	4100	Not Detected
Dibromochloromethane	250	Not Detected	2100	Not Detected
1,2-Dibromoethane (EDB)	250	Not Detected	1900	Not Detected
Chlorobenzene	250	Not Detected	1200	Not Detected
Ethyl Benzene	250	14000	1100	61000
m,p-Xylene	250	38000	1100	160000
o-Xylene	250	10000	1100	45000
Styrene	250	Not Detected	1100	Not Detected
Bromoform	250	Not Detected	2600	Not Detected
Cumene	250	810	1200	4000
1,1,2,2-Tetrachloroethane	250	Not Detected	1700	Not Detected
Propylbenzene	250	1200	1200	5700
4-Ethyltoluene	250	4800	1200	24000
1,3,5-Trimethylbenzene	250	1700	1200	8300
1,2,4-Trimethylbenzene	250	4100	1200	20000
1,3-Dichlorobenzene	250	Not Detected	1500	Not Detected
1,4-Dichlorobenzene	250	Not Detected	1500	Not Detected
alpha-Chlorotoluene	250	Not Detected	1300	Not Detected
1,2-Dichlorobenzene	250	Not Detected	1500	Not Detected
1,2,4-Trichlorobenzene	1000	Not Detected	7400	Not Detected
Hexachlorobutadiene	1000	Not Detected	11000	Not Detected

J = Estimated value.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LineB-Stack-071509

Lab ID#: 0907320-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b071711**	**Date of Collection:**	**7/15/09 12:10:00 PM**
Dil. Factor:	**50.0**	**Date of Analysis:**	**7/17/09 02:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	250	Not Detected	1200	Not Detected
Freon 114	250	Not Detected	1700	Not Detected
Chloromethane	1000	Not Detected	2100	Not Detected
Vinyl Chloride	250	18000	640	47000
1,3-Butadiene	250	Not Detected	550	Not Detected
Bromomethane	250	Not Detected	970	Not Detected
Chloroethane	250	2000	660	5400
Freon 11	250	4700	1400	26000
Ethanol	1000	Not Detected	1900	Not Detected
Freon 113	250	8000	1900	61000
1,1-Dichloroethene	250	600	990	2400
Acetone	1000	2600	2400	6100
2-Propanol	1000	Not Detected	2400	Not Detected
Carbon Disulfide	250	Not Detected	780	Not Detected
3-Chloropropene	1000	Not Detected	3100	Not Detected
Methylene Chloride	250	39000	870	140000
Methyl tert-butyl ether	250	Not Detected	900	Not Detected
trans-1,2-Dichloroethene	250	500	990	2000
Hexane	250	2100	880	7500
1,1-Dichloroethane	250	8400	1000	34000
2-Butanone (Methyl Ethyl Ketone)	250	9200	740	27000
cis-1,2-Dichloroethene	250	180000	990	720000
Tetrahydrofuran	250	Not Detected	740	Not Detected
Chloroform	250	Not Detected	1200	Not Detected
1,1,1-Trichloroethane	250	14000	1400	78000
Cyclohexane	250	1300	860	4300
Carbon Tetrachloride	250	Not Detected	1600	Not Detected
2,2,4-Trimethylpentane	250	Not Detected	1200	Not Detected
Benzene	250	Not Detected	800	Not Detected
1,2-Dichloroethane	250	Not Detected	1000	Not Detected
Heptane	250	3400	1000	14000
Trichloroethene	250	9400	1300	51000
1,2-Dichloropropane	250	Not Detected	1200	Not Detected
1,4-Dioxane	1000	Not Detected	3600	Not Detected
Bromodichloromethane	250	Not Detected	1700	Not Detected
cis-1,3-Dichloropropene	250	Not Detected	1100	Not Detected
4-Methyl-2-pentanone	250	2600	1000	11000
Toluene	250	130000	940	500000
trans-1,3-Dichloropropene	250	Not Detected	1100	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LineB-Stack-071509

Lab ID#: 0907320-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b071711**	**Date of Collection: 7/15/09 12:10:00 PM**	
Dil. Factor:	**50.0**	**Date of Analysis: 7/17/09 02:24 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	250	Not Detected	1400	Not Detected
Tetrachloroethene	250	72000	1700	490000
2-Hexanone	1000	Not Detected	4100	Not Detected
Dibromochloromethane	250	Not Detected	2100	Not Detected
1,2-Dibromoethane (EDB)	250	Not Detected	1900	Not Detected
Chlorobenzene	250	Not Detected	1200	Not Detected
Ethyl Benzene	250	13000	1100	57000
m,p-Xylene	250	35000	1100	150000
o-Xylene	250	9800	1100	42000
Styrene	250	Not Detected	1100	Not Detected
Bromoform	250	Not Detected	2600	Not Detected
Cumene	250	770	1200	3800
1,1,2,2-Tetrachloroethane	250	Not Detected	1700	Not Detected
Propylbenzene	250	1100	1200	5300
4-Ethyltoluene	250	4400	1200	22000
1,3,5-Trimethylbenzene	250	1500	1200	7600
1,2,4-Trimethylbenzene	250	3700	1200	18000
1,3-Dichlorobenzene	250	Not Detected	1500	Not Detected
1,4-Dichlorobenzene	250	Not Detected	1500	Not Detected
alpha-Chlorotoluene	250	Not Detected	1300	Not Detected
1,2-Dichlorobenzene	250	Not Detected	1500	Not Detected
1,2,4-Trichlorobenzene	1000	Not Detected	7400	Not Detected
Hexachlorobutadiene	1000	Not Detected	11000	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LineD-Stack-071509

Lab ID#: 0907320-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b071712**	**Date of Collection: 7/15/09 2:55:00 PM**	
Dil. Factor:	**50.0**	**Date of Analysis: 7/17/09 02:49 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	250	Not Detected	1200	Not Detected
Freon 114	250	Not Detected	1700	Not Detected
Chloromethane	1000	Not Detected	2100	Not Detected
Vinyl Chloride	250	21000	640	54000
1,3-Butadiene	250	Not Detected	550	Not Detected
Bromomethane	250	Not Detected	970	Not Detected
Chloroethane	250	1800	660	4900
Freon 11	250	6700	1400	38000
Ethanol	1000	Not Detected	1900	Not Detected
Freon 113	250	6300	1900	48000
1,1-Dichloroethene	250	620	990	2500
Acetone	1000	2600	2400	6300
2-Propanol	1000	980 J	2400	2400 J
Carbon Disulfide	250	Not Detected	780	Not Detected
3-Chloropropene	1000	Not Detected	3100	Not Detected
Methylene Chloride	250	43000	870	150000
Methyl tert-butyl ether	250	Not Detected	900	Not Detected
trans-1,2-Dichloroethene	250	500	990	2000
Hexane	250	2500	880	8900
1,1-Dichloroethane	250	9200	1000	37000
2-Butanone (Methyl Ethyl Ketone)	250	10000	740	29000
cis-1,2-Dichloroethene	250	190000	990	740000
Tetrahydrofuran	250	Not Detected	740	Not Detected
Chloroform	250	Not Detected	1200	Not Detected
1,1,1-Trichloroethane	250	12000	1400	66000
Cyclohexane	250	1200	860	4300
Carbon Tetrachloride	250	Not Detected	1600	Not Detected
2,2,4-Trimethylpentane	250	Not Detected	1200	Not Detected
Benzene	250	Not Detected	800	Not Detected
1,2-Dichloroethane	250	Not Detected	1000	Not Detected
Heptane	250	3500	1000	14000
Trichloroethene	250	9900	1300	53000
1,2-Dichloropropane	250	Not Detected	1200	Not Detected
1,4-Dioxane	1000	Not Detected	3600	Not Detected
Bromodichloromethane	250	Not Detected	1700	Not Detected
cis-1,3-Dichloropropene	250	Not Detected	1100	Not Detected
4-Methyl-2-pentanone	250	2700	1000	11000
Toluene	250	140000	940	510000
trans-1,3-Dichloropropene	250	Not Detected	1100	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LineD-Stack-071509

Lab ID#: 0907320-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b071712**	**Date of Collection: 7/15/09 2:55:00 PM**	
Dil. Factor:	**50.0**	**Date of Analysis: 7/17/09 02:49 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	250	Not Detected	1400	Not Detected
Tetrachloroethene	250	76000	1700	520000
2-Hexanone	1000	Not Detected	4100	Not Detected
Dibromochloromethane	250	Not Detected	2100	Not Detected
1,2-Dibromoethane (EDB)	250	Not Detected	1900	Not Detected
Chlorobenzene	250	Not Detected	1200	Not Detected
Ethyl Benzene	250	13000	1100	58000
m,p-Xylene	250	36000	1100	160000
o-Xylene	250	10000	1100	43000
Styrene	250	Not Detected	1100	Not Detected
Bromoform	250	Not Detected	2600	Not Detected
Cumene	250	750	1200	3700
1,1,2,2-Tetrachloroethane	250	Not Detected	1700	Not Detected
Propylbenzene	250	1100	1200	5500
4-Ethyltoluene	250	4500	1200	22000
1,3,5-Trimethylbenzene	250	1600	1200	7700
1,2,4-Trimethylbenzene	250	3900	1200	19000
1,3-Dichlorobenzene	250	Not Detected	1500	Not Detected
1,4-Dichlorobenzene	250	Not Detected	1500	Not Detected
alpha-Chlorotoluene	250	Not Detected	1300	Not Detected
1,2-Dichlorobenzene	250	Not Detected	1500	Not Detected
1,2,4-Trichlorobenzene	1000	Not Detected	7400	Not Detected
Hexachlorobutadiene	1000	Not Detected	11000	Not Detected

J = Estimated value.

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0907320-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b071705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 10:28 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	5.0	Not Detected	13	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)	5.0	Not Detected	15	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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0907320-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b071705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 10:28 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
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	100	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0907320-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**b071702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 08:37 AM**	

Compound	%Recovery
Freon 12	93
Freon 114	100
Chloromethane	96
Vinyl Chloride	100
1,3-Butadiene	102
Bromomethane	100
Chloroethane	102
Freon 11	96
Ethanol	114
Freon 113	108
1,1-Dichloroethene	104
Acetone	102
2-Propanol	91
Carbon Disulfide	106
3-Chloropropene	105
Methylene Chloride	104
Methyl tert-butyl ether	122
trans-1,2-Dichloroethene	108
Hexane	109
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	106
cis-1,2-Dichloroethene	99
Tetrahydrofuran	102
Chloroform	100
1,1,1-Trichloroethane	95
Cyclohexane	107
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	109
Benzene	102
1,2-Dichloroethane	97
Heptane	110
Trichloroethene	100
1,2-Dichloropropane	102
1,4-Dioxane	102
Bromodichloromethane	106
cis-1,3-Dichloropropene	97
4-Methyl-2-pentanone	109
Toluene	106
trans-1,3-Dichloropropene	95

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0907320-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**b071702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 08:37 AM**	

Compound	%Recovery
1,1,2-Trichloroethane	100
Tetrachloroethene	102
2-Hexanone	103
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	98
Chlorobenzene	99
Ethyl Benzene	98
m,p-Xylene	100
o-Xylene	101
Styrene	105
Bromoform	108
Cumene	101
1,1,2,2-Tetrachloroethane	101
Propylbenzene	111
4-Ethyltoluene	112
1,3,5-Trimethylbenzene	96
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	97
1,2,4-Trichlorobenzene	85
Hexachlorobutadiene	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0907320-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**b071704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 10:05 AM**	

Compound	%Recovery
Freon 12	92
Freon 114	99
Chloromethane	94
Vinyl Chloride	102
1,3-Butadiene	99
Bromomethane	103
Chloroethane	103
Freon 11	95
Ethanol	70
Freon 113	109
1,1-Dichloroethene	108
Acetone	103
2-Propanol	102
Carbon Disulfide	102
3-Chloropropene	98
Methylene Chloride	105
Methyl tert-butyl ether	111
trans-1,2-Dichloroethene	100
Hexane	100
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	102
Tetrahydrofuran	93
Chloroform	101
1,1,1-Trichloroethane	98
Cyclohexane	98
Carbon Tetrachloride	96
2,2,4-Trimethylpentane	99
Benzene	104
1,2-Dichloroethane	99
Heptane	101
Trichloroethene	103
1,2-Dichloropropane	105
1,4-Dioxane	97
Bromodichloromethane	100
cis-1,3-Dichloropropene	105
4-Methyl-2-pentanone	103
Toluene	108
trans-1,3-Dichloropropene	103

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0907320-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**b071704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/17/09 10:05 AM**	

Compound	%Recovery
1,1,2-Trichloroethane	104
Tetrachloroethene	103
2-Hexanone	103
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	100
Chlorobenzene	101
Ethyl Benzene	102
m,p-Xylene	103
o-Xylene	104
Styrene	112
Bromoform	103
Cumene	102
1,1,2,2-Tetrachloroethane	106
Propylbenzene	101
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	97
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	122
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	107
Hexachlorobutadiene	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

7/7/2009
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Landfill
Project #: 84411
Workorder #: 0907120

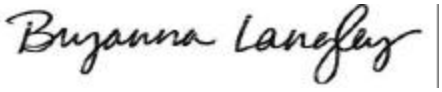
Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 7/7/2009 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 you air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Bryanna Langley at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Bryanna Langley
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0907120

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 Stratham, NH 03885
PHONE:	603-778-1100	**P.O. #**	1368
FAX:	603-778-2121	**PROJECT #**	84411 Dover Landfill
DATE RECEIVED:	07/07/2009	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	07/07/2009		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	Stack 070609	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

CERTIFIED BY: Linda L. Truman DATE: 07/07/09

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
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: 07/01/08, Expiration date: 06/30/09
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 0907120

One 1 Liter Tedlar Bag sample was received on July 07, 2009. The laboratory performed analysis via modified 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.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	</= 30% Difference	</= 30% Difference; Compounds exceeding this criterion and associated data are flagged and narrated.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: Stack 070609

Lab ID#: 0907120-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	250	13000	640	32000
Chloroethane	250	670	660	1800
Freon 11	250	1500	1400	8400
Freon 113	250	700	1900	5400
1,1-Dichloroethene	250	460	990	1800
Acetone	1000	1800	2400	4300
Methylene Chloride	250	40000	870	140000
trans-1,2-Dichloroethene	250	490	990	2000
Hexane	250	1800	880	6200
1,1-Dichloroethane	250	7400	1000	30000
2-Butanone (Methyl Ethyl Ketone)	250	7100	740	21000
cis-1,2-Dichloroethene	250	210000	990	830000
1,1,1-Trichloroethane	250	4000	1400	22000
Cyclohexane	250	960	860	3300
Heptane	250	2700	1000	11000
Trichloroethene	250	8500	1300	46000
4-Methyl-2-pentanone	250	2200	1000	9100
Toluene	250	120000	940	470000
Tetrachloroethene	250	58000	1700	390000
Ethyl Benzene	250	11000	1100	50000
m,p-Xylene	250	31000	1100	140000
o-Xylene	250	8400	1100	37000
Cumene	250	650	1200	3200
Propylbenzene	250	970	1200	4800
4-Ethyltoluene	250	4200	1200	20000
1,3,5-Trimethylbenzene	250	1400	1200	7200
1,2,4-Trimethylbenzene	250	3700	1200	18000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Stack 070609

Lab ID#: 0907120-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b070717**	**Date of Collection: 7/6/09 5:55:00 PM**	
Dil. Factor:	**50.0**	**Date of Analysis: 7/7/09 09:57 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	250	Not Detected	1200	Not Detected
Freon 114	250	Not Detected	1700	Not Detected
Chloromethane	1000	Not Detected	2100	Not Detected
Vinyl Chloride	250	13000	640	32000
1,3-Butadiene	250	Not Detected	550	Not Detected
Bromomethane	250	Not Detected	970	Not Detected
Chloroethane	250	670	660	1800
Freon 11	250	1500	1400	8400
Ethanol	1000	Not Detected	1900	Not Detected
Freon 113	250	700	1900	5400
1,1-Dichloroethene	250	460	990	1800
Acetone	1000	1800	2400	4300
2-Propanol	1000	Not Detected	2400	Not Detected
Carbon Disulfide	250	Not Detected	780	Not Detected
3-Chloropropene	1000	Not Detected	3100	Not Detected
Methylene Chloride	250	40000	870	140000
Methyl tert-butyl ether	250	Not Detected	900	Not Detected
trans-1,2-Dichloroethene	250	490	990	2000
Hexane	250	1800	880	6200
1,1-Dichloroethane	250	7400	1000	30000
2-Butanone (Methyl Ethyl Ketone)	250	7100	740	21000
cis-1,2-Dichloroethene	250	210000	990	830000
Tetrahydrofuran	250	Not Detected	740	Not Detected
Chloroform	250	Not Detected	1200	Not Detected
1,1,1-Trichloroethane	250	4000	1400	22000
Cyclohexane	250	960	860	3300
Carbon Tetrachloride	250	Not Detected	1600	Not Detected
2,2,4-Trimethylpentane	250	Not Detected	1200	Not Detected
Benzene	250	Not Detected	800	Not Detected
1,2-Dichloroethane	250	Not Detected	1000	Not Detected
Heptane	250	2700	1000	11000
Trichloroethene	250	8500	1300	46000
1,2-Dichloropropane	250	Not Detected	1200	Not Detected
1,4-Dioxane	1000	Not Detected	3600	Not Detected
Bromodichloromethane	250	Not Detected	1700	Not Detected
cis-1,3-Dichloropropene	250	Not Detected	1100	Not Detected
4-Methyl-2-pentanone	250	2200	1000	9100
Toluene	250	120000	940	470000
trans-1,3-Dichloropropene	250	Not Detected	1100	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Stack 070609

Lab ID#: 0907120-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b070717**	**Date of Collection: 7/6/09 5:55:00 PM**	
Dil. Factor:	**50.0**	**Date of Analysis: 7/7/09 09:57 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	250	Not Detected	1400	Not Detected
Tetrachloroethene	250	58000	1700	390000
2-Hexanone	1000	Not Detected	4100	Not Detected
Dibromochloromethane	250	Not Detected	2100	Not Detected
1,2-Dibromoethane (EDB)	250	Not Detected	1900	Not Detected
Chlorobenzene	250	Not Detected	1200	Not Detected
Ethyl Benzene	250	11000	1100	50000
m,p-Xylene	250	31000	1100	140000
o-Xylene	250	8400	1100	37000
Styrene	250	Not Detected	1100	Not Detected
Bromoform	250	Not Detected	2600	Not Detected
Cumene	250	650	1200	3200
1,1,2,2-Tetrachloroethane	250	Not Detected	1700	Not Detected
Propylbenzene	250	970	1200	4800
4-Ethyltoluene	250	4200	1200	20000
1,3,5-Trimethylbenzene	250	1400	1200	7200
1,2,4-Trimethylbenzene	250	3700	1200	18000
1,3-Dichlorobenzene	250	Not Detected	1500	Not Detected
1,4-Dichlorobenzene	250	Not Detected	1500	Not Detected
alpha-Chlorotoluene	250	Not Detected	1300	Not Detected
1,2-Dichlorobenzene	250	Not Detected	1500	Not Detected
1,2,4-Trichlorobenzene	1000	Not Detected	7400	Not Detected
Hexachlorobutadiene	1000	Not Detected	11000	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0907120-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b070707**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/7/09 01:43 PM**	

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	5.0	Not Detected	13	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)	5.0	Not Detected	15	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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0907120-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b070707**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/7/09 01:43 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
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	96	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0907120-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b070703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/7/09 11:35 AM**	

Compound	%Recovery
Freon 12	103
Freon 114	101
Chloromethane	100
Vinyl Chloride	105
1,3-Butadiene	104
Bromomethane	100
Chloroethane	104
Freon 11	98
Ethanol	117
Freon 113	110
1,1-Dichloroethene	107
Acetone	104
2-Propanol	96
Carbon Disulfide	108
3-Chloropropene	110
Methylene Chloride	108
Methyl tert-butyl ether	130
trans-1,2-Dichloroethene	107
Hexane	113
1,1-Dichloroethane	106
2-Butanone (Methyl Ethyl Ketone)	110
cis-1,2-Dichloroethene	100
Tetrahydrofuran	106
Chloroform	102
1,1,1-Trichloroethane	99
Cyclohexane	110
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	114
Benzene	103
1,2-Dichloroethane	98
Heptane	111
Trichloroethene	102
1,2-Dichloropropane	104
1,4-Dioxane	106
Bromodichloromethane	108
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	111
Toluene	109
trans-1,3-Dichloropropene	101

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0907120-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b070703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/7/09 11:35 AM**	

Compound	%Recovery
1,1,2-Trichloroethane	106
Tetrachloroethene	106
2-Hexanone	114
Dibromochloromethane	112
1,2-Dibromoethane (EDB)	103
Chlorobenzene	104
Ethyl Benzene	105
m,p-Xylene	107
o-Xylene	108
Styrene	113
Bromoform	116
Cumene	108
1,1,2,2-Tetrachloroethane	110
Propylbenzene	121
4-Ethyltoluene	124
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	117
1,3-Dichlorobenzene	113
1,4-Dichlorobenzene	110
alpha-Chlorotoluene	118
1,2-Dichlorobenzene	113
1,2,4-Trichlorobenzene	122
Hexachlorobutadiene	122

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0907120-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b070705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/7/09 12:32 PM**	

Compound	%Recovery
Freon 12	85
Freon 114	89
Chloromethane	86
Vinyl Chloride	92
1,3-Butadiene	90
Bromomethane	91
Chloroethane	93
Freon 11	87
Ethanol	63
Freon 113	98
1,1-Dichloroethene	98
Acetone	93
2-Propanol	93
Carbon Disulfide	91
3-Chloropropene	86
Methylene Chloride	95
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	90
Hexane	91
1,1-Dichloroethane	94
2-Butanone (Methyl Ethyl Ketone)	91
cis-1,2-Dichloroethene	92
Tetrahydrofuran	84
Chloroform	91
1,1,1-Trichloroethane	89
Cyclohexane	88
Carbon Tetrachloride	78
2,2,4-Trimethylpentane	90
Benzene	92
1,2-Dichloroethane	89
Heptane	89
Trichloroethene	91
1,2-Dichloropropane	93
1,4-Dioxane	86
Bromodichloromethane	88
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	92
Toluene	96
trans-1,3-Dichloropropene	93

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0907120-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b070705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/7/09 12:32 PM**	

Compound	%Recovery
1,1,2-Trichloroethane	93
Tetrachloroethene	92
2-Hexanone	93
Dibromochloromethane	90
1,2-Dibromoethane (EDB)	91
Chlorobenzene	92
Ethyl Benzene	91
m,p-Xylene	94
o-Xylene	96
Styrene	103
Bromoform	94
Cumene	96
1,1,2,2-Tetrachloroethane	99
Propylbenzene	96
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	96
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	118
1,2-Dichlorobenzene	103
1,2,4-Trichlorobenzene	136 Q
Hexachlorobutadiene	141 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

9/10/2009
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Landfill
Project #: 84411
Workorder #: 0908497

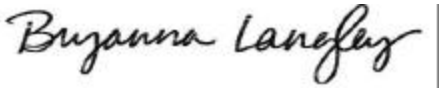
Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 8/24/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 (5&20 ppbv) 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: Bryanna Langley at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Bryanna Langley
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0908497

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 Stratham, NH 03885
PHONE:	603-778-1100	**P.O. #**	1448
FAX:	603-778-2121	**PROJECT #**	84411 Dover Landfill
DATE RECEIVED:	08/24/2009	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	09/10/2009		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SVE Discharge Stack-082109	Modified TO-15 (5&20 ppbv)	Tedlar Bag	Tedlar Bag
02A	Lab Blank	Modified TO-15 (5&20 ppbv)	NA	NA
03A	CCV	Modified TO-15 (5&20 ppbv)	NA	NA
04A	LCS	Modified TO-15 (5&20 ppbv)	NA	NA

CERTIFIED BY: Linda J. Fruman DATE: 09/10/09

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
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: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 Soil Gas
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 0908497

One 1 Liter Tedlar Bag sample was received on August 24, 2009. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit failures 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 QC analyses have not been flagged.

Sample SVE Discharge Stack-082109 was transferred from a Tedlar bag into a summa canister to extend the hold time from 3 days to 14 days. Canister pressurization resulted in a dilution factor which was applied to all analytical results.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction no

performed).

J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: SVE Discharge Stack-082109

Lab ID#: 0908497-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1100	6600	2800	17000
Freon 11	1100	3400	6100	19000
Freon 113	1100	1600	8300	12000
Methylene Chloride	1100	65000	3800	220000
Hexane	1100	2300	3800	8100
1,1-Dichloroethane	1100	13000	4400	54000
2-Butanone (Methyl Ethyl Ketone)	1100	7300	3200	21000
cis-1,2-Dichloroethene	1100	200000	4300	790000
1,1,1-Trichloroethane	1100	26000	5900	140000
Heptane	1100	3700	4400	15000
Trichloroethene	1100	12000	5800	68000
4-Methyl-2-pentanone	1100	2300	4400	9400
Toluene	1100	190000	4100	730000
Tetrachloroethene	1100	140000	7300	930000
Ethyl Benzene	1100	17000	4700	73000
m,p-Xylene	1100	53000	4700	230000
o-Xylene	1100	16000	4700	68000
Cumene	1100	1200	5300	5800
Propylbenzene	1100	1900	5300	9200
4-Ethyltoluene	1100	8000	5300	39000
1,3,5-Trimethylbenzene	1100	3000	5300	15000
1,2,4-Trimethylbenzene	1100	6300	5300	31000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVE Discharge Stack-082109

Lab ID#: 0908497-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b090317**	**Date of Collection:**	**8/21/09 3:21:00 PM**
Dil. Factor:	**216**	**Date of Analysis:**	**9/3/09 08:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1100	Not Detected	5300	Not Detected
Freon 114	1100	Not Detected	7600	Not Detected
Chloromethane	4300	Not Detected	8900	Not Detected
Vinyl Chloride	1100	6600	2800	17000
1,3-Butadiene	1100	Not Detected	2400	Not Detected
Bromomethane	1100	Not Detected	4200	Not Detected
Chloroethane	1100	Not Detected	2800	Not Detected
Freon 11	1100	3400	6100	19000
Ethanol	4300	Not Detected	8100	Not Detected
Freon 113	1100	1600	8300	12000
1,1-Dichloroethene	1100	Not Detected	4300	Not Detected
Acetone	4300	Not Detected	10000	Not Detected
2-Propanol	4300	Not Detected	11000	Not Detected
Carbon Disulfide	1100	Not Detected	3400	Not Detected
3-Chloropropene	4300	Not Detected	14000	Not Detected
Methylene Chloride	1100	65000	3800	220000
Methyl tert-butyl ether	1100	Not Detected	3900	Not Detected
trans-1,2-Dichloroethene	1100	Not Detected	4300	Not Detected
Hexane	1100	2300	3800	8100
1,1-Dichloroethane	1100	13000	4400	54000
2-Butanone (Methyl Ethyl Ketone)	1100	7300	3200	21000
cis-1,2-Dichloroethene	1100	200000	4300	790000
Tetrahydrofuran	1100	Not Detected	3200	Not Detected
Chloroform	1100	Not Detected	5300	Not Detected
1,1,1-Trichloroethane	1100	26000	5900	140000
Cyclohexane	1100	Not Detected	3700	Not Detected
Carbon Tetrachloride	1100	Not Detected	6800	Not Detected
2,2,4-Trimethylpentane	1100	Not Detected	5000	Not Detected
Benzene	1100	Not Detected	3400	Not Detected
1,2-Dichloroethane	1100	Not Detected	4400	Not Detected
Heptane	1100	3700	4400	15000
Trichloroethene	1100	12000	5800	68000
1,2-Dichloropropane	1100	Not Detected	5000	Not Detected
1,4-Dioxane	4300	Not Detected	16000	Not Detected
Bromodichloromethane	1100	Not Detected	7200	Not Detected
cis-1,3-Dichloropropene	1100	Not Detected	4900	Not Detected
4-Methyl-2-pentanone	1100	2300	4400	9400
Toluene	1100	190000	4100	730000
trans-1,3-Dichloropropene	1100	Not Detected	4900	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVE Discharge Stack-082109

Lab ID#: 0908497-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b090317**	**Date of Collection:**	**8/21/09 3:21:00 PM**
Dil. Factor:	**216**	**Date of Analysis:**	**9/3/09 08:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1100	Not Detected	5900	Not Detected
Tetrachloroethene	1100	140000	7300	930000
2-Hexanone	4300	Not Detected	18000	Not Detected
Dibromochloromethane	1100	Not Detected	9200	Not Detected
1,2-Dibromoethane (EDB)	1100	Not Detected	8300	Not Detected
Chlorobenzene	1100	Not Detected	5000	Not Detected
Ethyl Benzene	1100	17000	4700	73000
m,p-Xylene	1100	53000	4700	230000
o-Xylene	1100	16000	4700	68000
Styrene	1100	Not Detected	4600	Not Detected
Bromoform	1100	Not Detected	11000	Not Detected
Cumene	1100	1200	5300	5800
1,1,2,2-Tetrachloroethane	1100	Not Detected	7400	Not Detected
Propylbenzene	1100	1900	5300	9200
4-Ethyltoluene	1100	8000	5300	39000
1,3,5-Trimethylbenzene	1100	3000	5300	15000
1,2,4-Trimethylbenzene	1100	6300	5300	31000
1,3-Dichlorobenzene	1100	Not Detected	6500	Not Detected
1,4-Dichlorobenzene	1100	Not Detected	6500	Not Detected
alpha-Chlorotoluene	1100	Not Detected	5600	Not Detected
1,2-Dichlorobenzene	1100	Not Detected	6500	Not Detected
1,2,4-Trichlorobenzene	4300	Not Detected	32000	Not Detected
Hexachlorobutadiene	4300	Not Detected	46000	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0908497-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b090307**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/3/09 12:41 PM**	

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	5.0	Not Detected	13	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)	5.0	Not Detected	15	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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0908497-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b090307**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/3/09 12:41 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
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	102	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0908497-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b090304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/3/09 11:02 AM**	

Compound	%Recovery
Freon 12	101
Freon 114	100
Chloromethane	96
Vinyl Chloride	100
1,3-Butadiene	99
Bromomethane	102
Chloroethane	106
Freon 11	101
Ethanol	107
Freon 113	103
1,1-Dichloroethene	102
Acetone	96
2-Propanol	101
Carbon Disulfide	100
3-Chloropropene	107
Methylene Chloride	100
Methyl tert-butyl ether	133 Q
trans-1,2-Dichloroethene	99
Hexane	99
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	100
Tetrahydrofuran	97
Chloroform	101
1,1,1-Trichloroethane	102
Cyclohexane	100
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	102
Benzene	103
1,2-Dichloroethane	106
Heptane	102
Trichloroethene	99
1,2-Dichloropropane	102
1,4-Dioxane	98
Bromodichloromethane	104
cis-1,3-Dichloropropene	105
4-Methyl-2-pentanone	102
Toluene	100
trans-1,3-Dichloropropene	106

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0908497-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b090304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/3/09 11:02 AM**	

Compound	%Recovery
1,1,2-Trichloroethane	100
Tetrachloroethene	100
2-Hexanone	100
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	101
Chlorobenzene	99
Ethyl Benzene	99
m,p-Xylene	100
o-Xylene	99
Styrene	104
Bromoform	106
Cumene	100
1,1,2,2-Tetrachloroethane	98
Propylbenzene	98
4-Ethyltoluene	94
1,3,5-Trimethylbenzene	95
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	91
1,4-Dichlorobenzene	91
alpha-Chlorotoluene	103
1,2-Dichlorobenzene	88
1,2,4-Trichlorobenzene	74
Hexachlorobutadiene	74

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0908497-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b090306**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/3/09 12:01 PM**	

Compound	%Recovery
Freon 12	114
Freon 114	111
Chloromethane	113
Vinyl Chloride	111
1,3-Butadiene	110
Bromomethane	115
Chloroethane	114
Freon 11	112
Ethanol	91
Freon 113	128
1,1-Dichloroethene	125
Acetone	124
2-Propanol	118
Carbon Disulfide	113
3-Chloropropene	125
Methylene Chloride	118
Methyl tert-butyl ether	143 Q
trans-1,2-Dichloroethene	115
Hexane	114
1,1-Dichloroethane	119
2-Butanone (Methyl Ethyl Ketone)	115
cis-1,2-Dichloroethene	117
Tetrahydrofuran	110
Chloroform	115
1,1,1-Trichloroethane	117
Cyclohexane	112
Carbon Tetrachloride	118
2,2,4-Trimethylpentane	115
Benzene	117
1,2-Dichloroethane	117
Heptane	112
Trichloroethene	110
1,2-Dichloropropane	112
1,4-Dioxane	111
Bromodichloromethane	113
cis-1,3-Dichloropropene	112
4-Methyl-2-pentanone	111
Toluene	116
trans-1,3-Dichloropropene	113

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0908497-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b090306**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/3/09 12:01 PM**	

Compound	%Recovery
1,1,2-Trichloroethane	110
Tetrachloroethene	113
2-Hexanone	106
Dibromochloromethane	116
1,2-Dibromoethane (EDB)	109
Chlorobenzene	111
Ethyl Benzene	110
m,p-Xylene	111
o-Xylene	111
Styrene	111
Bromoform	115
Cumene	115
1,1,2,2-Tetrachloroethane	108
Propylbenzene	112
4-Ethyltoluene	108
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	112
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	64 Q
Hexachlorobutadiene	64 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

8/18/2009
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Landfill
Project #: 84411
Workorder #: 0908316

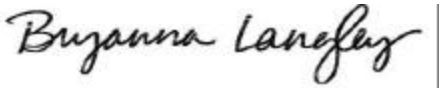
Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 8/15/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 (5&20 ppbv) 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: Bryanna Langley at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Bryanna Langley
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0908316

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 Stratham, NH 03885
PHONE:	603-778-1100	**P.O. #**	1368
FAX:	603-778-2121	**PROJECT #**	84411 Dover Landfill
DATE RECEIVED:	08/15/2009	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	08/18/2009		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	Stack-081409	Modified TO-15 (5&20 ppbv)	Tedlar Bag	Tedlar Bag
02A	Lab Blank	Modified TO-15 (5&20 ppbv)	NA	NA
03A	CCV	Modified TO-15 (5&20 ppbv)	NA	NA
04A	LCS	Modified TO-15 (5&20 ppbv)	NA	NA

CERTIFIED BY: Linda L. Fruman DATE: 08/18/09

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
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: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 0908316

One 1 Liter Tedlar Bag sample was received on August 15, 2009. The laboratory performed analysis via modified 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.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-15*	*ATL Modifications*
Daily CCV	</= 30% Difference	</= 30% Difference; Compounds exceeding this criterion and associated data are flagged and narrated.
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: Stack-081409

Lab ID#: 0908316-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	400	6000	1000	15000
Chloroethane	400	460	1000	1200
Freon 11	400	3500	2200	20000
Freon 113	400	1400	3100	10000
Acetone	1600	1700	3800	4200
Methylene Chloride	400	36000	1400	120000
trans-1,2-Dichloroethene	400	400	1600	1600
Hexane	400	1500	1400	5200
1,1-Dichloroethane	400	7600	1600	31000
2-Butanone (Methyl Ethyl Ketone)	400	7600	1200	22000
cis-1,2-Dichloroethene	400	130000	1600	500000
1,1,1-Trichloroethane	400	13000	2200	69000
Cyclohexane	400	760	1400	2600
Heptane	400	2400	1600	9900
Trichloroethene	400	8900	2100	48000
4-Methyl-2-pentanone	400	1900	1600	7800
Toluene	400	100000	1500	400000
Tetrachloroethene	400	68000	2700	460000
Ethyl Benzene	400	8600	1700	37000
m,p-Xylene	400	25000	1700	110000
o-Xylene	400	7200	1700	31000
Cumene	400	550	2000	2700
Propylbenzene	400	680	2000	3400
4-Ethyltoluene	400	2800	2000	14000
1,3,5-Trimethylbenzene	400	1100	2000	5400
1,2,4-Trimethylbenzene	400	2200	2000	11000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Stack-081409

Lab ID#: 0908316-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t081710a**	**Date of Collection:**	**8/14/09 4:00:00 PM**
Dil. Factor:	**800**	**Date of Analysis:**	**8/17/09 02:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	400	Not Detected	2000	Not Detected
Freon 114	400	Not Detected	2800	Not Detected
Chloromethane	1600	Not Detected	3300	Not Detected
Vinyl Chloride	400	6000	1000	15000
1,3-Butadiene	400	Not Detected	880	Not Detected
Bromomethane	400	Not Detected	1600	Not Detected
Chloroethane	400	460	1000	1200
Freon 11	400	3500	2200	20000
Ethanol	1600	Not Detected	3000	Not Detected
Freon 113	400	1400	3100	10000
1,1-Dichloroethene	400	Not Detected	1600	Not Detected
Acetone	1600	1700	3800	4200
2-Propanol	1600	Not Detected	3900	Not Detected
Carbon Disulfide	400	Not Detected	1200	Not Detected
3-Chloropropene	1600	Not Detected	5000	Not Detected
Methylene Chloride	400	36000	1400	120000
Methyl tert-butyl ether	400	Not Detected	1400	Not Detected
trans-1,2-Dichloroethene	400	400	1600	1600
Hexane	400	1500	1400	5200
1,1-Dichloroethane	400	7600	1600	31000
2-Butanone (Methyl Ethyl Ketone)	400	7600	1200	22000
cis-1,2-Dichloroethene	400	130000	1600	500000
Tetrahydrofuran	400	Not Detected	1200	Not Detected
Chloroform	400	Not Detected	2000	Not Detected
1,1,1-Trichloroethane	400	13000	2200	69000
Cyclohexane	400	760	1400	2600
Carbon Tetrachloride	400	Not Detected	2500	Not Detected
2,2,4-Trimethylpentane	400	Not Detected	1900	Not Detected
Benzene	400	Not Detected	1300	Not Detected
1,2-Dichloroethane	400	Not Detected	1600	Not Detected
Heptane	400	2400	1600	9900
Trichloroethene	400	8900	2100	48000
1,2-Dichloropropane	400	Not Detected	1800	Not Detected
1,4-Dioxane	1600	Not Detected	5800	Not Detected
Bromodichloromethane	400	Not Detected	2700	Not Detected
cis-1,3-Dichloropropene	400	Not Detected	1800	Not Detected
4-Methyl-2-pentanone	400	1900	1600	7800
Toluene	400	100000	1500	400000
trans-1,3-Dichloropropene	400	Not Detected	1800	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Stack-081409

Lab ID#: 0908316-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t081710a**	**Date of Collection: 8/14/09 4:00:00 PM**	
Dil. Factor:	**800**	**Date of Analysis: 8/17/09 02:12 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	400	Not Detected	2200	Not Detected
Tetrachloroethene	400	68000	2700	460000
2-Hexanone	1600	Not Detected	6600	Not Detected
Dibromochloromethane	400	Not Detected	3400	Not Detected
1,2-Dibromoethane (EDB)	400	Not Detected	3100	Not Detected
Chlorobenzene	400	Not Detected	1800	Not Detected
Ethyl Benzene	400	8600	1700	37000
m,p-Xylene	400	25000	1700	110000
o-Xylene	400	7200	1700	31000
Styrene	400	Not Detected	1700	Not Detected
Bromoform	400	Not Detected	4100	Not Detected
Cumene	400	550	2000	2700
1,1,2,2-Tetrachloroethane	400	Not Detected	2700	Not Detected
Propylbenzene	400	680	2000	3400
4-Ethyltoluene	400	2800	2000	14000
1,3,5-Trimethylbenzene	400	1100	2000	5400
1,2,4-Trimethylbenzene	400	2200	2000	11000
1,3-Dichlorobenzene	400	Not Detected	2400	Not Detected
1,4-Dichlorobenzene	400	Not Detected	2400	Not Detected
alpha-Chlorotoluene	400	Not Detected	2100	Not Detected
1,2-Dichlorobenzene	400	Not Detected	2400	Not Detected
1,2,4-Trichlorobenzene	1600	Not Detected	12000	Not Detected
Hexachlorobutadiene	1600	Not Detected	17000	Not Detected

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	116	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0908316-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t081705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/17/09 10:15 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	0.50	Not Detected	1.3	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	0.50	Not Detected	1.6	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)	0.50	Not Detected	1.5	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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0908316-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t081705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/17/09 10:15 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
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	98	70-130
1,2-Dichloroethane-d4	115	70-130
4-Bromofluorobenzene	114	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0908316-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t081702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/17/09 07:40 AM**	

Compound	%Recovery
Freon 12	108
Freon 114	90
Chloromethane	87
Vinyl Chloride	84
1,3-Butadiene	86
Bromomethane	89
Chloroethane	80
Freon 11	110
Ethanol	85
Freon 113	99
1,1-Dichloroethene	88
Acetone	81
2-Propanol	95
Carbon Disulfide	79
3-Chloropropene	81
Methylene Chloride	77
Methyl tert-butyl ether	103
trans-1,2-Dichloroethene	90
Hexane	87
1,1-Dichloroethane	93
2-Butanone (Methyl Ethyl Ketone)	88
cis-1,2-Dichloroethene	91
Tetrahydrofuran	84
Chloroform	103
1,1,1-Trichloroethane	114
Cyclohexane	88
Carbon Tetrachloride	119
2,2,4-Trimethylpentane	88
Benzene	87
1,2-Dichloroethane	117
Heptane	92
Trichloroethene	97
1,2-Dichloropropane	85
1,4-Dioxane	87
Bromodichloromethane	110
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	103
Toluene	91
trans-1,3-Dichloropropene	106

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0908316-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t081702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/17/09 07:40 AM**	

Compound	%Recovery
1,1,2-Trichloroethane	90
Tetrachloroethene	101
2-Hexanone	90
Dibromochloromethane	109
1,2-Dibromoethane (EDB)	100
Chlorobenzene	91
Ethyl Benzene	95
m,p-Xylene	96
o-Xylene	96
Styrene	101
Bromoform	115
Cumene	102
1,1,2,2-Tetrachloroethane	89
Propylbenzene	100
4-Ethyltoluene	89
1,3,5-Trimethylbenzene	123
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	83
Hexachlorobutadiene	83

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	122	70-130
4-Bromofluorobenzene	120	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0908316-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t081703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/17/09 08:26 AM**	

Compound	%Recovery
Freon 12	87
Freon 114	83
Chloromethane	75
Vinyl Chloride	70
1,3-Butadiene	77
Bromomethane	72
Chloroethane	66 Q
Freon 11	98
Ethanol	57 Q
Freon 113	96
1,1-Dichloroethene	89
Acetone	77
2-Propanol	93
Carbon Disulfide	75
3-Chloropropene	75
Methylene Chloride	82
Methyl tert-butyl ether	92
trans-1,2-Dichloroethene	82
Hexane	81
1,1-Dichloroethane	90
2-Butanone (Methyl Ethyl Ketone)	82
cis-1,2-Dichloroethene	83
Tetrahydrofuran	78
Chloroform	95
1,1,1-Trichloroethane	103
Cyclohexane	80
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	81
Benzene	83
1,2-Dichloroethane	110
Heptane	88
Trichloroethene	89
1,2-Dichloropropane	79
1,4-Dioxane	84
Bromodichloromethane	101
cis-1,3-Dichloropropene	89
4-Methyl-2-pentanone	100
Toluene	86
trans-1,3-Dichloropropene	96

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0908316-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**t081703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/17/09 08:26 AM**	

Compound	%Recovery
1,1,2-Trichloroethane	82
Tetrachloroethene	92
2-Hexanone	88
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	88
Chlorobenzene	82
Ethyl Benzene	83
m,p-Xylene	84
o-Xylene	86
Styrene	90
Bromoform	102
Cumene	92
1,1,2,2-Tetrachloroethane	77
Propylbenzene	88
4-Ethyltoluene	78
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	91
1,3-Dichlorobenzene	86
1,4-Dichlorobenzene	85
alpha-Chlorotoluene	91
1,2-Dichlorobenzene	85
1,2,4-Trichlorobenzene	57 Q
Hexachlorobutadiene	58 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	120	70-130
4-Bromofluorobenzene	112	70-130

Laboratory Report

RECEIVED
OCT 0 8 2009
BY:

Resource Laboratories, LLC
124 Heritage Avenue #10 Portsmouth, NH 03801

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

PO Number: 1500
LabID: 17713
Date Received: 9/29/09

Validated
10/8/09
J.C.

Project: Dover 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 Resource Laboratories, LLC Quality Assurance Plan. The Standard Operating Procedures (SOP) 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.

Resource Laboratories, LLC 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,
Resource Laboratories, LLC

J. Miller (for) 10/7/09

Susan Sylvester
Principal, General Manager

Date

Total number of pages 10

Resource Laboratories, LLC Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: Dover 84411
Lab ID: 17713
Lab Number: 17713-001
Sample ID: Carbon Inf
Matrix: Water
Sampled: 9/25/09 13:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Analysis Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
chloromethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
vinyl chloride	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
bromomethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
chloroethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
trichlorofluoromethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
diethyl ether	< 50	50	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
acetone	820	500	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
1,1-dichloroethene	< 10	10	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
methylene chloride	1300	50	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
carbon disulfide	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
methyl t-butyl ether (MTBE)	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
trans-1,2-dichloroethene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
1,1-dichloroethane	150	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
2-butanone (MEK)	1800	100	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
2,2-dichloropropane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
cis-1,2-dichloroethene	3500	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
chloroform	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
bromochloromethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
tetrahydrofuran (THF)	240	100	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
1,1,1-trichloroethane	120	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
1,1-dichloropropene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
carbon tetrachloride	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
1,2-dichloroethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
benzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
trichloroethene	190	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
1,2-dichloropropane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
bromodichloromethane	< 6	6	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
dibromomethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
4-methyl-2-pentanone (MIBK)	1100	100	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
cis-1,3-dichloropropene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
toluene	2400	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
trans-1,3-dichloropropene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
2-hexanone	150	100	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
1,1,2-trichloroethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
1,3-dichloropropane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
tetrachloroethene	1600	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
dibromochloromethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
1,2-dibromoethane (EDB)	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
chlorobenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
1,1,1,2-tetrachloroethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
ethylbenzene	61	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
m&p-xylenes	700	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
o-xylene	480	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B

Project ID: Dover 84411
Lab ID: 17713
Lab Number: 17713-001
Sample ID: Carbon Inf
Matrix: Water
Sampled: 9/25/09 13:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Analysis Batch	Analysis Date	Analysis Time	Reference
styrene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
bromoform	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
isopropylbenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
1,1,2,2-tetrachloroethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
1,2,3-trichloropropane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
n-propylbenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
bromobenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
1,3,5-trimethylbenzene	78	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
2-chlorotoluene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
4-chlorotoluene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
tert-butylbenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
1,2,4-trimethylbenzene	140	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
sec-butylbenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
1,3-dichlorobenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
4-isopropyltoluene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
1,4-dichlorobenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
1,2-dichlorobenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
n-butylbenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
1,2,4-trichlorobenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
hexachlorobutadiene	< 5.0	5.0	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
naphthalene	< 50	50	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
1,2,3-trichlorobenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	93	78-114	%	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
toluene-D8 SUR	98	88-110	%	10	LMM		0902700	10/6/09	11:02	SW5030B8260B
4-bromofluorobenzene SUR	100	86-115	%	10	LMM		0902700	10/6/09	11:02	SW5030B8260B

Project ID: Dover 84411
Lab ID: 17713
Lab Number: 17713-002
Sample ID: Carbon Eff
Matrix: Water
Sampled: 9/25/09 13:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Analysis Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
bromodichloromethane	< 1	1	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
chlorobenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
o-xylene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B

Project ID: Dover 84411
Lab ID: 17713
Lab Number: 17713-002
Sample ID: Carbon Eff
Matrix: Water
Sampled: 9/25/09 13:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Analysis Batch	Analysis Date	Analysis Time	Reference
styrene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	96	78-114	%	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
toluene-D8 SUR	96	88-110	%	1	LMM		0902691	10/5/09	20:59	SW5030B8260B
4-bromofluorobenzene SUR	94	86-115	%	1	LMM		0902691	10/5/09	20:59	SW5030B8260B

Project ID: Dover 84411
Lab ID: 17713
Lab Number: 17713-003
Sample ID: DUP-1
Matrix: Water
Sampled: 9/25/09 13:37

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Analysis Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
chloromethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
vinyl chloride	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
bromomethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
chloroethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
trichlorofluoromethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
diethyl ether	< 50	50	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
acetone	**820**	500	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
1,1-dichloroethene	< 10	10	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
methylene chloride	**1300**	50	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
carbon disulfide	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
methyl t-butyl ether (MTBE)	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
trans-1,2-dichloroethene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
1,1-dichloroethane	**140**	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
2-butanone (MEK)	**1800**	100	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
2,2-dichloropropane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
cis-1,2-dichloroethene	**3500**	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
chloroform	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
bromochloromethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
tetrahydrofuran (THF)	**240**	100	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
1,1,1-trichloroethane	**120**	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
1,1-dichloropropene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
carbon tetrachloride	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
1,2-dichloroethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
benzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
trichloroethene	**190**	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
1,2-dichloropropane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
bromodichloromethane	< 6	6	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
dibromomethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**1100**	100	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
cis-1,3-dichloropropene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
toluene	**2400**	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
trans-1,3-dichloropropene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
2-hexanone	**150**	100	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
1,1,2-trichloroethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
1,3-dichloropropane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
tetrachloroethene	**1500**	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
dibromochloromethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
1,2-dibromoethane (EDB)	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
chlorobenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
1,1,1,2-tetrachloroethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
ethylbenzene	**54**	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
m&p-xylenes	**630**	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
o-xylene	**430**	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B

Project ID: Dover 84411
Lab ID: 17713
Lab Number: 17713-003
Sample ID: DUP-1
Matrix: Water
Sampled: 9/25/09 13:37

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Analysis Batch	Analysis Date	Analysis Time	Reference
styrene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
bromoform	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
isopropylbenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
1,1,2,2-tetrachloroethane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
1,2,3-trichloropropane	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
n-propylbenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
bromobenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
1,3,5-trimethylbenzene	76	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
2-chlorotoluene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
4-chlorotoluene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
tert-butylbenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
1,2,4-trimethylbenzene	120	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
sec-butylbenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
1,3-dichlorobenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
4-isopropyltoluene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
1,4-dichlorobenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
1,2-dichlorobenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
n-butylbenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
1,2,4-trichlorobenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
hexachlorobutadiene	< 5.0	5.0	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
naphthalene	< 50	50	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
1,2,3-trichlorobenzene	< 20	20	ug/L	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
Surrogate Recovery		Limits								
dibromofluoromethane SUR	96	78-114	%	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
toluene-D8 SUR	100	88-110	%	10	LMM		0902700	10/6/09	11:36	SW5030B8260B
4-bromofluorobenzene SUR	94	86-115	%	10	LMM		0902700	10/6/09	11:36	SW5030B8260B

Project ID: Dover 84411
Lab ID: 17713
Lab Number: 17713-004
Sample ID: Trip Blank
Matrix: Water
Sampled: 9/25/09

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Analysis Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
bromodichloromethane	< 1	1	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
chlorobenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
o-xylene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B

Project ID: Dover 84411
Lab ID: 17713
Lab Number: 17713-004
Sample ID: Trip Blank
Matrix: Water
Sampled: 9/25/09

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Analysis Batch	Analysis Date	Analysis Time	Reference
styrene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	101	78-114	%	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
toluene-D8 SUR	95	88-110	%	1	LMM		0902691	10/5/09	12:28	SW5030B8260B
4-bromofluorobenzene SUR	97	86-115	%	1	LMM		0902691	10/5/09	12:28	SW5030B8260B

RL Resource Laboratories, LLC

124 Heritage Avenue • Portsmouth, NH 03801
Phone: 603-436-2001 • Fax: 603-430-2100

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

17713

Company Name: XDD, LLC

Company Address: 22 Marin Way #3 Stratham, NH 03885

Report To: Dennis Keane

Phone #: 603-778-1100

Invoice To: Mary Scudieri

Project Name: Dover

Project #: 84411

Project Location: (NH) MA ME VT Other

Protocol: (RCRA) SDWA NPDES MCP NHDES OTHER

Reporting Limits: QAPP GW-1 S-1 (EPA DW) Other

Quote #

PO # 1500

ANALYSIS REQUEST

- ☒ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP
- ☐ VOC 624 ☐ VOC BTEX ☐ MtBE, only
- ☐ VPH MADEP ☐ MEGRO ☐ GRO 8015
- ☐ VOC 524.2 ☐ VOC 524.2 NH List
- ☐ TPH ☐ DRO 8015 ☐ MEDRO ☐ EPH MADEP ☐ TPH Fingerprint
- ☐ 8270PAH ☐ 8270ABN ☐ 625 ☐ EDB 504.1
- ☐ 8082 PCB ☐ 8081 Pesticides ☐ 608 Pest/PCB
- ☐ O&G 1664 ☐ Mineral O&G SM5520F
- ☐ pH ☐ BOD ☐ Conductivity ☐ Turbidity
- ☐ TSS ☐ TDS ☐ TS ☐ TVS ☐ Alkalinity
- ☐ RCRA Metals ☐ Priority Pollutant Metals ☐ TAL Metals
- ☐ Total Metals-list
- ☐ Dissolved Metals-list
- ☐ Ammonia ☐ COD ☐ TKN ☐ TN ☐ TON
- ☐ T-Phosphorus ☐ Phenols ☐ Bacteria P/A
- ☐ Cyanide ☐ Sulfide ☐ Nitrate + Nitrite ☐ Ortho P
- ☐ Nitrate ☐ Nitrite ☐ Chloride ☐ Sulfate ☐ Bromide ☐ Fluoride
- ☐ Corrosivity ☐ Reactive CN ☐ Reactive S- ☐ Ignitibility/FP
- ☐ TCLP Metals ☐ TCLP VOC ☐ TCLP SVOC ☐ TCLP Pesticide
- Subcontract: ☐ TOC ☐ Grain Size ☐ TCLP Herbicides
- Grab (G) or Composite (C)

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	SOLID	OTHER	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER (Specify)	Sampling: DATE	TIME	SAMPLER*	VOC 8260
17713-01	Carbon Inf.	2	X			X						9-25-09	1330	MW	X
02	Carbon Eff.	2	X			X						9-25-09	1340	MW	X
03	DUP-1	2	X			X						9-25-09	1337	MW	X
04	Trip Blank	1	X			X									X

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TAT REQUESTED
- Priority (24 hr)** ☐
- Expedited (48 hr)** ☐
- Standard (10 Business Days) ☒
- **Date Needed

* See www.reslabs.com for sample acceptance policy and current accreditation lists.

SPECIAL INSTRUCTIONS

REPORTING INSTRUCTIONS ☐ NO HARD COPY REQUIRED ☐ FAX (FAX#) ☒ EXCEL SPREADSHEET
☒ PDF (e-mail address) Keane@xdd-llc.com ☐ OTHER (specify)

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 5 °C

CUSTODY RECORD

Relinquished by	Date	Time	Received by	Date	Time
Relinquished by Sampler: [signature]	9/25/09	1500	Cold Storage	9/25/09	1500
Cold Storage	9/29/09	1005			
Relinquished by:			Received by Laboratory: Joanne King; Way Bill#:	9/29/09	11:05

SUMMARY AND STATUS OF ACTIVITIES – Q3 – OCTOBER 10, 2009
ECOTOXICITY AND HUMAN HEALTH ASSESSMENT OF THE COCHECO RIVER
PRE-DESIGN INVESTIGATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

1. Summary of Activities

Sediment sample laboratory analytical results for total arsenic were received from Katahdin Analytical Services, Inc. and Resource Laboratories on July 29 and 20, 2009. Concentrations of arsenic in several of the samples were above the screening criteria. On August 5, 2009, GeoInsight authorized EnviroSystems, Inc. (ESI) to initiate the bioassays on the sediment samples using the *Hyalella azteca* and *Chironomous dilutus* organisms. On August 26, 2009, GeoInsight received preliminary data from ESI indicating that the 10-day *Hyalella azteca* assay met method acceptability criteria. On September 3, 2009, ESI notified GeoInsight that the 20-day *Chironomous dilutus* assay did not meet method acceptability criteria. On September 4, 2009, GeoInsight notified the agencies of the preliminary test results and requested that the *Chironomous dilutus* assay be re-run. On September 8, 2009, USEPA authorized GeoInsight to have ESI re-run the 20-day *Chironomous dilutus* assay.

2. Deliverables and Correspondence

The following deliverables were submitted or received by the agencies:

- On or about August 7, 2009, the Group forwarded to the agencies a summary table of sediment sample analytical results for total arsenic.

3. Schedule for Next Quarter

GeoInsight will prepare a report describing the results of the supplementary ecotoxicity sediment sampling event.

4. Status of Activities

GeoInsight is awaiting the preliminary results of the *Chironomous dilutus* assay and corresponding with ESI.

Reporting Schedule – The Group will prepare a summary of the bioassay results as these data become available.

5. Modifications

None.