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: April 10, 2010

RE: Quarterly Progress Report

Christene Binger

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Reason: I am approving this document
Date: 2010.04.14 17:22:03 -04'00'

REPORTING PERIOD:

_X_January to March – Due April 10th
___April to June – Due July 10th
___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 ongoing 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 January to March 2010. During this reporting period, activities were conducted associated with:

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

SDMS DocID 464402

- 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).

A master schedule of anticipated activities for 2010 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. On November 9, 2009, USEPA responded with approval and comments on the SCRD-WP. Comments were incorporated into a revised SCRD-WP that was submitted to the Agencies on January 8, 2010.

The Source Control 30% Remedial Design was submitted to the Agencies on March 9, 2010.

IV. COMMUNITY RELATIONS PLAN

Public meetings were not conducted during the first quarter of 2010.

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	4.5	4.0	8.5
Northwest Landfill Hotspot	0	17,600	17,600

VI. ATTACHMENTS

- Master Schedule of Anticipated Activities - Year 2010; and
- Summary and Status of Activities (three attachments).

SUMMARY AND STATUS OF ACTIVITIES – Q1 – APRIL 10, 2010
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

1. Summary of Activities

- preparation of the Annual Remedy Performance Report (attached);
- evaluation and planning of system modifications including moving the frac tank and the extraction well manifold, and adding totalizers on each effluent line;
- coordinating seasonal system start-up and baseline activities; and
- performing a comprehensive baseline gauging event on March 26, 2010.

2. Deliverables and Correspondence

Deliverables were not submitted or received by the agencies during this monitoring period.

3. Schedule for Next Quarter

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

- performing a comprehensive baseline monitoring event between April 1 and 5, 2010;
- seasonal system start-up – anticipated during the week of April 19, 2010;
- weekly system operation, monitoring, and maintenance activities;
- weekly and monthly sampling activities from wells and the frac tank, respectively;
- evaluation of alternative pump types; and
- on-going evaluation of system performance data.

4. Status of Activities

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

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

Remedy Design:	Completed.
Remedy Construction:	100 Percent Complete.
Remedy Implementation Status:	Second system operating season is complete.

Mass Removal 2008:	4.5 pounds
Mass Removal 2009 :	4.0 pounds
Total Mass Removal	**8.5 pounds**

5. Modifications

The timing for submittal of the Southern Plume Annual Performance Report was changed from the January 10th report to the April 10th report.

ANNUAL REMEDY PERFORMANCE REPORT

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

DATE: April 10, 2010
TO: Darryl Luce, USEPA; Andrew Hoffman, NHDES
FROM: Mike Webster, Christene Binger, and Kristin Zeman
RE: Periodic Remedy Performance Report – Implementation of 100 Percent Remedial Design, Southern Plume Management of Migration

REPORTING PERIOD

April to July_____ (Due October 10th)
August to November __X__ (Due April 10th)

A. INTRODUCTION

This Annual Remedy Performance (ARP) Report provides a summary of operation and maintenance activities associated with the Southern Plume ground water extraction (GWE) system for the period between September 1 and December 2, 2009, and includes an annual remedy performance and system optimization evaluation. 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. Section B of this report presents a summary of operational information for the period from September 1 to December 2, 2009. Section C presents monitoring data for the entire 2009 pumping season. Section D presents the annual remedy performance summary, and Section E presents optimization information.

B. ACTIVITIES (September 1 through December 2, 2009)

i. Pumping Periods

- GWE system operation between September 1 (last day of the previous reporting period) and December 1, 2009 (the end of the 2009 pumping season) included approximately three weeks of system downtime that was caused by a seized air compressor motor. Additionally, intermittent brief periods (i.e., hours to several days) of downtime were associated with pump maintenance and repair. 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 0.8 and 1.0 gallons per minute (gpm), respectively. The total flow rate for the GWE system, ranged from 0.7 (one extraction well operating) to 1.9 gpm (both extraction wells operating). Additional information regarding GWE system flow rates is summarized in Table 2A (2007/2008) and 2B (2009) (modified from Table 2 of the

Southern Plume Remedial Action MOM Operation and Maintenance Plan [SPRA O&M Plan]).

ii. GWE System Operation and Maintenance

- During periods of GWE system operation, O&M activities were performed on a weekly basis. GWE system operational history is recorded in Tables 2A (2008) and 2B (2009). 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]).

- Downtimes during this reporting period were caused by iron and sediment fouling in the pump chamber(s), iron and sediment fouling in the water line(s), a seized compressor motor, iron and sediment fouling in the in-line paddlewheel-style totalizers/flow meter(s), and "short-circuiting" of pressurized air through holes in the pump casing(s) (i.e., pitting caused by corrosion). 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 in July 2009. Using the three pneumatic pumps on a rotating basis allows two pumps to be extracting ground water, while the third pump was repaired, cleaned, and/or soaked in the acid solution. However, because of pump repairs and excessive iron buildup, only one pump was operating for the majority of the reporting period (mid-September through December). Additional information regarding pump repairs in summarized in the following bullet. Pump repairs will be completed prior to initiating the 2010 pumping season.

- During regular maintenance activities in October 2009, small pinhole-sized corrosion holes (i.e., pitting) were observed in one of the pump casings. The holes provided a pathway for pressurized air to "short-circuit" the pumping mechanism, and, consequently, water was not being pumped to the fractionation (frac) tank. The pump was removed from service and sent to the manufacturer for repairs/rebuilt with corrosion-resistant materials. Upon further inspection, pitting was observed in another pump casing, but was not yet fully penetrating the casing. Each pump will be thoroughly inspected and rebuilt, as necessary, prior to initiating the 2010 pumping season.

- Fouled totalizers/flow meters were removed, disassembled, and cleaned prior to resuming operation. During the 2009 pumping season, it was observed that the paddlewheel-style totalizers did not accurately record the flow rate because of reoccurring iron/sediment fouling and the pulsing flow characteristic of the pneumatic pumps. The totalizers/flow meters were removed from service on September 8, 2009. Discharge volumes were

estimated from recorded frac tank water transfer volumes. Alternative totalizer/flow meter options will be evaluated prior to initiating the 2010 pumping season.

- On October 13, 2009, GeoInsight personnel observed that the system was not operating because of compressor failure. The start capacitor and motor assembly were replaced and the system was re-started on October 27, 2009.

iii. Discharges

Since the installation of the GWE system in November 2007, approximately 522,656 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 80,600 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 (April 29 to September 1, 2009):	177,468 gallons
Total Volume During Reporting Period (September 1 to December 1, 2009):	80,600 gallons
Total Volume to Date:	522,656 gallons

iv. Hydraulic Monitoring

- A comprehensive hydraulic monitoring event was conducted on October 6, 2009 to evaluate hydraulic conditions during a period of system pumping. Wells that were included in the comprehensive hydraulic monitoring event are summarized in Table 4 (modified from Table 5 of the SPRA O&M Plan). The October 2009 gauging data were compared to "baseline" hydraulic conditions recorded on April 16, 2009 (i.e., before the start of the 2009 pumping season) to evaluate pumping versus not-pumping hydraulic conditions in the Southern Plume MOM RA area. Gauging data for the April and October 2009 events are summarized in Table 5. Refer to Section E of this report for additional information regarding the pumping versus not-pumping hydraulic analysis.

- 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 December 2, 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 December 2, 2009 are presented in Figures 1A, 1B, and 1C.

- Extraction wells were typically gauged during each O&M site visit. Average drawdown observed in the extraction wells was between 3 and 4 feet during pumping periods. Extraction well gauging data (2009) are presented in Table 6.

C. GROUND WATER MONITORING (Summary of 2009 Pumping Season)

i. Influent Water Quality Monitoring

Water samples were collected from sample ports located in the influent water lines at the system manifold. The influent water samples were typically collected on a weekly basis and submitted to Resource Laboratories, Inc. of Portsmouth, New Hampshire (RL) for volatile organic compounds (VOCs) analysis 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 2,800 micrograms per liter (ug/L) in the water samples collected from MW-206(I) and from 1,200 to 2,900 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 39 ug/L in water samples collected from SB-4D. Single digit concentrations of benzene were detected in the water samples collected from SB-4D on September 15 and November 9, 2009; however, these samples were collected immediately following periods of pump "short circuiting" (i.e., compressed air was escaping the pump chamber and aerating water in the well) and are not considered representative of ground water conditions. These data points were not included in the statistical analysis.

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 ICLs. In general, these data are consistent with data collected during the 2008 operating season. Analytical results are summarized in Tables 7A and 8A (2008 data) and Tables 7B and 8B (2009 data) and laboratory analytical reports for influent samples collected since May 2008 are presented in Appendix A. Influent concentrations of THF and benzene versus time for the 2008 and 2009 pumping seasons are illustrated in the attached Figures 2A and 2B (MW-206(I)) and Figures 3A and 3B (SB-4D), respectively.

THF and benzene data from each extraction well during individual pumping seasons were analyzed for statistical parameters, including; peak maximum concentration, peak minimum concentration, mean concentration, and median concentration. Data for samples collected from well SB-4D on September 15 and November 9, 2009 (discussed above) were not used to calculate the 2009 statistical parameters. Statistical parameters are presented on Figures 2A, 2B, 3A, and 3B. The statistical parameters will be calculated for each pumping season and utilized to evaluate concentration trends over time.

ii. POTW Compliance Monitoring

Water samples were collected from the frac tank on a monthly basis to evaluate compliance with Dover POTW requirements. The water samples were analyzed for the parameters consistent with the Dover POTW monitoring requirements summarized in Table 1 of the 100 Percent Remedial Design Southern Plume MOM report. Analytical results are reported to the POTW operator as they become available. To date, the POTW operator has reviewed these data and additional analyses have not been requested. Analytical results are summarized in Table 9A (2008) and Table 9B (2009). Laboratory analytical reports for frac tank samples collected since December 2007 are presented in Appendix A.

iii. Mass Removal Estimates

Water samples were collected on a weekly basis during periods of system operation 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 weekly VOC monitoring and the approximate volumes of ground water transported from the frac tank during the corresponding pumping period. During periods that both wells were pumping, the average VOC concentrations were used to calculate mass removal.

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 3,600 ug/L. Other VOCs that were consistently detected in the water samples included benzene, toluene, ethylbenzene, xylenes, chloroethane, and chlorobenzene (2009; Tables 7B and 8B). 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 4.01 pounds of THF and benzene (combined) were removed by operation of the GWE system during the 2009 pumping season. Approximately 8.50 pounds of THF and benzene have been removed since initiation of the GWE system in 2008. THF represents over 98 percent of the mass removed.

Mass removal calculations associated with THF and benzene are summarized in Tables 10A (2008) and 10B (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 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.

Quarterly performance monitoring events were conducted on July 15, October 1, and December 2, 2009. The quarterly performance monitoring events were 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. Tables summarizing baseline and quarterly performance monitoring ground water analytical results are included in Appendix B and laboratory analytical reports are included in Appendix A.

Data collected during the 2009 baseline and quarterly performance monitoring events were used to evaluate system performance. Additional information regarding the distribution of dissolved VOCs in the Southern Plume MOM RA area over time is presented in Section E of this report.

D. REMEDY PERFORMANCE – ANNUAL REPORT

i. Overview and Objectives

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) is located near the leading edge of the plume and 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 the intended remedial objectives. Monitoring data obtained while operating the Southern Plume GWE system was used in conjunction with characterization data (i.e., data collected before the GWE system was installed) to complete a preliminary evaluation of remedial system performance. The approach used to evaluate performance follows the USEPA guidance described in "General Methods for Remedial Operations Performance Evaluations," USEPA Report EPA600/R-92/002 (dated January 1992), "Elements of Effective Management of Operating Pump and Treat Systems" USEPA (Office of Solid Waste and Emergency Response) Report OSWER 9355.4-27FS-A (dated November 2002), and "A Systematic Approach for Evaluation of Capture Zones at Pump and Treat Systems, Final Project Report," USEPA Report EPA600/R-08/003 (dated January 2008).

ii. Extraction Well Performance

Extraction well performance is evaluated during weekly O&M site visits and routine maintenance is conducted periodically to maintain adequate well performance. Infiltration of fine-grained sediments has been the primary cause of performance issues for the Southern Plume GWE extraction wells (particularly in MW-206(I)). Depth to bottom measurements are collected frequently to monitor sediment accumulation at the bottom of the extraction wells and sediment is vacuumed out of the wells (using a vac truck or manual methods) as needed. During the 2009 season, accumulated sediment was removed from the extraction wells on April 29, 2009 (prior to system start up) and July 28, 2009. Approximately 15 feet of sediment was removed from the bottom of MW-206(I) and 5 feet from the bottom of SB-4D during each event. The extraction wells will continue to be monitored for sediment accumulation and vacuumed out on an as-needed basis.

iii. Pump Performance

Pneumatic pump performance is evaluated during O&M site visits and routine maintenance is conducted periodically. Pump failure caused by sediment accumulation, scaling, and corrosion have contributed to system downtime. To mitigate fouling issues, the pumps are removed and inspected on a weekly basis, and cleaned at a minimum on a monthly basis. Additionally, a third pneumatic pump was procured in 2009 to minimize system downtime during periods of pump maintenance and repair. In preparation for the 2010 pumping season, one pneumatic pump was returned to the manufacturer to be refurbished and rebuilt with corrosion-resistant 316 stainless steel components. Based upon observations during the 2010 season, the remaining pumps will be either refurbished in the same manor or replaced.

Pump fouling is likely caused by the air/water interaction typical of pneumatic pumping systems. Use of a pneumatic pumping system for the Southern Plume MOM RA was selected because of the lack of an electrical supply infrastructure in the Southern Plume Study Area. Alternative pumping systems will be evaluated during subsequent pumping seasons and “lessons learned” from the operation of the Southern Plume MOM RA will be incorporated into the design criteria for the Source Control GWE system along the toe of the Landfill.

iv. Capture Zone Analysis

The approach used to evaluate capture follows the USEPA guidance described in “A Systematic Approach for Evaluation of Capture Zones at Pump and Treat Systems, Final Project Report,” USEPA Report EPA600/R-08/003 (dated January 2008). This approach consists of evaluation and convergence of multiple “lines of evidence” that include estimating the Target Capture Zone (TCZ), estimating the required pumping rate to achieve target capture, evaluating hydraulic information and data, reviewing trends in VOC concentrations, and estimating the actual capture zone(s) of the remedial system.

Target Capture Zone

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 extraction well MW-206(I) and the SB-B monitoring well cluster 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 at depths of 35 to 45 feet BGS, and the plume is approximately 200 to 300 feet wide. These dimensions define the approximate TCZ for the Southern Plume MOM GWE system.

Preliminary Capture Zone Analysis

A preliminary capture zone analysis was presented in the October 10, 2009 Periodic Remedy Performance Report (Section D, pages 6 though 10). The evaluation included:

- calculating the pumping rate required to maintain target capture based upon plume dimensions and the estimated hydraulic parameters of the UUI unit;

- comparing target pumping rates to actual pumping rates;

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

- 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 a revised hydraulic analysis; and

- comparing the theoretical capture zone to the TCZ necessary to achieve the remedial objectives.

Results of the preliminary capture zone analysis indicated:

- The pumping rate estimated to capture the TCZ that was based upon plume dimensions, updated estimated hydraulic parameters of the UUI unit, and extraction well characteristics (i.e., effective screen length) ranged from 0.58 to 1.2 gpm. The current average pumping rate at each extraction well is approximately 0.9 gpm, and is within this range.

- The capture zone evaluation that was based upon the revised hydraulic analysis (2009) indicated that the theoretical capture zone was similar (i.e., dimensions were similar) to the 2008 theoretical capture zone. Although the width of the 2009 theoretical capture zone was approximately 24 percent less than the width of the 2008 theoretical capture zone, the estimated capture remained wider than the mapped width of the plume in the vicinity of well MW-206(I) (see page 12 for the 2008 and 2009 dimensions).

Additional Lines of Evidence

For this Annual Remedy Performance Report, additional lines of evidence were evaluated to supplement the preliminary capture zone analysis. Additional lines of evidence included:

- using ground water gauging data to evaluate pumping versus not-pumping hydraulic conditions; and

- using trend and other appropriate statistical analyses to evaluate changes in ground water quality (VOC concentrations) within, adjacent to, and downgradient of the Southern Plume.

Data from these additional analyses were utilized to estimate the approximate extent of ground water capture based upon observed site conditions, and comparing the extent of actual capture to the TCZ identified for the Southern Plume MOM GWE system.

Ground Water Elevations

Ground water elevation measurements collected during comprehensive ground water gauging events were used to evaluate pumping versus not-pumping hydraulic conditions in the Southern Plume MOM RA area. The contour maps were created using computer generated linear interpolation. The October 5, 2009 figure (pumping conditions) did not include elevation data for MW-206(I) because of possible well inefficiencies and losses often associated with active extraction wells. Ground water contour maps are illustrated on Figure 4 (April 16, 2009; non pumping conditions) and Figure 5 (October 6, 2009; pumping conditions).

Under ambient conditions (i.e., non pumping conditions), ground water in the Southern Plume Study Area UUI unit generally flows from the toe of the Landfill towards the south and southeast, with horizontal gradients typically ranging between 0.002 ft/ft (near to the toe) to 0.008 ft/ft (near the Bellamy Reservoir). Under pumping conditions, the general direction of ground water flow and horizontal gradients remain constant in the southern portion of the Study Area
(i.e., hydraulically downgradient of the area of influence of pumping well MW-206(I)). In the vicinity of MW-206(I) and in portions of the Study Area that are hydraulically upgradient of MW-206(I), the ground water exhibited flatter horizontal gradients (0.001 to 0.002 ft/ft) and an observable ground water flow inflection towards the pumping well.

To evaluate the extent of capture, analysis of ground water elevation data was focused on monitoring wells positioned in the same depth interval (approximately 35 to 45 feet BGS) and located near the estimated area of influence of extraction well MW-206I. Contour accuracy is

highest to the west of extraction well MW-206(I), where the enhanced monitoring well network was installed in late 2008. Therefore, analysis of capture based upon water level measurements was focused on the area of highest accuracy (i.e., west of the extraction well), including monitoring wells MW-207(I), MW-208(I), MW-209(I), and SB-10I. Horizontal capture to the east of the extraction well was estimated based upon data collected west of the extraction well. In addition to visual evaluation of ground water contour maps, the extent of capture was evaluated based upon horizontal water level pairs (i.e., gradient control pairs). Comparing the ground water elevation observed at MW-209(I) during pumping conditions to ground water elevations at MW-208(I) and MW-207(I), indicates inward ground water flow (i.e., flow towards the extraction well) during pumping. In contrast, the gradient observed between MW-209(I) and SB-10(I) (located further to the west) indicates ground water flow away from extraction well MW-206(I). Based upon data from these horizontal gradient control pairs, a flow boundary exists in the vicinity of MW-209(I), likely correlating to the extent of capture in that vicinity. Ground water elevation data for monitoring wells located west of the extraction well is presented below.

WELL ID	SB-10I	MW-209(I)	MW-208(I)	MW-207(I)	MW-206(I)
Distance to Pumping Well	352	144	56	33	0
Water Elevation April 16, 2009 (non-pumping conditions)	145.67	146.58	146.62	146.63	146.48
Water Elevation October 6, 2009 (pumping conditions)	145.32	145.54	145.32	145.24	142.87

South of the extraction well, hydraulic gradients between downgradient monitoring well SB-B2 (located adjacent to the estimated theoretical capture zone stagnation point) and monitoring wells MW-208(I) and MW-207(I) indicated inward ground water flow towards the pumping well. Therefore, ground water capture downgradient of the extraction well likely extends to the area near SB-B2.

Because the site conceptual model and review of historical data do not anticipate significant vertical flow, vertical capture was not evaluated as part of this analysis. The conceptual model indicates that the impacted portion of the aquifer (i.e., the UUI; 35 to 45 BGS) has a semi-confining nature and heterogeneity and layering contribute to predominantly horizontal flow with Kh to Kv ratios in the UUI/LUI units in excess of 1000:1. Additionally, the effective length of the extraction well (screen plus two feet of sand pack above and below the screened interval) exceeds the vertical extent of impacts (as documented during Southern Plume PDI activities; see Section 6.2 of the June 2007 Draft Summary Report of Phase I Activities and Proposed Phase II Activities). Therefore, vertical migration of the dissolved impacts beyond the effective screen length is not likely to occur, and, consequently, vertical capture is likely achieved.

Preliminary Ground Water Quality Trend Analysis

Ground water quality data are attained during annual “baseline” and quarterly performance monitoring events. Data collected during the 2009 annual baseline and quarterly performance

monitoring events were combined with historical data (if available) to evaluate ground water quality trends in the monitoring wells expected to be most influenced by extraction well MW-206(I). Wells included in the performance monitoring events are summarized in Table 4. Please note that this is a preliminary analysis based upon the limited analytical data available for review at the time of this report. The preliminary analysis does not account for possible seasonal fluctuations, discrepancies in field or laboratory procedures, or other potential influences not related to the operation of the GWE system.

Plots of THF and benzene (primary VOC COCs) concentrations in ground water samples obtained from performance monitoring wells MW-200(I), MW-207(I), MW-208(I), MW-209(I), and SB-B2 over time are included in Appendix C. Concentrations of THF and benzene in monitoring wells MW-207(I) and MW-208(I), located approximately 33 and 56 feet west of extraction well MW-206(I) respectively, initially decreased following the 2009 seasonal start up and then slightly increased during the 2009 pumping season. THF and benzene concentrations detected in monitoring well MW-209(I), located along the lateral western extent of the plume, consistently decreased during the 2009 pumping season. Concentrations of THF and benzene detected in monitoring well SB-B2, located approximately 75 feet hydraulically downgradient of extraction well MW-206(I) and near the estimated stagnation point of the theoretical capture zone, appear to be decreasing since implementation of the Southern Plume MOM GWE system in 2008. Dissolved THF concentrations detected in monitoring well MW-200(I), located approximately 335 feet south of extraction well MW-206(I) (hydraulically downgradient), indicate a slightly increasing trend. Dissolved concentrations of benzene and other VOCs detected in monitoring well MW-200(I) were stable.

The most consistent decreasing concentrations of the primary VOC COCs detected in ground water samples was observed in monitoring well MW-209(I), which is located transverse to pumping well MW-206(I) with regard to the regional direction of ground water flow. USEPA guidance suggests that this steadily decreasing trend may indicate that the GWE system is successfully preventing migration of dissolved impacts towards the vicinity of well MW-209(I). The guidance also indicates that stable concentrations observed in monitoring wells may indicate that the wells are located within the capture zone and continue to be impacted by dissolved concentrations of VOCs migrating from hydraulically upgradient areas. Therefore, the decreasing trends in MW-209(I) and the relatively stable concentrations observed in MW-207(I) and MW-208(I) suggest that the capture zone extends to the area between MW-209(I) and MW-208(I). Downgradient of the pumping well, decreasing VOC concentrations observed in SB-B2 suggests that the GWE system is preventing the migration of dissolved impacts in the area south of the extraction well and that capture is being achieved between SB-B2 and extraction well
MW-206(I).

Interpretation of concentration data related to capture may take several years because ground water flow velocities is the Southern Plume Study Area are generally slow (0.2 feet/day); therefore, on-going evaluation/interpretation of analytical trend data will be presented in subsequent Remedy Performance Reports. These evaluations will become more comprehensive as additional data becomes available and the data set can be analyzed for long-term trends in ground water quality. In addition, analytical data from each monitoring well during individual

pumping seasons will be analyzed for statistical parameters, including; peak maximum value, peak minimum value, average, and median concentration. The statistical parameters will be calculated for each pumping season and utilized to evaluate concentration trends over time.

Horizontal Extent of VOCs Impacts

The horizontal distribution of VOCs in the Southern Plume Area was not evaluated as part of this capture zone analysis/performance evaluation. Mapping and comparing VOC distribution and concentrations over time within the Southern Plume Study Area will be presented when successive years of ground water data are available for each performance monitoring well.

Conclusions

The extent of capture was estimated based upon the additional lines of evidence discussed above and is depicted on Figure 5. The dimensions of the theoretical capture zone (2009) and the area of estimated capture based upon this analysis are presented below:

	Theoretical Capture Zone		Estimated Capture
	2008	2009	
Downgradient stagnation point (X_o):	81 ft	62 ft	60 ft
Width of capture near well (2* Y_{well}):	255 ft	194 ft	180 ft
Width of capture upgradient of well (2*Y_{max}):	511 ft	388 ft	320 ft

Based upon review of data collected to date, the estimated area of GWE system capture is sufficient to achieve the Southern Plume MOM RA objectives. Performance will continue to be evaluated on an annual basis and system modifications will be implemented, if deemed necessary.

E. SYSTEM OPTIMIZATION

Monitoring data obtained while operating the Southern Plume GWE system is used to evaluate system performance and identify possible opportunities to improve remedy effectiveness and efficiency. The evaluation includes review of 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 periodically evaluated 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 review of monitoring data obtained during the 2009 operating season suggests that the GWE system is operating as designed and that there are no conditions that require immediate attention. Based upon observations during the 2008 and 2009 pumping seasons, minor system modifications will be implemented for the 2010 season.

Modifications include the following:

- the location of the frac tank will be moved away from an overhead electrical line and relocated west of the Butler Building; and
- the extraction well manifold is being constructed inside the Butler Building (the manifold was located adjacent to the frac tank during previous pumping seasons) and will include the installation of two flow totalizers. The totalizers will facilitate more accurate estimates of flow rates and total extraction volumes from individual pumping wells.

F. DATA VALIDATION

i. Overview

Data validation was performed for laboratory analytical data sets prepared by Katahdin, RL, and their subcontractors in general accordance with the USEPA Region I – New England Data Validation Functional Guidelines and the project Quality Assurance Project Plan dated March 2005. Data validation included review of data collected between November 15, 2007 (initial Southern Plume ground water monitoring event) and November 24, 2009 (the end of the 2009 operating season). The data set consisted of three general types of data, each with a set of Data Quality Objectives (DQOs). The level of data validation (i.e., Tier I or Tier II) performed on each type of data was determined by evaluating the measurement performance criterion (MPC) required to meet the DQOs. The data types are summarized below:

Data Type	DQOs	Analyses	Data Validation Level
Influent	• evaluate concentration trends • calculate mass removal	VOCs + THF	Tier I
Frac Tank	• evaluate POTW compliance	Full Suite	Tier I
Ground Water	• evaluate concentration trends – performance monitoring	VOCs + THF Metals	Tier II

Tier I validation included a review of the sample delivery group (SDG) data reports to evaluate components of the report compared to the Tier I checklist. Tier II included a review of quality assurance and quality control (QA/QC) information. QA/QC information evaluated for the laboratory analytical reports included:

- extraction and analytical methods;
- quantitation limits;
- laboratory holding times;
- trip, equipment, field, and method blank analyses;
- field duplicate samples;
- matrix spike/matrix spike duplicate analyses (MS/MSD);
- surrogate recovery data; and
- laboratory control sample/laboratory control sample duplicate analyses (LCS/LCSD).

In addition, data validation included a review of field sampling methods including; sample handling, storage, and preservation. Data validation and QA/QC checklists were completed for the 81 SDGs submitted for laboratory analysis. Copies of the summary sheets are attached in Appendix D-1.

Analytical data presented in summary tables were manually checked by comparing laboratory reports with tabulated data to identify and correct transcription errors.

ii. Data Validation Results

Field QA/QC

A review of field QA/QC documentation identified preservation issues associated with the influent samples including elevated pH and/or elevated temperature. Water samples that had elevated pH, specifically a pH above two Standard Units, were accepted as usable data because the temperature and light protection criteria were met and the samples were analyzed within seven days (the holding time limit for unpreserved VOC samples). Samples with container temperatures outside the accepted range (4 ± 2 degrees Centigrade) were accepted as usable data because the affected samples were transported appropriately (in a cooler on ice), but were typically delivered to the laboratory before the sample material could be cooled to within the accepted temperature range. In a few instances, water samples exhibited elevated pH, elevated temperatures, and were received by the laboratory on dates subsequent to the date of collection, and, consequently, the results were flagged as estimates.

The field QA/QC review also indicated that a trip blank sample was not submitted with SDG Geo-10 (April 2009 baseline sampling event). Trip blank samples (i.e., laboratory-supplied samples of deionized water) were typically submitted at a frequency of one per ground water sampling day per cooler to evaluate field handling and sample transport. Because the samples corresponding to the missing trip blank were collected, stored, and transported in a manner consistent with samples submitted with other SDGs from the same sampling event, the analytical results were considered valid for their intended use.

Blanks, field duplicates, and matrix spike/matrix spike duplicates (MS/MSDs) were not typically submitted along with the influent and frac tank water sample SDGs because they were not identified as MPC for those data types.

Tier I

In general, Tier I review of laboratory reports indicated that the data packages were complete as compared to the Tier I checklist and were certified by the laboratory.

Tier II

In general, Tier II review of laboratory reports associated with baseline and quarterly performance ground water monitoring identified data to be usable for its intended purpose. Minor data quality issues that were identified during the review included; analytes detected in method blanks and LCS/LCSD and MS/MSD spike recoveries and RPDs outside the accepted limits.

Method blank analysis was performed for each sample batch. In general, method blanks met the QC acceptance criteria, indicating that laboratory contamination did not interfere with sample analyses; however, methylene chloride was detected in a few method blank samples at low concentrations (i.e., up to single digit ug/L). Therefore, methylene chloride detected in the associated samples was qualified with a “B” on the data tables to indicate that the analyte was also detected in the corresponding method blank.

In general, LCS/LCSD pairs met the QA acceptance criteria indicating that acceptable laboratory performance was achieved for the period during which the SDGs were analyzed. However, several LCS/LCSD pairs had one or more spiked analyte recovery outside the accepted range or one or more RPDs exceeding the acceptance criterion. Results for analytes that exceeded the QA acceptance criterion but were identified as purge-limited compounds (Appendix D-2) or not constituents of concern (identified in the project QAPP) were accepted as reported. Results for analytes that were COCs and were not identified as purge-limited were flagged as estimates.

MS/MSD analyses for VOCs were performed at a frequency of approximately five percent (1:20) of the total number of samples submitted for analysis. In general, the MS/MSD pairs were found to meet the QC acceptance criteria for spike recoveries, surrogate recoveries, and RPDs, indicating that acceptable analytical precision was achieved. However, several MS/MSD pairs had one or more analytes that were outside the QC acceptance criteria. The source sample results for compounds that were not constituents of concern or were identified as purge-limited

compounds were accepted as reported. The source sample results for the analytes outside the QC acceptance criteria (excluding analytes that were identified as purge-limited or not constituents of concern) were flagged as estimates.

In general, the data sets met the DQOs and the analytical results were considered acceptable for their intended use. Please refer to the attached Data Validation and QA/QC Checklists (Appendix D-1) for additional details.

SUMMARY OF ATTACHMENTS

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TABLE 1	Summary of Pumping Periods
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TABLE 2B	Summary of GWE System Operational History – 2009
TABLE 3	Maintenance Tracking Log - 2009
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TABLE 7B	Summary of Laboratory Analytical Data – Influent VOC Monitoring – MW-206(I) – 2009
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TABLE 8B	Summary of Laboratory Analytical Data – Influent VOC Monitoring – SB-4D – 2009
TABLE 9A	Summary of Laboratory Analytical Data – Frac Tank with POTW Local Limits and Screening Levels – 2008
TABLE 9B	Summary of Laboratory Analytical Data – Frac Tank with POTW Local Limits and Screening Levels – 2009
TABLE 10A	Mass Removal Calculations – 2008
TABLE 10B	Mass Removal Calculations – 2009

FIGURES

FIGURE 1A	Transducer Water Elevation Data (December 2, 2008 – December 2, 2009)
FIGURE 1B	Transducer Water Elevation Data (December 2, 2008 – December 2, 2009) Wells Screened in the Pumping Zone
FIGURE 1C	Transducer Water Elevation Data (December 2, 2008 – December 2, 2009) Wells Screened Above and Below the Pumping Zone
FIGURE 2A	Concentration Versus Time – MW-206(I) – 2008
FIGURE 2B	Concentration Versus Time – MW-206(I) – 2009
FIGURE 3A	Concentration Versus Time – SB-4D – 2008
FIGURE 3B	Concentration Versus Time – SB-4D – 2009
FIGURE 4	Ground Water Contour Map – April 16, 2009 (Baseline)
FIGURE 5	Ground Water Contour Map – October 6, 2009 (System Operating)

APPENDICES

APPENDIX A	Laboratory Analytical Data (On CD)
APPENDIX B	Performance Monitoring Well Analytical Data Tables
APPENDIX C	Concentration versus Time – Quarterly Performance Monitoring Wells
APPENDIX D-1	Data Validation and Quality Assurance/Quality Control Checklists (On CD)
APPENDIX D-2	Summary of Compounds with Poor Purging Efficiency

TABLES

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			
April 29 to December 1, 2009	1.5*	MW-206(I) SB-4D	522,656

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 pumpi flow rates for the individual wells were added to calculate the total system flow rate.
3. * = Average flow rate during periods of system operation.

TABLE 2A
SUMMARY OF GWE SYSTEM OPERATIONAL HISTORY - 2007/2008
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
11/29/07	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)	
11/30/07	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
12/1/07	BPP on-site for system inspection	NO	YES	YES	80	---	120	---	NR	NR	NR	SB-4D/MW-206(I)	5,628
12/2/07	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
12/3/07	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
12/6/07	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

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 = Kristin Zeman, system operator; RSE = Renee Egerton, system operator; WMC = Wes Court, system operator; JRF = Joshua Funk, system operator.
5. CHES = Clean Harbors Environmental Services.

TABLE 2B
SUMMARY OF GWE SYSTEM OPERATIONAL HISTORY - 2009
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
05/05/09	CHES on-site for water transfer	---	---	---	---	---	---	---	---	---	---	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
07/20/09	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)	365,256	0
7/21/109	CHES on site for water transfer	---	---	---	---	---	---	---	---	---	---	---	372,756	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)	387,756	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)	402,556	14,800
08/07/09	CHES on-site for water transfer	---	---	---	---	---	---	---	---	---	---	---	408,556	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)	412,556	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)	423,556	11,000
08/21/09	CHES on-site for water transfer	---	---	---	---	---	---	---	---	---	---	---	426,556	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)	434,056	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)	442,056	8,000
09/08/09	BPP on-site for system O&M, water transfer	INFLUENT/FRAC TANK	YES	YES	---	101	102	101	---	0.70	0.70	MW-206(I)	449,056	7,000
09/14/09	CHES on-site for water transfer	---	---	---	---	---	---	---	---	---	---	---	458,056	9,000
09/15/09	BPP on-site for system O&M, water transfer	INFLUENT	YES	YES	110	109	102	101	---	0.80	0.80	MW-206(I)	458,056	0
09/22/09	BPP on-site for system O&M, water transfer	INFLUENT	YES	YES	---	---	102	102	---	0.75	0.75	MW-206(I)	468,556	10,500
09/29/09	BPP on-site for system O&M, water transfer	INFLUENT	YES	YES	110	110	---	---	---	---	---	SB-4D	471,556	3,000
10/06/09	BPP on-site for system O&M, water transfer	INFLUENT/FRAC TANK	YES	YES	110	110	102	101	---	0.85	0.85	MW-206(I)	483,556	12,000
10/13/09	BPP on-site for system O&M, water transfer	NO	NO	NO	---	---	---	---	---	---	---	---	484,656	1,100
10/16/09	BPP on-site for system repairs	NO	NO	NO	---	---	---	---	---	---	---	---	484,656	0
10/20/09	BPP on-site for system repairs	NO	NO	NO	---	---	---	---	---	---	---	---	484,656	0
10/27/09	BPP on-site for system repairs	INFLUENT	NO	YES	---	---	---	---	---	---	---	---	484,656	0
11/03/09	BPP on-site for system O&M, water transfer	INFLUENT	YES	YES	110	110	---	---	1.00	---	1.00	SB-4D	499,656	15,000
11/09/09	BPP on-site for system O&M, water transfer	INFLUENT/FRAC TANK	YES	YES	---	---	102	101	---	0.80	0.80	MW-206(I)	502,656	3,000
11/17/09	BPP on-site for system O&M, water transfer	INFLUENT	NO	YES	---	---	---	---	---	---	---	---	505,656	3,000
11/24/09	BPP on-site for system O&M, water transfer	INFLUENT	YES	YES	102	102	102	102	1.00	0.90	1.90	SB-4D/MW-206(I)	516,156	10,500
12/01/09	BPP/KEZ on-site for O&M, water transfer, and seasonal shutdown	NO	YES	NO	102	---	102	101	---	---	---	SB-4D/MW-206(I)	522,656	6,500

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; CAM = Cory Mahony, system operator; KEZ = Kristin Zeman, system operator; SJL = Shauna Little, system operator.
5. CHES = Clean Harbors Environmental Services.

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 cleaned 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)

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)
09/08/09	BPP	Pulled and cleaned pump in SB-4D.	Iron/sediment buildup observed in pump. Pump in SB-4D operating at departure.	ON (SB-4D OFF)	ON
09/15/09	BPP	Dismantled and cleaned process piping from totalizers to downspout. Pulled and cleaned pump in SB-4D. Clear SB-4D return line with compressed air; return line was clogged with iron/sediment.	Iron/sediment buildup observed in pump. Pump in SB-4D operating at departure.	ON (SB-4D OFF)	ON
09/22/09	BPP	Greased fittings in air compressor motor. Pulled and cleaned pump in SB-4D.	Iron/sediment buildup observed in pump. Pump in SB-4D operating at departure.	ON (SB-4D OFF)	ON
09/29/09	BPP	Pulled and cleaned pump in MW-206(I). Clear MW-206(I) return line with compressed air.	Iron/sediment buildup observed in pump. Pump in MW-206(I) operating at departure.	ON (MW-206(I) OFF)	ON
10/06/09	BPP	Pulled and cleaned pump in SB-4D. Clear SB-4D return line with compressed air.	Iron/sediment buildup observed in pump. Pump in SB-4D operating at departure.	ON (SB-4D OFF)	ON
10/13/09	BPP	Compressor down, troubleshoot for repairs.	Compressor down at departure.	OFF	OFF
10/27/09	BPP	Replace compressor motor.	Compressor on at departure.	OFF	ON
11/03/09	BPP	Pulled and cleaned pump in MW-206(I).	Iron/sediment buildup observed in pump. Pump in MW-206(I) operating at departure.	ON (MW-206(I) OFF)	ON
11/09/09	BPP	Pulled and cleaned pump in SB-4D. Clear SB-4D return line with compressed air.	Iron/sediment buildup observed in pump. Pump in SB-4D operating at departure.	ON (SB-4D OFF)	ON
11/17/109	BPP	Pulled and cleaned pumps in MW-206(I) and SB-4D. Clear MW-206(I) and SB-4D return lines with compressed air.	Iron/sediment buildup observed in pump. Pump in SB-4D operating at departure.	OFF	ON
11/24/09	BPP	None	Maintenance not performed.	ON	ON
12/01/09	KEZ/SJL	Removed and cleaned pumps in SB-4D and MW-206(I).	System shut down for 2009 season.	ON	OFF

NOTES:
1. BPP = Brian Poulin; GWE primary system operator.
2. KEZ = Kristin Zeman; GWE system operator.
3. SJL = Shauna Little; GWE system operator.
4. --- = System maintenance activities not conducted.

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

		HYDRAULIC MONITORING		GROUND WATER QUALITY MONITORING			
WELL ID	STRATIGRAPHIC UNIT	COMPREHENSIVE 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					
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 5
SUMMARY OF MONITORING WELL GAUGING DATA
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

ID	DATE	ELEVATION (TOP OF PVC)	DEPTH TO WATER	GW ELEVATION
B-10WT	4/16/2009	146.21	1.89	144.32
	10/6/2009	146.21	3.12	143.09
B-4WT	4/16/2009	150.98	4.34	146.64
	10/6/2009	150.98	4.44	146.54
B-8WT	4/16/2009	147.41	2.52	144.89
	10/6/2009	147.41	3.82	143.59
MW-102S	4/16/2009	143.99	---	---
	10/6/2009	143.99	4.99	139.00
MW-102U	4/16/2009	142.16	2.21	139.95
	10/6/2009	142.16	2.71	139.45
MW-200(S)	4/16/2009	146.53	2.41	144.12
	10/6/2009	146.53	2.71	143.82
MW-200(I)	4/16/2009	145.62	---	---
	10/6/2009	147.90*	2.97	144.93
MW-200(D)	4/16/2009	145.76	1.00	144.76
	10/6/2009	145.76	1.84	143.92
MW-201(S)	4/16/2009	145.69	2.80	142.89
	10/6/2009	145.69	3.86	141.83
MW-201(I)	4/16/2009	145.99	1.21	144.78
	10/6/2009	145.99	2.14	143.85
MW-201(D)	4/16/2009	145.83	2.27	143.56
	10/6/2009	145.83	3.10	142.73
MW-202(S)	4/16/2009	142.60	2.33	140.27
	10/6/2009	142.60	2.13	140.47
MW-203(S)	4/16/2009	145.73	5.20	140.53
	10/6/2009	145.73	5.78	139.95
MW-204(S)	4/16/2009	145.42	2.51	142.91
	10/6/2009	145.42	3.36	142.06
MW-204(IA)	4/16/2009	145.85	2.98	142.87
	10/6/2009	145.85	3.73	142.12
MW-204(IB)	4/16/2009	145.41	1.60	143.81
	10/6/2009	145.41	2.11	143.30
MW-204(D)	4/16/2009	145.69	2.26	143.43
	10/6/2009	145.69	3.00	142.69
MW-205(I)	4/16/2009	147.17	4.35	142.82
	10/6/2009	147.17	4.59	142.58
MW-206(S)	4/16/2009	149.40	4.76	144.64
	10/6/2009	149.40	4.88	144.52
MW-206(I)	4/16/2009	149.03	2.55	146.48
	10/6/2009	149.03	6.16	142.87
MW-207(I)	4/16/2009	146.97	0.34	146.63
	10/6/2009	146.97	1.73	145.24
MW-208(S)	4/16/2009	147.11	2.50	144.61
	10/6/2009	147.11	2.66	144.45
MW-208(I)	4/16/2009	147.29	0.67	146.62
	10/6/2009	147.29	1.97	145.32
MW-209(I)	4/16/2009	147.39	0.81	146.58
	10/6/2009	147.39	1.85	145.54
PT-1	4/16/2009	148.51	2.75	145.76
	10/6/2009	148.51	3.61	144.90
PT-2	4/16/2009	148.39	2.60	145.79
	10/6/2009	148.39	3.47	144.92
PT-3	4/16/2009	149.39	3.51	145.88
	10/6/2009	149.39	4.39	145.00
SB-10I	4/16/2009	147.96	2.29	145.67
	10/6/2009	147.96	2.64	145.32
SB-10D	4/16/2009	148.35	2.41	145.94
	10/6/2009	148.35	3.17	145.18
SB-4D	4/16/2009	150.51	2.69	147.82
	10/6/2009	150.51	---	---
SB-8U	4/16/2009	148.66	3.07	145.59
	10/6/2009	148.66	3.33	145.33

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

ID	DATE	ELEVATION (TOP OF PVC)	DEPTH TO WATER	GW ELEVATION
SB-8D	4/16/2009	148.50	3.37	145.13
	10/6/2009	148.50	2.31	146.19
SB-A1	4/16/2009	151.31	3.95	147.36
	10/6/2009	151.31	4.22	147.09
SB-A2	4/16/2009	151.08	3.69	147.39
	10/6/2009	151.08	3.96	147.12
SB-B1 (S)	4/16/2009	148.52	4.23	144.29
	10/6/2009	148.52	4.43	144.09
SB-B2 (I)	4/16/2009	148.21	1.67	146.54
	10/6/2009	148.21	2.88	145.33
SB-B3 (D)	4/16/2009	148.53	2.44	146.09
	10/6/2009	148.53	3.34	145.19
SB-C1	4/16/2009	148.15	3.82	144.33
	10/6/2009	148.15	5.74	142.41
SB-C2	4/16/2009	147.88	3.12	144.76
	10/6/2009	147.88	3.87	144.01
SB-D1	4/16/2009	148.03	4.13	143.90
	10/6/2009	148.03	4.63	143.40
SB-D3(I)	4/16/2009	147.57	2.34	145.23
	10/6/2009	147.57	2.90	144.67
SB-D2	4/16/2009	147.91	3.09	144.82
	10/6/2009	147.91	3.89	144.02
SC-8US	4/16/2009	150.08	5.18	144.90
	10/6/2009	150.08	5.52	144.56
SC-8UUI	4/16/2009	150.07	4.30	145.77
	10/6/2009	150.07	2.43	147.64
SC-8LUI	4/16/2009	150.20	4.62	145.58
	10/6/2009	150.20	2.80	147.40
SC-10US	4/16/2009	150.09	4.06	146.03
	10/6/2009	150.09	4.42	145.67
SC-10UUI	4/16/2009	149.15	2.15	147.00
	10/6/2009	149.15	2.97	146.18
SC-10LUI	4/16/2009	149.49	2.65	146.84
	10/6/2009	149.49	3.73	145.76
SC-11US	4/16/2009	150.75	3.92	146.83
	10/6/2009	150.75	4.16	146.59
SC-11UUI	4/16/2009	150.25	2.55	147.70
	10/6/2009	150.25	3.23	147.02
SC-18US	4/16/2009	149.78	3.79	145.99
	10/6/2009	149.78	4.19	145.59
SC-18UUI	4/16/2009	149.64	2.91	146.73
	10/6/2009	149.64	3.67	145.97

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

TABLE 6
SUMMARY OF EXTRACTION WELL GAUGING DATA
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

ID	DATE	ELEVATION (TOP OF PVC)	DEPTH TO WATER	APPROXIMATE DRAWDOWN	GW ELEVATION
SB-4D	**2007**				
	11/30/2007	150.51	7.00	4.31	143.51
	2008				
	3/17/2008	150.51	2.76	0.07	147.75
	3/31/2008	150.51	2.47	-0.22	148.04
	4/29/2008	150.51	2.41	-0.28	148.10
	5/5/2008	150.51	6.40	3.71	144.11
	5/20/2008	150.51	2.96	0.27	147.55
	5/27/2008	150.51	3.12	0.43	147.39
	6/4/2008	150.51	3.41	0.72	147.10
	6/10/2008	150.51	3.43	0.74	147.08
	6/20/2008	150.51	3.29	0.60	147.22
	7/1/2008	150.51	7.30	4.61	143.21
	7/8/2008	150.51	7.45	4.76	143.06
	7/15/2008	150.51	7.23	4.54	143.28
	8/5/2008	150.51	3.05	0.36	147.46
	8/13/2008	150.51	5.40	2.71	145.11
	8/19/2008	150.51	5.25	2.56	145.26
	9/9/2008	150.51	5.11	2.42	145.40
	9/16/2008	150.51	5.32	2.63	145.19
	2009				
	5/7/2009	150.51	5.05	2.36	145.46
	5/12/2009	150.51	6.18	3.49	144.33
	5/26/2009	150.51	5.98	3.29	144.53
	6/2/2009	150.51	5.76	3.07	144.75
	6/9/2009	150.51	6.36	3.67	144.15
	6/16/2009	150.51	5.40	2.71	145.11
	6/25/2009	150.51	5.52	2.83	144.99
	7/7/2009	150.51	5.72	3.03	144.79
	7/14/2009	150.51	5.21	2.52	145.30
	7/20/2009	150.51	4.56	1.87	145.95
	7/28/2009	150.51	6.02	3.33	144.49
	8/4/2009	150.51	5.75	3.06	144.76
	8/11/2009	150.51	5.34	2.65	145.17
	8/17/2009	150.51	5.78	3.09	144.73
	8/25/2009	150.51	5.65	2.96	144.86
	9/1/2009	150.51	3.35	0.66	147.16
	9/8/2009	150.51	4.39	1.70	146.12
	9/15/2009	150.51	5.36	2.67	145.15
	9/22/2009	150.51	5.98	3.29	144.53
	9/29/2009	150.51	5.65	2.96	144.86
	10/6/2009	150.51	5.69	3.00	144.82
	10/27/2009	150.51	5.25	2.56	145.26
	11/3/2009	150.51	5.41	2.72	145.10
	11/9/2009	150.51	5.38	2.69	145.13
	11/17/2009	150.51	4.02	1.33	146.49
	11/24/2009	150.51	5.53	2.84	144.98
MW-206(I)	**2007**				
	11/30/2007	149.03	7.90	5.35	141.13
	2008				
	3/17/2008	149.03	3.20	0.65	145.83
	3/31/2008	149.03	2.38	-0.17	146.65
	4/18/2008	149.03	6.15	3.60	142.88
	4/29/2008	149.03	2.29	-0.26	146.74
	5/5/2008	149.03	6.32	3.77	142.71
	5/20/2008	149.03	6.62	4.07	142.41
	6/4/2008	149.03	7.03	4.48	142.00
	6/10/2008	149.03	7.05	4.50	141.98
	7/8/2008	149.03	3.29	0.74	145.74
	7/15/2008	149.03	4.01	1.46	145.02
	7/23/2008	149.03	6.82	4.27	142.21
	7/29/2008	149.03	6.87	4.32	142.16
	8/5/2008	149.03	6.85	4.30	142.18
	8/13/2008	149.03	6.58	4.03	142.45
	8/19/2008	149.03	5.88	3.33	143.15
	9/2/2008	149.03	7.20	4.65	141.83
	9/9/2008	149.03	6.25	3.70	142.78
	9/16/2008	149.03	6.24	3.69	142.79
	2009				
	5/7/2009	149.03	4.36	1.81	144.67
	5/12/2009	149.03	4.38	1.83	144.65
	6/2/2009	149.03	4.52	1.97	144.51
	6/9/2009	149.03	4.72	2.17	144.31
	6/16/2009	149.03	4.38	1.83	144.65
	6/25/2009	149.03	4.22	1.67	144.81
	7/7/2009	149.03	4.28	1.73	144.75
	7/14/2009	149.03	5.86	3.31	143.17
	7/20/2009	149.03	5.95	3.40	143.08
	7/28/2009	149.03	5.71	3.16	143.32
	8/4/2009	149.03	4.34	1.79	144.69
	8/11/2009	149.03	4.26	1.71	144.77
	8/17/2009	149.03	4.63	2.08	144.40
	8/25/2009	149.03	4.91	2.36	144.12
	9/1/2009	149.03	4.72	2.17	144.31
	9/8/2009	149.03	5.05	2.50	143.98
	9/15/2009	149.03	4.89	2.34	144.14
	9/22/2009	149.03	5.79	3.24	143.24
	9/29/2009	149.03	5.61	3.06	143.42
	10/6/2009	149.03	6.09	3.54	142.94
	10/27/2009	149.03	5.64	3.09	143.39
	11/3/2009	149.03	5.31	2.76	143.72
	11/9/2009	149.03	5.81	3.26	143.22
	11/17/2009	149.03	5.35	2.80	143.68
	11/24/2009	149.03	5.95	3.40	143.08

NOTES:
1. Depth to water measured in feet.
2. Well elevation referenced to North American Vertical Datum of 1988 (NAVD 88).
3. Data collected included periods of system operation and downtime, and does not account for seasonal variability
4. Shading indicates maximum drawdown for each year.
5. Negative drawdown values indicate periods that the pump was not operating and the ambient ground water elevation exceeded the reference value.

TABLE 7A
SUMMARY OF LABORATORY ANALYTICAL DATA
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 7B
SUMMARY OF LABORATORY ANALYTICAL DATA
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	8-Sep-09	15-Sep-09	22-Sep-09	29-Sep-09	6-Oct-09	27-Oct-09	3-Nov-09	9-Nov-09	17-Nov-09	24-Nov-09
benzene	N/A	**29**	**31**	**28**	**31**	**25**	**28**	**27**	**25**	**26**	**22**	**24**	**26**	**26**	**23**	**24**	**23**	**21**	**22**	**21**	**22**	**27**	**27**	**24**	**30**	**29**	**26**	**27**	**25**
ethylbenzene	**1,590**	**20**	**23**	**19**	**20**	**22**	**22**	**21**	**20**	**22**	**20**	**25**	**26**	**27**	**20**	**22**	**20**	**17**	**19**	**21**	**23**	**25**	**25**	**25**	**29**	**27**	**22**	**28**	**23**
toluene	**1,350**	<10	<10	**2**	**2**	2	**3**	**2**	**2**	**3**	**2**	**3**	**3**	**3**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**3**	**2**	**2**	**3**	**3**	**2**	**3**	**2**
xylenes (total)	N/A	**50**	**58**	**46**	**51**	**50**	**56**	**54**	**51**	**53**	**50**	**67**	**71**	**74**	**58**	**64**	**61**	**53**	**60**	**63**	**73**	**70**	**77**	**73**	**81**	**81**	**67**	**84**	**68**
PCE	**530**	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<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	<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	<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	<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	<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**	**1,400**	**1,700**	**1,500**	**2,000**	**1,700**	**1,700**	**2,800**	**2,100**	**1,500**	**2,300**
MEK	**249,000**	<50	<50	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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**	<2	**3**	**3**	**4**	**3**	**4**	**4**	**3**	**4**	**3**
1,2-dichloropropane	**3,650**	<10	<10	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<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	<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	<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	<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	<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	<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 8A
SUMMARY OF LABORATORY ANALYTICAL DATA
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 8B
SUMMARY OF LABORATORY ANALYTICAL DATA
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	8-Sep-09	15-Sep-09	22-Sep-09	29-Sep-09	6-Oct-09	27-Oct-09	3-Nov-09	9-Nov-09	17-Nov-09	24-Nov-09
benzene	N/A	**21**	**35**	**37**	**37**	**33**	**35**	**33**	**34**	**33**	**29**	**34**	**38**	**34**	**32**	**35**	**35**	**29**	**28**	**30**	**3**	**25**	**34**	**34**	**39**	**38**	**7**	**34**	**34**
ethylbenzene	**1,590**	**23**	**24**	**22**	**23**	**20**	**23**	**26**	**20**	**25**	**27**	**24**	**25**	**29**	**28**	**28**	**28**	**21**	**22**	**18**	**2**	**12**	**28**	**33**	**31**	**29**	**4**	**34**	**27**
toluene	**1,350**	**36**	**38**	**50**	**46**	**46**	**48**	**47**	**41**	**40**	**40**	**39**	**37**	**41**	**37**	**32**	**34**	**31**	**34**	**19**	**3**	**13**	**33**	**29**	**16**	**28**	**3**	**21**	**23**
xylenes (total)	N/A	**118**	**136**	**122**	**119**	**136**	**145**	**134**	**147**	**136**	**137**	**157**	**167**	**158**	**159**	**180**	**180**	**155**	**167**	**151**	**22**	**106**	**159**	**194**	**212**	**180**	**33**	**214**	**167**
PCE	**530**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<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	<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	<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	<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	<50	**89**	**50**	<50	<50	<50	<50	**74**	<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**	**1,200**	**1,300**	**1,300**	**1,400**	**1,500**	**1,500**	**1,400**	**1,500**	**1,600**	**2,300**
MEK	**249,000**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<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	<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	<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	<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	<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	<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	<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	<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**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
chloroform	**420**	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<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	<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	<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	<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	<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**	**6**	<2	**4**	**6**	**6**	**8**	**7**	<2	**7**	**7**
chlorobenzene	**2,350**	**3**	**3**	**3**	**2**	**3**	**3**	**3**	**3**	**2**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	**3**	<2	<2	<2	**3**	**4**	**3**	**3**	<2	**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	<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	<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	<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	<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	<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	<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 9A
SUMMARY OF LABORATORY ANALYTICAL DATA - 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 9B
SUMMARY OF LABORATORY ANALYTICAL DATA - 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)	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
Analyte/Parameter	**Local Limit**	**5/7/2009**	**6/2/2009**	**7/7/2009**	**8/4/2009**	**9/8/2009**	**10/6/2009**	**11/9/2009**
Total Arsenic	0.4	**0.064**	**0.054**	**0.036**	**0.030**	**0.010**	**0.012**	**0.009**
Total Cadmium	0.02	<0.005	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Total Chromium	4.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Copper	3.46	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Lead	0.806	<0.008	<0.008	<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**	<0.05	<0.05	<0.05	**0.05**	<0.05	**0.05**
Selenium	8.55	<0.05	<0.05	<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
Total Zinc	4.33	<0.05	<0.05	<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	**0.05**	<0.05	**0.05**	**0.09**	**0.05**	<0.05
Analyte/Parameter	**Screening Level**	**5/7/2009**	**6/2/2009**	**7/7/2009**	**8/4/2009**	**9/8/2009**	**10/6/2009**	**11/9/2009**
1,1,1-Trichloroethylene	1.55	<0.010*	<0.002*	<0.002*	<0.002*	<0.002*	<0.002*	<0.002*
1,1-Dichloroethane	4.58	<0.010	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2,4-Trichlorobenzene	0.43	<0.010	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,2-Dichlorobenzene	3.74	<0.010	**0.002**	**0.003**	**0.002**	**0.002**	**0.002**	**0.003**
1,2-Dichloropropane	3.65	<0.010	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,3-Dichloropropene (Total)	0.09	<0.020	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
1,4-Dichlorobenzene	3.54	<0.010	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
2-Butanone (MEK)	249	<0.050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Acetone	1,176	<0.250	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Acrylonitrile	1.24	---	---	---	---	---	---	---
Bromomethane	0.002	<0.010	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Carbon Disulfide	0.06	<0.010	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chlorobenzene	2.35	<0.010	**0.002**	**0.002**	**0.002**	<0.002	<0.002	<0.002
Chloroform	0.42	<0.010	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Chloromethane	0.007	<0.010	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Dichlorodifluoromethane	0.04	<0.010	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	1.59	**0.014**	**0.020**	**0.021**	**0.022**	**0.014**	**0.004**	**0.006**
Ethylene Dichloride	1.05	<0.010	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Hexachloroethane	0.96	---	---	---	---	---	---	---
Hexachloro-1,3-Butadiene	0.0002	<0.010	<0.002	<0.002	<0.0005	<0.0005	<0.0005	<0.0005
Methylene Chloride	4.15	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	3.34	<0.025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Tetrachloroethylene	0.53	<0.010	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Toluene	1.35	**0.015**	**0.021**	**0.017**	**0.014**	<0.002	**0.004**	**0.002**
trans-1,2-Dichloroethylene	0.28	<0.010	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichloroethylene	0.71	<0.010	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Trichlorofluoromethane	1.22	<0.010	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Vinyl Acetate	1.21	<0.050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Vinyl Chloride	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Formaldehyde	0.07	**0.697[A]**	**0.310[B]**	**0.340[B]**	**0.190[B]**	**0.140[B]**	**0.170[B]**	**0.170[B]**
Heptachlor	0.003	---	---	---	---	---	---	---
Sulfate	150/1,500	---	---	---	---	---	---	---
Sulfide	1	<0.04	<0.04	<0.04	<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^**	**6.5^**	**6.8^**	**6.4^**
Alkalinity (as CaCO3)	>75.0	---	---	---	---	---	---	---
Biological Oxygen Demand	791	**20**	**19**	**25**	**25**	**13**	**18**	**17^**
Total Suspended Solids	847	**82**	**95**	**99**	**80**	**52**	**49**	**35**
ADDITIONAL ANALYSES (NON-PERMIT) REQUESTED BY POTW								
Analyte/Parameter		**5/7/2009**	**6/2/2009**	**7/7/2009**	**8/4/2009**	**9/8/2009**	**10/6/2009**	**11/9/2009**
Antimony		<0.006	**0.006**	<0.006	<0.006	<0.006	<0.006	<0.006
Beryllium		<0.004	<0.004	<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
Thallium		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Tetrahydrofuran		**1.6**	**1.9**	**1.6**	**1.5**	**1.4**	**1.5**	**1.8**
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 10A
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	83,158	314,789	7.87E-03	6.63E-01
SB-4D	**31**	**1,679**	NA	0.93	120,840	457,427	1.42E-02	7.68E-01
TOTAL TO DATE:					264,588	1,001,574	2.68E-02	2.01E+00
SUMMARY								
TOTAL ESTIMATED MASS REMOVED IN 2008:							**kg**	**lbs**
Benzene							**0.03**	**0.06**
Tetrahydrofuran							**2.01**	**4.43**
						TOTAL:	**Total:**	**4.49**

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 10B
MASS REMOVAL CALCULATIONS - 2009
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**	**Gallons Pumped**	**Liters Pumped**	**Benzene (kg)**	**Tetrahydrofuran (kg)**
2009 Operating Season:							
5/7/2009	**25**	**1,650**	MW-206(I)/SB-4D	9,000	34,069	8.52E-04	5.62E-02
5/12/2009	**33**	**1,850**	MW-206(I)/SB-4D	9,000	34,069	1.12E-03	6.30E-02
5/19/2009	**32.5**	**1,600**	MW-206(I)/SB-4D	12,000	45,425	1.48E-03	7.27E-02
5/26/2009	**34**	**1,700**	MW-206(I)/SB-4D	9,000	34,069	1.16E-03	5.79E-02
6/2/2009	**29**	**2,000**	MW-206(I)/SB-4D	9,000	34,069	9.88E-04	6.81E-02
6/9/2009	**31.5**	**1,850**	MW-206(I)/SB-4D	9,000	34,069	1.07E-03	6.30E-02
6/16/2009	**30**	**2,350**	MW-206(I)/SB-4D	9,000	34,069	1.02E-03	8.01E-02
6/25/2009	**29.5**	**1,700**	MW-206(I)/SB-4D	9,000	34,069	1.01E-03	5.79E-02
6/30/2009	**29.5**	**1,950**	MW-206(I)/SB-4D	7,000	26,498	7.82E-04	5.17E-02
7/7/2009	**25.5**	**1,600**	MW-206(I)/SB-4D	9,000	34,069	8.69E-04	5.45E-02
7/14/2009	**29**	**1,750**	MW-206(I)/SB-4D	9,668	70,666	2.05E-03	1.24E-01
7/28/2009	**30**	**2,350**	MW-206(I)/SB-4D	22,500	85,172	2.56E-03	2.00E-01
8/4/2009	**27.5**	**1,650**	MW-206(I)/SB-4D	14,800	56,024	1.54E-03	9.24E-02
8/11/2009	**29.5**	**1,450**	MW-206(I)/SB-4D	10,000	37,854	1.12E-03	5.49E-02
8/17/2009	**29**	**1,550**	MW-206(I)/SB-4D	11,000	41,640	1.21E-03	6.45E-02
8/25/2009	**25**	**1,500**	MW-206(I)/SB-4D	10,500	39,747	9.94E-04	5.96E-02
9/1/2009	**22**	**1,400**	MW-206(I)	8,000	30,283	6.66E-04	4.24E-02
9/8/2009	**21**	**1,400**	MW-206(I)	7,000	26,498	5.56E-04	3.71E-02
9/15/2009	**22**	**1,700**	MW-206(I)	9,000	34,069	7.50E-04	5.79E-02
9/22/2009	**27**	**1,500**	MW-206(I)	10,500	39,747	1.07E-03	5.96E-02
9/29/2009	**34**	**1,400**	SB-4D	3,000	11,356	3.86E-04	1.59E-02
10/6/2009	**24**	**1,700**	MW-206(I)	12,000	45,425	1.09E-03	7.72E-02
10/27/2009	**34.5**	**1,600**	---	---	---	---	---
11/3/2009	**38**	**1,400**	SB-4D	16,100	60,945	2.32E-03	8.53E-02
11/9/2009	**26**	**2,100**	MW-206(I)	3,000	11,356	2.95E-04	2.38E-02
11/17/2009	**30.5**	**1,550**	---	---	---	---	---
11/24/2009	**29.5**	**2,300**	MW-206(I)/SB-4D	20,000	75,708	2.23E-03	1.74E-01
TOTAL TO DATE (2009):				258,068	1,010,962	2.92E-02	1.79E+00

SUMMARY		
TOTAL ESTIMATED MASS REMOVED DURING CURRENT OPERATING SEASON:	**kg**	**lbs**
Benzene	**0.03**	**0.06**
Tetrahydrofuran	**1.79**	**3.95**
TOTAL:	**1.82**	**4.01**

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.
5. --- = GWE system was not operational at time sample was collected; concentration data from periods of pumping used to calculate mass removal values.
6. During periods that both wells were pumping, constituent concentration values represent the average of influent concentrations from MW-206(I) and SB-4D.

FIGURES

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

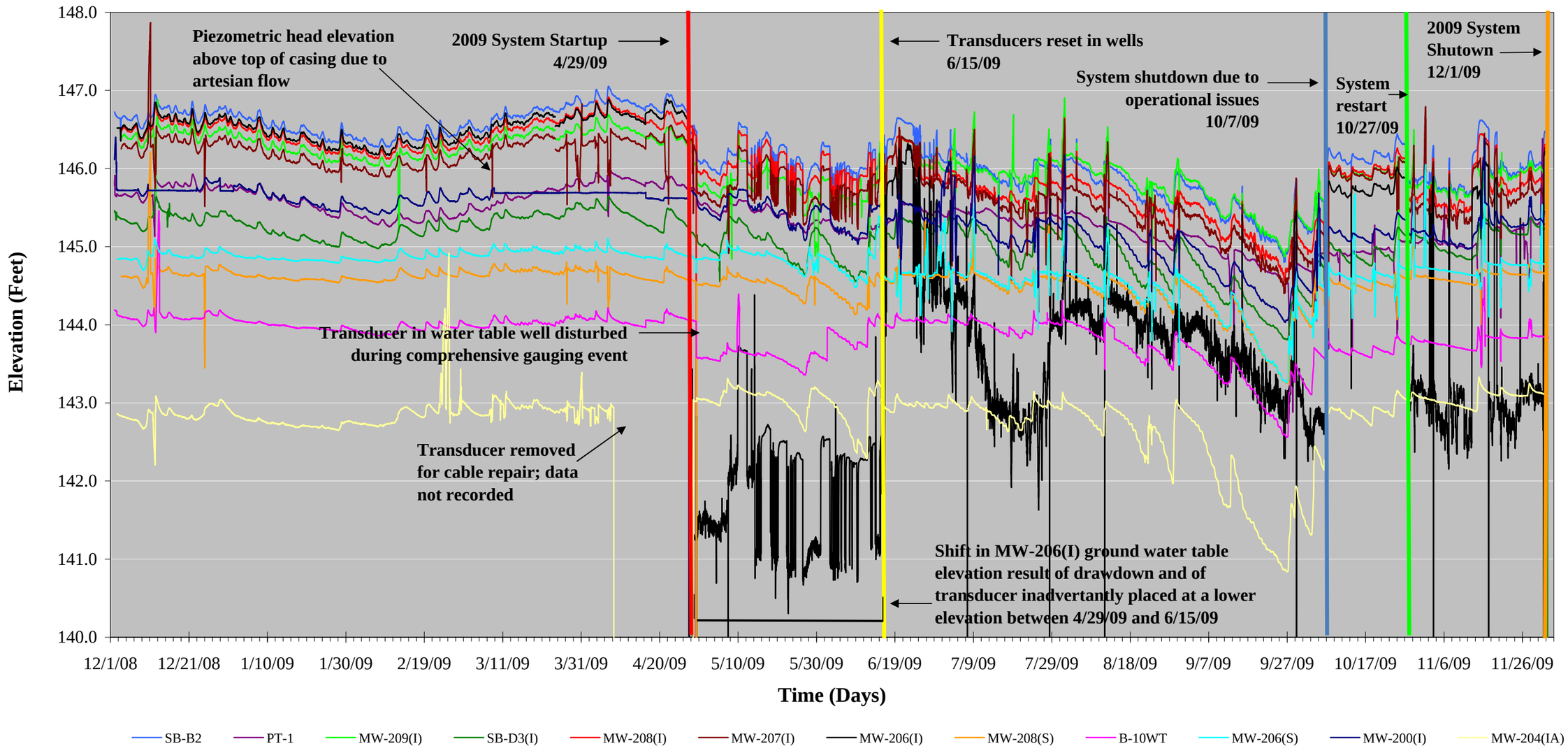


FIGURE 1B
TRANSDUCER WATER ELEVATION DATA (DECEMBER 2, 2008 - DECEMBER 1, 2009)
WELLS SCREENED IN THE PUMPING ZONE
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

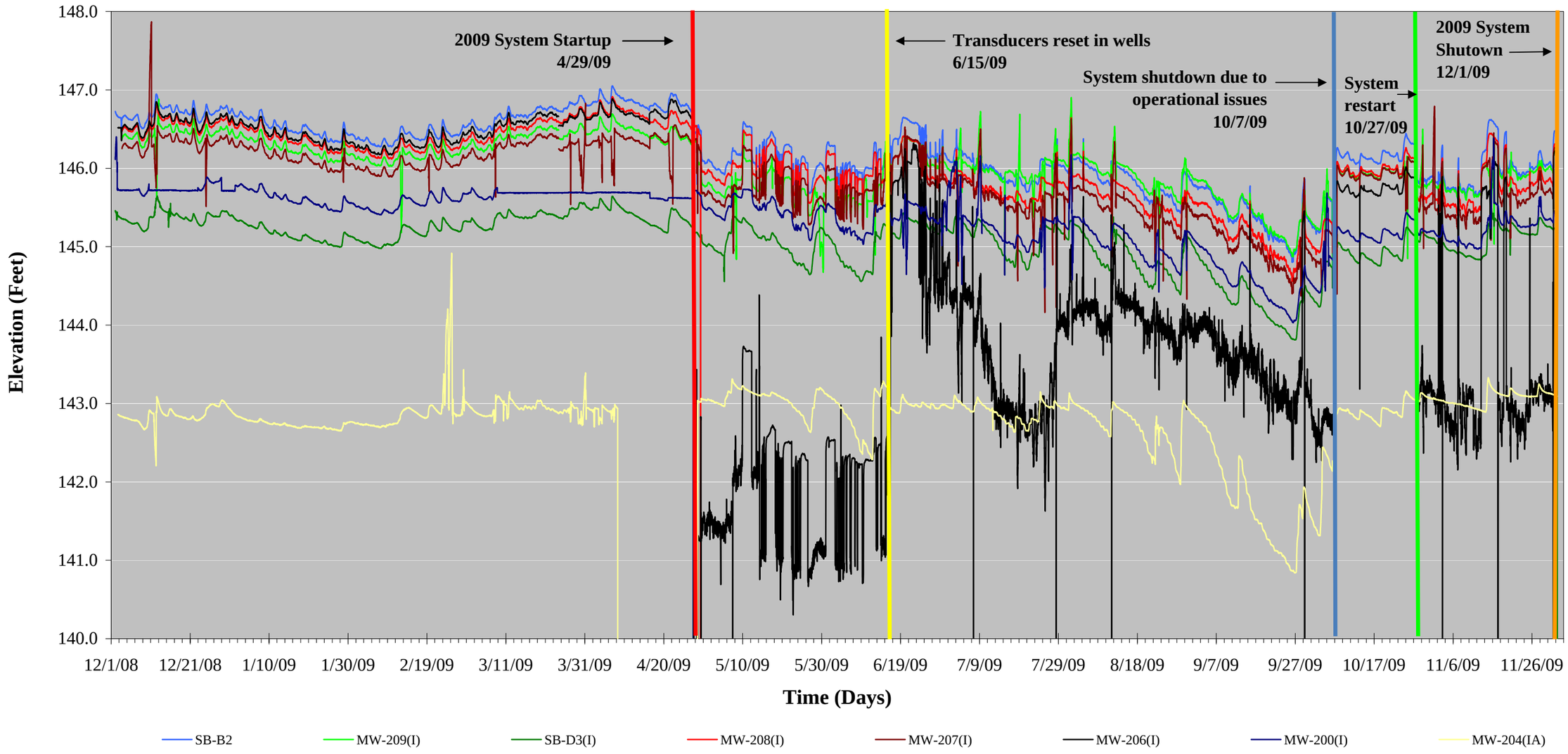


FIGURE 1C
TRANSDUCER WATER ELEVATION DATA (DECEMBER 2, 2008 - DECEMBER 1, 2009)
WELLS SCREENED ABOVE AND BELOW THE PUMPING ZONE
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

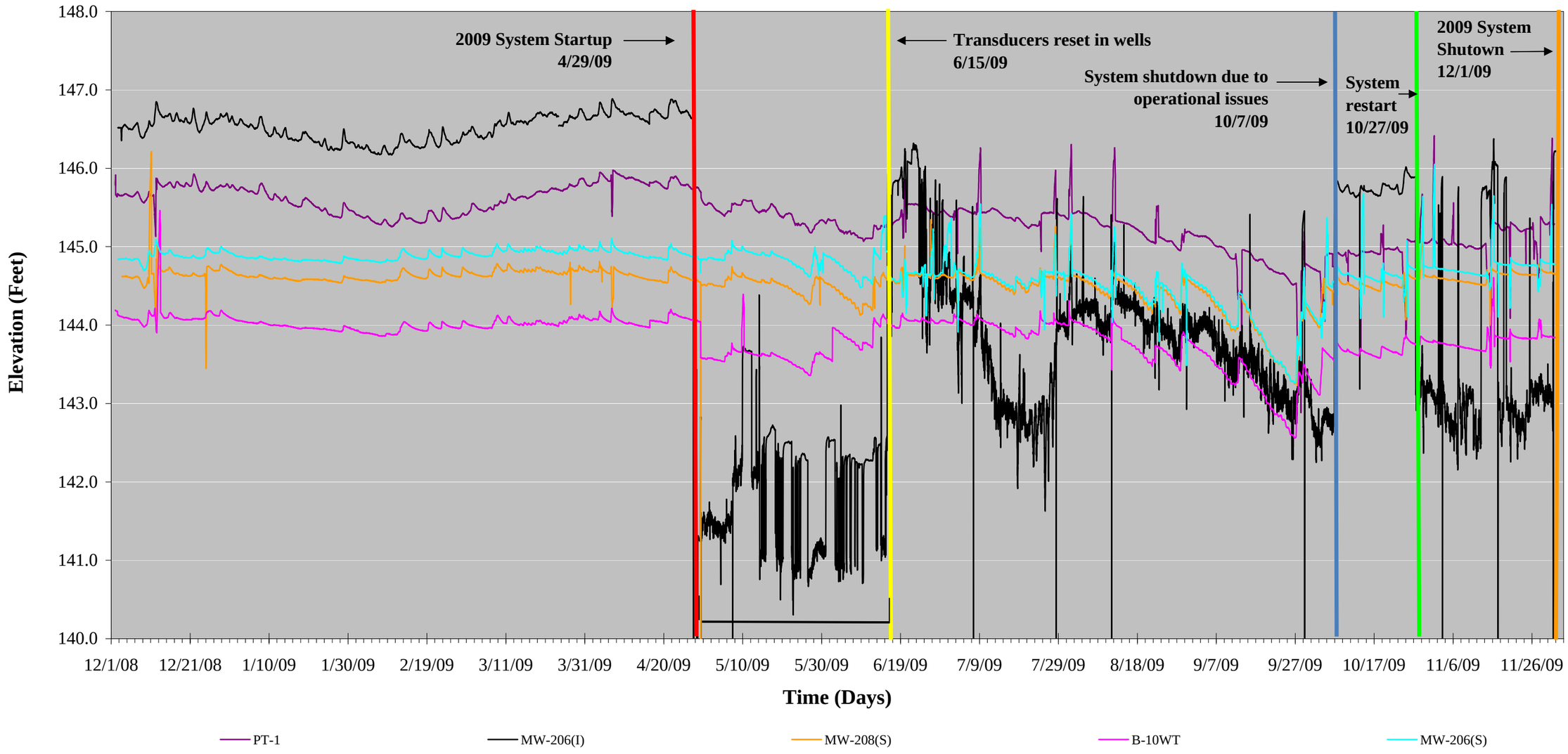
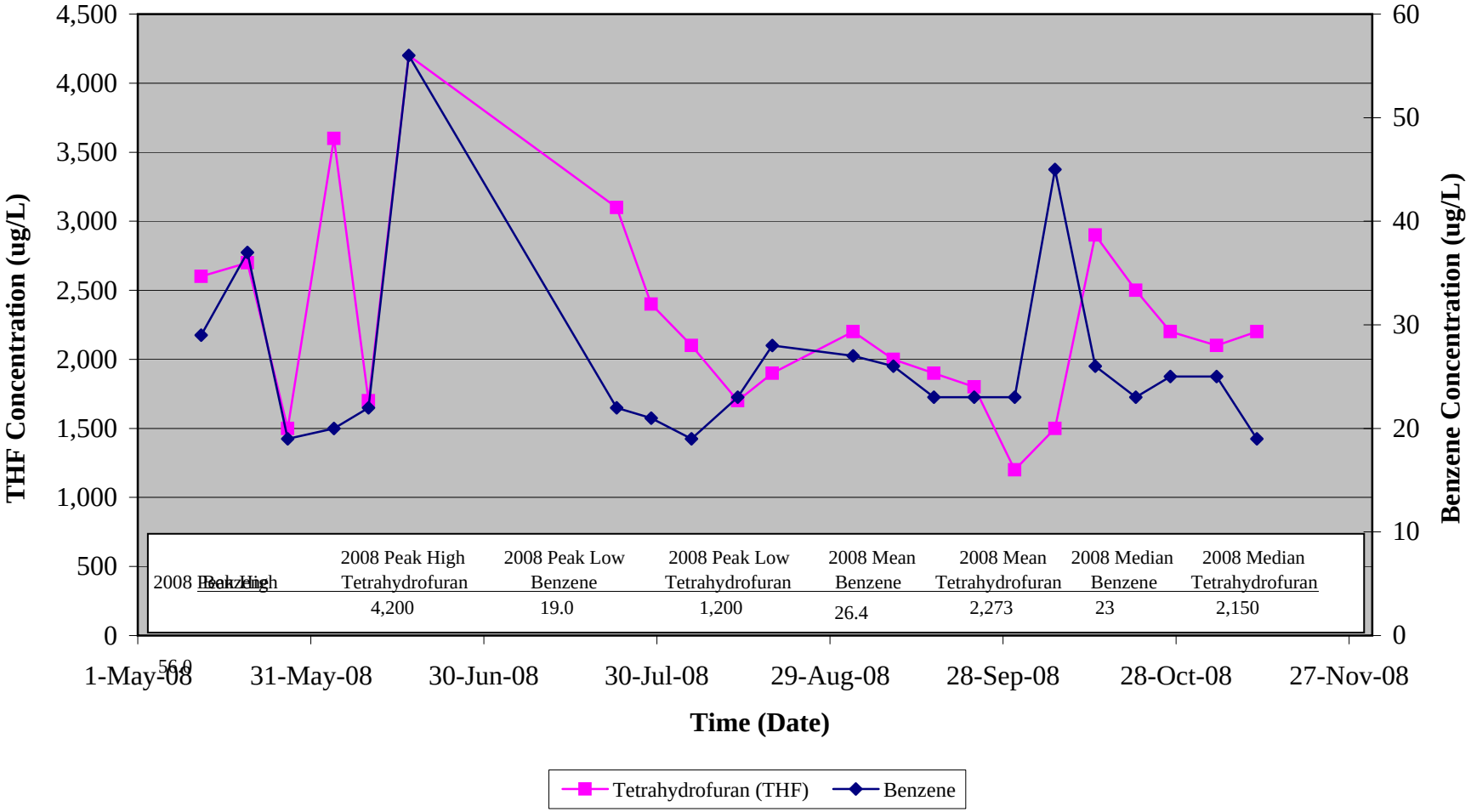


FIGURE 2A
CONCENTRATION VERSUS TIME - MW-206I - 2008
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE



April 10, 2010
GeoInsight Project 2009-009

FIGURE 2B
CONCENTRATION VERSUS TIME - MW-206I - 2009
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

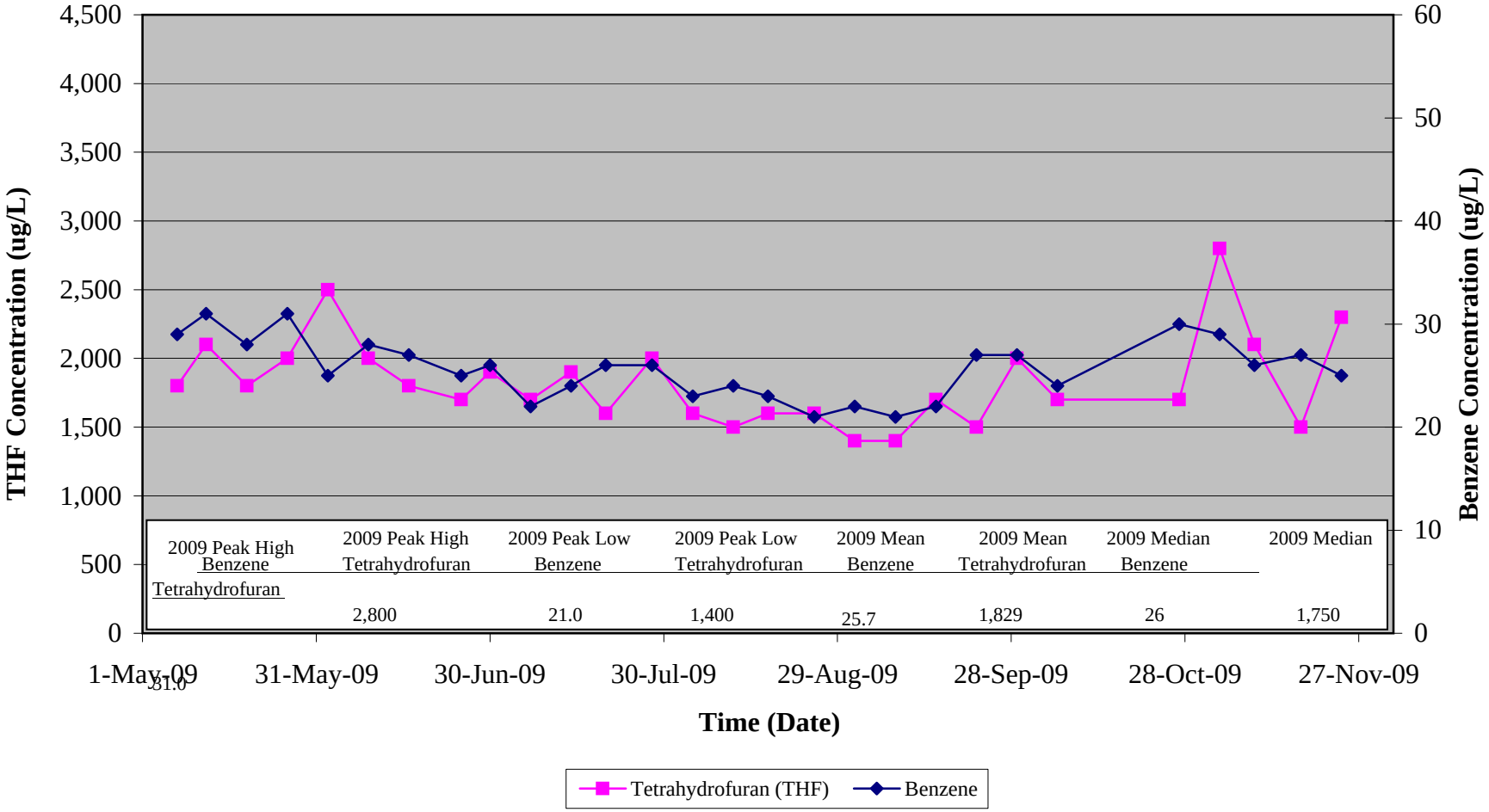


FIGURE 3A
CONCENTRATION VERSUS TIME - SB-4D - 2008
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

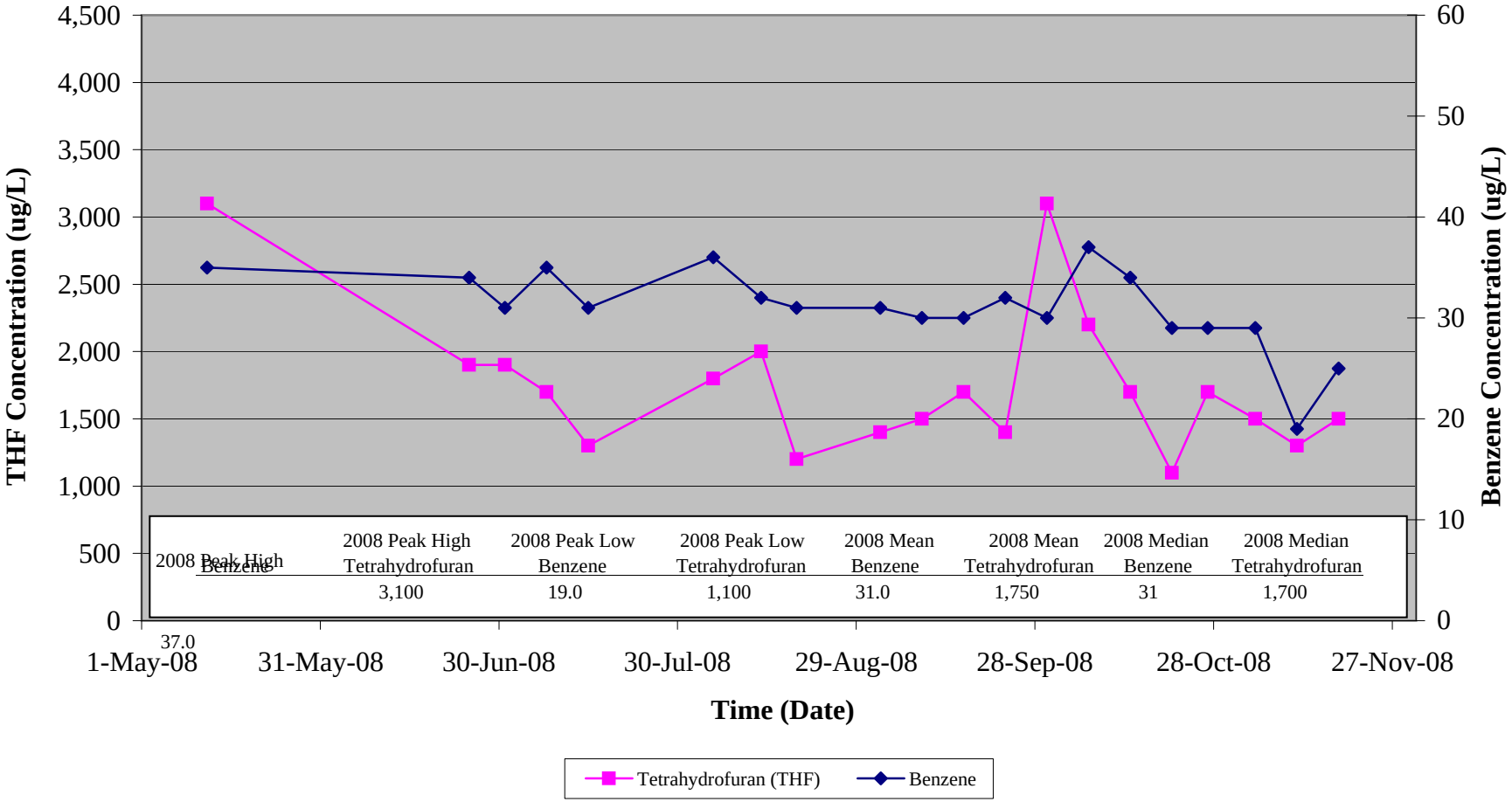
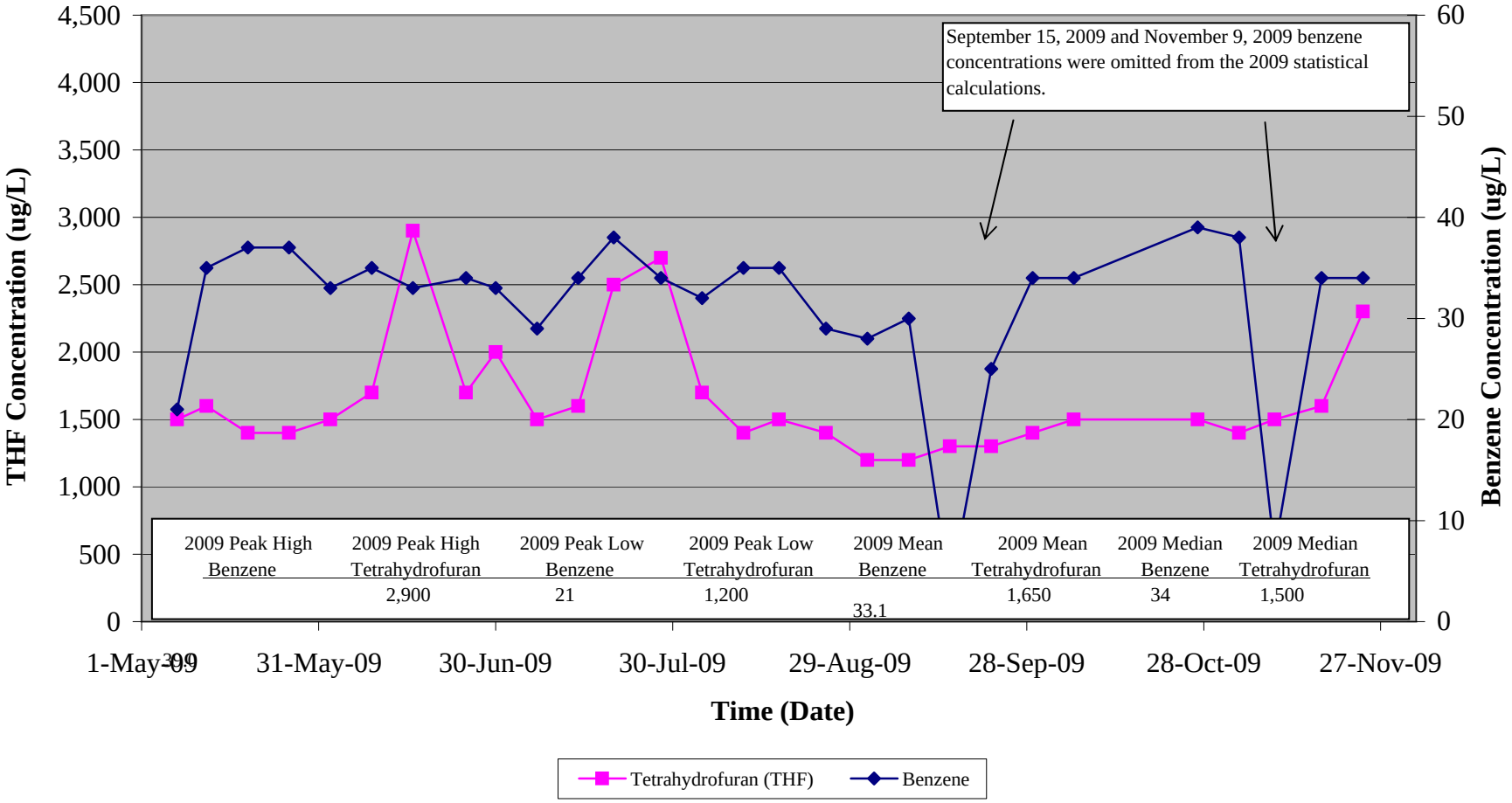
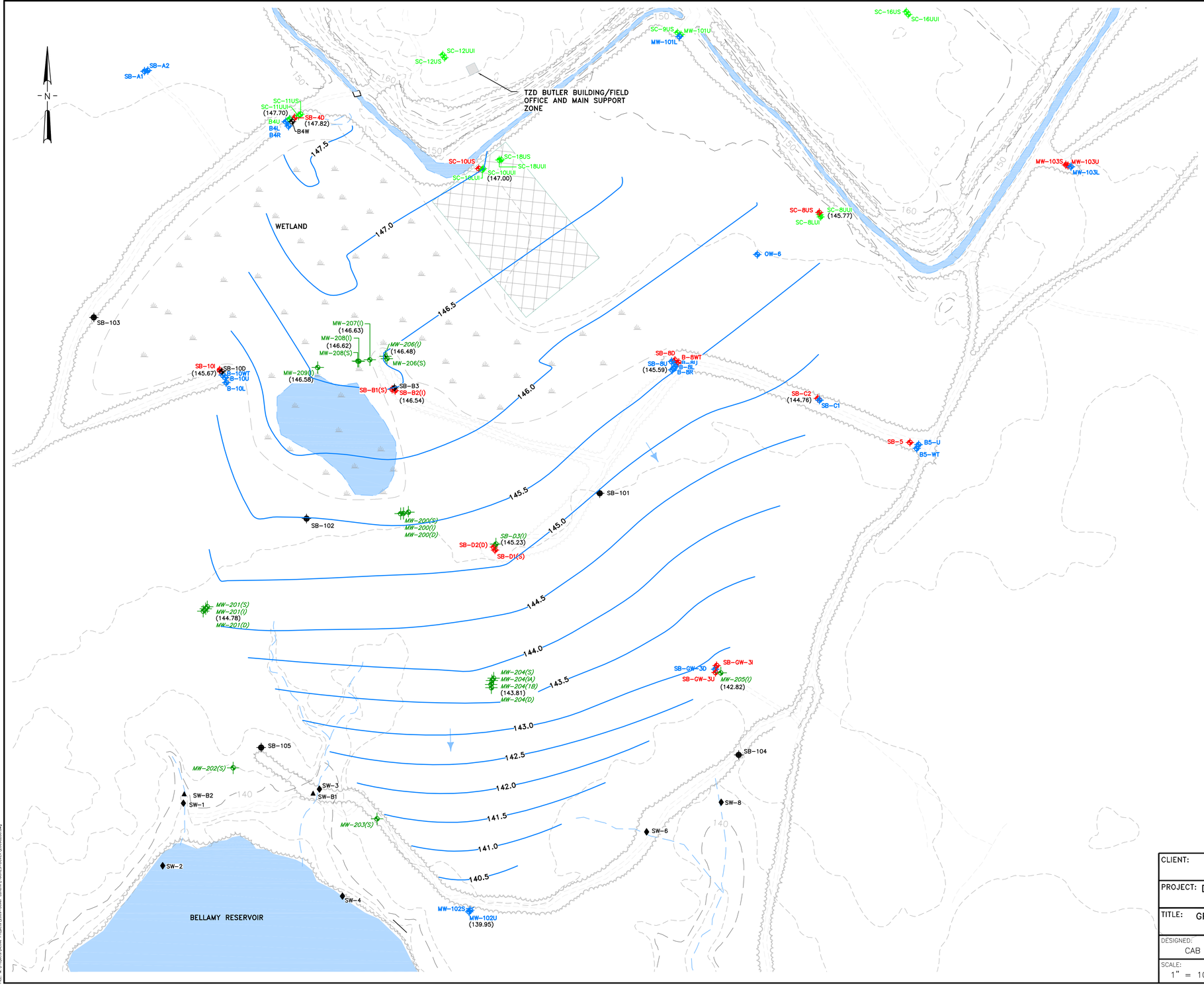


FIGURE 3B
CONCENTRATION VERSUS TIME - SB-4D - 2009
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE





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
SB	SOIL BORING LOCATION (GEOINSIGHT 2006)
MW-201	SOIL BORING/MONITORING WELL (GEOINSIGHT 2007)
150	EXISTING TOPOGRAPHIC CONTOUR
	PAVED ROAD
	UNPAVED ROAD OR DRIVE
144.0	GROUND WATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
	INFERRED DIRECTION OF GROUND WATER FLOW
(142.82)	GROUND WATER ELEVATION

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.

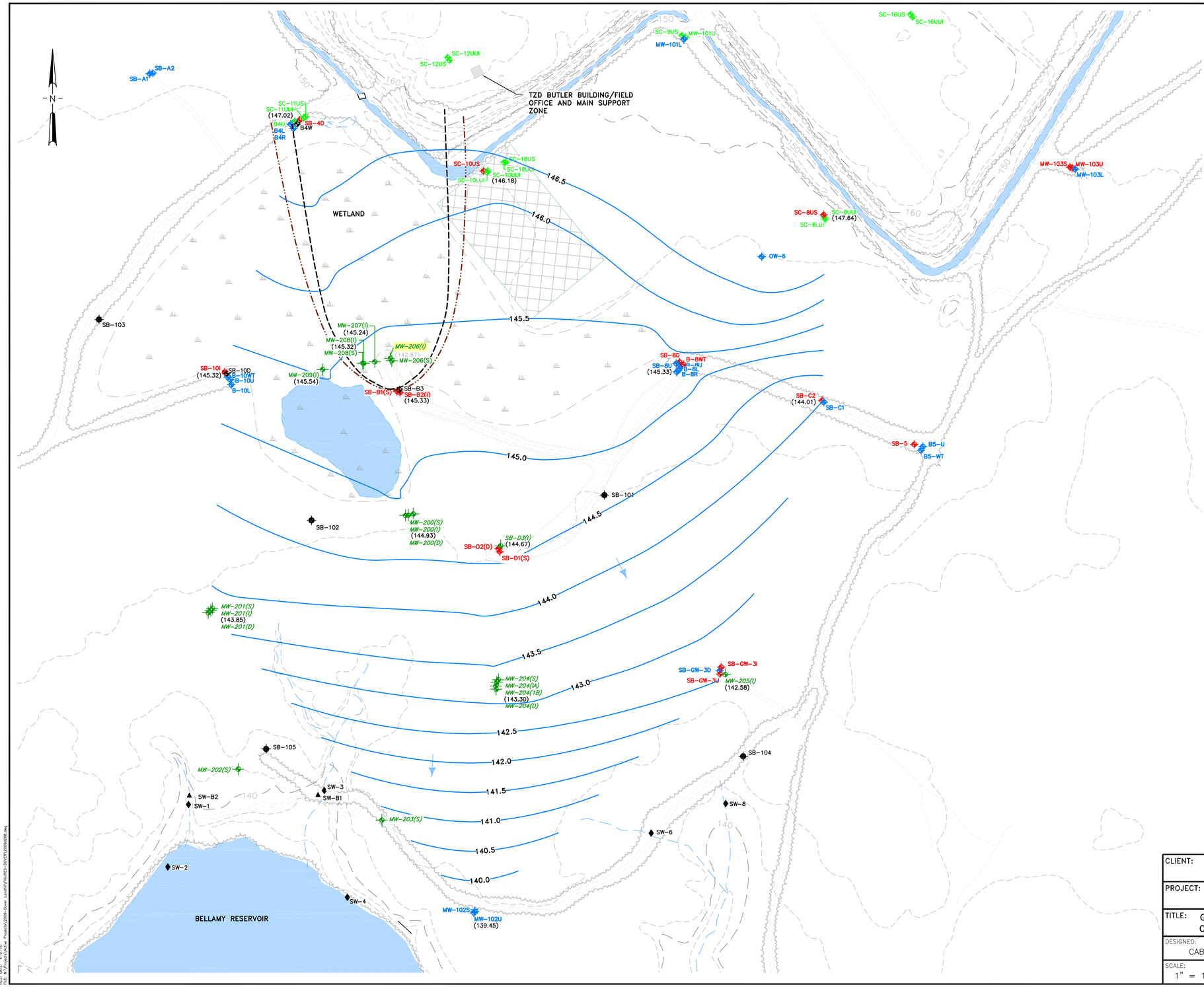
2. MONITORING WELL LOCATIONS AND SITE FEATURES UPDATED IN NOVEMBER 2007, BASED UPON COMPREHENSIVE SITE SURVEY PERFORMED BY VERMONT SURVEY AND ENGINEERING, INC. OF MONTPELIER, VERMONT. HORIZONTAL – NAD_83(CORS96) SPC(2800 NH) U.S. FEET VERTICAL – NAVD88(GEOID03) FEET

3. LOCATION OF SURFACE WATER SAMPLING STATION SW-8 IS APPROXIMATE.

4. GROUND WATER ELEVATION DATA CONTOURED USING LINEAR TRIANGULATION INTERPOLATION METHODS USING CARLSON CIVIL 2010 SOFTWARE. SMOOTHING TECHNIQUES WERE NOT APPLIED TO THE DATA SET.

0 100 200
APPROX. SCALE IN FEET

CLIENT: DOVER GROUP				GeoInsight Practical in Nature
PROJECT: DOVER LANDFILL SUPERFUND SITE DOVER, NEW HAMPSHIRE				
TITLE: GROUND WATER CONTOUR MAP – UUI APRIL 16, 2009 (BASELINE)				
DESIGNED: CAB	DRAWN: NMT	CHECKED: CAB	APPROVED: MJW	
SCALE: 1" = 100'	DATE: 04/06/10	FILE NO.: 2009D280	PROJECT NO.: 2009-015	FIGURE NO.: 4



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
SB	SOIL BORING LOCATION (GEOINSIGHT 2006)
MW-201	SOIL BORING/MONITORING WELL (GEOINSIGHT 2007)
150	EXISTING TOPOGRAPHIC CONTOUR
	PAVED ROAD
	UNPAVED ROAD OR DRIVE
	THEORETICAL CAPTURE ZONE (2009)
	ESTIMATED CAPTURE ZONE
144	GROUND WATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
	INFERRED DIRECTION OF GROUND WATER FLOW
(144.01)	GROUND WATER ELEVATION
(142.87)	DATA NOT INCLUDED IN CONTOUR MAPPING
MW-206(I)	ACTIVE EXTRACTION WELL (PUMPING AT APPROXIMATELY 0.75 GALLONS PER MINUTE)

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 AND SITE FEATURES UPDATED IN NOVEMBER 2007, BASED UPON COMPREHENSIVE SITE SURVEY PERFORMED BY VERMONT SURVEY AND ENGINEERING, INC. OF MONTPELIER, VERMONT. HORIZONTAL – NAD_83(CORS96) SPC(2800 NH) U.S. FEET VERTICAL – NAVD88(GEOID03) FEET

3. LOCATION OF SURFACE WATER SAMPLING STATION SW-8 IS APPROXIMATE.

4. GROUND WATER ELEVATION DATA CONTOURED USING LINEAR TRIANGULATION INTERPOLATION METHODS USING CARLSON CIVIL 2010 SOFTWARE. SMOOTHING TECHNIQUES WERE NOT APPLIED TO THE DATA SET.

0 100 200
APPROX. SCALE IN FEET

CLIENT: DOVER GROUP				GeoInsight Practical in Nature
PROJECT: DOVER LANDFILL SUPERFUND SITE DOVER, NEW HAMPSHIRE				
TITLE: GROUND WATER CONTOUR MAP – UUI OCTOBER 6, 2009 (SYSTEM OPERATING)				
DESIGNED: CAB	DRAWN: NMT	CHECKED: CAB	APPROVED: MJW	
SCALE: 1" = 100'	DATE: 04/06/10	FILE NO.: 2009D268	PROJECT NO.: 2009-009	FIGURE NO.: 5

PLOT DATE: 4-23-10
FILE: V:\Projects\Active Projects\2009-Dover Landfill\FIGURES-DOVER\2009d268.dwg

APPENDIX A

LABORATORY ANALYTICAL DATA (ON CD)

APPENDIX B

PERFORMANCE MONITORING WELL ANALYTICAL DATA TABLES

SUMMARY OF GROUND WATER ANALYTICAL DATA
WELL SB-B1
SCREENED INTERVAL 5 - 15 FEET BGS

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

Well SB-B1
[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	Nov-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**	**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	**0.2(J)**
toluene	1,000	**0.5**	**0.8**	**0.4**	**0.5(J)**	<1	**0.5(J)**	<1	<1	<1	<1	<1	**0.6(J)**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
xylene	---	<0.7	<0.7	**0.5**	<1	<1	<1	<1	<1	**0.9(J)**	<1	<1	**2**	<1	**0.9(J)**	<1	<1	<1	<1	<1	<1	**0.4(J)**	<1	<10	<1	<3	<3	<3	**3**	<3	<3	<3	<3	**1(J)**	**0.3(J)**	**0.3(J)**
PCE	5	<0.4	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	**0.6(J)**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TCE	5	<0.3	**0.4**	**0.3**	<1	**0.4(J)**	<1	<1	<1	<1	<1	<1	**0.6(J)**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCE	70	**7**	**8**	**6**	**4(J)**	**5**	**4**	**3**	**3**	**2**	**3**	**2**	**2.5(J)**	**2**	<1	**2**	<1	**1**	**1**	**1**	**2**	<1	**1**	**1(J)**	<1	**0.9(J)**	**1(J)**	**0.8(J)**	<1	**1**	**0.7(J)**	**0.9(J)**	**0.8(J)**	**1(J)**	**0.7(J)**	**0.9(J)**
vinyl chloride	2	**2**	**2**	**2**	**1(J)**	<1	**1**	**1**	**0.7(J)**	**0.7(J)**	**1**	**1(J)**	**1**	<1	<1	**0.9(J)**	**0.7(J)**	**1(J)**	**0.5(J)**	**0.9(J)**	**2**	**0.8(J)**	<1	**1(J)**	<1	**1(J)**	**1**	**0.7(J)**	**1**	**1(J)**	**0.9(J)**	**0.9(J)**	**1**	**0.8(J)**	**0.7(J)**	**0.8(J)**
acetone	700	---	<5	<5	**5(R)**	**2(J)**	**12**	<5	<5	<5	<5	**8**	<5	<5	**7**	<5	<5	<5	<5	<5	**13**	<5	<5	<10	<1	**4(J)**	<5	<5	<5	<5	<5	**3(JB)**	<5	<5	**2(J)**	<5
tetrahydrofuran	154	<1	<5	**11**	**5(R)**	**3(R)**	<5	<5	<5	<5	<5	<5	**6**	**6**	<5	**3(J)**	<5	<5	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	**4(J)**	<5	**5(J)**	**4(J)**
2-butanone	200	---	<5	<5	**5(R)**	**5(R)**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl 2-pentanone	350	---	<5	<5	**5(J)**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
methylene chloride	5	<1	<1	<1	<1	<1	**0.8(JB)**	**0.6(J)**	**1(B)**	**0.8(J)**	**3(B)**	**3(B)**	**5(B)**	**1(B)**	**7(B)**	**0.8(JB)**	**0.7(J)**	<1	<1	<1	<1	<1	<1	<10	<1	<1	<2	<1	<5	<5	<5	<5	<5	**0.5(JB)**	**0.4(JB)**	<5
1,1,1,-TCA	---	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	**5**	**6**	**4**	**3(J)**	**3**	**2**	**2**	**1**	**1**	**1**	**1(J)**	**1**	<1	<1	**0.7(J)**	<1	**0.6(J)**	**0.5(J)**	**0.5(J)**	<1	**0.7(J)**	<1	<10	<1	**0.8(J)**	<1	**0.5(J)**	<1	**0.5(J)**	**0.6(J)**	**0.6(J)**	**0.8(J)**	**0.9(J)**	**0.8(J)**	**0.9(J)**
1,1-DCE	7	<1.3	<1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.8(J)**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	5	**0.8**	**0.7**	<0.7	<1	<1	**2**	<1	<1	**0.5(J)**	<1	**0.6(J)**	**0.6(J)**	<1	<1	**0.8(J)**	<1	**0.9(J)**	**1(J)**	<1	**0.7(J)**	<1	**0.6(J)**	<10	<1	<1	**0.8(J)**	**0.8(J)**	<1	**1**	**1**	**1(J)**	**0.9(J)**	**1(J)**	**1**	**1**
bromomethane	---	<0.3	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1
chloromethane	---	<0.5	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.7(J)**	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.3(J)**	<2	<1
chloroform	---	<0.7	<0.7	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	<0.3	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	<0.3	**0.4**	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	---	<5	**10**	<1	<1	<1	<1	**0.9(J)**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**8**	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
styrene	---	<0.4	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
chloroethane	14,000	**0.8**	**1**	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1
chlorobenzene	---	<0.2	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	**0.5(J)**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	---	<0.3	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	<0.2	<0.2	<0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	<0.4	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	<0.4	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	**0.4**	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-hexanone	---	---	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
arsenic (dissolved)	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1.98	<2.53	3.3(B)	<2.53	<2.08	<2	<1.8	4.3(B)	2.4(B)	<3	<2.81	<3.45	<8	<3.09	2.9(B)	2.9(B)	<1.7	2.5(B)	1.8(B)	2.9(B)
arsenic (total)	---	---	---	<2.40	<2.60	<2	<3.80	4.80	5.20(B)	2.60(B)	<3.00	<2.54	<1.81	2.60(B)	<2.07	<2.19	<1.98	<2.53	6(B)	3.0(B)	<2.08	2.2(B)	3.1(B)	1.5(B)	1.4(B)	<3	<2.81	<3.45	<8	<3.09	4.0(B)	3.3(B)	<1.7	2.6(B)	2.2(B)	3.2(B)
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	56,700
iron (total)	---	148,000	170,000	70,700	74,700	71,300	69,000	62,300	82,600	74,000	75,200	72,800	71,200	70,900	65,900	64,300	42,800	53,800	49,100	49,700	48,500	47,200	48,700	17,200	42,800	45,500	47,100	42,800	53,300	45,500	52,800	45,700	45,500	50,000	60,500	57,500
magnesium	---	23,700	29,800	7,470	8,410	7,910	7,800	7,430	13,600	8,540	9,080	8,590	8,420	8,040	7,590	7,560	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
manganese (dissolved)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	603	796	768	718	714	601	755	602	695	705	706	601	799	667	860	735	699	733	---	847
manganese (total)	---	2,000	2,170	804	890	856	810	803	1,190	964	962	1,020	959	957	892	891	599	762	748	743	720	714	723	281	681	698	707	627	799	686	843	694	709	756	---	853
potassium	---	18,100	22,700	1,710(B)	<1,680	1,830	1,640(B)	2,460(B)	3,610(B)	2,200	2,300	2,440(B)	1,950	2,580	2,130(B)	2,570(B)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
sodium	---	17,100	17,000	17,400	21,000	23,700	24,200	30,200	115,000	34,600	37,500	42,400	41,800	52,100	47,200	52,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
pH (SU)	---	---	---	6.06	6.24	5.88	5.98	6.52	6.01	6.85	6.17	6.11	6.28	6.16	6.06	6.34	6.06	6.45	6.08	6.18	6.18	6.08	5.47	6.23	5.71	6.01	6.05	6.16	5.65	6.42	6.11	6.22	6.17	5.98	6.03	6.03
SC (mS/cm)	---	---	---	0.564	0.591	0.627	0.615	0.370	0.600	0.753	0.670	0.789	0.736	0.776	0.654	0.434	0.743	0.703	0.628	0.594	0.608	0.740	0.527	0.481	0.587	0.600	0.558	0.578	0.592	0.641	0.61	0.401	0.496	0.599	0.703	0.703
Turb (NTU)	---	---	---	4	0	15	7	0	4	-10	0	0	0	0	0	3	3	23	9.60	3	2.10	6.55	0.40	11	3.20	3.61	---	15	4.81	4.35	0.14	2.19	0.00	2.10	1.68	9.59
DO (mg/l)	---	---	---	0.40	0.04	0.05	0.05	3.35	0.43	0.78	0.11	0.16	0.41	0.23	0.08	0	0.58	0.16	0.37	1.81	0.38	0.88	0.50	0.44	0.31	0.24	0.93	0.61	0.24	0.42	0.23	0.23	0.24	0.26	0.18	1.87
Eh (mv)	---	---	---	-74	-50	-92.6	-88	-244	-77.1	-51	-17	-28.4	-31	1	-27	-42	33.8	-32	-33	-49.4	-8	-162	-13.7	-14.6	-26.2	-84.7	-24.8	-46.2	-6.3	-84.3	-54.5	-171.3	-28.4	-25.6	-17	-28.9
Temp (^{o}C)	---	---	---	9.8	7	11	7.6	8.7	9.1	8.8	7.3	8	6.8	11	8.3	10	13	8.4	11	10	8.9	10	8.6	11	7.6	8.8	7.61	11.19	11.24	10.26	8.53	10.96	9.41	11.51	13.84	13.07
Water Level Elevation	149.64	145.30	141.92	142.92	145.37	144.38	145.27	145.45	144.45	145.49	145.43	145.32	145.32	144.69	145.13	145.41	145.22	145.28	145.65	142.19	145.24	145.22	145.44	145.42	145.48	145.53	145.42	147.07	145.49	145.54	145.49	144.78	145.40	145.46	144.26	145.53

"*" 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.

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 ANALYTICAL GROUND WATER QUALITY DATA
WELL SB-B2
SCREENED INTERVAL - 34 - 44 FEET BGS

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

Well SB-B2
[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	Oct-09	Dec-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	22	13
ethylbenzene	---	6	6	7	8(J)	9(J)	<25	9	12	13	16	19	19	18	29	24	25	29	22	27	28	25(B)	25	28	<25	24	26	24	22	25	25	10	21	25	16	13	14	12
toluene	1,000	2	2	2	<17	<10	<25	<8	4	4	5(B)	6	5	5	<10	6	6	6	6	6	7	6	6	7(J)	<25	5	5	5	5	5	5	3	4	5	4	3	3	2
xylene	---	8	8	10	<17	13	<25	15	21	23	28	39	37	39	<10	55	60	76	65	72	83	73(B)	77	83	<25	70	80	70	70	82	81	30	59	76	55	33	32	35
PCE	5	<0.4	<0.4	<0.4	<17	<10	<25	<8	<1	<1	0.7(J)	<1	0.5(J)	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	4(B)	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TCE	5	<0.3	<0.3	<0.3	<17	<10	<25	<8	<1	<1	<1	<1	0.5(J)	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	0.3(J)	<1
1,2-DCE	70	1.3	0.9	1.2	<17	<10	<25	<8	1.6(J)	1	2	1.8(J)	2(J)	0.7(J)	<10	1.9(J)	2	1.8	1	1(J)	1	1	2	<10	<25	1	2	<5	1.8	2	1.9	1.9(J)	2	2	2(J)	0.8(J)	1(J)	0.9(J)
vinyl chloride	2	4	3	4	<17	<10	<25	<8	2	4	4	3	3	<1	<10	3	3	2	2	2	4	3	3	3(J)	<25	2	2	<5	<1	2	0.9(J)	<1	0.7(J)	0.9(J)	<2	0.5(J)	<2	<2
acetone	700	---	<5	3(J)	83(R)	50(R)	<130	<42	9	5	<5	17	9	7(B)	35(J)	4(J)	4(J)	<5	6(B)	9	38	28	8	<10	<25	17	27	<25	7	29	23	15	14	16	24	7	7	16
tetrahydrofuran	154	240	310(E)	360	280(J)	430(J)	510	590	700(E)	750	<5	580	820(E)	1,100	940	1,900	1500(E)	1,400	1,900	1,500	2,400	2,100	1,200	1,700	2,100	2,100	2,100	1,500(B)	680	2,000	1,900	2,100	2,000	1,500	1,600	1,100	1,200	1,200
2-butanone	200	---	<5	<5	83(R)	50(R)	<130	<42	<5	<5	<5	<5	7	5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<10	<25	<5	<5	<25	<5	<5	<5	<5	<5	<5	6	<5	<5	<5
4-methyl 2-pentanone	350	---	11	13(B)	83(J)	<50	<130	5(J)	3(J)	2(J)	<5	3(J)	4(J)	<5	<50	3(J)	<5	<5	<5	<5	4(J)	<5	<5	<10	<25	3(J)	6	<25	<5	<5	<5	3(J)	<5	<5	<5	<5	<5	<5
methylene chloride	5	<1	<1	<1	<48	<10	44(B)	<8	2(B)	2	3(B)	5(B)	6(B)	2(B)	72(B)	2(B)	2	1(B)	0.9(JB)	2(B)	<1	0.7(J)	13(B)	2(J)	<25	<1	<2	9	<5	17(JB)	0.8(J)	1(J)	1(J)	2(JB)	1(JB)	1(JB)	<5	1(J)
1,1,1-TCA	---	<0.5	<0.5	<0.5	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	0.9	0.8	0.9	<17	<10	<25	<8	2	2	2	2	2	<1	<10	2	2	2	2	2	3	3	3	3(J)	<25	2	3	2(J)	2	3	2	2	3	3	2	2	2	1
1,1-DCE	7	<1.3	<1.3	<1.3	<17	<10	<25	<8	<1	<1	<1	<1	0.6(J)	<1	<10	<1	<1	<1	<1	<1	0.6(J)	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	5	1	0.8	0.7	<17	<10	<25	<8	<1	1	<1	1	1	1	<10	2	1	2	2	2	2	2	<1	<10	<25	1	<1	2(J)	1(J)	2	2	1	<1	1	0.9(J)	0.9(J)	1	<1
bromomethane	---	<0.3	<0.3	<0.3	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2
chloromethane	---	<0.5	<0.5	<0.5	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	0.5(J)	0.6(J)	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<2	<2	<2	<2
chloroform	---	<0.7	<0.7	<0.7	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	<0.3	<0.3	<0.3	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	<0.3	<0.3	<0.3	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	---	<5	2(J)	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
styrene	---	<0.4	<0.4	<0.4	<17	<10	<25	<8	<1	0.6(J)	<1	<1	1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
chloroethane	14,000	<0.4	1	1	<17	<10	<25	<8	2	2	<1	2	2	2	<10	4	3	2	2	<1	4	3	<1	3(J)	<25	2	2	<5	2	3	2	2	3	4	2(J)	3	<2	3
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
1,2-dichloropropane	---	<0.3	<0.3	<0.3	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	<0.2	<0.2	<0.2	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	<0.4	<0.4	<0.4	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	<0.4	<0.4	<0.4	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	<0.3	<0.3	<0.3	<17	<10	<25	<8	<1	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<10	<25	<1	1	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-hexanone	---	---	<5	<5	<83	<50	<130	<42	<5	16	<5	<5	<5	<5	<50	<5	<5	<5	<5	<5	<5	<5	<5	<10	<25	<5	<5	<25	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
arsenic (dissolved)	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	11.7	11.6	13.4	13.2	10.8	13.4	12.2	14.3	15.5	16.8	15.7	3.7(B)	16.8	14.7	17.4	16.5	14.4	14.6	16.5	16.6	17.3	13.8
arsenic (total)	---	---	8.9(B)	6.8(B)	<5.20	7.40	10.6	8.5(B)	2	3.5(B)	9	10.6	9.40	12	<2.08	10	10.9	11.9	16.6	12.9	11.4	14.2	14.3	8.3(B)	13.7	17.8	14.5	14.9	17.9	16.5	17.3	16.4	15.5	17.0	17.1	18.0	18.8	14.0
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	5.92	6.44
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	3.82	2.93
Turb (NTU)	---	---	---	7	6	45	3	0	22	2	5	0	1	0	0	63	5	20	95	4.40	11.8	8.19	1.90	7	5	20.3	4.97	5.42	3.3	9.42	0.85	1.48	4.89	0.14	5.82	---	0.0	25.4
DO (mg/l)	---	---	---	0.20	0.04	0.01	0.05	2.88	0.27	0.51	0.36	0.16	0.82	0.21	0.47	0	0.70	0	0.75	3.26	0.91	3.49	0.97	0.45	0.62	0.4	0.93	0.9	0.4	1.59	0.39	0.3	0.96	0.57	0.20	0.14	0.26	0.17
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	-56	-67
Temp (°C)	---	---	---	9.4	8.6	9.4	9.3	7.8	10	8.1	8.9	7.7	8.5	9.4	10	9	10	8.1	10	9	10	9.1	11	9.2	9.7	7.4	9.1	10.05	15.11	10.18	9.86	11.93	10.88	11.92	16.58	13.02	10.93	8.11
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	146.38	145.87

"*" 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.

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 ANALYTICAL GROUND WATER QUALITY DATA
WELL SB-B3
SCREENED INTERVAL - 47 - 57 FEET BGS

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

constituent (ppb)	ICL	Apr-93	Jul-93	Oct-93	May-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	0.962	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.

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;
3. ICL = Interim Cleanup Level; PCE = Tetrachloroethene.
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 ANALYTICAL GROUND WATER QUALITY DATA
WELL SB-D1
SCREENED INTERVAL - 5 - 15 FEET BGS

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

Well SB-D1
[5 - 15 feet BGS]

constituent (ppb)	ICL	AGQS	Apr-93	Jul-93	Oct-93	May-94	Oct-94	May-95	Dec-95	Jun-96	Dec-96	May-97	Dec-97	May-98	Nov-98	May-99	Dec-99	Aug-00	Dec-00	Jul-01	Nov-01	May-02	Dec-02	May-03	Nov-03	May-04	Dec-04	Jun-05	Oct-05	Jun-06	Oct-06	Jun-07	Oct-07	Jun-08	Nov-08	Apr-09	May-09*	Nov-09
benzene	**5**	5	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ethylbenzene	---	700	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.7(J)**	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
toluene	**1,000**	1,000	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
xylene	---	10,000	<0.7	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.9(J)**	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
PCE	**5**	5	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TCE	**5**	5	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**1(B)**	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCE	**70**	70	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<2	<2
vinyl chloride	**2**	2	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1
acetone	**700**	6,000	---	**4**	<5	<5	**5(R)**	**16**	<5	<5	**3(JB)**	<5	**3(J)**	<5	<5	<5	<5	<5	---	<5	**3(JB)**	**13(B)**	<5	<5	<10	<1	**2(J)**	<5	<5	<5	<5	<5	**3(JB)**	<5	>5	<5	**4(J)**	**3(J)**
tetrahydrofuran	**154**	154	<1	<5	<5	<5	**1(R)**	<5	<5	<5	<5	<5	<5	<5	**3(J)**	<5	<5	<5	---	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	**2(J)**	<5	<5	<5
2-butanone	**200**	---	---	<5	<5	<5	**5(R)**	<5	<5	<5	**0.8(JB)**	<5	<5	<5	<5	<5	<5	<5	---	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl 2-pentanone	**350**	---	---	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	---	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
methylene chloride	**5**	5	<1	<1	<1	<1	<1	**0.9(JB)**	<1	**0.9(JB)**	<1	**5(B)**	**3(B)**	**5(B)**	**1(B)**	**1(B)**	**1(B)**	**0.7(JB)**	---	<5	<1	<1	<1	**1**	<10	<1	<1	<2	<1	<5	<5	<5	<5	<5	**0.6(JB)**	**0.8(JB)**	**0.7(J)**	<5
1,1,1-TCA	---	200	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	81	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCE	**7**	7	<1.3	<1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	**5**	5	<0.7	<0.7	<1	<1	<1	**0.8(J)**	<1	<1	<1	<1	<1	<1	<1	**0.5(J)**	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromomethane	---	10	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1
chloromethane	---	30	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	**0.6(J)**	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1
chloroform	---	70	<0.7	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	60	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	4	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	70	---	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
styrene	---	100	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
chloroethane	**14,000**	---	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1
chlorobenzene	---	100	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	---	5	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	5	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	---	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	---	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	2	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-hexanone	---	---	---	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	---	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
GMP constituents																																							
cis-1,2-DCE	**70**	70	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
trans-1,2-DCE	---	100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
isopropylbenzene	---	800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
n-propylbenzene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
1,3,5-trimethylbenzene	---	330	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
sec-butylbenzene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
p-isopropyltoluene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
1,4-dichlorobenzene	---	75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
1,2-dichlorobenzene	---	600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
n-butylbenzene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
1,2,4-trimethylbenzene	---	330	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
naphthalene	---	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
methyl tert-butyl ether	---	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
diethyl ether	---	1,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
ethyl tertiary-butyl ether	---	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
di-isopropyl ether	---	120	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
tertiary-butyl alcohol	---	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<5	<5
1,4-dioxane	---	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.92(J)**	<2

SUMMARY OF ANALYTICAL GROUND WATER QUALITY DATA
WELL SB-D1
SCREENED INTERVAL - 5 - 15 FEET BGS

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

Well SB-D1
[5 - 15 feet BGS]

constituent (ppb)	ICL	AGQS	Apr-93	Jul-93	Oct-93	May-94	Oct-94	May-95	Dec-95	Jun-96	Dec-96	May-97	Dec-97	May-98	Nov-98	May-99	Dec-99	Aug-00	Dec-00	Jul-01	Nov-01	May-02	Dec-02	May-03	Nov-03	May-04	Dec-04	Jun-05	Oct-05	Jun-06	Oct-06	Jun-07	Oct-07	Jun-08	Nov-08	Apr-09	May-09*	Nov-09
arsenic (dissolved)	**10**	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1.98	---	<2.53	<2.53	<2.08	<2	<1.8	4.8(B)	<1.3	<3	<2.81	<3.45	<3.45	<3.09	<0.83	1.5(B)	<1.7	<0.98	<1.20	---	<2.4
arsenic (total)	---	---	---	4.7(B)	<2.40	<2.60	<2.60	<3.80	<1.30	<1	<2.10	<3	<2.54	<1.81	<1.85	<2.07	<2.19	<1.98	---	<2.53	<2.53	<2.08	<2	<1.8	<1.3	<1.3	<3	3.2(B)	<3.45	<3.45	<3.09	<0.83	<0.83	<1.7	<0.98	<1.20	---	<2.4
calcium	---	---	4,340(B)	2,780(B)	1,730	2,170(B)	1,620	1,290(B)	1,260(B)	328(B)	682	440	678(B)	410	534	613(B)	1,260(B)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
iron (dissolved)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	34.6	---	98.4(B)	233	138	62.7(B)	18.3(B)	116	23.6(B)	87.5(B)	240	352	260	494	1,340	2,200	1,760	1,730	3,910	---	3,160
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	---	3,200
magnesium	---	---	3,150(B)	1,590(B)	1,420(B)	1,500(B)	1,500	1,020(B)	1,010(B)	431(B)	570	600	678	580	569	552(B)	1,050(B)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
manganese (dissolved)	---	840	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	83.1	---	128	322	247	208	66.5	188	102	107	49.8	69.3	41.4	96.9	32.1	71.1	41.2	44.5	41.5	---	43.1
manganese (total)	---	---	388	154	158	252	177	123	173	54.9	107	63.2	80.5	59.5	81.6	56.7	174	89.3	---	127	304	233	177	65.5	192	100	110	49.3	67.5	41.1	88.4	32.5	72.4	42.2	45.1	40.2	---	42.3
potassium	---	35,000	1,490(B)	577(B)	327(B)	595	<400	<336	<2,340	140(B)	<421	<500	<419	<419	<435	<450	710(B)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
sodium	---	---	16,700	10,100	11,700	13,600	9,790	8,060	9,570	3,550(B)	5,480	4,640	8,150	3,680	5,610	3,960(B)	6,740	---	---	---	---	---	---	4,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---
pH (SU)	---	---	---	---	4.51	4.74	---	4.39	4.78	4.64	4.95	4.67	4.46	4.74	4.40	4.68	4.71	3.51	---	4.63	4.48	4.76	4.60	4.57	4.72	4.39	4.53	4.59	4.66	4.47	4.63	4.46	4.84	4.87	4.83	4.85	4.69	4.53
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	0.061
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	0.52
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	1.76
Eh (mv)	---	---	---	---	332	343	---	272	164	200	380	274	289	279	208	241	346	116	---	176	141	197	2.10	206	286	137	298	145	313.4	362.8	312.9	157.9	105.7	133.1	218.9	155	185.3	252.2
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	10.83
Water Level Elevation	149.00	NA	145.02	141.48	144.97	144.98	143.22	144.82	145.01	144.19	145.06	144.97	144.49	144.93	143.46	144.32	144.29	144.69	144.78	144.91	141.06	144.78	144.18	145.46	144.92	144.92	144.98	144.94	145.86	144.96	144.99	144.85	143.64	144.90	144.87	143.90	144.85	144.93

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

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 SB-D2
SCREENED INTERVAL - 50 - 60 FEET BGS

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

Well SB-D2
[50 - 60 feet BGS]

constituent (ppb)	ICL	AGQS	Apr-93	Jul-93	Oct-93	May-94	Oct-94	May-95	Dec-95	Jun-96	Dec-96	May-97	Dec-97	May-98	Nov-98	May-99	Dec-99	Aug-00	Dec-00	Jul-01	Nov-01	May-02	Dec-02	May-03	Nov-03	May-04	Dec-04	Jun-05	Oct-05	Jun-06	Oct-06	Jun-07	Oct-07	Jun-08	Nov-08	Apr-09	May-09*	Nov-09
benzene	**5**	5	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ethylbenzene	---	700	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.6(J)**	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
toluene	**1,000**	1,000	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	**0.7(JB)**	<1	<1	**0.6(J)**	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
xylene	---	10,000	<0.7	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	**0.6(J)**	<1	**0.9(J)**	<1	<1	<1	---	<1	<1	<1	<1	**0.5(J)**	<10	<1	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3
PCE	**5**	5	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.8(J)**	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TCE	**5**	5	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**2(B)**	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCE	**70**	70	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1
vinyl chloride	**2**	2	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1
acetone	**700**	6,000	---	<5	<5	<5	**5(R)**	**12**	<5	<5	**1(JB)**	<5	**10**	<5	<5	<5	<5	<5	---	<5	<5	**14(B)**	<5	<5	<10	<1	**2(J)**	<5	<5	<5	<5	**3(J)**	<5	<5	<5	<5	**4(J)**	<5
tetrahydrofuran	**154**	154	**7**	<5	<5	<5	**1(R)**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	---	<5	<5	**14**	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-butanone	**200**	---	---	<5	<5	<5	**5(R)**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	---	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl 2-pentanone	**350**	---	---	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	---	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
methylene chloride	**5**	5	<1	<1	<1	<1	<1	**0.7(JB)**	<1	**1(B)**	<1	**7(B)**	**6(B)**	**5(B)**	**1(B)**	**1(B)**	**0.8(JB)**	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<2	<1	<5	<5	<5	<5	<5	**1(JB)**	**1(JB)**	<5	<5
1,1,1-TCA	---	200	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	81	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCE	**7**	7	<1.3	<1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	**5**	5	<0.7	<0.7	<1	<1	<1	**0.8(J)**	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromomethane	---	10	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1
chloromethane	---	30	<0.5	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.5(J)**	<2	<1	<1
chloroform	---	70	<0.7	<0.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	60	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	4	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	70	---	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
styrene	---	100	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
chloroethane	**14,000**	---	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1
chlorobenzene	---	100	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.5(J)**	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	---	5	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	5	<0.2	<0.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	---	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	---	<0.4	<0.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	2	<0.3	<0.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-hexanone	---	---	---	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	---	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
GMP constituents																																						
cis-1,2-DCE	**70**	70	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
trans-1,2-DCE	---	100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
isopropylbenzene	---	800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
n-propylbenzene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
1,3,5-trimethylbenzene	---	330	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
sec-butylbenzene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
p-isopropyltoluene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
1,4-dichlorobenzene	---	75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
1,2-dichlorobenzene	---	600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
n-butylbenzene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
1,2,4-trimethylbenzene	---	330	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
naphthalene	---	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
methyl tert-butyl ether	---	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
diethyl ether	---	1,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
ethyl tertiary-butyl ether	---	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
di-isopropyl ether	---	120	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
tertiary-butyl alcohol	---	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<5	<5
1,4-dioxane	---	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**1.7(J)**	<2

SUMMARY OF GROUND WATER ANALYTICAL DATA
WELL SB-D2
SCREENED INTERVAL - 50 - 60 FEET BGS

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

Well SB-D2
[50 - 60 feet BGS]

constituent (ppb)	ICL	AGQS	Apr-93	Jul-93	Oct-93	May-94	Oct-94	May-95	Dec-95	Jun-96	Dec-96	May-97	Dec-97	May-98	Nov-98	May-99	Dec-99	Aug-00	Dec-00	Jul-01	Nov-01	May-02	Dec-02	May-03	Nov-03	May-04	Dec-04	Jun-05	Oct-05	Jun-06	Oct-06	Jun-07	Oct-07	Jun-08	Nov-08	Apr-09	May-09*	Nov-09
arsenic (dissolved)	**10**	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	28.2	---	26.2	26.9	28	27.5	31.5	29.6(E)	29.7	31.6	28.5	29.2	30	22.5	18.5	23.7	16.5	27.4	16.2	---	29.6
arsenic (total)	---	---	---	64.5	53.1	34.4	34.8	31.7	32.3	34.2	33.5	30	29	30	30.4	31.7	29.5	29.2	---	35	28.7	26.2	28	30.8	28.6	28.6	31.4	33.5	27.7	28.4	26.5	16.5	23.2	16.5	27.1	17.6	---	29.8
calcium	---	---	46,200	20,700	10,200	9,190	8,180	8,980	8,110	8,080	9,160	9,020	8,420	7,810	8,380	8,550	8,820	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
iron (dissolved)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	4,050	---	4,320	4,530	4,250	4,480	4,630	3,440	3,890	4,420	4,250	4,290	4,420	4,100	3,200	3,980	2,660	4,450	2,750	---	4,860
iron (total)	---	---	93,800	83,500	4,730	4,970	4,290	4,520	4,050	4,550	4,830	4,630	4,490	4,420	4,330	4,720	4,950	4,140	---	30,100	4,730	4,300	4,560	4,960	3,710	4,180	4,460	4,910	4,380	4,480	4,530	2,940	3,970	2,540	4,400	3,040	---	5,100
magnesium	---	---	24,000	21,000	3,450	2,710(B)	2,480	2,640(B)	2,440(B)	2,400(B)	2,740	2,680	2,550(B)	2,410	2,520	2,530(B)	2,640(B)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
manganese (dissolved)	---	840	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	417	---	448	446	393	440	410	340	397	413	417	405	429	385	264	410	244	415	249	---	456
manganese (total)	---	---	2,330	1,780	<100	448	418	422	402	430	472	436	453	416	442	442	460	413	---	874	454	390	443	423	362	413	414	429	392	430	379	244	407	225	403	276	---	472
potassium	---	35,000	18,500	18,700	2,080(B)	<1,910	1,500	2,030(B)	<2,340	1,400(B)	1,690	1,500	1,650(B)	1,040	1,580	1,550(B)	1,980(B)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
sodium	---	---	15,100	10,800	8,210	6,880	6,270	6,430	7,230	6,600	6,440	6,460	6,120	5,970	6,260	6,160	6,140	---	---	---	---	---	---	6,440	---	---	---	---	---	---	---	---	---	---	---	---	---	---
pH (SU)	---	---	---	---	7.06	7.15	---	7	7.86	6.93	8.27	7.01	6.95	7.12	6.92	7.02	6.87	6.19	---	6.48	6.99	6.93	7.19	6.91	7.15	6.73	6.93	6.86	6.97	6.93	7.12	6.7	6.86	6.91	7.01	6.87	6.70	6.89
SC (mS/cm)	---	---	---	---	0.131	0.104	---	1.04	0.059	0.098	0.162	0.099	0.117	0.990	0.110	0.068	0.059	0.099	---	0.071	0.101	0.069	0.102	0.092	0.090	0.108	0.101	0.106	0.104	0.104	0.104	0.096	0.089	0.098	0.107	0.112	0.103	0.108
Turb (NTU)	---	---	---	---	18.9	23	---	4	7	0	2	0	0	2	0	0	0	1	---	727	5.38	---	1.23	5.00	0	4.30	0.62	4.83	3.32	2.27	7.20	1.20	2.64	1.22	2.30	39.0	4.43	0.24
DO (mg/l)	---	---	---	---	0.50	1.01	---	0.24	3.10	0.40	1.12	0.42	0.03	0.46	0.17	0.20	0	0.35	---	0.22	0.79	0.29	0.48	11.6	0.66	0.38	0.27	1.42	0.35	0.43	0.89	1.28	0.38	1.10	0.18	0.53	1.78	0.30
Eh (mv)	---	---	---	---	114	41	---	-82	-227	117	-73	-10	-86.4	-62	-37	-86	-33	-11.1	---	-62	-94.9	-21.9	-141	-41	-98.8	-44.7	16.7	-81.6	-109.6	-94.8	-92.9	-12.9	-98.4	-55.6	-121.3	-88	-13.8	-63.6
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	9.50
Water Level Elevation	148.99	NA	145.72	143.67	143.28	145.53	144.59	145.17	145.73	144.70	145.90	145.69	144.98	144.87	144.83	145.40	145.31	145.09	145.24	145.44	143.02	145.24	144.96	145.78	145.51	145.82	145.69	145.94	144.97	146.36	145.59	145.64	144.90	145.45	145.68	144.55	145.77	145.68

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

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 SB-D3(I)
SCREENED INTERVAL - 35 - 45 FEET BGS

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

constituent (ppb)	ICL	AGQS	Nov-07	Apr-09	May-09
benzene	**5**	5	<1	<1	<1
ethylbenzene	---	700	<1	<1	<1
toluene	**1,000**	1,000	<1	<1	<1
xylenes (total)	---	10,000	<3	<3	<3
PCE	**5**	5	<1	<1	<1
TCE	**5**	5	<1	<1	<1
1,2-DCE	**70**	70	<1	<1	<1
vinyl chloride	**2**	2	<2	<2	<1
acetone	**700**	6,000	<5	<5	<5
tetrahydrofuran	**154**	154	<5	<5	<5
2-butanone	**200**	---	<5	<5	<5
4-methyl 2-pentanone	**350**	---	<5	<5	<5
methylene chloride	**5**	5	<5	<5	<5
1,1,1-TCA	---	200	<1	<1	<1
1,1-DCA	---	81	<1	<1	<1
1,1-DCE	**7**	7	<1	<1	<1
1,2-DCA	**5**	5	<1	<1	<1
bromomethane	---	10	<2	<2	<1
chloromethane	---	30	<2	<2	<1
chloroform	---	70	<1	<1	<1
dibromochloromethane	---	60	<1	<1	<1
bromoform	---	4	<1	<1	<1
carbon disulfide	---	70	<1	<1	<1
styrene	---	100	<1	<1	<1
chloroethane	**14,000**	---	<2	<2	<1
chlorobenzene	---	100	<1	<1	<1
1,2-dichloropropane	---	5	<1	<1	<1
1,1,2-trichloroethane	---	5	<1	<1	<1
cis-1,3-dichloropropene	---	---	<1	<1	<1
trans-1,3-dichloropropene	---	---	<1	<1	<1
1,1,2,2-tetrachloroethane	---	2	<1	<1	<1
2-hexanone	---	---	<5	<5	<5
GMP constituents					
cis-1,2-DCE	**70**	70	---	---	<1
trans-1,2-DCE	---	100	---	---	<1
isopropylbenzene	---	800	---	---	<1
n-propylbenzene	---	260	---	---	<1
1,3,5-trimethylbenzene	---	330	---	---	<1
sec-butylbenzene	---	260	---	---	<1
p-isopropyltoluene	---	260	---	---	<1
1,4-dichlorobenzene	---	75	---	---	<1
1,2-dichlorobenzene	---	600	---	---	<1
n-butylbenzene	---	260	---	---	<1
1,2,4-trimethylbenzene	---	330	---	---	<1
naphthalene	---	20	---	---	<1
methyl tert-butyl ether	---	13	---	---	<1
diethyl ether	---	1,400	---	---	<1
ethyl tertiary-butyl ether	---	40	---	---	<1
di-isopropyl ether	---	120	---	---	<1
tertiary-butyl alcohol	---	40	---	---	<5
1,4-dioxane	---	3	---	---	<10

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

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

constituent (ppb)	ICL	AGQS	Nov-07	Apr-09	May-09
arsenic (dissolved)	**10**	10	63.9	47.8	56
arsenic (total)	---	---	68.6	47.1	58
calcium	---	---	---	---	---
iron (dissolved)	---	---	2,690	3,570	2,980
iron (total)	---	---	3,290	3,690	2,990
magnesium	---	---	---	---	---
manganese (dissolved)	---	840	504	---	424
manganese (total)	---	---	498	---	430
potassium	---	35,000	---	---	---
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
Eh (mv)	---	---	-65	-83	-94.9
Temp (^{o}C)	---	---	9.88	12.49	8.29
Water Level Elevation	NA	NA	---	---	---

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 SB-10I
SCREENED INTERVAL - 30 - 40 FEET BGS

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

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

constituent (ppb)	ICL	AGQS	Jun-01	Nov-01	May-02	Dec-02	Jun-03	Nov-03	May-04	Dec-04	May-05	Oct-05	Jun-06	Oct-06	Jun-07	Oct-07	Jun-08	Nov-08	Apr-09	May-09*	Nov-09
benzene	**5**	5	<1	<1	<1	<1	<1	<10	<1	**0.2(J)**	<1	**0.4(J)**	<1	<1	**0.7(J)**	**0.7(J)**	**1(J)**	**0.9(J)**	**1**	**1(J)**	**0.9(J)**
ethylbenzene	---	700	<1	<1	<1	**0.2(JB)**	**0.3(J)**	<10	<1	**1(J)**	**2**	**2**	**3**	**3**	**3**	**4**	**6**	**6**	**7**	**6**	**6**
toluene	**1,000**	1,000	<1	<1	<1	<1	**3**	<10	<1	**0.5(J)**	<1	**0.6(J)**	**0.8(J)**	**0.8(J)**	**1**	**1(J)**	**1**	**1**	**2**	**1**	**1**
xylene	---	10,000	<1	<1	<1	**0.5(J)**	**6**	<10	**2**	**3**	**3**	**3**	**2(J)**	<3	**2(J)**	**2(J)**	**3(J)**	**2(J)**	**4**	**3(J)**	**3**
PCE	**5**	5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
TCE	**5**	5	<1	<1	<1	<1	<1	<10	<1	<1	<1	**0.4(J)**	<1	<1	<1	<1	**0.5(J)**	**0.4(J)**	**0.6(J)**	**0.5(J)**	**0.4(J)**
1,2-DCE	**70**	70	**0.6(J)**	<1	<1	<1	<1	<10	**1**	**2**	**2**	**3**	**4**	**4**	**5**	**6**	**7**	**6**	**7**	**8**	**7**
vinyl chloride	**2**	2	<1	<1	<1	<1	<1	<10	<1	**0.7(J)**	<1	**1**	<1	**2**	**4**	**4**	**5**	**5**	**4**	**6**	**6**
acetone	**700**	6,000	<5	<5	<5	<5	<5	<10	<1	**2(J)**	<5	<5	<5	<5	**7**	<5	**4(J)**	**3(J)**	**3(J)**	**4(J)**	<5
tetrahydrofuran	**154**	154	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	**2(J)**	**2(J)**	**8**	<5	**2(J)**
2-butanone	**200**	---	<5	<5	**7**	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-methyl 2-pentanone	**350**	---	<5	**11**	**17**	<5	**19**	**4(J)**	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
methylene chloride	**5**	5	<1	**0.7(JB)**	<1	<1	**5(B)**	<10	<1	<1	<2	<2	<5	<5	<5	<5	**0.4(J)**	<5	**1(JB)**	**1(JB)**	<5
1,1,1,-TCA	---	200	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-DCA	---	81	<1	<1	<1	**0.3(J)**	**0.6(J)**	<10	**1**	**1**	**1**	**2**	**2**	**2**	**3**	**4**	**4**	**4**	**5**	**6**	**4**
1,1-DCE	**7**	7	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-DCA	**5**	5	<1	<1	<1	<1	<1	<10	<1	**0.2(J)**	<1	<1	<1	**0.7(J)**	**1**	**0.8(J)**	**1**	**1(J)**	**1**	**1**	**0.8(J)**
bromomethane	---	10	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1
chloromethane	---	30	<1	**0.6(J)**	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1
chloroform	---	70	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	60	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
bromoform	---	4	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
carbon disulfide	---	70	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	**0.7(J)**
styrene	---	100	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
chloroethane	**14,000**	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<1	<1
chlorobenzene	---	100	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-dichloropropane	---	5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	5	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	---	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	2	<1	<1	<1	<1	<1	<10	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-hexanone	---	---	<5	<5	<5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
GMP constituents																					
cis-1,2-DCE	**70**	70	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**8**	**7**
trans-1,2-DCE	---	100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
isopropylbenzene	---	800	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.6(J)**	**0.6(J)**
n-propylbenzene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
1,3,5-trimethylbenzene	---	330	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	**0.2(J)**
sec-butylbenzene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
p-isopropyltoluene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	**0.3(J)**
1,4-dichlorobenzene	---	75	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
1,2-dichlorobenzene	---	600	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
n-butylbenzene	---	260	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
1,2,4-trimethylbenzene	---	330	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.2(J)**	**0.3(J)**
naphthalene	---	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
methyl tert-butyl ether	---	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
diethyl ether	---	1,400	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**3**	**3**
ethyl tertiary-butyl ether	---	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<1	<1
di-isopropyl ether	---	120	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**0.4(J)**	**0.3(J)**
tertiary-butyl alcohol	---	40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	<5	<5
1,4-dioxane	---	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	**75**	**88**

SUMMARY OF GROUND WATER ANALYTICAL DATA
WELL SB-10I
SCREENED INTERVAL - 30 - 40 FEET BGS

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

																				Well SB-10I [30 - 40 feet BGS]	
constituent (ppb)	ICL	AGQS	Jun-01	Nov-01	May-02	Dec-02	Jun-03	Nov-03	May-04	Dec-04	May-05	Oct-05	Jun-06	Oct-06	Jun-07	Oct-07	Jun-08	Nov-08	Apr-09	May-09*	Nov-09
arsenic (dissolved)	**10**	10	12.4(B)	14.9	12.4	14	14.6	11.4	15.4	16.8	15.2	12	13.8	14.6	13.6	13.2	16.4	14	14.1	---	19.2
arsenic (total)	---	---	31.8(B)	13.4	13.2	16.6	15.3	15.6	14.5	14.4	17.1	11.4	11.7	15.6	13.8	13.6	17.1	15.3	16.4	---	20
calcium	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
iron (dissolved)	---	---	3,840	10,400	8,650	10,800	10,900	10,300	11,600	12,700	14,500	13,900	16,600	17,200	21,800	21,300	24,800	25,700	27,000	---	25,500
iron (total)	---	---	55,000	15,700	9,980	11,900	11,300	9,780	11,900	14,100	14,700	13,400	16,400	16,900	21,100	21,400	25,200	26,100	26,600	---	26,200
magnesium	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
manganese (dissolved)	---	840	540	318	305	290	282	277	305	322	352	339	418	443	542	565	642	649	653	---	716
manganese (total)	---	---	1,240	374	286	298	277	260	314	340	355	322	409	438	520	555	643	651	645	---	727
potassium	---	35,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
sodium	---	---	---	---	---	---	5,500	5,500	---	---	---	---	---	---	---	---	---	---	---	---	---
pH (SU)	---	---	6.29	6.77	6.82	6.60	6.77	6.91	6.61	6.61	6.76	6.82	6.63	6.54	6.49	7.06	6.57	6.44	6.95	6.64	6.63
SC (mS/cm)	---	---	0.071	0.100	0.109	0.108	0.110	0.103	0.154	0.117	0.118	0.145	0.154	0.169	0.187	0.208	0.223	0.219	0.260	0.249	0.253
Turb (NTU)	---	---	---	98	8.98	6.15	4.90	4.74	17	1.62	2.90	8.35	1.81	0.93	3.04	2.21	1.40	14.90	6.6	5.21	0.570
DO (mg/l)	---	---	0.15	0.66	0.23	1.46	0.28	0.28	0.18	0.32	0.67	0.24	0.32	0.37	0.61	0.8	0.39	0.37	0.35	0.31	0.29
Eh (mv)	---	---	-23.8	-43.5	-60.1	-77.2	-12.4	-114	16	154	-57.8	-103	-103.3	-111.8	-4.3	-217.8	-102.8	-94.6	-129	-96.3	-81.2
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	9.63
Water Level Elevation	149.39	NA	146.49	143.89	146.38	145.89	146.68	146.54	147.16	146.73	146.96	146.79	147.31	146.44	---	---	---	---	---	---	---

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

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(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
WELL MW-200(I)
SCREENED INTERVAL - 35 - 45 FEET BGS

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

constituent (ppb)	ICL	Nov-07	Nov-08	Apr-09	Jul-09	Oct-09	Dec-09
benzene	5	**4**	**6**	**6**	**6**	**4**	**6**
ethylbenzene	---	**3**	**5**	**5**	**5**	**3**	**6**
toluene	1,000	**0.8(J)**	**1**	**1**	**1**	**0.9(J)**	**1**
xylenes (total)	---	**2(J)**	**4**	**6**	**5**	**4**	**8**
PCE	5	<1	<1	<1	<1	<1	<1
TCE	5	<1	<1	<1	<1	<1	<1
cis-1,2-DCE	70	**0.5(J)**	<1	**0.7(J)**	**0.7(J)**	**0.5(J)**	**0.7(J)**
vinyl chloride	2	**1(J)**	**1**	**1(J)**	**1(J)**	**0.9(J)**	**1(J)**
acetone	700	<5	<5	**7**	**3(J)**	**6**	**5(J)**
tetrahydrofuran	154	**5**	**26**	**57**	**58**	**55**	**100**
2-butanone	200	<5	<5	**2(J)**	**3(J)**	**130**	<5
4-methyl 2-pentanone	350	**7**	<5	<5	<5	<5	<5
methylene chloride	5	**0.7(J)**	<5	**2(JB)**	<5	<5	<5
1,1,1-TCA	---	<1	<1	<1	<1	<1	<1
1,1-DCA	---	<1	<1	**0.9(J)**	**0.8(J)**	**0.7(J)**	**1(J)**
1,1-DCE	7	<1	<1	<1	<1	<1	<1
1,2-DCA	5	**0.5(J)**	<1	**0.6(J)**	**0.6(J)**	<1	<1
bromomethane	---	<2	<1	<2	<2	<2	<2
chloromethane	---	<2	<1	<2	<2	<2	<2
chloroform	---	<1	<1	<1	<1	<1	<1
dibromochloromethane	---	<1	<1	<1	<1	<1	<1
bromoform	---	<1	<1	<1	<1	<1	<1
carbon disulfide	---	<1	<1	<1	<1	<1	<1
styrene	---	<1	<1	<1	<1	<1	<1
chloroethane	14,000	<2	<1	<2	<2	<2	<2
chlorobenzene	---	**0.4(J)**	<1	**0.6(J)**	**0.5(J)**	<1	**0.7(J)**
1,2-dichloropropane	---	<1	<1	<1	<1	<1	<1
1,1,2-trichloroethane	---	<1	<1	<1	<1	<1	<1
cis-1,3-dichloropropene	---	<1	<1	<1	<1	<1	<1
trans-1,3-dichloropropene	---	<1	<1	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	<1	<1	<1	<1	<1	<1
2-hexanone	---	<5	<5	<5	<5	<5	<5
arsenic (dissolved)	10	**21.7**	**16.5**	**16.1**	**21.2**	**21.7**	**24.1**
arsenic (total)	---	**19.5**	**16.6**	**18.2**	**20.8**	**23.4**	**22.2**
calcium	---	---	---	---	---	---	---
iron (dissolved)	---	**83,100**	**93,900**	**95,800**	---	---	---
iron (total)	---	**80,400**	**89,500**	**98,100**	---	---	---
magnesium	---	---	---	---	---	---	---
manganese (dissolved)	---	**1,760**	**1,980**	**1,900**	---	---	---
manganese (total)	---	**1,720**	**1,870**	**1,930**	---	---	---
potassium	---	---	---	---	---	---	---
sodium	---	---	---	---	---	---	---
pH (SU)	---	6.22	6.36	6.20	6.20	6.37	6.16
SC (mS/cm)	---	0.841	0.945	1.151	1.139	0.918	1.213
Turb (NTU)	---	66.2	9.54	35.5	---	54.9	9.3
DO (mg/l)	---	0.06	0.2	0.13	0.21	0.34	0.27
ORP (mv)	---	-85	---	-70	-1	-72	-37
Temp (^{o}C)	---	10.42	9.27	10.75	11.73	12.28	8.27
Water Level Elevation	---	---	---	145.12	144.96	144.94	145.57

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

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

constituent (ppb)	ICL	Nov-07	Apr-09
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
WELL 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
WELL MW-207(I)
SCREENED INTERVAL - 35 - 45 FEET BGS

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

constituent (ppb)	ICL	Apr-09	Jul-09	Oct-09	Dec-09
benzene	5	**21**	**20**	**20**	**20**
ethylbenzene	---	**7**	**6**	**6**	**5**
toluene	1,000	**3**	**2**	**2**	**2**
xylenes (total)	---	**13**	**11**	**12**	**10**
PCE	5	<1	<1	<1	<1
TCE	5	<1	<1	<1	<1
cis-1,2-DCE	70	**2**	**2**	**2**	**2**
vinyl chloride	2	<2	**0.4 (J)**	**0.6 (J)**	**0.3(J)**
acetone	700	**17**	**10**	**16**	**15**
tetrahydrofuran	154	**1,400**	**870**	**900**	**1,200**
2-butanone	200	**8**	<5	**8**	<5
4-methyl 2-pentanone	350	<5	<5	<5	<5
methylene chloride	5	**2(JB)**	**2(JB)**	<5	**1(J)**
1,1,1-TCA	---	<1	<1	<1	<1
1,1-DCA	---	**3**	**3**	**3**	**3**
1,1-DCE	7	<1	<1	<1	<1
1,2-DCA	5	**0.8(J)**	**0.9(J)**	**0.9(J)**	<1
bromomethane	---	<2	<2	<2	<2
chloromethane	---	<2	<2	<2	<2
chloroform	---	<1	<1	<1	<1
dibromochloromethane	---	<1	<1	<1	<1
bromoform	---	<1	<1	<1	<1
carbon disulfide	---	<1	<1	<1	<1
styrene	---	<1	<1	<1	<1
chloroethane	14,000	**5**	**5**	**5**	**3**
chlorobenzene	---	**1(J)**	**0.8(J)**	<1	**0.8(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	**17.8**	**20.8**	**24.1**	**26.2**
arsenic (total)	---	**17.5**	**21.0**	**25.2**	**27.6**
calcium	---	---	---	---	---
iron (dissolved)	---	**87,100**	---	---	---
iron (total)	---	**85,800**	---	---	---
magnesium	---	---	---	---	---
manganese (dissolved)	---	---	---	---	---
manganese (total)	---	---	---	---	---
potassium	---	---	---	---	---
sodium	---	---	---	---	---
pH (SU)	---	7.55	6.23	6.01	6.36
SC (mS/cm)	---	4.18	3.60	3.68	3.72
Turb (NTU)	---	24.0	---	102.0	105.0
DO (mg/l)	---	0.20	0.18	0.24	0.16
ORP (mv)	---	-19	37	-36	-39
Temp (^{o}C)	---	12.56	10.91	12.43	8.78
Water Level Elevation	NA	146.34	145.60	145.18	146.41

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-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
WELL MW-208(I)
SCREENED INTERVAL - 35 - 45 FEET BGS

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

constituent (ppb)	ICL	Apr-09	Jul-09	Oct-09	Dec-09
benzene	5	**16**	**4**	**10**	**13**
ethylbenzene	---	**7**	**2**	**4**	**5**
toluene	1,000	**2**	**0.5(J)**	**1**	**2**
xylenes (total)	---	**6**	<3	**4**	**5**
PCE	5	<1	<1	<1	<1
TCE	5	<1	<1	<1	<1
cis-1,2-DCE	70	**2**	**0.4(J)**	**0.9(J)**	**1**
vinyl chloride	2	<2	**0.5(J)**	**0.7(J)**	**0.8(J)**
acetone	700	**14**	**3(J)**	**8**	
tetrahydrofuran	154	**960**	**40**	**320**	**460**
2-butanone	200	<5	**2(J)**	**3(J)**	<5
4-methyl 2-pentanone	350	6	<5	<5	<5
methylene chloride	5	**0.9(JB)**	**0.6(JB)**	**<5**	**1(J)**
1,1,1-TCA	---	<1	<1	<1	<1
1,1-DCA	---	**2**	**0.5(J)**	**2**	**2**
1,1-DCE	7	<1	<1	<1	<1
1,2-DCA	5	**2**	**0.6(J)**	**0.9 (J)**	<1
bromomethane	---	<2	<2	<2	<2
chloromethane	---	<2	<2	<2	<2
chloroform	---	<1	<1	<1	<1
dibromochloromethane	---	<1	<1	<1	<1
bromoform	---	<1	<1	<1	<1
carbon disulfide	---	<1	<1	<1	<1
styrene	---	<1	<1	<1	<1
chloroethane	14,000	**3**	<2	**2(J)**	**3**
chlorobenzene	---	<1	<1	<1	<1
1,2-dichloropropane	---	<1	<1	<1	<1
1,1,2-trichloroethane	---	<1	<1	<1	<1
cis-1,3-dichloropropene	---	<1	<1	<1	<1
trans-1,3-dichloropropene	---	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	<1	<1	<1	<1
2-hexanone	---	<5	<5	<5	<5
arsenic (dissolved)	10	**18.7**	**11.2**	**20.8**	**22.1**
arsenic (total)	---	**18.3**	**12.9**	**21.6**	**22.7**
calcium	---	---	---	---	---
iron (dissolved)	---	**170,000**	---	---	---
iron (total)	---	**160,000**	---	---	---
magnesium	---	---	---	---	---
manganese (dissolved)	---	---	---	---	---
manganese (total)	---	---	---	---	---
potassium	---	---	---	---	---
sodium	---	---	---	---	---
pH (SU)	---	5.59	6.31	5.96	6.31
SC (mS/cm)	---	3.45	1.16	2.22	2.30
Turb (NTU)	---	88.1	---	153	42.8
DO (mg/l)	---	0.25	0.22	0.28	0.11
ORP (mv)	---	-32	-95	-24	-51
Temp (^{o}C)	---	9.87	10.91	12.01	8.76
Water Level Elevation	NA	146.41	145.64	145.28	146.38

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-209(I)
SCREENED INTERVAL - 35 - 45 FEET BGS

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

constituent (ppb)	ICL	Apr-09	Jul-09	Oct-09	Dec-09
benzene	5	**14**	**8**	**4**	**4**
ethylbenzene	---	**7**	**5**	**2**	**2**
toluene	1,000	**2**	**2**	**0.9(J)**	**0.7(J)**
xylenes (total)	---	**12**	**5**	**2(J)**	**2(J)**
PCE	5	<1	<1	<1	<1
TCE	5	<1	<1	<1	<1
cis-1,2-DCE	70	**0.7(J)**	**0.7(J)**	**0.3(J)**	**0.3(J)**
vinyl chloride	2	<2	**0.7 (J)**	**0.5 (J)**	<2
acetone	700	**10**	**4 (J)**	<5	**4(J)**
tetrahydrofuran	154	**340**	**70**	**6**	<5
2-butanone	200	**3(J)**	<5	<5	<5
4-methyl 2-pentanone	350	<5	<5	<5	<5
methylene chloride	5	<5	**0.8 (JB)**	<5	<5
1,1,1-TCA	---	<1	<1	<1	<1
1,1-DCA	---	**3**	**1**	<1	**0.5(J)**
1,1-DCE	7	<1	<1	<1	<1
1,2-DCA	5	**1(J)**	**1**	**0.6(J)**	<1
bromomethane	---	<2	<2	<2	<2
chloromethane	---	<2	<2	<2	<2
chloroform	---	<1	<1	<1	<1
dibromochloromethane	---	<1	<1	<1	<1
bromoform	---	<1	<1	<1	<1
carbon disulfide	---	<1	<1	<1	<1
styrene	---	<1	<1	<1	<1
chloroethane	14,000	**2**	**0.7 (J)**	<2	<2
chlorobenzene	---	<1	<1	<1	<1
1,2-dichloropropane	---	<1	<1	<1	<1
1,1,2-trichloroethane	---	<1	<1	<1	<1
cis-1,3-dichloropropene	---	<1	<1	<1	<1
trans-1,3-dichloropropene	---	<1	<1	<1	<1
1,1,2,2-tetrachloroethane	---	<1	<1	<1	<1
2-hexanone	---	<5	<5	<5	<5
arsenic (dissolved)	10	**19.6**	**20.6**	**14.6**	**14.0**
arsenic (total)	---	**18.8**	**20.4**	**15.9**	**17.6**
calcium	---	---	---	---	---
iron (dissolved)	---	**135,000**	---	---	---
iron (total)	---	**133,000**	---	---	---
magnesium	---	---	---	---	---
manganese (dissolved)	---	---	---	---	---
manganese (total)	---	---	---	---	---
potassium	---	---	---	---	---
sodium	---	---	---	---	---
pH (SU)	---	6.13	6.20	6.13	6.46
SC (mS/cm)	---	2.27	1.57	1.029	0.949
Turb (NTU)	---	146	---	64.2	58.4
DO (mg/l)	---	0.26	0.38	0.22	0.21
ORP (mv)	---	-73	-65	-69	-46
Temp (^{o}C)	---	10.49	10.87	11.88	9.24
Water Level Elevation	NA	146.429	145.879	145.559	145.989

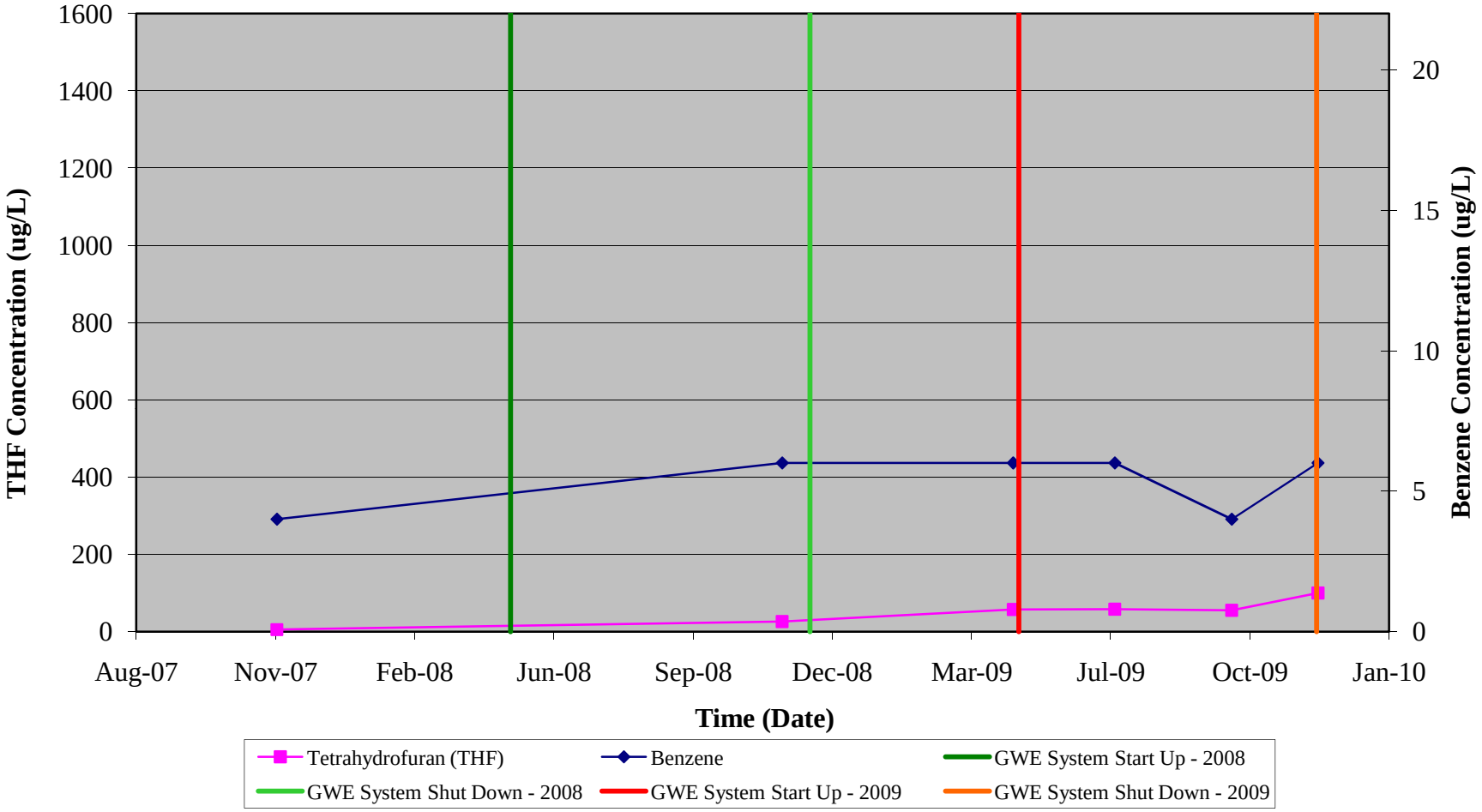
NOTES:
1. Laboratory analytical results are reported in ug/L (micrograms per liter).
2. DCE = Dichloroethene; DCA = Dichloroethane; MEK = Methyl Ethyl Ketone (2-butanone); MIBK = Methyl Isobutyl Ketone (4-methyl 2-pentanone); TCA = Trichloroethane; PCE = Tetrachloroethene; TCE = Tetrachloroethene.
3. 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 C

CONCENTRATION VERSUS TIME – QUARTERLY PERFORMANCE MONITORING WELLS

SCREENED INTERVAL
35 - 45 FEET BGS

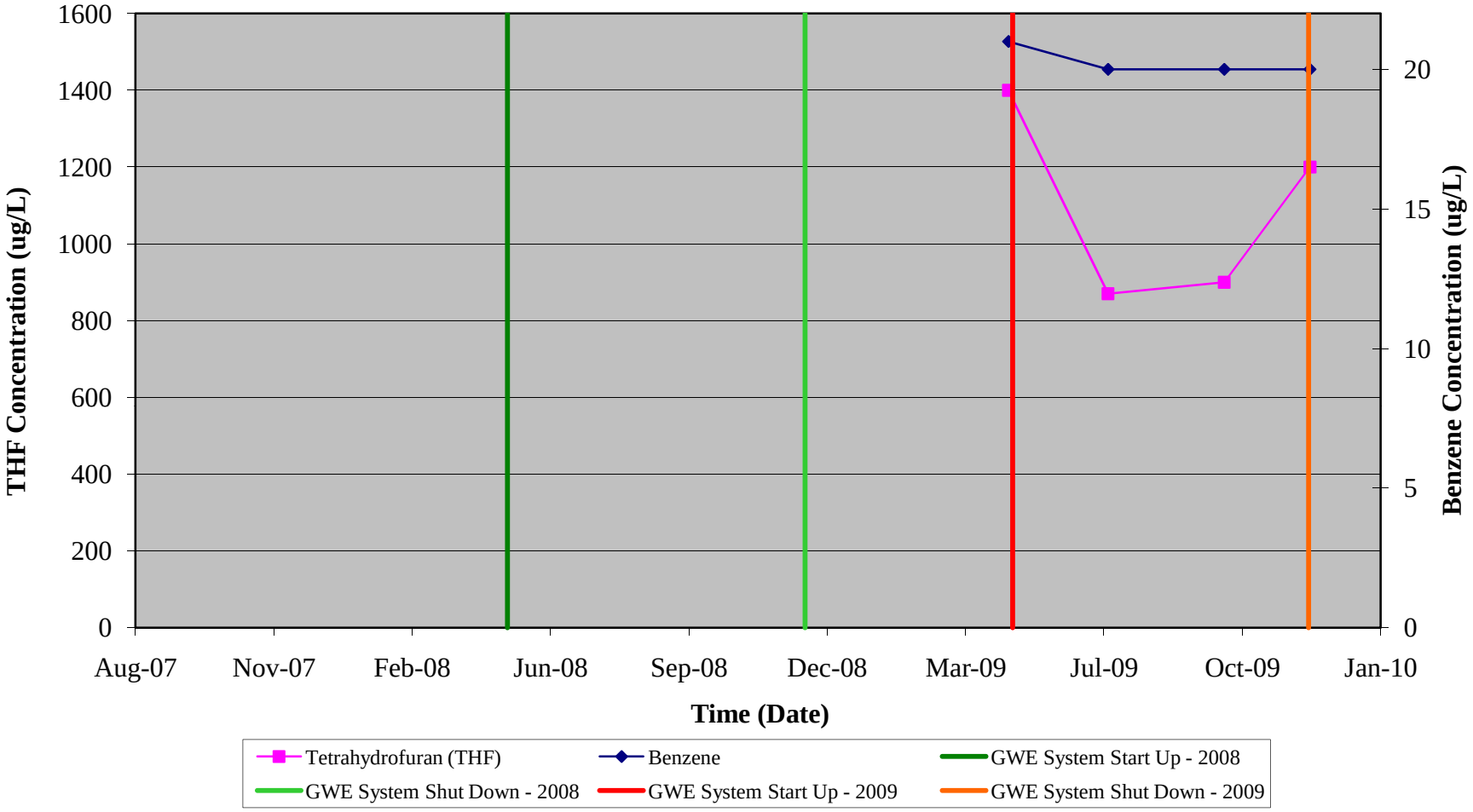
APPENDIX C-1
CONCENTRATION VERSUS TIME - MW-200I
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE



April 10, 2010
GeoInsight Project 2009-009

SCREENED INTERVAL
35 - 45 FEET BGS

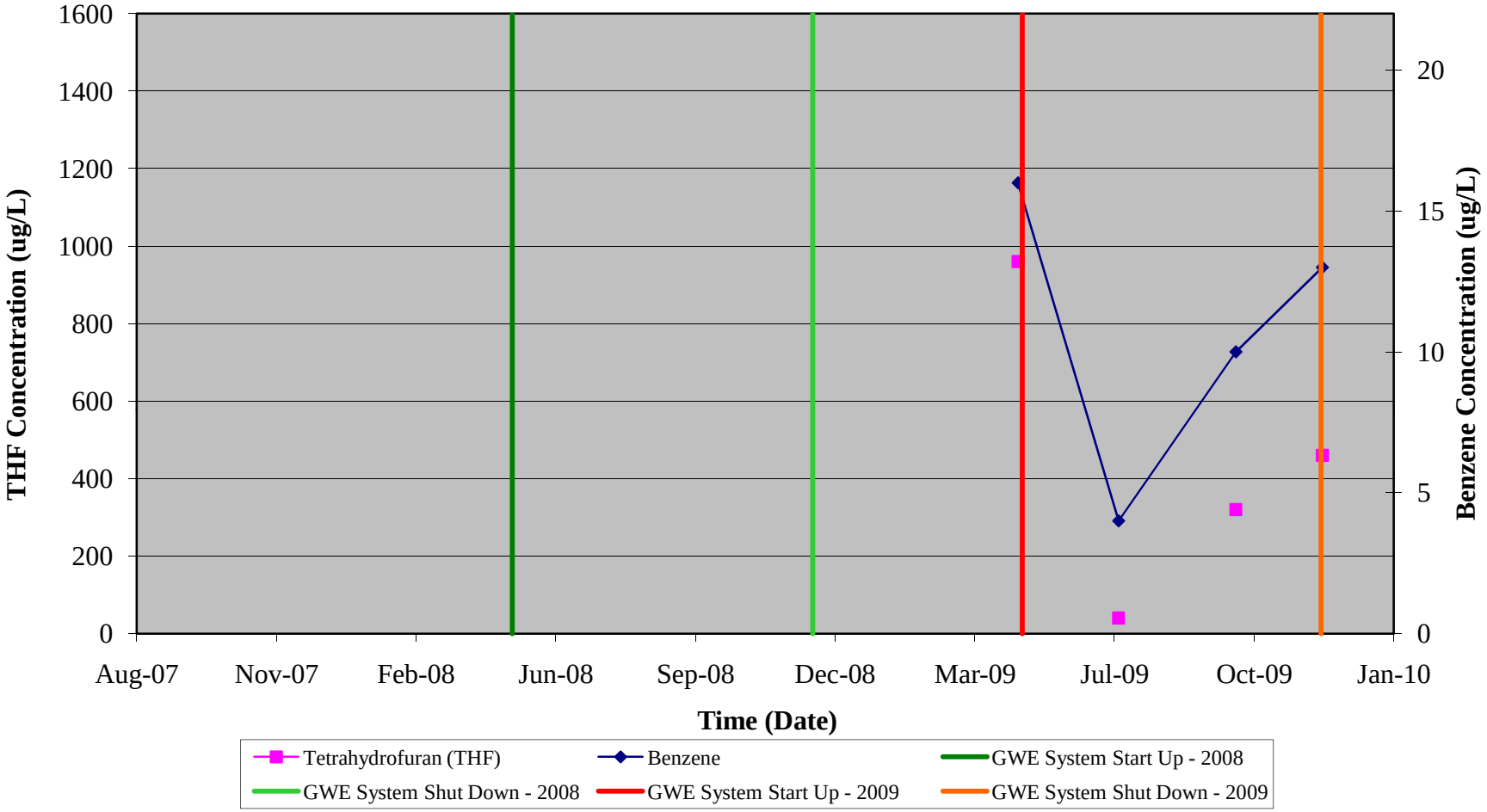
APPENDIX C-2
CONCENTRATION VERSUS TIME - MW-207I
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE



April 10, 2010
GeoInsight Project 2009-009

SCREENED INTERVAL
35 - 45 FEET BGS

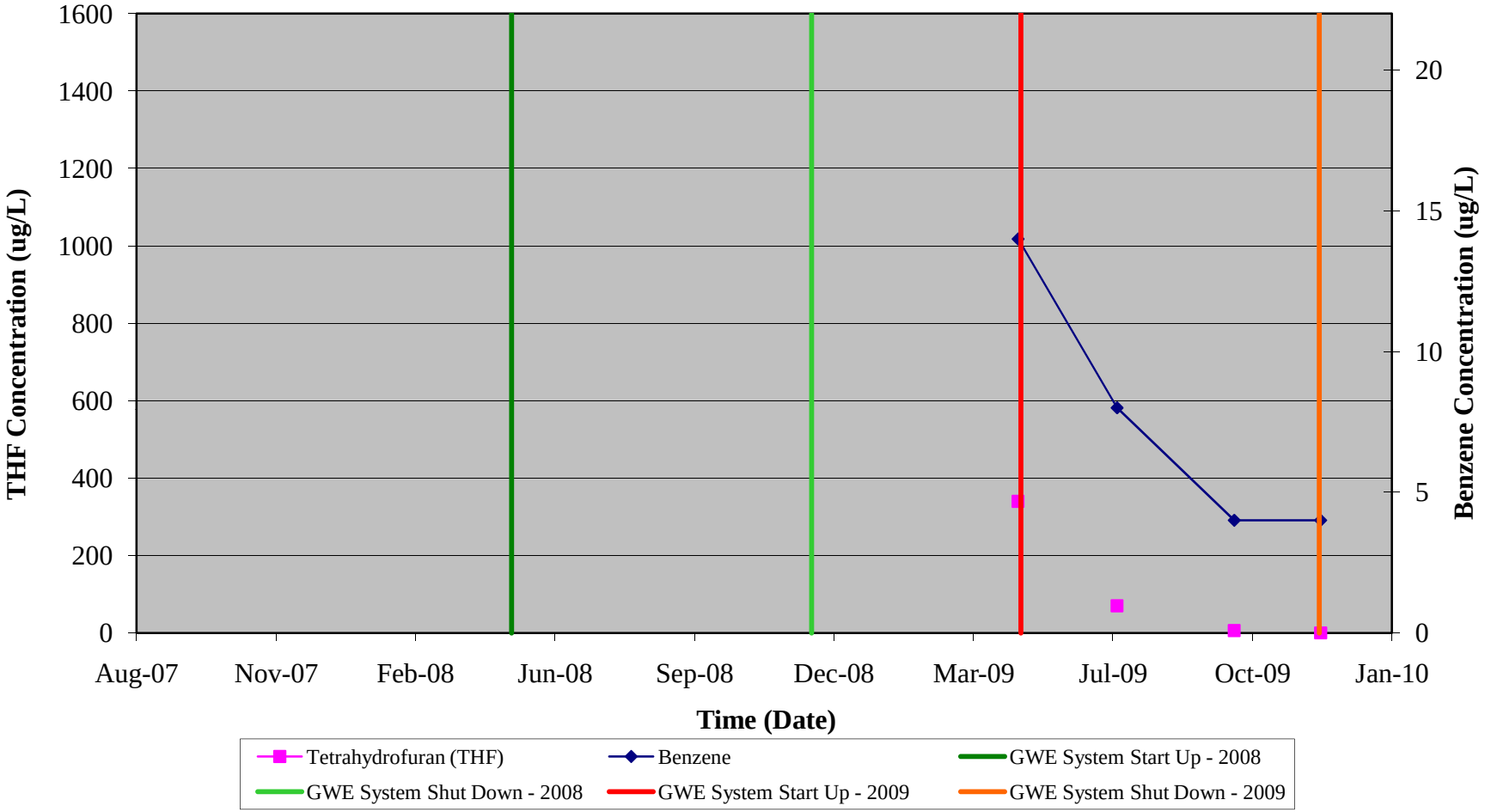
APPENDIX C-3
CONCENTRATION VERSUS TIME - MW-208I
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE



April 10, 2010
GeoInsight Project 2009-009

SCREENED INTERVAL
35 - 45 FEET BGS

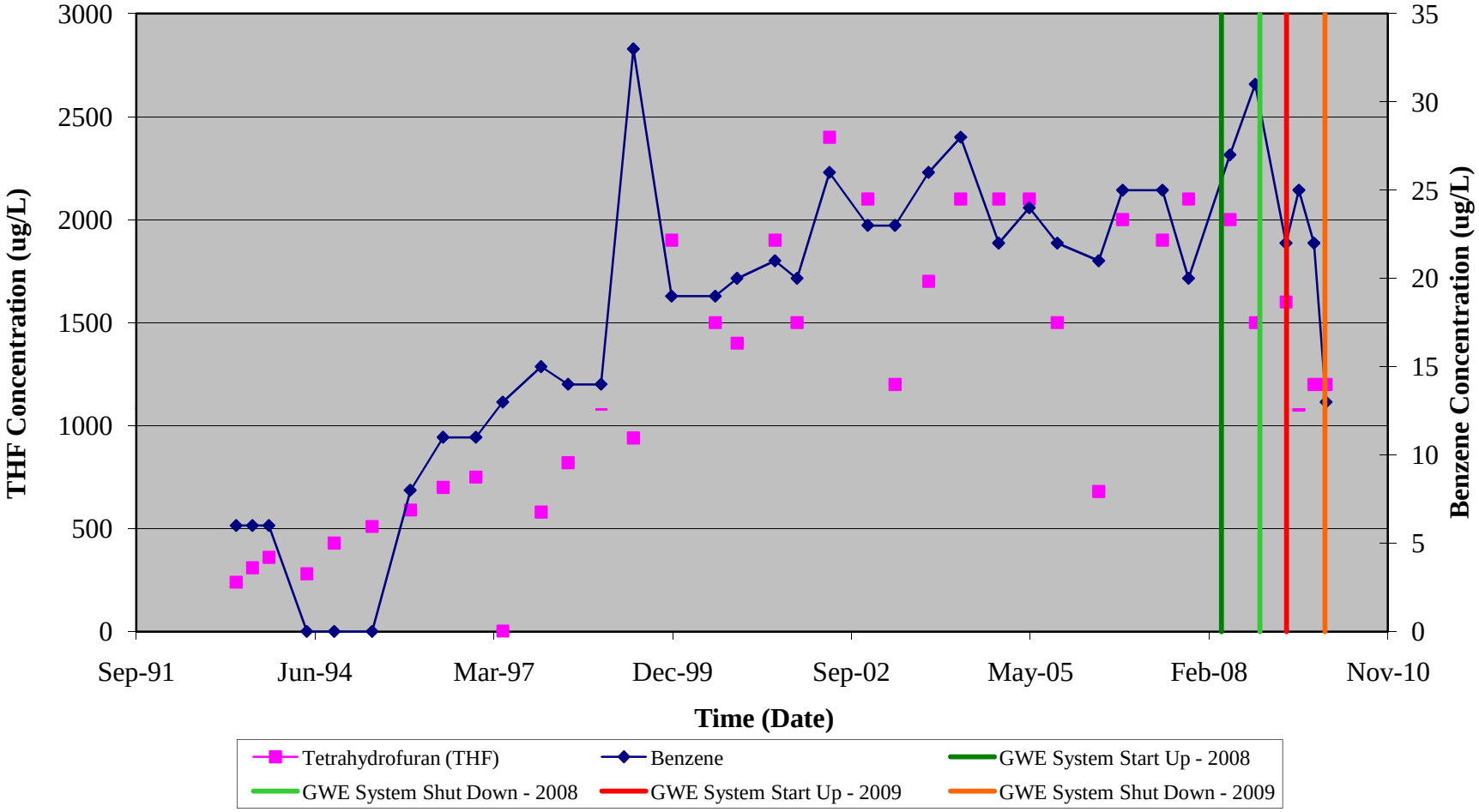
APPENDIX C-4
CONCENTRATION VERSUS TIME - MW-209I
SOUTHERN PLUME MANAGEMENT OF MIGRATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE



April 10, 2010
GeoInsight Project 2009-009

SCREENED INTERVAL
34 - 44 FEET BGS

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



APPENDIX D-1

DATA VALIDATION AND QUALITY ASSURANCE/QUALITY CONTROL CHECKLISTS

APPENDIX D-2

SUMMARY OF COMPOUNDS WITH POOR PURGING EFFICIENCY

APPENDIX D-2
SUMMARY OF COMPOUNDS WITH POOR PURGING EFFICIENCY
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

Compounds	Reference Source
1,1,2,2-tetrachloroethane	3
1,2,3-trichloropropane	2
1,2-dibromo-3-chloropropane (DBCP)	1,2,3
1,2-dibromoethane (EDB)	3
2,2-dichloropropane	3
2-butanone	1,2,3
2-hexanone	1,2,3
4-methyl-2-pentanone	1,2,3
acetone	1,2,3
bromoform	3
bromomethane	2,3
carbon disulfide	1,3
chloroethane	2,3
chloromethane	2,3
dichlorodifluoromethane	2,3
styrene	2,3
tetrahydrofuran	4
trichlorofluoromethane	2,3
vinyl chloride	2,3

Note:
1. Source - USEPA Method 8260B, SW-846, 3rd Edition.
2. Source - MADEP CAM Guidance dated May 24, 2004 (WSC-CAM-IIA).
3. Source - Department of Defense Quality Systems Manual, Version 3.
4. Source - Resource Laboratories, LLC (RL); RL uses data from its Laboratory Control Sample analyses to identify compounds that routinely exhibit recoveries outside the acceptance limits of 30 to 100 percent.

SUMMARY AND STATUS OF ACTIVITIES – Q1 – APRIL 10, 2010
NORTHWEST LANDFILL HOTSPOT REMEDIAL DESIGN AND REMEDIAL ACTION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

1. Summary of Activities

Air Sparge Well De-Silting-
AS well de-silting activities were initiated in March 2010. This was performed to remove silt obstructing airflow through the AS screens to alleviate high pressure conditions experienced at the end of the 2009 operating season. Of the 132 AS wells, 28 were unable to be de-silted using manual methods. These 28 wells will be further evaluated prior to system start up in 2010 and will be addressed during the next quarter.

2. Deliverables and Correspondence

None.

3. Schedule for Next Quarter

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

- Finish AS well de-silting efforts (Geosearch - April 2010);
- Baseline groundwater and soil vapor sampling activities (April 2010);
- Ambient air sample collection along Tolend Road (April 2010);
- AS and SVE System Start-up Activities (April 2010);
- Monthly Operations and Management field events (May – November 2010); and
- Submittal of the 2009 AS and SVE Operational Summary Report.

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.

Mass Removal 2009:	17,603 pounds
Total Mass Removal:	17,603 pounds

5. Modifications

None.

NORTHWEST LANDFILL RESPONSE ACTION
AIR SPARGING AND SOIL VAPOR EXTRACTION
2009 ANNUAL REPORT

DOVER MUNICIPAL LANDFILL
SUPERFUND SITE
DOVER, NEW HAMPSHIRE

Prepared For:

Executive Committee of the Group of Work Settling Defendants
Dover Municipal Landfill Superfund Site

Prepared By:

XDD
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April 10, 2010

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FIGURE 2	Site Map
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1.0 INTRODUCTION

1.1 BACKGROUND

In accordance with the 2004 Amended Record of Decision (2004 AROD), the United States Environmental Protection Agency (USEPA) Region 1, in agreement with the New Hampshire Department of Environmental Services (NHDES), has lodged an Amended Consent Decree that requires the completion of Remedial Design/Remedial Action activities at the Dover Municipal Landfill (the Landfill) Superfund Site and associated impacted ground water (the Site).

In 2004, GeoInsight, Inc. (GeoInsight), XDD, LLC (XDD), and Shaw Environmental & Infrastructure, Inc. prepared a Revised Focused Feasibility Study (2004 RFFS) for the Site. The 2004 RFFS identified the need to locate the source of volatile organic compounds (VOCs) detected in surface water samples along the northern perimeter ditch. As directed by the 2004 AROD, a Pre-Design Investigation (PDI) was completed by GeoInsight in 2006 to evaluate VOC impacts in the northwest area of the landfill (VOC hot spot). Based on the results of the PDI, the VOC hot spot area was identified as the primary source of VOCs to the northern portion of the perimeter ditch. GeoInsight presented the results of the PDI in the "Draft Summary Report, Phase I Activities, Northwest Landfill Pre-Design Investigation, Dover Municipal Landfill Superfund Site, Dover, New Hampshire," (the 2006 Northwest Landfill PDI), dated December 2006.

In late November and early December 2007, XDD conducted an air sparging (AS) and soil vapor extraction (SVE) system pilot test in the VOC hot spot area to evaluate the feasibility of and establish design parameters to reduce VOC concentrations within the saturated upper sand (US) unit and overlying unsaturated refuse. Based on the results of the pilot test, a Northwest Landfill Response Action (NWLFRA) was initiated and a full-scale AS and SVE system was constructed in the VOC hot spot area during the summer and fall of 2008. This report will summarize initial AS and SVE system start up procedures and system operation conducted in 2009.

1.1.1 Site Description

The Site is located southeast of the intersection of Tolend and Glen Hill Roads in the west corner of the City of Dover (the City), Strafford County, New Hampshire (Figure 1). The Site is comprised of the Landfill, which occupies approximately 47 acres, and a region of ground water contamination that extends west and south of the Landfill boundaries into undeveloped woodlands and forested wetlands (Figure 2). The "Hoppers" wetlands and residential properties along Tolend and Glen Hill Roads border the Site to the north and east, and undeveloped woodlands and forested wetlands surround the remaining boundaries of the Site. Nearby water bodies include the Cocheco River, which lies less than 1,000 feet to the north and east, and the Bellamy Reservoir, which is located less than 2,000 feet south of the Site.

The Landfill surface is generally topographically flat with a slight increase in elevation from the east side to the northwest corner. Along the eastern and northern perimeter of the Landfill, the elevation of the Landfill is similar to that of Tolend Road (i.e., there is no defined slope and toe

to the Landfill in these areas). Along the southern and western perimeter, the slope reaches a maximum height of approximately 20 feet.

Small trees and shrubs cover the eastern, northeastern, and localized areas of the northern portion of the Landfill, and the central and southern portions are covered by sparse vegetation including grass and low brush. Access is via a gate and dirt road located at the southeast corner of the Landfill, just north of the intersection of Tolend and Glen Hill Roads.

The perimeter ditch flows along the toe of the Landfill and discharges via a series of culverts to a gully (known as the "swale") located east of the intersection of Tolend and Glen Hill Roads. The swale, which trends southwest/northeast, drains to the northeast and discharges to the Cocheco River, approximately 800 feet east of the Landfill. The elevation of surface water in the Cocheco River is approximately 30 feet lower than the ground surface along Tolend Road.

More detailed descriptions of the Site are presented in Section 1 of the 2004 RFFS.

1.2 NORTHWEST LANDFILL RESPONSE ACTION COMPOUNDS OF CONCERN

The primary compounds detected during the 2006 Northwest Landfill PDI and to be addressed by the AS and SVE system are:

- tetrachloroethene (PCE) and associated daughter products [trichloroethene (TCE), 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-DCE), trans-1,2-dichloroethene (trans-DCE), and vinyl chloride (VC)];
- benzene, toluene, ethylbenzene, and xylenes (BTEX);
- 1,1,1-trichloroethane (1,1,1-TCA) and 1,1-dichloroethane (1,1-DCA);
- chloroethane;
- methylene chloride;
- 1,2,4-trimethylbenzene; and
- 1,3,5-trimethylbenzene.

1.3 AS AND SVE SYSTEM SUMMARY

1.3.1 System Components

The AS and SVE system was constructed and operated as presented in the Northwest Landfill Response Action Work Plan (the work plan), submitted by XDD on October 24, 2008. The AS and SVE system targets two portions of the NWLFRA area: the VOC treatment area (VOCTA) and the Perimeter Treatment Curtain (PTC) (Figures 3 and 4). The VOCTA occupies a majority of the NWLFRA area. The PTC is a smaller treatment area located approximately 25 feet northeast of the VOCTA.

The AS and SVE system, which includes treatment systems for both the VOCTA and PTC area, is comprised of the following major components:

- 132 AS wells and 31 SVE wells;
- An equipment trailer that houses the treatment system; and
- Aboveground process piping that connects the AS and SVE wells to the treatment system.

Additionally, four ground water monitoring wells and six vapor probes were installed in the NWLFRA area for monitoring purposes, and a drywell was installed near the equipment trailer for the injection of treated condensate water.

1.3.2 System Layout and Design

The AS wells within the VOCTA are operated using four wells groups (Figure 3). The system was designed to rotate 2 hours of active sparging between the four groups (i.e., the four groupings operate for 2 hours at a time in succession, each with 6 hours of rest before cycling on again). Each group consisted of 31 AS wells that are equally distributed throughout the VOCTA. Additionally, AS wells were distributed in the VOCTA so that wells adjacent to each other would not be assigned to the same group.

The eight AS wells located in the PTC area operate independently of the VOCTA. The AS wells within the PTC area operated simultaneously with 2 hours of active sparging in every 8-hour period. The 31 SVE wells operate continuously during active AS (i.e., at no time were the AS wells operated without active SVE operation). The total extraction rate for the SVE system (which includes both the VOCTA and PTC area) was designed to be approximately 775 standard cubic feet per minute (scfm).

1.4 SYSTEM CONNECTION AND OPERATIONAL ACTIVITIES

The AS and SVE system equipment trailer was delivered to the Site in December 2008. Due to freezing conditions, the equipment trailer was not connected to the process piping until March 2009.

As directed in the work plan, baseline performance and exposure sampling activities were conducted in March/April 2009. The system electrical connection was finalized and system shake down activities occurred throughout April to June 2009. The SVE system was initially started on June 18, 2009. The system ran for approximately one month to reduce soil vapor concentrations and ensure the site Maximum Allowable Stack Concentrations (MASC) would not be exceeded once the AS system was started. SVE operation was followed by a brief period of AS operation within the VOCTA between July 14 and July 15, 2009 to confirm that operation of the each of the AS groups would not result in a MASC exceedance for the SVE discharge. Similarly, the SVE discharge was sampled on July 27, 2009 while the PTC Area AS locations were operating and the results were compared against the MASC.

Full system operation was initiated on August 21, 2009. Monthly O&M events were conducted until the system was shut down for the season on November 24, 2009. Post-treatment performance sampling was conducted in December 2009 and January 2010.

2.0 2009 SYSTEM OPERATION AND MONITORING

2.1 BASELINE & SEASONAL POST TREATMENT PERFORMANCE MONITORING

As a component of the performance evaluation process, baseline samples and seasonal post treatment samples are collected at the Site. A total of 13 AS wells and four ground water monitoring wells are sampled during each event. Ten of the AS wells have been designated as recurring sampling locations (Figure 3), and three locations are rotate yearly (for a total of approximately 10% of 132 AS wells). VOC results from the recurring 10 AS locations and ground water locations will be used to determine system performance with time, while data from the remaining three rotated locations will be used to evaluate the magnitude of VOC concentrations in the remainder of the US unit. Additionally, baseline sampling will also consist of:

- field measured total VOCs at each SVE well;
- field measured vacuum/pressure at the six vapor probes;
- field measured total VOCs and methane concentrations at two of the six vapor probes (VP-05 and VP-06);
- soil vapor samples collected from a total of seven SVE locations for laboratory analysis (Figure 4); and
- an ambient air sample collected along Tolend Road to the north of the treatment area to assess VOC concentrations in ambient air prior to the start of operations.

Two baseline sampling events were conducted at the Site prior to system start up. The first event was performed in September 2008 in anticipation of system startup in the fall of 2008. However, due to equipment fabrication delays, the system was not active until the summer of 2009 and therefore a second baseline sampling was performed in March/April 2009. While the September 2008 data has been presented for informational purposes only, performance evaluations will be completed using the April 2009 baseline results.

Seasonal post treatment sampling occurred in December 2009 and January 2010 (one month after cessation of active remediation to allow for the re-equilibration of soils with ground water in the NWLFRA area). Ground water samples were collected via modified USEPA low flow sampling methodology and analyzed for VOCs via USEPA Method 8260B.

2.2 2009 SYSTEM OPERATION AND MONITORING

Two types of O&M oversight were conducted at the AS and SVE system in 2009: system checks via remote telemetry and monthly Site visits.

2.2.1 Telemetry System Checks

The AS and SVE remote telemetry system was used to:

- check on alarm conditions received by XDD; and

- record current operational parameters on a weekly basis. If operational parameters were observed to significantly differ from the design, an engineer would be sent to the Site to diagnose the issue.

Operational parameters logged during weekly system checks are provided in Table 1.

2.2.2 Monthly Site Visits

Monthly Site visits were conducted by a Site engineer to check that the system was performing according to specifications as outlined in the work plan. Table 2 also includes parameters recorded during monthly Site visits. The following additional tasks were also completed during monthly Site visits:

- System Inspections
  Physical inspections of the process piping and equipment trailer were conducted during monthly Site visits and included:

  - inspection of the physical integrity of the wells and wellheads;
  - inspection of the physical integrity of the interior and exterior piping and manifolds;
  - inspection of the physical integrity of the SVE stack;
  - identification of visible leaks of water or oil from equipment contained with the system trailer; and
  - measurement of total VOC concentrations in the ambient air of the equipment trailer using a handheld PID, indicating a potential leak within the SVE discharge piping.

  Any issues observed during the system inspections were noted and promptly resolved.

  Additional Site activities included changing the oil in and lubricating the AS and SVE equipment and removing any moisture that may have accumulated in the process piping lines as needed.

- Regulatory Monitoring
  Monthly soil vapor samples were collected from the discharge side of the SVE process piping prior to release through the SVE stack. The samples were shipped via overnight delivery to Air Toxics Ltd laboratory in Folsom, California for TO-15 analyses. Results of the stack samples are provided in Table 2 and discussed in Section 3.2.1.

  Monthly aqueous samples were collected from the influent and effluent of the carbon adsorption units. These units are used to treat the water that was separated from the soil vapor by the SVE system and consist of two 200-pound carbon vessels filled with granular activated carbon (GAC). Results of this monitoring are provided in Table 3 and discussed in (Section 3.2.2).

- Exposure Monitoring
  Each month of operation, exposure monitoring was conducted at the six on-Site vapor probes: vacuum measurements were recorded at VP-01 through VP-04, and pressure

measurements, total VOCs, and methane were recorded at VP-05 and VP-06. Results of this monitoring are provided in Table 4 and discussed in Section 3.3.1.

- Dynamic Performance Monitoring
  Every other month a handheld PID unit was used to record total VOCs at each SVE well. These monitoring results are to be used for system optimization during active treatment and are provided in Table 5 and discussed in Section 3.4.2.

- Air Flow Adjustments
  Every other month, flow, pressure, and vacuum were measured (as appropriate) at the AS and SVE wells to maintain compliance with the design criteria. Field conditions permitting, the AS and SVE wells were adjusted if they varied by more than 20% of their design flow (10 and 25 scfm, respectively). Air flow data for the wells is provided in Table 5 and Table 6.

3.0 2009 SYSTEM MONITORING AND O&M RESULTS

3.1 SYSTEM INSPECTIONS RESULTS

During routine monthly AS and SVE system O&M events, the following issues were noted during the Site visits:

- Perimeter Ditch Bubbling-
  During the October 2009 O&M event, bubbling was noticed in the sediment adjacent to the perimeter ditch, just north of the PTC Area. The bubbling is thought to be caused by a high water table in the vicinity of the PTC Area SVE wells resulting from partially submerged SVE screens and therefore inefficient capture of the AS vapors. A handheld PID unit was used to measure total VOC levels in ambient air in the vicinity of the bubbling, and the screening results were below detectable levels [< 1 part per million by volume (ppmv)]. Using the AS and SVE system vapor emission rate, Air Quality Associates (AQA) performed an air dispersion modeling analysis and reported that VOC concentrations in soil vapor released from the PTC would not result in an exceedance of the NHDES ambient air limits (AALs) at the property boundary of the Site (see Section 4.2.2).

- Ground water in PTC SVE Lines-
  During the October 2009 O&M event, water was observed in approximately four of the SVE wells located at the terminus of the SVE process piping. The water is likely from the condensation of vapor within the process piping, which then collects at the terminus of each of the SVE header pipes. To drain and prevent accumulation of additional water, a sump section was installed into the header pipe. Regular draining of this sump is now a monthly O&M activity.

- AS Condensate Issue-
  During the early fall 2009 operational period, increased operating pressures were observed at the well heads. It was determined that operation during colder ambient temperatures resulted in an increased amount of condensate near the terminus of the AS system lines. To alleviate this condensate buildup, threaded caps were installed at the ends of the AS pipe legs so that the water could be drained from the system. Water removal from the AS pipe legs is now a monthly O&M activity.

- AS Flow Adjustments Due to Silting-
  The AS wells were installed in June 2008, with 6-inch well screens to target a narrow 5-foot zone of impact associated with the upper sands at the Site. Toward the end of the 2009 seasonal operation period, the observed pressures at the AS wells were higher than normal, resulting in periodic system down time due to high pressure alarm conditions. Field observations during the October 2009 O&M field event indicated that a number of AS wells contained silt, potentially obstructing flow and causing the increase in injection pressures. To avoid the periodic system shut downs, the system programming was adjusted to allow air to flow into 2 groups simultaneously (Group A and D followed by Group B and C for two hours of injection each). Altering the system programming

doubled the number of wells being injected into at a time, reduced the amount of air flowing to each well by approximately half (although the total injection rate remained constant), and alleviated the high pressure shut downs for the remainder of the 2009 operating season. Section 4.2.2 discusses how the AS locations will be desilted in 2010 to alleviate the high pressure condition.

3.2 REGULATORY MONITORING

3.2.1 SVE Discharge Stack Sampling

The SVE system was initially activated with the SVE wells operating unrestricted (not to design criteria) on June 18, 2009. Per the work plan, a Draeger-Tube was used to screen the soil vapor for the presence of vinyl chloride. Results of the soil vapor screening suggested that vinyl chloride could be an order of magnitude greater than the MASC [< 31.8 parts per million per volume (ppmv)], and a discharge vapor sample was collected prior to the SVE discharge stack (at a sample port located inside the system trailer) at which point the system was shut down while awaiting the analysis results. The sample was sent to Air Toxics Ltd. of Folsom, CA via overnight delivery, and analyzed for VOCs via USEPA Method TO-15. The results were compared against the SVE MASC concentrations for compliance. Once the results were reviewed and the SVE stack discharge concentrations were determined to be below the MASC (see Table 2), the system was then restarted for operation during for a period to assess the SVE stack concentrations relative to operation of the AS component of the system (between June 18, 2009 and August 21, 2009).

After approximately 2 weeks of SVE operation, the SVE wells were adjusted to operate according to the design flow rate of 25 scfm and a second SVE discharge sample was collected for laboratory analysis on July 6, 2009. After receipt of the analytical results, which were below the MASC, the SVE system was operated for an additional two weeks prior to confirmation sampling of each of the AS groups. Soil vapor samples were collected from the SVE discharge for analysis via USEPA Method TO-15 while each individual leg was operating on July 14 and July 15, 2009. SVE analytical results for each of the operating AS groups (Table 2) were compliant with MASC, which indicated that the AS and SVE system in the VOCTA could operate as designed for the remainder of the 2009 operating season. A final soil vapor sample was collected from the SVE discharge with the PTC Area AS locations operating at the design flow rate of 10 scfm per location on July 27, 2009. The analytical results were compared against the MASC and were compliant.

Once the system was fully operational, compliance samples were collected from the SVE discharge and analyzed for VOCs via USEPA method TO-15 (see Table 2) at a minimum rate of one per month. The sampling results were used to confirm compliance with MASC and to quantify the performance of the system by estimating mass removal rates (further discussed in Section 3.4.3).

3.2.2 Carbon Treatment Aqueous Samples

As the soil vapor enters into the trailer through the process piping, water is separated from the vapor via an air moisture separator (AMS). The moisture fraction is then treated for VOCs via

two activated carbon vessels prior to discharge back into the landfill subsurface through a drywell adjacent to the equipment container.

During the monthly Site visits, aqueous samples were collected from a sample port in the water line prior to and after the first carbon vessel. The samples were analyzed for VOCs via EPA method 8260B at Resource Laboratories in Portsmouth, NH, and the results are presented in Table 3. Sample results are used to ensure that aqueous VOCs are not re-injected back into the landfill and to determine when the activated carbon needs replacement. VOC effluent results were below laboratory reporting limits for all the discharge sample results (collected after the first activated carbon tank) and the activated carbon continues to work effectively.

3.3 EXPOSURE MONITORING

3.3.1 Vapor Probes

Exposure monitoring was conducted at the six vapor probes (VP-01 through VP-06) to determine the potential for off-Site migration of soil vapor.

Vacuum monitoring was conducted at vapor probes VP-01 through VP-04 (Table 4) and Figure 4 to confirm that sparge air is captured by the SVE system. In addition to vacuum monitoring at VP-01 through VP-04, VOC/methane monitoring was conducted at VP-05 and VP-06 (Table 4) and Figure 4 to ensure that soil vapor does not migrate north toward residences located along Tolend Road. Pressure/vacuum measurements at VP-01 through VP-06 were either under vacuum or representative of atmospheric conditions, indicating that there was no off-Site migration risk.

3.3.2 Tolend Road Samples

As per the work plan, off-Site exposure monitoring was conducted three times annually and consisted of:

- A baseline air sample collected to determine background conditions prior to the seasonal system startup; and
- two air samples collected 1 week and 3 months after active treatment was initiated for comparison to applicable NHDES AALs.

Analytical results of the air samples are presented in (Table 7). No VOCs were detected above laboratory reporting limits in the baseline sample collected in April 2009 or the air sample collected 1 week after initiation of active treatment (in July 2009). One compound (toluene) was detected at 1 ppbv (or 3.77 ug/m^3) in the ambient air sample collected 3 months after initiation of active treatment (October 22, 2009); however this sample was collected while a motor vehicle was idling in the general vicinity of the sample location. To confirm the absence of toluene in ambient air, a second sample was collected on November 12, 2009 and all compounds were below the laboratory detection limits.

3.4 PERFORMANCE MONITORING

Performance monitoring was conducted to ensure that the AS and SVE system is effectively reducing VOC concentrations in the NWLFRA ground water within the US unit and to reduce impacts to surface water in the northern drainage ditch and quantify the mass of COCs removed by the system. Water quality in the northern drainage ditch is monitored as a component of the Environmental Monitoring Plan conducted by GeoInsight twice annually.

3.4.1 Ground water Sample Results

3.4.1.1 Baseline Sampling-

Baseline ground water monitoring results for VOCs and BTEX are presented in Table 8, and the laboratory analytical Report is included in Appendix A. VOCs and BTEX compounds were the primary compounds detected in the AS and SVE treatment area. The highest concentration detected was 230,000 ug/l of cis-1,2 DCE at AS-16A. PCE was detected at a concentration of 130,000 ug/l at AS-15D. Toluene was detected at a concentration of 100,000 ug/l at AS-14A. The baseline ground water sampling results are in agreement with direct push ground water sampling results obtained by GeoInsight during the 2006 Northwest Landfill PDI. During the baseline sampling conducted in April 2009, location AS-28B was unable to be sampled due to an obstruction located approximately 8 feet below ground surface. It is expected that de-silting operations will allow a sample to be collected at this location during baseline sampling in March 2010.

3.4.1.2 Seasonal Post Treatment Sampling-

Post treatment ground water monitoring results are summarized in Table 8, and the laboratory analytical results are included in Appendix A.

The results from the December 2009/January 2010 post treatment sampling indicated significant treatment within the US ground water based upon the spring baseline sampling results (Table 9). cis-1,2 DCE at AS-16A decreased from 230,000 ug/l to 110,000 ug/l and PCE at AS-15D were reduced from 130,000 ug/l to less than 1,000 U ug/l. Results for toluene in AS-14A were reduced from 100,000 ug/l to 110 ug/l.

Of the 16 AS and monitoring locations sampled, all but two (AS-25A and GW-4) showed significant treatment for the target COCs when compared to baseline conditions. Of the 16 monitoring locations and 16 COCs, a total of 233 of the 256 sample location/COC pairs had decreasing concentrations, which were greater than 75% on average. A total of 22 sample location/COC pairs had increasing concentrations and a single location/COC pair was unchanged. Compared with chlorinated compounds, BTEX has the most significant number of reductions. The degree of BTEX reductions may be associated with creation of an aerobic environment with the treatment area of the VOCTA and PTC Area. The temporary (only during active injection) aerobic environment created by the AS wells likely result in the preferential aerobic biodegradation of BTEX relative to the anaerobically degradable chlorinated COCs.

Ground water sampling results at AS-25A and GW-4 suggest the target COC concentrations had generally increased, although several compounds did decrease between the baseline and post-seasonal sampling (primarily BTEX). The increasing trends may be due to a localized perturbation of ground water flow directions by the AS and SVE system within the VOCTA, resulting more highly impacted ground water being "displaced" towards these locations. AS-25A and GW-4 will be evaluated again after the 2010 operating season. If results from the 2010 operating season indicate the increasing concentrations persist at AS-25A and GW-4, modifications to the design flows or well configuration will be evaluated for the 2011 operating season (if applicable).

Figure 5 presents a categorical classification of total COC concentrations from the post-seasonal ground water sampling results relative to the cis-DCE distribution reported in 2006 Northwest Landfill PDI. The most significant total COC impacts to ground water (> 10,000 ug/l) are generally located in the vicinity of the highest cis-DCE concentrations (100,000 to 300,000 ug/l) reported in the 2006 Northwest Landfill PDI. Additionally, Figure 5 confirms that the relative distribution of COC impacts within the US unit remains unchanged since the 2006 PDI.

3.4.2 Soil Vapor Sampling

Soil vapor samples were collected at selected SVE wells during baseline monitoring activities to establish static VOC concentrations to assist in balancing air flow in the AS and SVE system during the operating season. Analytical results are presented in Table 5.

Dynamic performance monitoring (during active remediation) was performed following the initial system start-up and every second month thereafter. Dynamic performance monitoring consisted of field measurements of total VOCs at all the SVE wells (using a handheld PID) for system optimization. SVE performance monitoring results are presented in Table 5. Performance optimization was not required during the 2009 operating season.

3.4.3 SVE Discharge Vapor Monitoring

Over the course of the 2009 operational season (June to November 2009), the AS and SVE system removed an estimated 17,603 pounds (lbs) of COCs. Of the 17,603 lbs removed, approximately 4,900 pounds were removed from the vadose during SVE only operations. Refer to Table 10 for a breakdown of the mass removal for each constituent, as well as approximate daily removal rates calculated from the monthly SVE performance monitoring results.

The following five compounds constitute approximately 87% (or 15,318 lbs) of the total COC mass removed for the 2009 operating season:

- PCE - 6,050 lbs;
- cis-DCE - 3,825 lbs;
- toluene - 3,339 lbs;
- m&p xylenes - 1,253 lbs; and
- methylene chloride - 851 lbs.

Figure 6 presents the e total COC mass removal rate on an estimated per hour basis over the 2009 operating season (as calculated in Table 10). This chart indicates the mass removal rate was

near the highest when the SVE system was initially started in June at 219 lbs/day. The mass removal rate then decreases over the next two sampling events to 124 lbs/day, until just prior to the addition of air sparge vapors to the SVE discharge stream in August of 2009. Addition of the AS vapors increased the SVE mass removal rate to 220 lbs/day, which then declined to 136 lbs/day just prior to the seasonal decommissioning of the system in November 2009. Between the October and November sampling events, there was a minor increase in the calculated mass removal rate from 128 lbs/day to 136 lbs/day, respectively. The increase is likely a result of operational changes made to the system to alleviate the high pressure conditions experienced on the AS system and discussed in Section 3.1.

4.0 2010 SYSTEM OPERATION, MAINTENANCE & MONITORING

4.1 GENERAL OPERATIONS AND MAINTENACE

Baseline sampling has been completed in March 2010. The AS and SVE system will operate approximately from April 2010 to November 2010. The AS and SVE operational design will initially be the same as in 2009 and will follow the standard O&M schedule and weekly telemetry checks. Seasonal post treatment sampling will occur approximately 1 month after the seasonal system shutdown.

4.2 2010 SYSTEM OPERATION MODIFICATIONS

4.2.1 SVE Stack Sampling Protocol

As per the work plan, SVE stack samples were initially completed in the field using Draeger tubes to estimate the concentration of vinyl chloride relative to the MASC. If the field measurement indicated that the vinyl chloride concentration was below and order of magnitude of the MASC, the system would continue to operate while the laboratory sample was sent for analysis to confirm the field measurement. Otherwise, the system would be shut down until an evaluation of the laboratory results confirmed compliance with the MASC or determined the system required adjustment of the SVE flow rates to reduce vapor concentrations. During the 2009 operating season, Draeger tube samples for vinyl chloride were generally above the order of magnitude MASC threshold, even though laboratory results indicated much lower concentrations. The discrepancy between the sampling results is likely due to interferences with the colorimetric indicator in the Draeger tube from other organic compounds with double carbon bonds (e.g., PCE and cis-DCE) within the SVE discharge vapor. The interferences will likely result in accurate estimates of the vinyl chloride concentration in the SVE discharge for the foreseeable future, and therefore the use of Draeger tubes will be discontinued.

To confirm that the MASC is not exceeded during the 2010 and future operating seasons, SVE discharge samples will be collected on a monthly basis and sent for laboratory analysis. The results of the laboratory analysis will be compared against the MASC to confirm compliance. In those instances in which flow rates at the AS and SVE wells are similar to a previous configuration that was confirmed to be below the MASC, the system will continue to operate while the vapor samples are being analyzed. If the flow rates at the AS and SVE wells are adjusted so that they represent a configuration that has not be verified previously, then the AS and SVE system will be temporarily shut down until the laboratory results confirm compliance with the MASC.

4.2.2 AS Well Desilting

In September 2009, decreased flow within some AS wells resulted in high pressure conditions within the system equipment (see Section 3.1). To alleviate the high pressure conditions, the AS wells are to be desilted by purging alone or by water injection and subsequent purging. The desilting activities ocured in March and April 2010. If well development does not relieve the

high pressure conditions and restore air flow at the wells, XDD will evaluate other potential methods to address the issue during the 2010 operating season.

4.2.3 Perimeter Treatment Ditch

As discussed in Section 3.1, the escape of air from the soil near the perimeter ditch is likely to continue during the 2010 operational season.

XDD performed an analysis of the escaping vapors to determine if the escaping vapors would result in an exceedance of NHDES AALS at the property boundary. The analysis used analytical results from the 2009 baseline sampling event and concentrations reported in the 2006 Northwest Landfill PDI to determine the mass of COCs located within the treatment volume in the PTC Area. It was assumed that the AS locations along the PTC Area (AS-01E through AS-08E) are 100% efficient at removing the target COCs from ground water (see Table 8). As a conservative assumption, it was also assumed that the SVE system along the PTC Area did not capture any of the sparge vapors, although the October 23, 2009 dynamic soil vapor data (Table 5) indicates that the SVE system was capturing approximately 52% of the sparge vapor.

To determine if the additional source of VOCs to the ambient air would result in an exceedance of the NHDES AAL at the property boundary, the results of the analysis (Table 8) conducted by XDD were sent to Air Quality Associates (AQA) to perform air dispersion modeling. AQA modeled the emanations of the VOC impacted vapors from the PTC area in conjunction with the SVE discharge observed on September 25, 2009 to determine if there was a risk associated with exceeding AALs at the property boundary. The results of the air dispersion modeling under these conservative conditions (no SVE capture along in the PTC Area), indicates that the AALs will not be exceeded along the property boundary. See Appendix B for the results of the air dispersion modeling.

Therefore the PTC Area AS wells will be operated according to the design specifications presented in the work plan and the SVE wells will be adjusted to capture as much of the AS vapor as field conditions allow during the 2010 operating season.

4.3 PERFORMANCE OPTIMIZATION

4.3.1 Maximizing Treatment Efficiency

For the first month of the 2010 operating season, the AS and SVE system will be operated according to the design criteria specified in the work plan (to confirm the SVE discharge is below the MASC). After the first month of operation the system will be optimized for maximum VOC mass removal. The potential optimization process has been evaluated using a combination of dynamic total VOC measurements collected from the SVE wells in October 2009 and ground water results at the AS and monitoring well locations from post-seasonal treatment monitoring (December 2009/January 2010) (Refer to Table 12). Using these field results, flow to AS and SVE locations that had elevated VOC concentrations (>10,000 ug/l and 1,000 ppm, respectively) will be increased while those AS and SVE locations with minimal VOCs (<1,000 ug/l and 500 ppm, respectively) will be reduced. Flow at the moderately impacted AS and SVE locations are to be left unadjusted from the work plan flow rates.

4.3.2 AS Reconfiguration

To maximize the VOC removal rate for the AS component of the system, total VOC concentrations from the post-seasonal sampling at the AS wells were reviewed. Based upon this review the AS wells were categorized based upon the following criteria (Table 13 and Figure 6):

- <1,000 ug/l – air flow will be decreased (~ 2 to 3 scfm);
- 1000 to 10,000 ug/l – air flow will stay approximately the same (~ 10 scfm); and
- >10,000 ug/l – air flow will be increased (~ 20 scfm).

The increased flow rates at the most impacted AS locations typically results in an increased frequency of air channels in the saturated subsurface and therefore will likely result in an increase in the mass removal efficiency.

The AS wells will be reconfigured according to their corresponding SVE ROI so as not to exceed the SVE flow rate. This will prevent vapors from migrating outside of the treatment area.

4.3.3 SVE Optimization

To maximize the VOC removal rate for the SVE component of the system, total VOC field measurements recorded at the SVE wellhead during dynamic sampling were reviewed. Based upon this review the SVE wells categorized based upon the following criteria (Refer to Table 12 and Figure 6):

- <500 ppmv – air flow will be decreased (~10 scfm);
- 500 to 1000 ppmv – air flow will stay the same; and
- >1,000 ppmv – air flow will be increased (to a maximum of 65 scfm).

Air flow will be reduced at approximately 20 of the 31 SVE wells. The flow in the 20 SVE wells will be reduced to 10 scfm. The additional flow will be distributed to 6 of the 11 remaining SVE wells, with the other five SVE wells keeping the same flow rate. Since adjustment of the AS flow rates will likely effect COC concentrations at individual SVE wells, the optimization process may be altered based upon field conditions.

As the majority of the AS and SVE locations with increased flow rates are located away from Tolend Road to the west, the potential to increase migration of impacted vapors towards receptors is minimal. As per the work plan, vapor probes associated with the NWLFRA will be monitoring on a monthly basis to confirm that operation of the system is not causing impacted soil vapors to migrate towards Tolend Road.

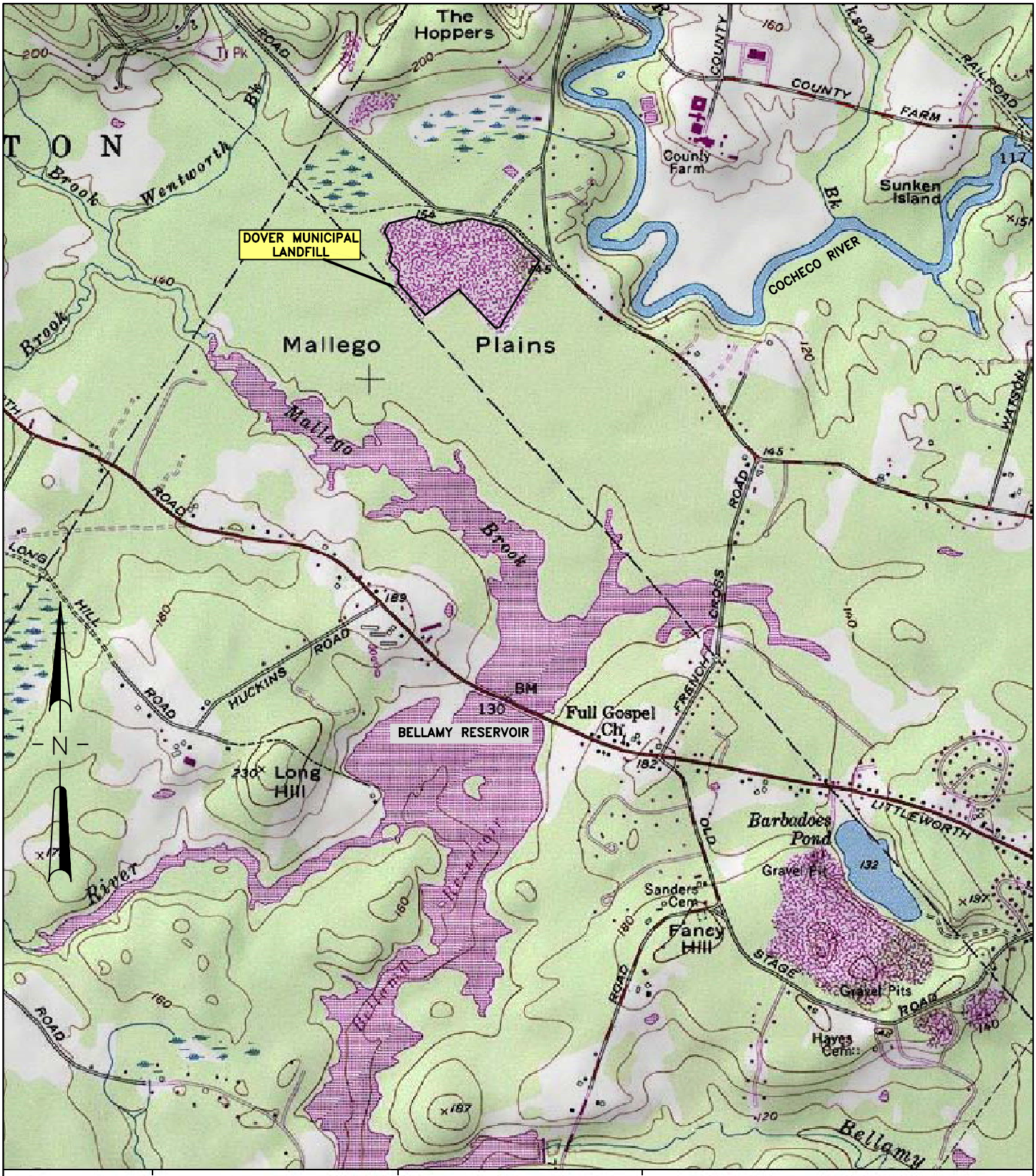
A calculation was performed to estimate the increase in the mass removal rate based upon the optimization (Table 12). The results of the analysis indicate that the optimization will increase the mass removal rate from approximately 5.33 lbs/hr to 9.73 lbs/hr.

It is not expected that optimization will exceed the SVE MASC. VOC concentrations within the SVE discharge from the end of the 2009 operating season indicate that methylene chloride is the compound which is closest to the MASC, at 8 percent. Therefore increasing the lbs/hr is not

expected to result in a MASC exceedance, although monitoring will be completed in accordance with the work plan to confirm.

The AS and SVE system is expected to be operated for the majority of 2010 under these conditions, unless field measurements indicate that further optimization is achievable.

FIGURES



340000m E. 341000m E. 342000m E. WGS84 Zone 19

0 .5 1 MILE

0 1000 FEET 0 500 1000 METERS

Map created with TOPO!® ©2003 National Geographic (www.nationalgeographic.com/topo)

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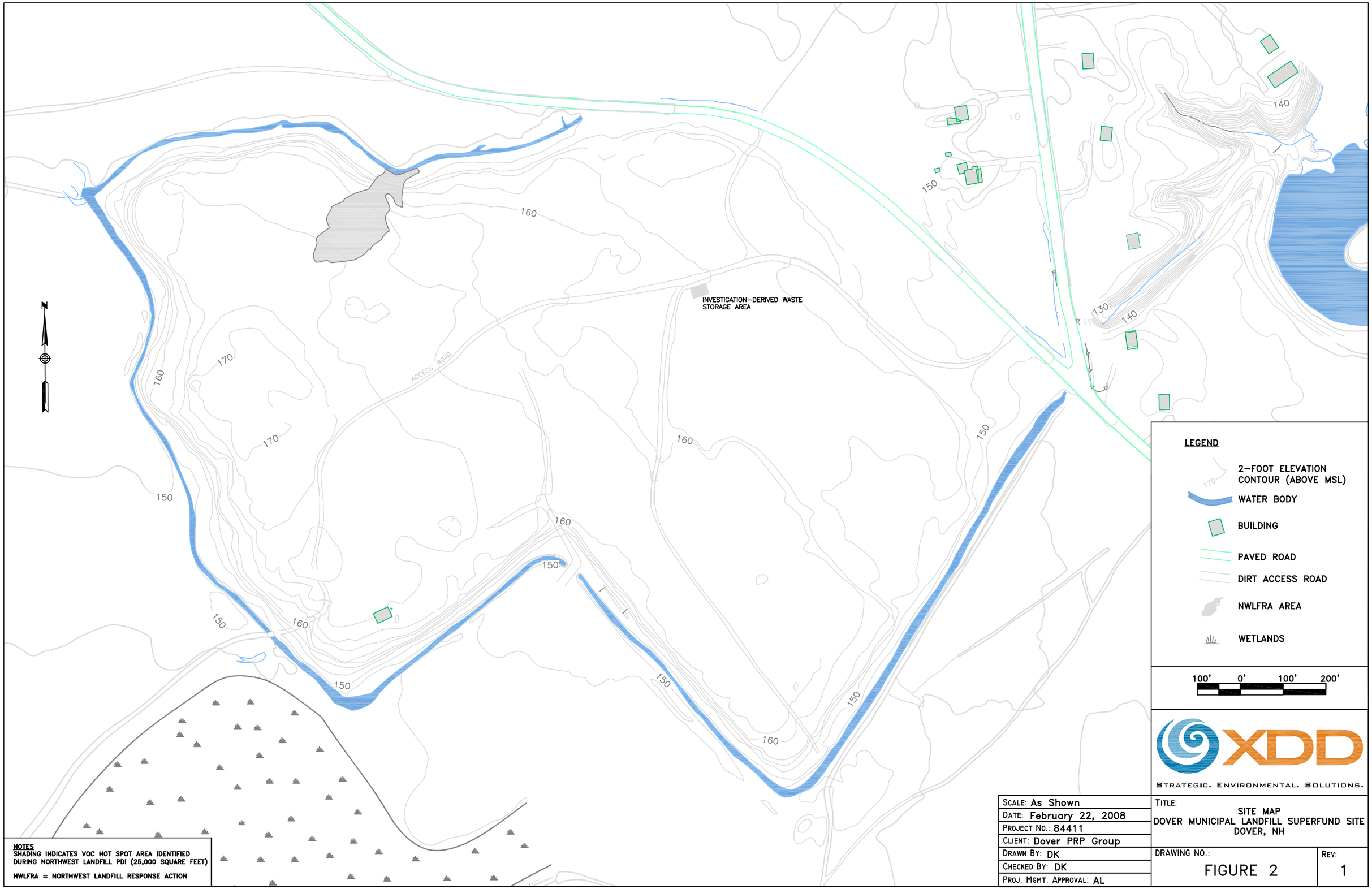
SCALE: AS SHOWN	TITLE: SITE LOCATION MAP DOVER MUNICIPAL LANDFILL SUPERFUND SITE DOVER, NH
DATE: APRIL 9, 2007	
PROJECT NO.: 84411	
CLIENT: DOVER PRP GROUP	
DRAWN BY: DK	DRAWING NO. FIGURE 1
CHECKED BY: DK	REV. 1
PROJ. MGMT. APPROVAL: AL	


INVESTIGATION-DERIVED WASTE STORAGE AREA
ACCESS ROAD
160
170
150
140
130
LEGEND
2-FOOT ELEVATION CONTOUR (ABOVE MSL)
WATER BODY
BUILDING
PAVED ROAD
DIRT ACCESS ROAD
NWLFRA AREA
WETLANDS
100' 0' 100' 200'
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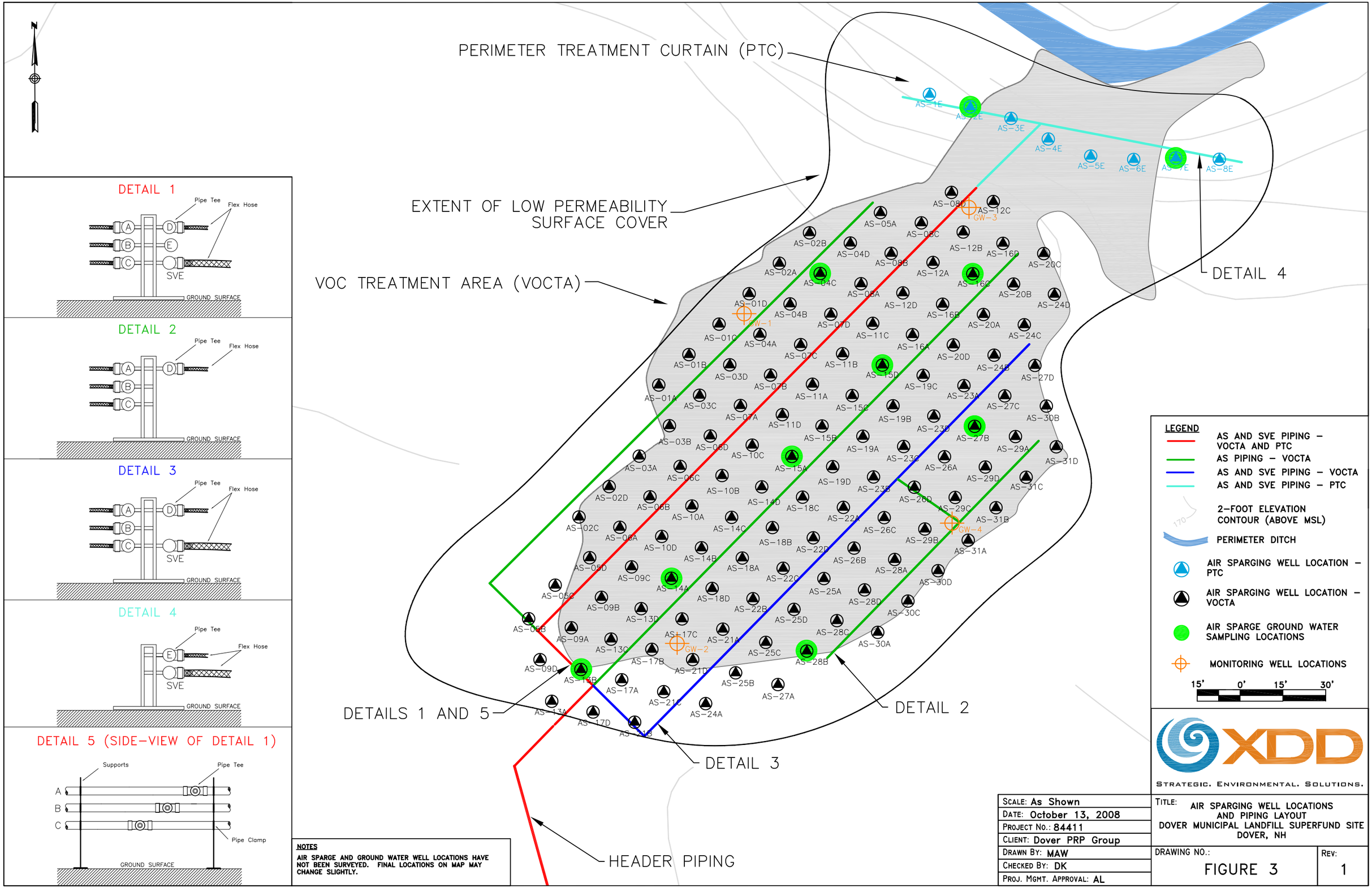
NOTES
SHADING INDICATES VOC HOT SPOT AREA IDENTIFIED DURING NORTHWEST LANDFILL PDI (25,000 SQUARE FEET)
NWLFRA = NORTHWEST LANDFILL RESPONSE ACTION
SCALE: As Shown
DATE: February 22, 2008
PROJECT NO.: 84411
CLIENT: Dover PRP Group
DRAWN BY: DK
CHECKED BY: DK
PROJ. MGMT. APPROVAL: AL
TITLE:
SITE MAP
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NH
DRAWING NO.:
FIGURE 2
REV:
1



NOTES

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

EXTENT OF LOW PERMEABILITY SURFACE COVER

DETAILS 3 AND 4

DETAIL 1

HEADER PIPING

DETAIL 2

SVE-01
SVE-02
SVE-03
SVE-04
SVE-05
SVE-06
SVE-07
SVE-08
SVE-09
SVE-10
SVE-11
SVE-12
SVE-13
SVE-14
SVE-15
SVE-16
SVE-17
SVE-18
SVE-19
SVE-20
SVE-21
SVE-22
SVE-23
SVE-24
SVE-25
SVE-26
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SVE-31

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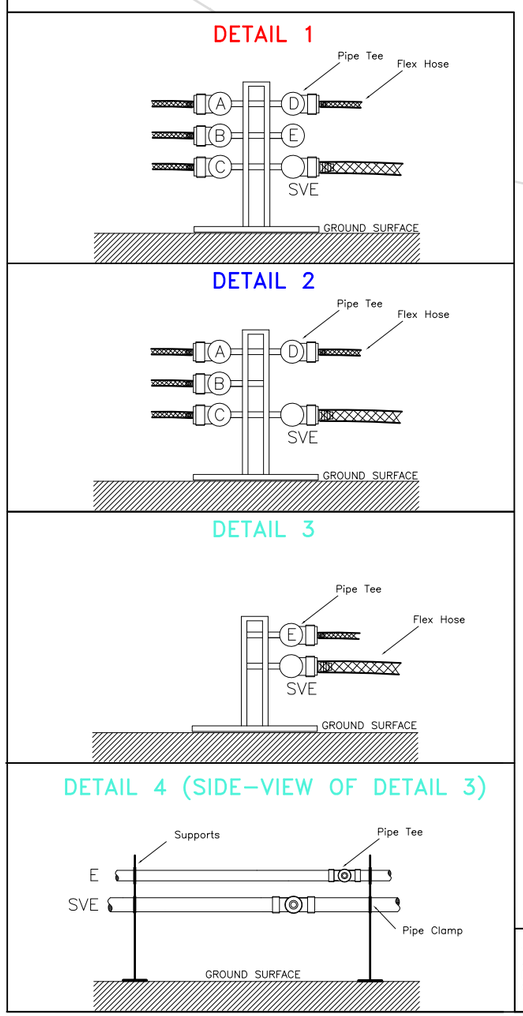
VP-3
VP-4
VP-5
VP-6



NOTES

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

LEGEND

- SVE PIPING – VOCTA AND PTC
- SVE PIPING – VOCTA
- SVE PIPING – PTC
- AS PIPING – VOCTA AND PTC
- 2-FOOT ELEVATION CONTOUR (ABOVE MSL)
- PERIMETER DITCH
- SOIL VAPOR EXTRACTION WELL LOCATION – PERIMETER TREATMENT CURTAIN
- SOIL VAPOR EXTRACTION WELL LOCATION – VOC TREATMENT AREA
- SOIL VAPOR EXTRACTION WELL SAMPLING LOCATIONS
- VAPOR PROBE LOCATIONS

15' 0' 15' 30'

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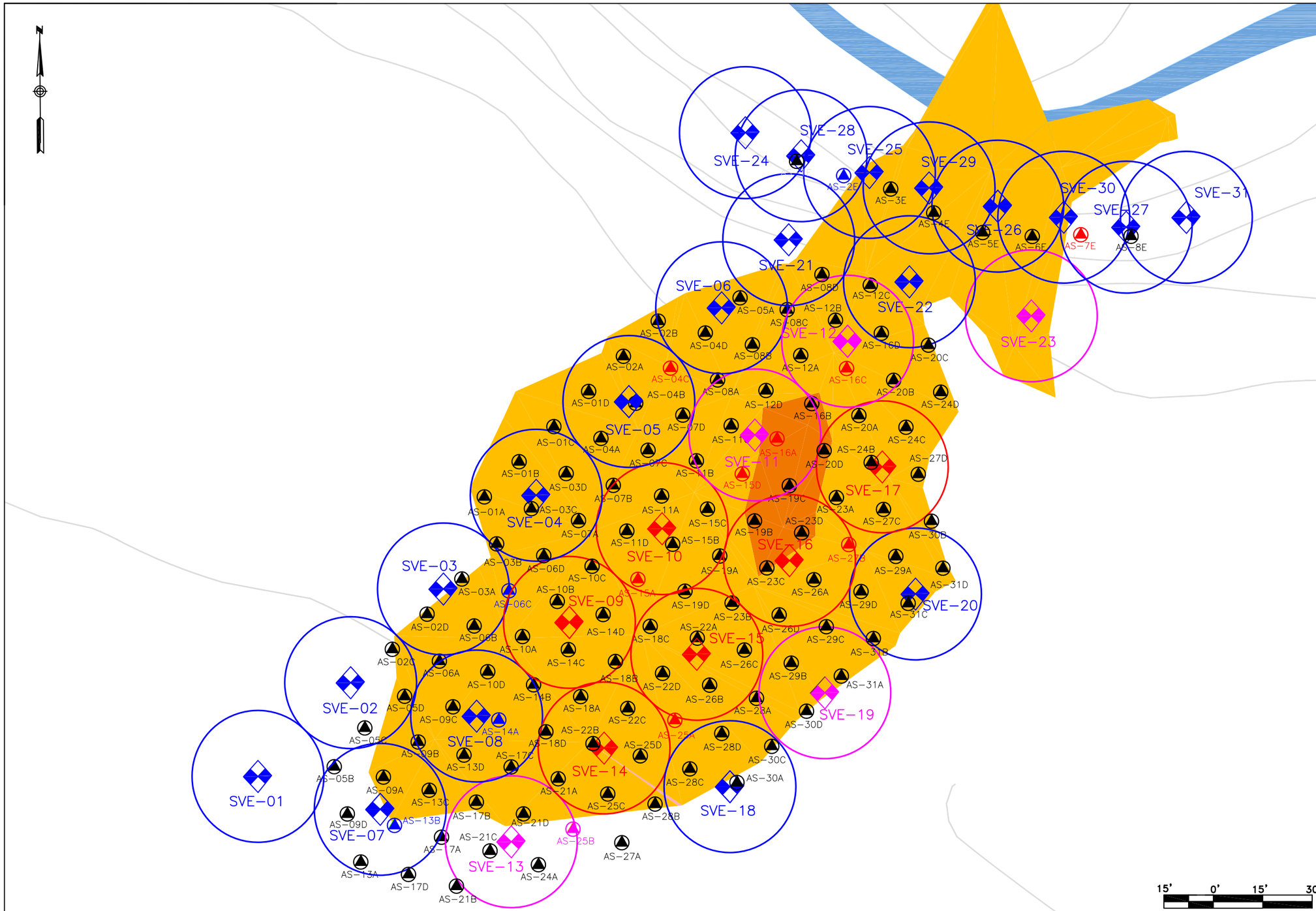
SCALE: As Shown	TITLE: SOIL VAPOR EXTRACTION WELL LOCATIONS AND PIPING LAYOUT DOVER MUNICIPAL LANDFILL SUPERFUND SITE DOVER, NH
DATE: October 13, 2008	
PROJECT NO.: 84411	
CLIENT: Dover PRP Group	
DRAWN BY: AG	DRAWING NO.: FIGURE 4
CHECKED BY: DK	REV: 2
PROJ. MGMT. APPROVAL: AL	



LEGEND

- SVE WELL FLOW DECREASED (PID </= 500 ppmv)
- AS WELL FLOW DECREASED (GWC </=1,000 ug/l)
- SVE ROI FLOW DECREASED
- SVE WELL FLOW NO CHANGE (PID = 500–1,000 ppmv)
- AS WELL FLOW NO CHANGE (GWC = 1,000–10,000 ug/l)
- SVE ROI FLOW NO CHANGE
- SVE WELL FLOW INCREASED (PID >/= 1,000 ppmv)
- AS WELL FLOW INCREASED (GWC >/= 10,000 ug/l)
- SVE ROI FLOW INCREASED
- 2–FOOT ELEVATION CONTOUR (ABOVE MSL)
- PERIMETER DITCH
- AIR SPARGING WELL LOCATION
- SVE WELL

cis–1,2–DCE Conc. and existing pieziometer from GeoInsight NW Landfill Pre–Design Investigation (2006)

- 10,000–100,000 ppb
- 100,000–300,000 ppb

15' 0' 15' 30'

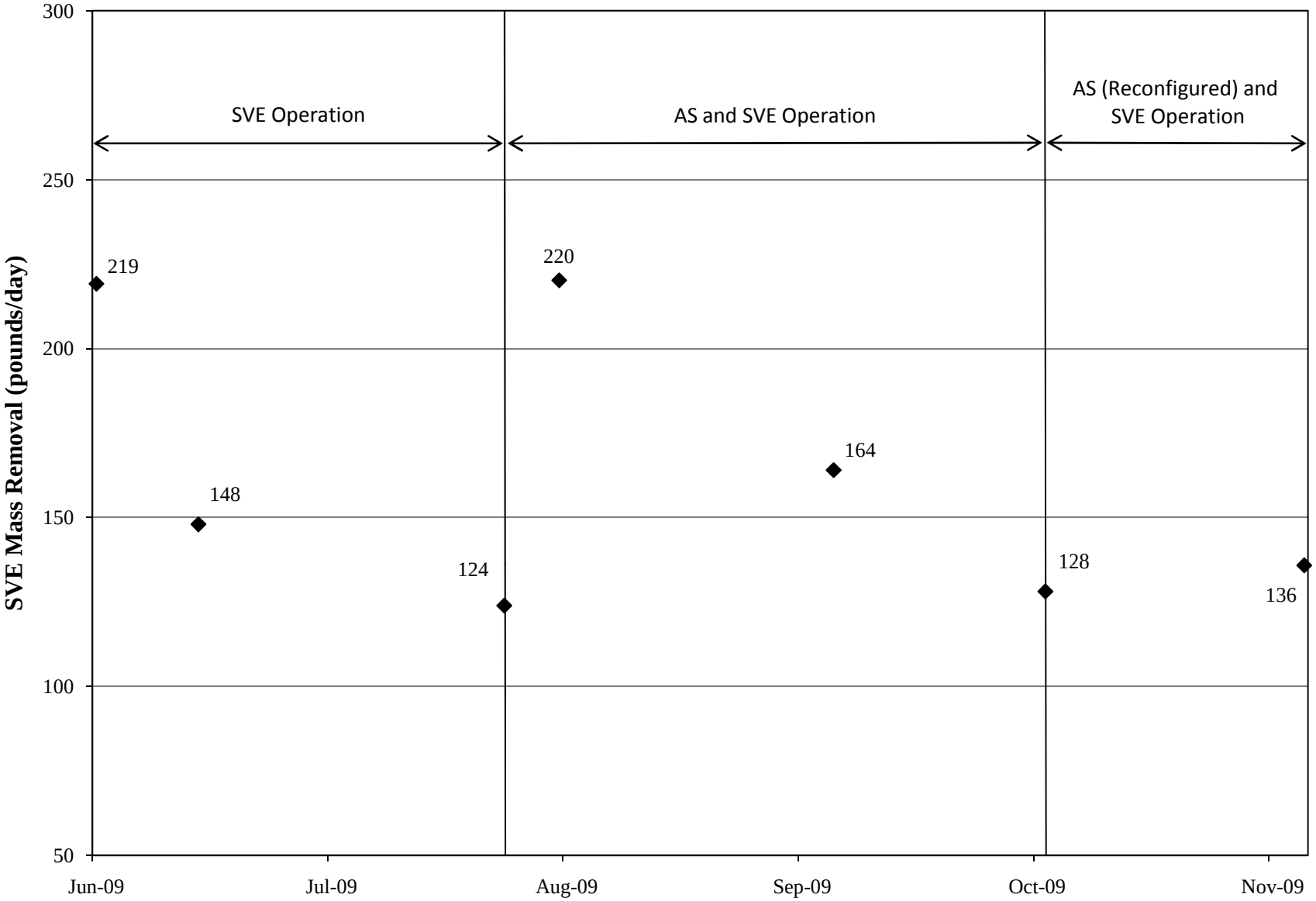
XDD
STRATEGIC. ENVIRONMENTAL. SOLUTIONS.

NOTES

–AIR SPARGE AND SOIL VAPOR EXTRACTION WELL LOCATIONS SURVEY LOCATED IN DECEMBER 2008.
–GWC – GROUNDWATER CONCENTRATION
–PID – PHOTOIONIZATION DITECTOR
–PPMV = PARTS PER MILLION VOLUME
–UG/L – MICROGRAMS PER LITER

SCALE: As Shown	TITLE: SOIL VAPOR EXTRACTION WELL FLOW OPTIMIZATION DOVER MUNICIPAL LANDFILL SUPERFUND SITE DOVER, NH
DATE: October 13, 2008	
PROJECT NO.: 84411	
CLIENT: Dover PRP Group	
DRAWN BY: MAW	DRAWING NO.: FIGURE 5
CHECKED BY: DK	REV: 1
PROJ. MGMT. APPROVAL: AL	

FIGURE 6
SVE TOTAL VOC MASS REMOVAL RATE VERSUS TIME
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NH



TABLES

Table 1
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	4	140	762	100	10	140	125	380	10	110	288	6
8/21/2009	B	725	3	150	993	100	11	145	194	420	9	114	675	6
8/31/2009	A	725	3	134	1,162	100	12	120	236	421	12	101	998	9
9/4/2009	A	733	3	132	1,242	100	13	115	262	404	13	99	1,155	9
9/11/2009	B	730	4	125	1,405	105	13	130	308	380	18	94	1,488	6
9/18/2009	A	722	3	130	1,562	100	12	120	400	397	15	95	1,789	10
9/25/2009	B	730	4	135	1,675	100	13	120	427	380	18	83	2,025	7
10/2/2009	B	746	3	122	1,699	100	13	116	1,035	406	18	90	2,071	7
10/9/2009	B	725	3	130	1,814	100	13	116	477	339	19	93	2,286	10

Table 1
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)
10/16/2009	B	745	3	115	1,914	100	5	107	537	457	10	77	2,479	11
10/22/2009	A	740	4	120	2,059	100	14	115	560	450	11	70	2,782	8
10/30/2009	B	735	3	127	2,241	97	9	110	613	473	9	82	3,133	13
11/9/2009	B	738	3	130	2,481	99	10	117	676	481	8	86	3,613	14
11/13/2009	B	736	3	126	2,577	96	6	108	699	378	18	82	3,803	15
11/20/2009	B	754	3	122	2,745	96	12	124	742	448	11	91	4,140	16
11/23/2009	A	750	4	120	2,825	NR	NR	NR	NR	370	20	73	4,314	10

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 seasonal shutdown
Disc. Temp. = discharge temperature

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

The flow rate readings for the VOCTA recorded via telemetry in August and September 2009 [Event Type B] are biased high due to the unit's calibration. More accurate flow rates were were recored during site visits [Event Type A].
Start date for system was 8/10/09.

* = 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 2
SVE Discharge VOC Concentrations

Dover Municipal Landfill Superfund Site, Dover, NH

Sample Event	Sample Date	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride
		(Concentrations are reported in ppmv)															
Maximum Allowable Stack Concentration		7,829	15,644	109,359	44,031	4,413	364,517	364,554	318	11,017	11,017	156	20,726	15,579	31,232	31,232	234
SVE	6/19/2009	43	9.2	5.9	14.0	1.4	410	0.8	71.0	1.5	0.7	0.6 U	9.4	140	25	6.2	84
SVE	7/6/2009	58	8.5	4.0	7.4	0.5	210	0.5	13.0	3.7	1.4	0.3 U	11.0	120	31	8.4	40
AS/SVE (Line A)	7/14/2009	76	10.0	10.0	9.3	0.6	200	0.5	21.0	4.1	1.7	0.3	14.0	140	38	10.0	46
AS/SVE (Line C)	7/14/2009	84	11.0	16.0	10.0	0.8	230	0.6	21.0	4.2	1.8	0.5 U	15.0	160	42	11.0	52
AS/SVE (Line B)	7/15/2009	72	9.4	14.0	8.4	0.6	180	0.5	18.0	3.7	1.5	0.3 U	13.0	130	35	9.8	39
AS/SVE (Line D)	7/15/2009	76	9.9	12.0	9.2	0.6	190	0.5	21.0	3.9	1.6	0.3 U	13.0	140	36	10.0	43
AS/SVE (Line E)	7/27/2009	40 J	8.1	4.0	5.4	0.3	130	0.4	6.2	3.8	1.4	0.2 U	11.0	110	32	9.0	28
SVE	8/14/2009	68	8.9	13.0	7.6	0.4 U	130	0.4	6.0	2.2	1.1	0.4 U	8.6	100	25	7.2	36
AS/SVE (Line D)	8/21/2009	140	12.0	26.0	13.0	1.1 U	200	1.1 U	6.6	6.3	3.0	1.1 U	17.0	190	53	16.0	65
AS/SVE (Line B)	9/25/2009	140	11.0	14.0	6.5	1.0 U	110	1.0 U	3.9	4.9	2.6	1.0 U	11.0	140	40	12.0	30
AS/SVE (Lines A&D)	10/22/2009	120	8.4	8.2	4.4	1.0 U	70	1.0 U	2.4	4.6	2.5	1.0 U	9.0	100	35	12.0	19
AS/SVE (Lines B&C)	11/24/2009	140	9.9	9.0	3.9	0.2	60	0.2	2.2	7.2	3.9	0.2 U	10.0	78	41	16.0	18

Table 2
SVE Discharge VOC Concentrations

Dover Municipal Landfill Superfund Site, Dover, NH

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

Notes:

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

Table 3
Aqueous Carbon Treatment VOC Concentrations
Dover Municipal Landfill Superfund Site, Dover, NH

Sample Date	Sample	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis1,2-DCE	trans-1,2-DCE	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride	1,4-Dioxane	MEK	2-Hex-anone	MIBK	Ace-tone	n-propyl-Benzene	THF
(Concentrations are presented in ppb)																						
9/25/2009																						
	Carbon Inf.	1,600	190	120	150	10 U	3,500	20 U	140	78	61	2,400	700	480	1,300	700	1800	150	1100	820	20 U	240
	Carbon Eff	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	50 U	10 U	10 U	10 U	50 U	2 U	10 U
10/22/2009																						
	Carbon Inf.	1,600	180	110	120	5 U	2,800	12	150	74	160	2,400	680	450	1,100	540	1100	50 U	780	370	11	210
	Carbon Eff	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	50 U	10 U	10 U	10 U	50 U	2 U	10 U
11/23/2009																						
	Carbon Inf.	1,700	140	98	86	5 U	1,600	10 U	150	92	84	1,100	480	350	730	490	400	58	470	250 U	10 U	140
	Carbon Eff	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U	50 U	10 U	10 U	10 U	50 U	2 U	10 U

Notes:
VOC = volatile organic compound
Inf. = influent
Eff = effluent
ppb = parts per billion
U = compound was not detected at the indicated concentration
J = estimated concentration
PCE = tetrachloroethene
TCE = trichloroethene
1,1,1-TCA = 1,1,1-trichloroethane
1,1-DCA = 1,1-dichloroethane
1,1-DCE = 1,1-dichloroethene
cis-1,2-DCE = cis-1,2-dichloroethene
trans-1,2-DCE = trans-1,2-dichloroethene
MEK = methy ethyl ketone
MIBK = methy isobutyl ketone
THF = tetrahydrofuran
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 4
Vapor Probe Data
Dover Municipal Landfill Superfund Site, Dover, NH

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

Table 4
Vapor Probe Data

Dover Municipal Landfill Superfund Site, Dover, NH

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

Notes:

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

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

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

Table 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	0.16	21.82	4,221.0
	SVE-16	5.4	0.26	27.81	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
	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

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

	SVE Well ID	Vacuum (in. H2O)	Differential Pressure (in. H2O)	Flow (scfm)	Total VOCs (ppmv)
7/6/2009					
	SVE-11	1.4	0.30	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
	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

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

	SVE Well ID	Vacuum (in. H2O)	Differential Pressure (in. H2O)	Flow (scfm)	Total VOCs (ppmv)
8/21/2009					
	SVE-14	2	0.25	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
10/23/2009					
	SVE-01	2.2	0.30	30.00	20.0
	SVE-02	1.35	0.25	27.41	4.2
	SVE-03	1.75	0.30	30.01	439.0
	SVE-04	1.9	0.38	33.55	70.4
	SVE-05	8	0.20	24.32	61.0
	SVE-06	2.05	0.40	34.64	27.2
	SVE-07	0.85	0.32	31.27	254.0
	SVE-08	7.6	0.32	31.01	351.0
	SVE-09	8.2	0.25	27.18	1,093.0
	SVE-10	3.8	0.40	34.57	3,334.0
	SVE-11	1.65	0.45	36.76	593.0
	SVE-12	1.3	0.40	34.67	636.0
	SVE-13	10	0.30	29.71	966.0
	SVE-14	3	0.25	27.36	1,822.0
	SVE-15	10	0.30	29.71	4,709.0
	SVE-16	8	0.25	27.19	3,031.0

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

	SVE Well ID	Vacuum (in. H2O)	Differential Pressure (in. H2O)	Flow (scfm)	Total VOCs (ppmv)
10/23/2009					
	SVE-17	3.6	0.25	27.33	1,917.0
	SVE-18	6	0.38	33.38	373.0
	SVE-19	10	0.25	27.12	951.0
	SVE-20	8	0.20	24.32	72.7
	SVE-21	1.35	0.45	36.78	10.0
	SVE-22	7	0.25	27.22	84.6
	SVE-23	0.2	0.05	12.28	897.0
	SVE-24	6.6	0.05	12.18	7.4
	SVE-25	-	-	-	nm
	SVE-26	-	-	-	nm
	SVE-27	5.8	0.05	12.19	17.3
	SVE-28	6.4	0.05	12.18	0.4
	SVE-29	6.6	0.05	12.18	12.7
	SVE-30	6.4	0.05	12.18	3.0
	SVE-31	6.4	0.05	12.18	29.7

Notes:

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

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

SVE-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.
SVE operations were initiated on July 6, 2009; AS and SVE operations were initiated on August 10, 2009.

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-01A				
	7/14/2009	6.0	8.0	11.1
	8/24/2009	9.0	3.0	4.7
	9/2/2009	12.0	4.5	8.0
	10/23/2009	9.0	0.0	0.0
AS-01B				
	7/15/2009	2.0	9.0	10.0
	8/24/2009	10.0	0.0	0.0
	9/2/2009	14.0	3.0	5.7
	10/23/2009	8.5	0.0	0.0
AS-01C				
	7/14/2009	7.5	0.0	0.0
	8/24/2009	13.0	0.0	0.0
	9/2/2009	15.0	3.0	5.9
	10/23/2009	11.0	0.0	0.0
AS-01D				
	7/15/2009	NR	NR	NR
	8/24/2009	9.0	7.0	11.1
	9/2/2009	9.0	6.5	10.3
	9/11/2009	10.0	5.5	9.1
	10/23/2009	9.0	0.0	0.0
AS-01E				
	7/27/2009	3.0	9.8	11.5
	8/24/2009	5.0	10.0	13.1
	9/2/2009	5.0	8.0	10.5
	10/23/2009	6.5	7.4	10.5
AS-02A				
	7/14/2009	6.0	7.5	10.4
	8/24/2009	11.0	2.5	4.3
	9/2/2009	10.0	6.5	10.7
	10/23/2009	8.0	4.6	7.0
AS-02B				
	7/15/2009	8.0	0.0	0.0
	8/24/2009	11.0	0.0	0.0
	9/2/2009	11.5	7.0	12.2

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-02B				
	10/23/2009	3.5	7.0	8.5
AS-02C				
	7/14/2009	8.0	0.0	0.0
	8/24/2009	13.0	0.0	0.0
	9/2/2009	16.0	3.0	6.1
	10/23/2009	7.0	0.0	0.0
AS-02D				
	7/15/2009	3.5	7.5	9.1
	8/24/2009	10.5	0.0	0.0
	9/2/2009	16.0	0.0	0.0
	9/11/2009	15.0	0.0	0.0
	10/23/2009	9.0	0.0	0.0
AS-02E				
	7/27/2009	7.0	5.5	8.0
	8/24/2009	10.0	0.0	0.0
	9/2/2009	11.0	4.0	6.9
	10/23/2009	11.0	0.0	0.0
AS-03A				
	7/14/2009	7.0	4.0	5.8
	8/24/2009	10.0	3.0	4.9
	9/2/2009	11.0	6.5	11.1
	10/23/2009	6.0	8.0	11.1
AS-03B				
	7/15/2009	8.0	4.0	6.1
	8/24/2009	10.0	2.5	4.1
	9/2/2009	13.0	4.5	8.3
	10/23/2009	8.0	4.0	6.1
AS-03C				
	7/14/2009	5.5	9.0	12.1
	8/24/2009	11.0	7.0	12.0
	9/2/2009	8.0	10.0	15.2
	10/23/2009	10.0	0.0	0.0
AS-03D				

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-03D				
	7/15/2009	7.0	3.0	4.3
	8/24/2009	7.0	8.0	11.6
	9/2/2009	13.0	8.0	14.8
	9/11/2009	9.0	5.0	7.9
	10/23/2009	9.0	0.0	0.0
AS-03E				
	7/27/2009	2.0	10.0	11.1
	8/24/2009	4.0	8.0	10.0
	9/2/2009	6.0	7.0	9.7
	10/23/2009	6.5	7.0	9.9
AS-04A				
	7/14/2009	7.0	4.5	6.5
	8/24/2009	9.0	7.5	11.9
	9/2/2009	6.5	9.0	12.7
	10/23/2009	6.5	5.7	8.0
AS-04B				
	7/15/2009	8.0	4.0	6.1
	8/24/2009	4.0	10.0	12.5
	9/2/2009	11.0	6.5	11.1
	10/23/2009	8.5	0.0	0.0
AS-04C				
	7/14/2009	5.0	7.5	9.9
	8/24/2009	12.0	6.0	10.7
	9/2/2009	15.0	5.0	9.9
	10/23/2009	10.0	5.8	9.5
AS-04D				
	7/15/2009	7.0	5.0	7.2
	8/24/2009	11.0	0.0	0.0
	9/2/2009	14.0	8.0	15.3
	9/11/2009	13.0	5.0	9.2
	10/23/2009	9.0	1.9	3.0
AS-04E				
	7/27/2009	8.0	5.0	7.6
	8/24/2009	10.0	4.5	7.4

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-04E				
	9/2/2009	10.0	6.0	9.9
	10/23/2009	10.0	3.6	6.0
AS-05A				
	7/14/2009	5.0	8.0	10.5
	8/24/2009	11.0	0.0	0.0
	9/2/2009	13.0	0.0	0.0
	10/23/2009	9.0	0.0	0.0
AS-05B				
	7/15/2009	2.0	9.5	10.6
	8/24/2009	5.0	10.0	13.1
	9/2/2009	3.0	10.0	11.8
	10/23/2009	3.0	8.0	9.5
AS-05C				
	7/14/2009	5.0	10.0	13.1
	8/24/2009	4.5	10.0	12.8
	9/2/2009	5.0	10.0	13.1
	10/23/2009	5.0	7.0	9.2
AS-05D				
	7/15/2009	3.0	8.0	9.5
	8/24/2009	6.0	9.0	12.4
	9/2/2009	4.0	10.0	12.5
	9/11/2009	6.0	9.5	13.1
	10/23/2009	3.5	7.0	8.5
AS-05E				
	7/27/2009	10.0	3.0	4.9
	8/24/2009	10.0	4.5	7.4
	9/2/2009	9.0	6.0	9.5
	10/23/2009	10.5	4.0	6.7
AS-06A				
	7/14/2009	5.0	10.0	13.1
	8/24/2009	9.0	8.0	12.7
	9/2/2009	8.0	8.0	12.1
	10/23/2009	5.0	7.0	9.2

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-06B				
	7/15/2009	5.0	9.5	12.5
	8/24/2009	8.0	9.0	13.6
	9/2/2009	8.0	8.0	12.1
	10/23/2009	5.0	5.5	7.2
AS-06C				
	7/14/2009	4.0	8.0	10.0
	8/24/2009	5.0	5.0	6.6
	9/2/2009	8.0	8.0	12.1
	10/23/2009	8.0	6.3	9.5
AS-06D				
	7/15/2009	5.5	7.0	9.4
	8/24/2009	8.0	8.5	12.9
	9/2/2009	6.5	9.0	12.7
	9/11/2009	6.0	8.5	11.7
	10/23/2009	6.5	5.7	8.0
AS-06E				
	7/27/2009	8.0	9.0	13.6
	8/24/2009	8.0	6.5	9.8
	9/2/2009	10.0	7.0	11.5
	10/23/2009	10.0	7.0	11.5
AS-07A				
	7/14/2009	5.5	8.0	10.8
	8/24/2009	9.0	7.0	11.1
	9/2/2009	10.0	7.5	12.4
	10/23/2009	8.5	0.0	0.0
AS-07B				
	7/15/2009	2.0	8.0	8.9
	8/24/2009	9.5	5.5	8.9
	9/2/2009	13.0	3.0	5.5
	10/23/2009	8.5	0.0	0.0
AS-07C				
	7/14/2009	7.0	0.0	0.0
	8/24/2009	6.0	0.0	0.0
	9/2/2009	16.0	0.0	0.0

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-07C				
	10/23/2009	9.0	0.0	0.0
AS-07D				
	7/15/2009	7.0	5.5	8.0
	8/24/2009	10.0	3.0	4.9
	9/2/2009	10.0	6.0	9.9
	9/11/2009	10.0	5.0	8.2
	10/23/2009	9.0	0.0	0.0
AS-07E				
	7/27/2009	7.5	8.5	12.6
	8/24/2009	5.0	10.0	13.1
	9/2/2009	8.0	8.0	12.1
	10/23/2009	10.0	8.5	14.0
AS-08A				
	7/14/2009	7.0	5.5	8.0
	8/24/2009	11.0	0.0	0.0
	9/2/2009	14.0	0.0	0.0
	10/23/2009	8.0	2.0	3.0
AS-08B				
	7/15/2009	8.0	3.0	4.5
	8/24/2009	10.5	3.0	5.0
	9/2/2009	12.0	5.0	8.9
	10/23/2009	9.0	6.0	9.5
AS-08C				
	7/14/2009	4.0	7.5	9.4
	8/24/2009	6.0	0.0	0.0
	9/2/2009	12.0	7.0	12.5
	10/23/2009	6.0	4.0	5.5
AS-08D				
	7/15/2009	4.0	8.5	10.6
	8/24/2009	9.5	5.5	8.9
	9/2/2009	8.0	6.5	9.8
	9/11/2009	11.5	7.0	12.2
	10/23/2009	7.0	6.0	8.7

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-08E				
	7/27/2009	6.0	8.5	11.7
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.0	10.0	12.5
	10/23/2009	4.0	11.0	13.7
AS-09A				
	7/14/2009	7.0	6.0	8.7
	8/24/2009	10.0	6.0	9.9
	9/2/2009	11.0	6.0	10.3
	10/23/2009	7.5	3.9	5.8
AS-09B				
	7/15/2009	6.0	3.0	4.1
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.0	10.0	12.5
	10/23/2009	5.0	7.0	9.2
AS-09C				
	7/14/2009	7.0	7.5	10.9
	8/24/2009	10.0	6.5	10.7
	9/2/2009	10.0	7.0	11.5
	10/23/2009	7.0	4.0	5.8
AS-09D				
	7/15/2009	3.5	10.0	12.1
	8/24/2009	4.0	11.8	14.7
	9/2/2009	NR	NR	NR
	9/11/2009	3.0	9.5	11.2
	10/23/2009	2.0	0.0	0.0
AS-10A				
	7/14/2009	5.0	8.5	11.2
	8/24/2009	7.0	10.0	14.5
	9/2/2009	5.0	9.0	11.8
	10/23/2009	5.0	6.2	8.2
AS-10B				
	7/15/2009	4.5	10.0	12.8
	8/24/2009	5.0	10.0	13.1
	9/2/2009	4.5	9.0	11.5

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-10B				
	10/23/2009	3.0	7.0	8.3
AS-10C				
	7/14/2009	4.0	9.5	11.9
	8/24/2009	10.0	4.0	6.6
	9/2/2009	13.5	6.5	12.2
	10/23/2009	7.5	3.6	5.4
AS-10D				
	7/15/2009	4.0	10.0	12.5
	8/24/2009	8.0	8.0	12.1
	9/2/2009	5.0	8.0	10.5
	9/11/2009	7.0	7.0	10.1
	10/23/2009	4.5	6.0	7.7
AS-11A				
	7/14/2009	7.0	4.5	6.5
	8/24/2009	11.0	0.0	0.0
	9/2/2009	11.0	7.0	12.0
	10/23/2009	8.8	0.0	0.0
AS-11B				
	7/15/2009	8.0	4.5	6.8
	8/24/2009	9.5	7.0	11.3
	9/2/2009	11.0	7.0	12.0
	10/23/2009	7.5	5.2	7.7
AS-11C				
	7/14/2009	5.0	7.5	9.9
	8/24/2009	10.0	5.5	9.1
	9/2/2009	8.0	8.0	12.1
	10/23/2009	8.0	0.0	0.0
AS-11D				
	7/15/2009	8.0	0.0	0.0
	8/24/2009	11.0	0.0	0.0
	9/2/2009	15.5	0.0	0.0
	9/11/2009	15.0	0.0	0.0
	10/23/2009	8.5	0.0	0.0

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-12A				
	7/14/2009	8.0	4.5	6.8
	8/24/2009	11.0	2.5	4.3
	9/2/2009	11.0	5.5	9.4
	10/23/2009	8.0	4.0	6.1
AS-12B				
	7/15/2009	8.0	3.0	4.5
	8/24/2009	10.0	4.0	6.6
	9/2/2009	10.0	6.0	9.9
	10/23/2009	10.0	0.0	0.0
AS-12C				
	7/14/2009	5.5	5.5	7.4
	8/24/2009	8.0	9.0	13.6
	9/2/2009	7.0	9.0	13.0
	10/23/2009	5.5	5.0	6.8
AS-12D				
	7/15/2009	5.5	9.0	12.1
	8/24/2009	9.0	7.0	11.1
	9/2/2009	5.0	7.5	9.9
	9/11/2009	15.0	0.0	0.0
	10/23/2009	6.5	5.7	8.0
AS-13A				
	7/14/2009	4.5	9.5	12.2
	8/24/2009	3.0	10.0	11.8
	9/2/2009	NR	NR	NR
	10/23/2009	2.0	6.0	6.7
AS-13B				
	7/15/2009	2.0	10.0	11.1
	8/24/2009	7.0	5.0	7.2
	9/2/2009	8.5	7.5	11.6
	10/23/2009	5.0	6.5	8.5
AS-13C				
	7/14/2009	8.0	7.5	11.4
	8/24/2009	5.0	4.0	5.3
	9/2/2009	13.0	6.5	12.0

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-13C				
	10/23/2009	10.0	0.0	0.0
AS-13D				
	7/15/2009	4.5	10.0	12.8
	8/24/2009	2.0	10.0	11.1
	9/2/2009	4.0	8.0	10.0
	9/11/2009	5.0	9.0	11.8
	10/23/2009	3.0	7.0	8.3
AS-14A				
	7/14/2009	2.0	10.0	11.1
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.0	9.0	11.2
	10/23/2009	3.0	7.6	9.0
AS-14B				
	7/15/2009	3.5	8.0	9.7
	8/24/2009	6.0	10.3	14.2
	9/2/2009	8.0	8.0	12.1
	10/23/2009	4.5	6.9	8.9
AS-14C				
	7/14/2009	4.0	10.0	12.5
	8/24/2009	3.0	5.5	6.5
	9/2/2009	3.0	6.0	7.1
	10/23/2009	6.0	10.0	13.8
AS-14D				
	7/15/2009	4.0	10.0	12.5
	8/24/2009	3.0	10.0	11.8
	9/2/2009	3.5	8.0	9.7
	9/11/2009	5.0	8.0	10.5
	10/23/2009	5.0	5.0	6.6
AS-15A				
	7/14/2009	4.0	9.0	11.2
	8/24/2009	4.0	10.0	12.5
	9/2/2009	3.0	9.5	11.2
	10/23/2009	3.0	8.0	9.5

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-15B				
	7/15/2009	3.5	9.5	11.5
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.0	10.0	12.5
	10/23/2009	5.0	8.0	10.5
AS-15C				
	7/14/2009	4.0	10.0	12.5
	8/24/2009	4.0	9.5	11.9
	9/2/2009	4.0	9.0	11.2
	10/23/2009	3.0	6.0	7.1
AS-15D				
	7/15/2009	4.0	10.0	12.5
	8/24/2009	9.0	7.0	11.1
	9/2/2009	5.0	8.0	10.5
	9/11/2009	5.0	8.0	10.5
	10/23/2009	4.0	5.6	7.0
AS-16A				
	7/14/2009	4.0	10.0	12.5
	8/24/2009	3.0	10.0	11.8
	9/2/2009	5.0	9.0	11.8
	10/23/2009	4.0	7.0	8.7
AS-16B				
	7/15/2009	2.5	9.0	10.3
	8/24/2009	10.5	3.5	5.9
	9/2/2009	13.0	4.5	8.3
	10/23/2009	10.0	0.0	0.0
AS-16C				
	7/14/2009	4.0	9.0	11.2
	8/24/2009	5.5	9.5	12.8
	9/2/2009	10.0	7.0	11.5
	10/23/2009	6.5	4.0	5.7
AS-16D				
	7/15/2009	6.0	7.0	9.7
	8/24/2009	10.0	3.0	4.9
	9/2/2009	10.0	6.0	9.9

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-16D				
	9/11/2009	11.0	8.0	13.7
	10/23/2009	7.0	3.5	5.0
AS-17A				
	7/14/2009	6.0	7.5	10.4
	8/24/2009	10.0	5.0	8.2
	9/2/2009	12.0	4.0	7.1
	10/23/2009	8.8	0.0	0.0
AS-17B				
	7/15/2009	4.0	7.5	9.4
	8/24/2009	10.5	0.0	0.0
	9/2/2009	13.0	3.0	5.5
	10/23/2009	8.5	0.0	0.0
AS-17C				
	7/14/2009	8.0	5.0	7.6
	8/24/2009	9.5	8.0	12.9
	9/2/2009	8.0	8.0	12.1
	10/23/2009	6.0	5.0	6.9
AS-17D				
	7/15/2009	4.0	8.5	10.6
	8/24/2009	7.0	8.0	11.6
	9/2/2009	13.0	4.5	8.3
	9/11/2009	15.0	4.0	7.9
	10/23/2009	3.0	0.0	0.0
AS-18A				
	7/14/2009	4.0	10.0	12.5
	8/24/2009	3.0	10.0	11.8
	9/2/2009	4.0	9.5	11.9
	10/23/2009	3.5	7.2	8.7
AS-18B				
	7/15/2009	4.0	10.0	12.5
	8/24/2009	3.0	10.0	11.8
	9/2/2009	6.0	9.0	12.4
	10/23/2009	8.0	0.0	0.0

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-18C				
	7/14/2009	3.5	9.0	10.9
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.5	9.0	11.5
	10/23/2009	6.0	4.0	5.5
AS-18D				
	7/15/2009	3.0	10.0	11.8
	8/24/2009	5.0	10.0	13.1
	9/2/2009	4.0	8.0	10.0
	9/11/2009	5.0	10.0	13.1
	10/23/2009	4.0	6.4	8.0
AS-19A				
	7/14/2009	5.0	9.0	11.8
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.0	10.0	12.5
	10/23/2009	3.0	8.0	9.5
AS-19B				
	7/15/2009	2.0	9.5	10.6
	8/24/2009	2.0	10.0	11.1
	9/2/2009	4.5	10.0	12.8
	10/23/2009	6.5	5.7	8.0
AS-19C				
	7/14/2009	5.5	6.5	8.8
	8/24/2009	7.5	10.0	14.8
	9/2/2009	7.0	8.0	11.6
	10/23/2009	8.0	4.0	6.0
AS-19D				
	7/15/2009	5.0	10.0	13.1
	8/24/2009	3.0	10.0	11.8
	9/2/2009	3.0	8.5	10.0
	9/11/2009	3.0	9.0	10.6
	10/23/2009	5.0	5.0	6.6
AS-20A				
	7/14/2009	5.5	9.0	12.1
	8/24/2009	8.0	9.0	13.6

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-20A				
	9/2/2009	12.0	3.5	6.2
	10/23/2009	8.0	0.0	0.0
AS-20B				
	7/15/2009	3.0	9.0	10.6
	8/24/2009	5.0	10.0	13.1
	9/2/2009	8.0	8.0	12.1
	10/23/2009	7.0	6.5	9.4
AS-20C				
	7/14/2009	4.0	10.0	12.5
	8/24/2009	11.0	5.5	9.4
	9/2/2009	15.0	4.0	7.9
	10/23/2009	7.0	5.0	7.2
AS-20D				
	7/15/2009	4.5	10.0	12.8
	8/24/2009	7.0	10.0	14.5
	9/2/2009	6.5	7.0	9.9
	9/11/2009	12.0	7.5	13.4
	10/23/2009	8.0	0.0	0.0
AS-21A				
	7/14/2009	3.0	10.0	11.8
	8/24/2009	7.0	10.0	14.5
	9/2/2009	10.0	7.0	11.5
	10/23/2009	8.0	0.0	0.0
AS-21B				
	7/15/2009	4.0	8.0	10.0
	8/24/2009	9.0	5.5	8.7
	9/2/2009	12.5	3.0	5.4
	10/23/2009	8.0	0.0	0.0
AS-21C				
	7/14/2009	9.0	5.0	7.9
	8/24/2009	10.0	6.5	10.7
	9/2/2009	15.0	4.0	7.9
	10/23/2009	8.5	1.9	3.0

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-21D				
	7/15/2009	6.0	6.5	9.0
	8/24/2009	10.5	0.0	0.0
	9/2/2009	12.0	5.5	9.8
	9/11/2009	12.0	7.0	12.5
	10/23/2009	7.0	6.0	8.7
AS-22A				
	7/14/2009	2.5	10.0	11.5
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.0	9.0	11.2
	10/23/2009	3.0	7.0	8.3
AS-22B				
	7/15/2009	4.5	10.0	12.8
	8/24/2009	10.0	4.0	6.6
	9/2/2009	12.5	3.5	6.4
	10/23/2009	10.0	0.0	0.0
AS-22C				
	7/14/2009	4.5	10.0	12.8
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.0	9.0	11.2
	10/23/2009	3.0	6.0	7.1
AS-22D				
	7/15/2009	3.0	10.0	11.8
	8/24/2009	3.0	10.0	11.8
	9/2/2009	3.0	9.0	10.6
	9/11/2009	2.5	10.0	11.5
	10/23/2009	3.0	6.8	8.0
AS-23A				
	7/14/2009	4.0	8.0	10.0
	8/24/2009	7.0	10.0	14.5
	9/2/2009	6.0	9.0	12.4
	10/23/2009	3.0	5.1	6.0
AS-23B				
	7/15/2009	5.0	10.0	13.1
	8/24/2009	4.0	10.0	12.5

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-23B				
	9/2/2009	4.5	9.0	11.5
	10/23/2009	5.0	6.5	8.5
AS-23C				
	7/14/2009	3.5	10.0	12.1
	8/24/2009	4.0	10.0	12.5
	9/2/2009	4.5	9.0	11.5
	10/23/2009	6.0	6.0	8.3
AS-23D				
	7/15/2009	4.5	9.0	11.5
	8/24/2009	8.0	10.0	15.2
	9/2/2009	7.0	5.5	8.0
	9/11/2009	14.0	3.0	5.7
	10/23/2009	8.5	0.0	0.0
AS-24A				
	7/14/2009	6.0	4.5	6.2
	8/24/2009	11.0	0.0	0.0
	9/2/2009	11.5	4.5	7.9
	10/23/2009	5.0	0.0	0.0
AS-24B				
	7/15/2009	3.0	9.0	10.6
	8/24/2009	8.0	10.0	15.2
	9/2/2009	8.0	8.0	12.1
	10/23/2009	6.0	5.4	7.5
AS-24C				
	7/14/2009	4.5	10.0	12.8
	8/24/2009	6.0	10.0	13.8
	9/2/2009	8.0	8.0	12.1
	10/23/2009	9.0	6.0	9.5
AS-24D				
	7/15/2009	6.5	6.0	8.5
	8/24/2009	9.5	6.0	9.7
	9/2/2009	8.0	7.0	10.6
	9/11/2009	11.5	7.5	13.1
	10/23/2009	5.0	6.5	8.5

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-25A				
	7/14/2009	5.0	10.0	13.1
	8/24/2009	6.5	10.0	14.1
	9/2/2009	10.0	7.0	11.5
	10/23/2009	8.5	0.0	0.0
AS-25B				
	7/15/2009	4.5	10.0	12.8
	8/24/2009	10.0	5.0	8.2
	9/2/2009	13.0	4.0	7.4
	10/23/2009	7.0	6.0	8.7
AS-25C				
	7/14/2009	9.0	3.0	4.7
	8/24/2009	13.0	0.0	0.0
	9/2/2009	15.0	3.0	5.9
	10/23/2009	8.0	2.0	3.0
AS-25D				
	7/15/2009	4.0	8.5	10.6
	8/24/2009	5.0	10.0	13.1
	9/2/2009	6.0	10.0	13.8
	9/11/2009	3.0	10.0	11.8
	10/23/2009	5.0	0.0	0.0
AS-26A				
	7/14/2009	4.0	10.0	12.5
	8/24/2009	6.0	10.0	13.8
	9/2/2009	6.0	9.0	12.4
	10/23/2009	3.5	7.4	9.0
AS-26B				
	7/15/2009	5.0	8.5	11.2
	8/24/2009	11.0	4.0	6.9
	9/2/2009	11.0	7.5	12.9
	10/23/2009	10.0	0.0	0.0
AS-26C				
	7/14/2009	3.5	10.0	12.1
	8/24/2009	6.0	10.0	13.8
	9/2/2009	14.0	6.0	11.5

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-26C				
	10/23/2009	9.0	0.0	0.0
AS-26D				
	7/15/2009	5.0	9.0	11.8
	8/24/2009	7.0	9.5	13.8
	9/2/2009	5.5	7.5	10.1
	9/11/2009	5.0	10.0	13.1
	10/23/2009	4.0	7.0	8.7
AS-27A				
	7/14/2009	6.0	8.5	11.7
	8/24/2009	10.0	5.0	8.2
	9/2/2009	8.0	8.0	12.1
	10/23/2009	7.0	5.0	7.2
AS-27B				
	7/15/2009	4.0	10.0	12.5
	8/24/2009	2.5	10.0	11.5
	9/2/2009	4.0	10.0	12.5
	10/23/2009	3.5	6.0	7.3
AS-27C				
	7/14/2009	4.5	10.0	12.8
	8/24/2009	6.5	7.0	9.9
	9/2/2009	15.0	3.5	6.9
	10/23/2009	8.0	0.0	0.0
AS-27D				
	7/15/2009	5.5	8.0	10.8
	8/24/2009	8.5	3.0	4.6
	9/2/2009	10.5	6.0	10.1
	9/11/2009	12.0	7.0	12.5
	10/23/2009	6.0	5.8	8.0
AS-28A				
	7/14/2009	3.0	10.0	11.8
	8/24/2009	6.0	9.0	12.4
	9/2/2009	10.0	6.0	9.9
	10/23/2009	8.0	0.0	0.0

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-28B				
	7/15/2009	1.0	10.0	10.5
	8/24/2009	2.0	10.0	11.1
	9/2/2009	3.0	10.0	11.8
	10/23/2009	2.0	10.0	11.1
AS-28C				
	7/14/2009	7.5	6.0	8.9
	8/24/2009	10.0	7.0	11.5
	9/2/2009	15.0	3.0	5.9
	10/23/2009	10.0	0.0	0.0
AS-28D				
	7/15/2009	4.0	8.0	10.0
	8/24/2009	9.0	7.0	11.1
	9/2/2009	8.0	7.0	10.6
	9/11/2009	10.0	7.0	11.5
	10/23/2009	3.0	6.0	7.1
AS-29A				
	7/14/2009	7.0	4.0	5.8
	8/24/2009	10.0	5.0	8.2
	9/2/2009	8.5	6.0	9.3
	10/23/2009	7.0	5.5	8.0
AS-29B				
	7/15/2009	2.5	8.0	9.2
	8/24/2009	6.0	10.0	13.8
	9/2/2009	8.5	7.0	10.8
	10/23/2009	8.0	0.0	0.0
AS-29C				
	7/14/2009	7.0	6.0	8.7
	8/24/2009	8.5	8.5	13.2
	9/2/2009	10.0	7.0	11.5
	10/23/2009	8.0	0.0	0.0
AS-29D				
	7/15/2009	5.0	8.0	10.5
	8/24/2009	7.0	9.8	14.1
	9/2/2009	7.0	7.0	10.1

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-29D				
	9/11/2009	12.5	5.5	10.0
	10/23/2009	9.0	0.0	0.0
AS-30A				
	7/14/2009	4.5	10.0	12.8
	8/24/2009	9.0	7.0	11.1
	9/2/2009	6.0	9.0	12.4
	10/23/2009	6.0	6.0	8.3
AS-30B				
	7/15/2009	7.5	6.0	8.9
	8/24/2009	NR	NR	NR
	9/2/2009	13.0	3.0	5.5
	10/23/2009	8.0	0.0	0.0
AS-30C				
	7/14/2009	4.0	10.0	12.5
	8/24/2009	8.0	8.0	12.1
	9/2/2009	8.0	8.0	12.1
	10/23/2009	6.0	6.0	8.3
AS-30D				
	7/15/2009	5.0	8.0	10.5
	8/24/2009	6.0	10.0	13.8
	9/2/2009	8.0	7.0	10.6
	9/11/2009	14.0	3.3	6.2
	10/23/2009	6.0	0.0	0.0
AS-31A				
	7/14/2009	2.0	10.0	11.1
	8/24/2009	5.0	10.0	13.1
	9/2/2009	8.0	7.0	10.6
	10/23/2009	8.0	0.0	0.0
AS-31B				
	7/15/2009	3.0	10.0	11.8
	8/24/2009	6.0	10.0	13.8
	9/2/2009	5.0	8.0	10.5
	10/23/2009	7.0	4.0	5.8

Table 6
Air Sparge Well Air Flow Data

Dover Municipal Landfill Superfund Site, Dover, NH

AS Well ID		Pressure (psi)	Flow (acfm)	Flow (scfm)
AS-31C				
	7/14/2009	5.5	9.5	12.8
	8/24/2009	6.0	8.0	11.1
	9/2/2009	14.0	4.0	7.7
	10/23/2009	10.0	0.0	0.0
AS-31D				
	7/15/2009	3.5	9.5	11.5
	8/24/2009	5.0	10.0	13.1
	9/2/2009	5.0	8.0	10.5
	9/11/2009	13.0	6.0	11.1
	10/23/2009	8.0	0.0	0.0

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 7
Ambient Air Exposure Monitoring VOC Concentrations

Dover Municipal Landfill Superfund Site, Dover, NH

Sample ID	Sample Date	Date Notes	PCE	TCE	1,1,1-TCA	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl chloride	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Benzene	Ethyl-benzene	Toluene	m&p-Xylenes	o-Xylene	Methylene chloride
			(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	A	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U	12 U
	4/1/2009	A	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	7/13/2009	B	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
	10/22/2009	C	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1	1 U	1 U	1 U
	11/12/2009	D	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

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.
[A] = Sample was collected prior to AS and SVE system start up.
[B] = Sample was collected one week after SVE start up.
[C] = Sample was collected 3 months after official AS and SVE operations began (August 8, 2009); In October 2009, the sample was collected during heavy traffic conditions.
[D] = Sample was collected to verify concentration data detected in the October 2009 sample.

Table 8
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
	1/04/10 S	2 U	2 U	2 U	46	1 U	19	2 U	64	4	2 U	3	5	11	3	5	5 U
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
	1/04/10 S	2 U	2 U	3	45	1 U	320	2 U	27	5	2 U	2 U	3	110	8	4	5 U
AS-14A (Duplicate)																	
	3/31/09 S	400 U	400 U	3,000	9,200	200 U	39,000	400 U	820	420	400 U	400 U	1,500	100,000	4,500	1,200	51,000
AS-15A																	
	9/03/08 G	1,700	660	1,900	4,200	100 U	35,000	200 U	1,200	200 U	200 U	200 U	300	17,000	880	290	38,000
	4/01/09 G	200 U	200 U	2,600 B	7,200	100 U	40,000	200 U	1,300	200 U	200 U	200 U	310	28,000	910	300	61,000 B
	12/31/09 S	40 U	40 U	40 U	170	20 U	6,500	40 U	3,800	40 U	40 U	40 U	40 U	850	150	69	100 U
AS-15D																	
	9/03/08 G	23,000	2,300	2,100	4,200	110	180,000	200 U	2,000	200 U	200 U	200 U	800	2,000	2,300	720	27,000
	4/01/09 G	130,000	6,900	9,600	7,000	500 U	220,000	1,000 U	3,200	1,000 U	1,000 U	1,000 U	2,700	47,000	8,100	2,300	41,000
	12/31/09 S	1,000 U	1,400	1,000 U	1,900	500 U	120,000	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	11,000	1,000 U	1,000 U	3,800
AS-16A																	
	3/31/09 S	54,000	5,500	2,000 U	7,600	1,000 U	230,000	2,000 U	3,100	2,000 U	2,000 U	2,000 U	2,800	64,000	9,200	2,700	34,000
	12/31/09 S	1,000 U	1,000 U	1,000 U	2,700	500 U	110,000	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	9,500	1,000 U	1,000 U	4,300
AS-16C																	
	9/03/08 G	28,000	3,500	4,600	3,900	120	160,000	200 U	2,500	200 U	200 U	200 U	880	21,000	2,600	810	14,000
	4/01/09 G	110,000	6,400	8,900	6,300	500 U	210,000	1,000 U	3,500	1,000 U	1,000 U	1,000 U	2,800	48,000	9,000	2,500	29,000
	12/31/09 S	560	3,500	650	380	50 U	18,000	100 U	340	100 U	100 U	100 U	100 U	1,400	350	200	250 U
AS-24A																	
	9/03/08 S	570	370	7,400	6,500	160	55,000	200 U	980	390	200 U	200 U	860	44,000	2,200	760	52,000
AS-24C																	
	9/02/08 G	2,500	250	450	2,300	150	160,000	240	7,400	890	260	100 U	2,700	20,000	7,800	2,500	1,800
AS-25A																	
	4/01/09 G	200 U	200 U	200 U	350	100 U	8,700	200 U	830	200 U	200 U	200 U	200 U	2,100	210	200 U	500 U
	12/31/09 S	100 U	100 U	100 U	920	50 U	15,000	100 U	280	100 U	100 U	100 U	100 U	600	100 U	100 U	1,900

Table 8
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-25B																	
	1/04/10 S	110	100 U	100 U	100 U	50 U	1,500	100 U	100 U	100 U	100 U	100 U	100 U	140	100 U	100 U	250 U
AS-27B																	
	9/03/08 S	820	120	100 U	1,300	55	88,000	100 U	6,900	370	120	100 U	950	11,000	2,700	860	250 U
	3/31/09 S	400 U	400 U	400 U	1,500	200 U	83,000	400 U	4,500	400 U	400 U	400 U	870	14,000	2,600	850	1,000 U
	12/31/09 S	390	290	40 U	320	20 U	5,000	40 U	2,800	73	40 U	40 U	450	3,600	1,700	1,200	100 U
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
AS-2E																	
	1/04/10 S	4	3	2 U	2 U	1 U	18	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5 U
AS-32A																	
	12/31/09 S	13	14	14	75	80	48	44	24	2 U	2 U	49	68	17	60	31	96
AS-4C																	
	1/04/10 S	300	2,600	1,400	290	50 U	14,000	100 U	100 U	100 U	100 U	100 U	100 U	2,000	100 U	100 U	650
AS-6C																	
	1/04/10 S	17	7	2 U	12	1 U	79	2 U	43	4	2 U	2 U	2 U	10	2	2	5 U
AS-6C (Duplicate)																	
	1/04/10 S	10	5	2 U	11	1 U	79	2 U	38	2 U	2 U	2 U	2 U	12	2 U	2 U	5 U
AS-7E																	
	12/31/09 S	20 U	20 U	20 U	100	10 U	110	20 U	1,800	150	43	20 U	290	2,800	940	360	50 U
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
GW-1																	
	1/04/10 S	40 U	100	810	1,800	22	14,000	40	5,000	66	40 U	40 U	140	2,300	560	230	100 U
GW-2																	
	1/04/10 S	100 U	100 U	100 U	130	50 U	100 U	100 U	150	100 U	100 U	100 U	100 U	1,600	180	100	250 U
GW-3																	
	1/04/10 S	17,000	15,000	1,600	220	100 U	34,000	200 U	420	240	200 U	200 U	240	2,100	950	420	500 U
GW-4																	
	1/04/10 S	120	100 U	100 U	320	50 U	10,000	100 U	1,600	100 U	100 U	100 U	450	3,400	1,500	520	250 U
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
	12/31/09	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 8
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)																	
Trip Blank																	

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 9

Upper Sands Volatile Organic Compound Treatment Area Treatment Summary

Dover Municipal Landfill Superfund Site, Dover, NH

Well 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		Benzene		Ethylbenzene		Toluene		m&p-Xylenes		o-Xylene		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		Methylene Chloride	
		Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change	Result (µg/l)	% Change
GW-1	4/1/09	20	nc	20	-400	20	-3,950	1,100	-64	20	-10	72,000	81	190	62	7,300	32	52	23	1,300	89	8,200	72	3,500	84	1,000	77	140	53	43	7	50	nc
	1/4/10	40		100		810		1,800		22		14,000		72		5,000		40		140		2,300		560		230		66		40		100	
GW-2	3/31/09	100	nc	100	nc	200	50	3,600	96	50	nc	19,000	99	100	nc	2,200	93	100	nc	950	89	23,000	93	2,500	93	740	86	550	82	130	23	2,100	88
	1/4/10	100		100		100		130		50		100		100		150		100		100		1,600		180		100		100		100		250	
GW-3	3/31/09	33,000	48	8,000	-88	20,000	92	6,900	97	500	nc	150,000	77	1,000	nc	2,900	86	1,000	nc	2,300	90	44,000	95	7,700	88	2,300	82	1,000	76	1,000	nc	9,600	95
	1/4/10	17,000		15,000		1,600		220		100		34,000		200		420		200		240		2,100		950		420		240		200		500	
GW-4	3/31/09	36	-233	20	nc	75	-33	600	47	10	nc	2,600	-285	21	-376	1,400	-14	20	nc	410	-10	5,500	38	1,500	0	540	4	270	63	96	-4	180	-39
	1/4/10	120		100		100		320		50		10,000		100		1,600		100		450		3,400		1,500		520		100		100		250	
AS-4C	4/1/09	120,000	100	15,000	83	32,000	96	2,000	86	500	nc	83,000	83	1,000	nc	2,600	96	1,000	nc	1,800	94	14,000	86	5,200	98	1,300	92	1,000	nc	1,000	nc	14,000	95
	1/4/10	300		2,600		1,400		290		50		14,000		100		100		100		100		2,000		100		100		100		100		650	
AS-6C	4/1/09	40	58	40	83	88	98	470	97	20	nc	8,200	99	66	97	5,600	99	40	nc	400	100	9,700	100	1,300	100	400	100	550	99	210	99	100	nc
	1/4/10	17		7		2		12		1		79		2		43		2		2		10		2		2		4		2		5	
AS-13B	4/1/09	40	nc	40	nc	40	nc	97	53	20	nc	40	53	40	nc	40	-60	40	93	300	98	7,800	100	770	100	280	98	220	98	61	97	100	nc
	1/4/10	2		2		2		46		1		19		2		64		3		5		11		3		5		4		2		5	
AS-14A	3/31/09	400	nc	400	nc	3,100	100	9,200	100	200	nc	39,000	99	400	nc	850	97	400	nc	1,600	100	100,000	100	4,600	100	1,300	100	430	99	400	nc	51,000	100
	1/4/10	2		2		3		45		1		320		2		27		2		3		110		8		4		5		2		5	
AS-15A	4/1/09	200	nc	200	nc	2,600	98	7,200	98	100	nc	40,000	84	200	nc	1,300	-192	200	nc	310	87	28,000	97	910	84	300	77	200	80	200	nc	61,000	100
	12/31/09	40		40		40		170		20		6,500		40		3,800		40		40		850		150		69		40		40		100	
AS-15D	4/1/09	130,000	99	6,900	80	9,600	90	7,000	73	500	-660	220,000	45	1,000	nc	3,200	69	1,000	nc	2,700	63	47,000	77	8,100	88	2,300	57	1,000	nc	1,000	nc	41,000	91
	12/31/09	1,000		1,400		1,000		1,900		3,800		120,000		1,000		1,000		1,000		1,000		11,000		1,000		1,000		1,000		1,000		3,800	
AS-16A	4/1/09	54,000	98	5,500	82	2,000	nc	7,600	64	1,000	nc	230,000	52	2,000	nc	3,100	68	2,000	nc	2,800	64	64,000	85	9,200	89	2,700	63	2,000	nc	2,000	nc	34,000	87
	12/31/09	1,000		1,000		1,000		2,700		500		110,000		1,000		1,000		1,000		1,000		9,500		1,000		1,000		1,000		1,000		4,300	
AS-16C	4/1/09	110,000	99	6,400	45	8,900	93	6,300	94	500	nc	210,000	91	1,000	nc	3,500	90	1,000	nc	2,800	96	48,000	97	9,000	96	2,500	92	1,000	nc	1,000	nc	29,000	99
	12/31/09	560		3,500		650		380		50		18,000		100		340		100		100		1,400		350		200		100		100		250	
AS-25A	4/1/09	200	nc	200	nc	200	nc	350	-163	100	nc	8,700	-72	200	nc	830	66	200	nc	200	nc	2,100	71	210	52	200	nc	200	nc	200	nc	500	-280
	12/31/09	100		100		100		920		50		15,000		100		280		100		100		600		100		100		100		100		1,900	
AS-27B	3/31/09	400	3	400	28	400	nc	1,500	79	200	nc	83,000	94	400	nc	4,500	38	400	nc	870	48	14,000	74	2,600	35	850	-41	400	82	400	nc	1,000	nc
	12/1/09	390		290		40		320		20		5,000		40		2,800		40		450		3,600		1,700		1,200		73		40		100	
AS-2E	4/1/09	100	96	100	97	100	nc	100	nc	50	nc	100	82	100	nc	100	nc	100	nc	100	nc	100	nc	100	nc	100	nc	100	nc	100	nc	250	nc
	1/4/10	4		3		2		2		1		18		2		2		2		2		2		2		2		2		2		5	
AS-7E	3/31/09	21	5	10	nc	10	nc	290	66	5	nc	36	-206	10	nc	930	-94	35	43	440	34	3,000	7	1,300	28	430	16	200	25	60	28	25	nc
	12/31/09	20		20		20		100		10		110		20		1,800		20		290		2,800		940		360		150		43		50	

Notes:

2,600 - The analyte was detected in the method blank. No additional sample remained for re-analysis

500 - indicates result is less than the laboratory reporting limit (500U)

nc - all sampling results were below laboratory reporting limits

- decreasing concentrations

- increasing concentrations

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	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	0.061	15	7.4	0.084	24	0.5	0.005	2.1	210	2.336	687
Stack-081409	SVE	8/14/2009	816	750	68	1.295	722	8.9	0.134	79	13.0	0.199	78	7.6	0.086	51	0.0	0.000	1.5	130	1.446	1,139
Stack-082109	AS+SVE	8/21/2009	993	725	140	2.578	457	12.0	0.175	31	26.0	0.386	68	13.0	0.143	25	0.0	0.000	0.0	200	2.151	382
Stack-092509	AS+SVE	9/25/2009	1,675	730	140	2.595	1,770	11.0	0.162	110	14.0	0.209	143	6.5	0.072	49	0.0	0.000	0.0	110	1.191	812
SVESTACK102209	AS+SVE	10/22/2009	2,059	740	120	2.255	864	8.4	0.125	48	8.2	0.124	48	4.4	0.049	19	0.0	0.000	0.0	70	0.768	294
SVE STACK 112409	AS+SVE	11/24/2009	2,825	750	140	2.667	2,044	9.9	0.149	115	9.0	0.138	106	3.9	0.044	34	0.2	0.002	1.8	60	0.667	512
Total Mass Removed:							**6,050**			**409**			**458**			**203**			**5.4**			**3,825**

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	0.8	0.008	NC	71.0	0.511	NC	1.5	0.021	NC	0.7	0.010	NC	0	0.000	NC	9.4	0.115	NC
Stack-070609-A	SVE - Startup	7/6/2009	214	750	0.5	0.005	1.4	13.0	0.093	60	3.7	0.051	7	1.4	0.019	3	0	0.000	0	11.0	0.134	25
Stack-081409	SVE	8/14/2009	816	750	0.4	0.004	3.0	6.0	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+SVE	8/21/2009	993	725	0.0	0.000	0.0	6.6	0.046	8	6.3	0.084	15	3.0	0.040	7	0	0.000	0	17.0	0.200	36
Stack-092509	AS+SVE	9/25/2009	1,675	730	0.0	0.000	0.0	3.9	0.027	19	4.9	0.066	45	2.6	0.035	24	0	0.000	0	11.0	0.131	89
SVESTACK102209	AS+SVE	10/22/2009	2,059	740	0.0	0.000	0.0	2.4	0.017	7	4.6	0.063	24	2.5	0.034	13	0	0.000	0	9.0	0.108	41
SVE STACK 112409	AS+SVE	11/24/2009	2,825	750	0.2	0.003	2.0	2.2	0.016	12	7.2	0.100	76	3.9	0.054	41	0	0.000	0	10.0	0.122	93
Total Mass Removed:							**6.3**			**147**			**192**			**99**			**0**			**356**

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	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	148	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	124	3,409
Stack-082109	AS+SVE	8/21/2009	993	725	190	1.945	345	53	0.625	111	16.0	0.189	33	65	0.613	109	748	220	1,627
Stack-092509	AS+SVE	9/25/2009	1,675	730	140	1.443	984	40	0.475	324	12.0	0.142	97	30	0.285	194	526	164	4,660
SVESTACK102209	AS+SVE	10/22/2009	2,059	740	100	1.045	400	35	0.421	161	12.0	0.144	55	19	0.183	70	396	128	2,045
SVE STACK 112409	AS+SVE	11/24/2009	2,825	750	78	0.826	633	41	0.500	383	16.0	0.195	150	18	0.175	135	400	136	4,338
Total Mass Removed:							**3,339**			**1,253**			**410**			**851**			**17,603**

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

Table 11
Perimeter Treatment Curtain 24-Hour Emission Concentrations
Dover Muncipal Landfill Superfund Site, Dover, NH

SAMPLE ID	Run Time	Total PTC Flow (scfm)	1,1,1-Trichloroethane				1,1-Dichloroethane				1,1-Dichloroethene				1,2,4-Trimethylbenzene				1,3,5-Trimethylbenzene				Benzene				cis-1,2-Dichloroethene			
	Hours	SCFM	ug/L	Total $Mass_w$ (lbs)	Total $Mass_a$ (lbs)	ug/m^3	ug/L	Total $Mass_w$ (lbs)	Total $Mass_a$ (lbs)	ug/m^3	ug/L	Total $Mass_w$ (lbs)	Total $Mass_a$ (lbs)	ug/m^3	ug/L	Total $Mass_w$ (lbs)	Total $Mass_a$ (lbs)	ug/m^3	ug/L	Total $Mass_w$ (lbs)	Total $Mass_a$ (lbs)	ug/m^3	ug/L	Total $Mass_w$ (lbs)	Total $Mass_a$ (lbs)	ug/m^3	ug/L	Total $Mass_w$ (lbs)	Total $Mass_a$ (lbs)	ug/m^3
AS-07E (2008)	2	80	41	0.011	0.011	18,262	580	0.154	0.154	258,343		0.000	0.000	0	180	0.048	0.048	80,175	53	0.014	0.014	23,607	25	0.007	0.007	11,135	15,000	3.993	3.993	6,681,281
AS-07E (2009)	2	80		0.000	0.000	0	290	0.077	0.077	129,171		0.000	0.000	0	200	0.053	0.053	89,084	60	0.016	0.016	26,725	35	0.009	0.009	15,590	36	0.010	0.010	16,035
24-Hour Emission Concentration (µg/m3)*						4,566				**32,293**	.			**-**				**22,271**				**6,681**				**3,897**				**4,009**

SAMPLE ID	Run Time	Total PTC Flow (scfm)	Ethylbenzene				m&p-Xylenes				Methylene Chloride				o-Xylene				Tetrachloroethene				Toluene				trans-1,2-Dichloroethene			
	Hours	SCFM	ug/L	Total $Mass_w$ (lbs)	Total $Mass_a$ (lbs)	ug/m^3	ug/L	Total $Mass_w$ (lbs)	Total $Mass_a$ (lbs)	ug/m^3	ug/L	Total $Mass_w$ (lbs)	Total $Mass_a$ (lbs)	ug/m^3	ug/L	Total $Mass_w$ (lbs)	Total $Mass_a$ (lbs)	ug/m^3	ug/L	Total $Mass_w$ (lbs)	Total $Mass_a$ (lbs)	ug/m^3	ug/L	Total $Mass_w$ (lbs)	Total $Mass_a$ (lbs)	ug/m^3	ug/L	Total $Mass_w$ (lbs)	Total $Mass_a$ (lbs)	ug/m^3
AS-07E (2008)	2	80	400	0.106	0.106	178,167	1,100	0.293	0.293	489,961		0.000	0.000	0	370	0.099	0.099	164,805		0.000	0.000	0	4,000	1.065	1.065	1,781,675	23	0.006	0.006	10,245
AS-07E (2009)	2	80	440	0.117	0.117	195,984	1,300	0.346	0.346	579,044		0.000	0.000	0	430	0.114	0.114	191,530	21	0.006	0.006	9,354	3,000	0.799	0.799	1,336,256		0.000	0.000	0
24-Hour Emission Concentration (µg/m3)*						**48,996**				**144,761**				**-**				**47,883**				**2,338**				**334,064**				**2,561**

SAMPLE ID	Run Time	Total PTC Flow (scfm)	Trichloroethene				Vinyl Chloride				MIBK				MEK				Chlorethane				Isopropybenzene				Freon-12			
	Hours	SCFM	ug/L	Total $Mass_w$ (lbs)	Total $Mass_a$ (lbs)	ug/m^3	ug/L	Total $Mass_w$ (lbs)	Total $Mass_a$ (lbs)	ug/m^3	ug/L	Total $Mass_w$ (lbs)	Total $Mass_a$ (lbs)	ug/m^3	ug/L	Total $Mass_w$ (lbs)	Total $Mass_a$ (lbs)	ug/m^3	ug/L	Total $Mass_w$ (lbs)	Total $Mass_a$ (lbs)	ug/m^3	ug/L	Total $Mass_w$ (lbs)	Total $Mass_a$ (lbs)	ug/m^3	ug/L	Total $Mass_w$ (lbs)	Total $Mass_a$ (lbs)	ug/m^3
AS-07E (2008)	2	80		0.000	0.000	0	7,100	1.890	1.890	3,162,473	3,700	0.985	0.985	1,648,049	9,300	2.476	2.476	4,142,394	87	0.023	0.023	38,751		0.000	0.000	0	28	0.007	0.007	12,472
AS-07E (2009)	2	80		0.000	0.000	0	930	0.248	0.248	414,239	1,000	0.266	0.266	445,419	1,700	0.453	0.453	757,212	26	0.007	0.007	11,581	21	0.006	0.006	9,354	47	0.013	0.013	20,935
24-Hour Emission Concentration (µg/m3)*						**-**				**103,560**				**111,355**				**189,303**				**2,895**				**2,338**				**5,234**

Notes:

SCFM = standard cubic feet per minute

µg/L = parts per million by volume

lb/hr = pounds per hour

lbs = pounds

SVE = soil vapor extraction

AS = air sparging

* = concentration of VOCs emitted at the Perimeter Treatment Curtain and not captured by SVE system

= compound was not detected; no concentration was used in the calculation

ASSUMPTIONS:

1. Assume 100% partitioning from the dissolved phase into air.
2. Assume 0% partitioning onto organic carbon in the vadose zone.
3. Assume no groundwater flow or changes in concentration between 2-hour pulses.
4. m&p-xylenes and o-xylene analytical results are based on total xylenes reported.

Table 12
Air Sparge and Soil Vapor Extraction System Optimization
Dover Municipal Landfill Superfund Site, Dover, NH

Fall 2009 Values						Spring 2010 Proposed Values			
SVE			AS			SVE		AS	
ID	PID (ppmv)	Measured Flow (scfm)	ID Within SVE ROI	Measured Flow (scfm)**	TVOC (ppb)	ID	SVE Proposed Flow (scfm)***	ID Within SVE ROI	AS Proposed Flow (scfm)***
SVE-01	20.0	30.0	--	--	-	SVE-01	10.0	--	--
SVE-02	4.2	27.4	AS-02C	6.1	-	SVE-02	10.0	AS-02C	3.0
			AS-05C	13.1	-			AS-05C	3.0
			AS-05D	13.1	-			AS-05D	3.0
SVE-03	439.0	27.4	AS-02D	0.0	-	SVE-03	10.0	AS-02D	2.5
			AS-03A	11.1	-			AS-03A	2.5
			AS-06B	12.1	-			AS-06B	2.5
			AS-06C	12.1	176			AS-06C	2.5
SVE-04	70.4	33.6	AS-01A	8.0	-	SVE-04	10.0	AS-01A	2.0
			AS-01B	5.7	-			AS-01B	2.0
			AS-01C	5.9	-			AS-01C	2.0
			AS-03B	8.3	-			AS-03B	2.0
			AS-03C	15.2	-			AS-03C	2.0
			AS-03D	7.9	-			AS-03D	2.0
			AS-06D	11.7	-			AS-06D	2.0
			AS-07A	12.4	-			AS-07A	2.0
SVE-05	61.0	24.3	AS-01D	9.1	-	SVE-05	10.0	AS-01D	2.0
			AS-02A	10.7	-			AS-02A	2.0
			AS-04A	12.7	-			AS-04A	2.0
			AS-04B	11.1	-			AS-04B	2.0
			AS-04C	9.9	21,240			AS-04C	20.0
			AS-07C	0.0	-			AS-07C	2.0
			AS-07D	8.2	-			AS-07D	2.0
SVE-06	27.2	34.6	AS-02B	12.2	-	SVE-06	10.0	AS-02B	2.0
			AS-04D	15.3	-			AS-04D	2.0
			AS-05A	0.0	-			AS-05A	2.0
			AS-08B	8.9	-			AS-08B	2.0
			AS-08C	12.5	-			AS-08C	2.0
SVE-07	254.0	31.3	AS-05B	11.8	-	SVE-07	10.0	AS-05B	2.0
			AS-09D	11.2	-			AS-09D	2.0
			AS-09A	10.3	-			AS-09A	2.0
			AS-13A	--	-			AS-13A	2.0
			AS-13B	11.6	160			AS-13B	2.0
			AS-13C	12.0	-			AS-13C	2.0
			AS-17D	7.9	-			AS-17D	2.0
			AS-17A	7.1	-			AS-17A	2.0
SVE-08	351.0	31.0	AS-06A	12.1	-	SVE-08	10.0	AS-06A	2.0
			AS-09B	12.5	-			AS-09B	2.0
			AS-09C	11.5	-			AS-09C	2.0
			AS-10D	10.1	-			AS-10D	2.0
			AS-13D	11.8	-			AS-13D	2.0
			AS-14A	11.2	525			AS-14A	2.0
			AS-14B	12.1	-			AS-14B	2.0
			AS-17C	12.1	-			AS-17C	2.0
SVE-09	1,093.0	27.2	AS-10A	11.8	-	SVE-09	64.5	AS-10A	20.0
			AS-10B	11.5	-			AS-10B	20.0
			AS-10C	12.2	-			AS-10C	20.0
			AS-14C	7.1	-			AS-14C	20.0
			AS-14D	10.5	-			AS-14D	20.0
			AS-18B	12.4	-			AS-18B	20.0
SVE-10	3,334.0	34.6	AS-07B	5.5	-	SVE-10	71.9	AS-07B	20.0
			AS-11D	0.0	-			AS-11D	20.0
			AS-11A	12.0	-			AS-11A	20.0
			AS-15A	11.2	11,539			AS-15A	20.0
			AS-15B	12.5	-			AS-15B	20.0
			AS-15C	11.2	-			AS-15C	20.0
			AS-19A	12.5	-			AS-19A	20.0
SVE-11	593.0	36.8	AS-08A	0.0	-	SVE-11	36.8	AS-08A	0.0
			AS-11B	12.0	-			AS-11B	12.0
			AS-11C	12.1	-			AS-11C	12.1
			AS-12D	0.0	-			AS-12D	0.0
			AS-15D	10.5	138,100			AS-15D	20.0
			AS-16A	11.8	126,500			AS-16A	20.0
			AS-16B	8.3	-			AS-16B	8.3
			AS-19C	11.6	-			AS-19C	11.6
SVE-12	636.0	27.2	AS-12A	9.4	-	SVE-12	27.2	AS-12A	5.0
			AS-12B	9.9	-			AS-12B	5.0
			AS-12C	13.0	-			AS-12C	8.0
			AS-16C	11.5	25,380			AS-16C	20.0
			AS-16D	13.7	-			AS-16D	8.0
			AS-20B	12.1	-			AS-20B	8.0
SVE-13	966.0	29.7	AS-17B	5.5	-	SVE-13	29.7	AS-17B	5.5
			AS-21B	5.4	-			AS-21B	5.4
			AS-21C	7.9	-			AS-21C	7.9
			AS-21D	12.5	-			AS-21D	12.5
			AS-24A	7.9	-			AS-24A	7.9
			AS-25B	7.4	1,750			AS-25B	7.4

Table 12
Air Sparge and Soil Vapor Extraction System Optimization
Dover Municipal Landfill Superfund Site, Dover, NH

ID	PID (ppmv)	Measured Flow (scfm)	ID Within SVE ROI	Measured Flow (scfm)**	TVOC (ppb)	ID	SVE Proposed Flow (scfm)***	ID Within SVE ROI	AS Proposed Flow (scfm)***
SVE-14	1,822.0	27.4	AS-18A	11.9	-	SVE-14	64.7	AS-18A	20.0
			AS-18D	13.1	-			AS-18D	20.0
			AS-21A	11.5	-			AS-21A	20.0
			AS-22B	6.4	-			AS-22B	20.0
			AS-22C	11.2	-			AS-22C	20.0
			AS-25C	5.9	-			AS-25C	20.0
			AS-25D	11.8	-			AS-25D	20.0
SVE-15	4,709.0	29.7	AS-18C	11.5	-	SVE-15	67.1	AS-18C	20.0
			AS-19D	10.6	-			AS-19D	20.0
			AS-22D	11.5	-			AS-22D	20.0
			AS-22A	11.2	-			AS-22A	20.0
			AS-23B	11.5	-			AS-23B	20.0
			AS-25A	11.5	18,700			AS-25A	20.0
			AS-26B	12.9	-			AS-26B	20.0
			AS-26C	11.5	-			AS-26C	20.0
SVE-16	3,031.0	27.2	AS-19B	12.8	-	SVE-16	64.5	AS-19B	20.0
			AS-23C	11.5	-			AS-23C	20.0
			AS-23D	5.7	-			AS-23D	20.0
			AS-26D	13.1	-			AS-26D	20.0
			AS-26A	12.4	-			AS-26A	20.0
			AS-27B	12.5	15,823			AS-27B	20.0
SVE-17	1,917.0	27.3	AS-20A	6.2	-	SVE-17	64.7	AS-20A	20.0
			AS-20D	13.4	-			AS-20D	20.0
			AS-23A	12.4	-			AS-23A	20.0
			AS-24B	12.1	-			AS-24B	20.0
			AS-24C	12.1	-			AS-24C	20.0
			AS-24D	13.1	-			AS-24D	20.0
			AS-27C	6.9	-			AS-27C	20.0
			AS-27D	12.5	-			AS-27D	20.0
SVE-18	373.0	33.4	AS-27A	12.1	-	SVE-18	10.0	AS-27A	2.0
			AS-28B	11.8	-			AS-28B	2.0
			AS-28C	5.9	-			AS-28C	2.0
			AS-28D	10.6	-			AS-28D	2.0
			AS-30A	12.4	-			AS-30A	2.0
			AS-30C	12.1	-			AS-30C	2.0
SVE-19	951.0	27.1	AS-28A	9.9	-	SVE-19	27.1	AS-28A	9.9
			AS-29B	10.8	-			AS-29B	10.8
			AS-29C	11.5	-			AS-29C	11.5
			AS-30D	10.6	-			AS-30D	10.6
			AS-31A	10.6	-			AS-31A	10.6
SVE-20	72.7	24.3	AS-29A	9.3	-	SVE-20	10.0	AS-29A	2.0
			AS-29D	10.0	-			AS-29D	2.0
			AS-30B	5.5	-			AS-30B	2.0
			AS-31B	10.5	-			AS-31B	2.0
			AS-31C	7.7	-			AS-31C	2.0
			AS-31D	11.1	-			AS-31D	2.0
SVE-21	10.0	36.8	AS-08D	12.2	-	SVE-21	10.0	AS-08D	2.0
SVE-22	84.6	27.2	AS-12C	13.0	-	SVE-22	10.0	AS-12C	2.0
			AS-16D	13.7	-			AS-16D	2.0
			AS-20C	7.9	-			AS-20C	2.0
SVE-23	897.0	12.3	--	--	-	SVE-23	12.3	--	--
SVE-24	7.4	12.2	--	--	-	SVE-24	10.0	--	--
SVE-25	10.3	12.2*	AS-2E	6.9	25	SVE-25	10.0	AS-2E	10.0
			AS-3E	9.7	-			AS-3E	10.0
SVE-26	163.0	12.2*	AS-5E	9.5	-	SVE-26	10.0	AS-5E	10.0
SVE-27	17.3	12.2	AS-8E	12.5	-	SVE-27	10.0	AS-8E	10.0
SVE-28	0.4	12.2	AS-1E	10.5	-	SVE-28	10.0	AS-1E	10.0
SVE-29	12.7	12.2	AS-4E	9.9	-	SVE-29	10.0	AS-4E	10.0
SVE-30	3.0	12.2	AS-6E	11.5	-	SVE-30	10.0	AS-6E	11.5
			AS-7E	12.1	6,593			AS-7E	12.1
SVE-31	29.7	12.2	--	--	-	SVE-31	10.0	--	--

Notes:
SVE - Soil Vapor Extraction
AS- air sparge
PID - photoionization detector
ppmv - parts per million volume
ppb - parts per billion
scfm - standard cubic feet per minute
TVOC -Total Volatile Organic Compounds
ROI - Radius of influence
* - SVE flow was not measured - August-09 data was used in place of October-09 data.
** - AS flow data is from the September-09 field event.
*** - Proposed SVE flows may differ from actual flows based on field conditions
- SVE/AS well air flow will be balanced as followed according to PID/groundwater sampling results, respectively, measured from Fall 2009 events:
SVE flow to be decreased
SVE flow to remain unchanged
SVE flow to be increased

Table 13
Air Sparge and Soil Vapor Extraction System Projected Mass Removal Rate for 2010

Dover Municipal Landfill Superfund Site, Dover, NH

Well	October 2009 Values			Spring 2010 Optimized Values	
	PID (ppmv)	Measured Flow (scfm)	Normalized Mass Removal Rate (lbs./hr.)	Proposed Flow (scfm)**	Normalized Mass Removal Rate (lbs./hr.)
SVE-01	20.0	30.0	0.004	10.0	0.001
SVE-02	4.2	27.4	0.001	10.0	0.000
SVE-03	439	30.0	0.098	10.0	0.033
SVE-04	70.4	33.6	0.014	10.0	0.004
SVE-05	61.0	24.3	0.017	10.0	0.007
SVE-06	27.2	34.6	0.005	10.0	0.002
SVE-07	254	31.3	0.054	10.0	0.017
SVE-08	351	31.0	0.076	10.0	0.024
SVE-09	1,093	27.2	0.269	64.5	0.639
SVE-10	3,334	34.6	0.646	71.9	1.343
SVE-11	593	36.8	0.108	36.8	0.108
SVE-12	636	34.7	0.123	34.7	0.123
SVE-13	966	29.7	0.218	29.7	0.218
SVE-14	1,822	27.4	0.446	64.7	1.055
SVE-15	4,709	29.7	1.062	67.1	2.398
SVE-16	3,031	27.2	0.747	64.5	1.771
SVE-17	1,917	27.3	0.470	64.7	1.112
SVE-18	373	33.4	0.075	10.0	0.022
SVE-19	951	27.1	0.235	27.1	0.235
SVE-20	72.7	24.3	0.020	10.0	0.008
SVE-21	10.0	36.8	0.002	10.0	0.000
SVE-22	84.6	27.2	0.021	10.0	0.008
SVE-23	897	12.3	0.489	12.3	0.490
SVE-24	7.4	12.2	0.004	10.0	0.003
SVE-25*	10.3	12.2	0.006	10.0	0.005
SVE-26*	163	12.2	0.089	10.0	0.073
SVE-27	17.3	12.2	0.010	10.0	0.008
SVE-28	0.4	12.2	0.000	10.0	0.000
SVE-29	12.7	12.2	0.007	10.0	0.006
SVE-30	3.0	12.2	0.002	10.0	0.001
SVE-31	29.7	12.2	0.016	10.0	0.013
Total	21,960	775	**5.3**	738	9.7

Notes:

PID - photoionization detector
lbs./hr. - pounds per hour
ppmv - parts per million volume
scfm - standard cubic feet per minute
* - SVE flow was not measured - August-09 data was used in place of October-09 data.
** - Proposed SVE flows may differ from actual flows based on field conditions
- Spring 2010 Optimized Values use October-09 PID data for calculating the normalized mass removal rates
- SVE well flows will be balanced as followed according to PID results measured from the October 2009 O&M event:

SVE flow to be decreased
SVE flow to remain unchanged
SVE flow to be increased

APPENDIX A

LABORATORY ANALYTICAL REPORTS

Laboratory Report

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: None
LabID: 16383
Date Received: 4/2/09

Project: 84411 Dover

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

Per customer request, the following report pages are reissued to include changes to the field IDs.

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

Susan Sylvester
Principal, General Manager

4-20-09
Date

Total number of pages 5

Resource Laboratories, LLC Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-015
Sample ID: GW-04
Matrix: Water
Sampled: 3/31/09 16:10

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
chloromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
vinyl chloride	**7300**	400	ug/L	200	AJD		0900798	4/12/09	0:27	SW5030B8260B
bromomethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
chloroethane	**260**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
trichlorofluoromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
diethyl ether	< 100	100	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
acetone	**1700** B	500	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,1-dichloroethene	**20**	10	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
methylene chloride	< 50	50	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
carbon disulfide	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
methyl t-butyl ether (MTBE)	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
trans-1,2-dichloroethene	**190**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,1-dichloroethane	**1100**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
2-butanone (MEK)	**6900**	100	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
2,2-dichloropropane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
cis-1,2-dichloroethene	**72000**	400	ug/L	200	AJD		0900798	4/12/09	0:27	SW5030B8260B
chloroform	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
bromochloromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
tetrahydrofuran (THF)	**920**	100	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,1,1-trichloroethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,1-dichloropropene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
carbon tetrachloride	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,2-dichloroethane	**30**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
benzene	**52**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
trichloroethene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,2-dichloropropane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
bromodichloromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
dibromomethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**6700**	100	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
cis-1,3-dichloropropene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
toluene	**8200**	400	ug/L	200	AJD		0900798	4/12/09	0:27	SW5030B8260B
trans-1,3-dichloropropene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
2-hexanone	**260**	100	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,1,2-trichloroethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,3-dichloropropane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
tetrachloroethene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
dibromochloromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,2-dibromoethane (EDB)	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
chlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,1,1,2-tetrachloroethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
ethylbenzene	**1300**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
m&p-xylenes	**3500**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
o-xylene	**1000**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B

Revised 4/20/09 JG

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-015
Sample ID: GW-04
Matrix: Water
Sampled: 3/31/09 16:10

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
styrene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
bromoform	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
isopropylbenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,1,2,2-tetrachloroethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,2,3-trichloropropane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
n-propylbenzene	**23**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
bromobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,3,5-trimethylbenzene	**43**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
2-chlorotoluene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
4-chlorotoluene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
tert-butylbenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,2,4-trimethylbenzene	**140**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
sec-butylbenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,3-dichlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
4-isopropyltoluene	**53**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,4-dichlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,2-dichlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
n-butylbenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,2,4-trichlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
hexachlorobutadiene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
naphthalene	< 50	50	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,2,3-trichlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	99	78-114	%	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
toluene-D8 SUR	103	88-110	%	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
4-bromofluorobenzene SUR	97	86-115	%	10	LMM		0900798	4/9/09	7:05	SW5030B8260B

B = This analyte was detected in the method blank. No additional sample remained for re-analysis.

Revised 4/20/09 JB

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-018
Sample ID: GW-01
Matrix: Water
Sampled: 4/1/09 10:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
chloromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
vinyl chloride	**1400**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
bromomethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
chloroethane	**3400**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
trichlorofluoromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
diethyl ether	< 100	100	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
acetone	< 500	500	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,1-dichloroethene	< 10	10	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
methylene chloride	**180** B	50	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
carbon disulfide	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
methyl t-butyl ether (MTBE)	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
trans-1,2-dichloroethene	**21**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,1-dichloroethane	**600**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
2-butanone (MEK)	**6000**	200	ug/L	20	AJD		0900798	4/12/09	1:32	SW5030B8260B
2,2-dichloropropane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
cis-1,2-dichloroethene	**2600**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
chloroform	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
bromochloromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
tetrahydrofuran (THF)	**6200**	100	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,1,1-trichloroethane	**75**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,1-dichloropropene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
carbon tetrachloride	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,2-dichloroethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
benzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
trichloroethene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,2-dichloropropane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
bromodichloromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
dibromomethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**150**	100	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
cis-1,3-dichloropropene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
toluene	**5500**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
trans-1,3-dichloropropene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
2-hexanone	< 100	100	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,1,2-trichloroethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,3-dichloropropane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
tetrachloroethene	**36**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
dibromochloromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,2-dibromoethane (EDB)	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
chlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,1,1,2-tetrachloroethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
ethylbenzene	**410**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
m&p-xylenes	**1500**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
o-xylene	**540**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B

Revised 4/20/09 JB

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-018
Sample ID: GW-01
Matrix: Water
Sampled: 4/1/09 10:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
styrene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
bromoform	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
isopropylbenzene	**28**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,1,2,2-tetrachloroethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,2,3-trichloropropane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
n-propylbenzene	**30**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
bromobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,3,5-trimethylbenzene	**96**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
2-chlorotoluene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
4-chlorotoluene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
tert-butylbenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,2,4-trimethylbenzene	**270**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
sec-butylbenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,3-dichlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
4-isopropyltoluene	**24**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,4-dichlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,2-dichlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
n-butylbenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,2,4-trichlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
hexachlorobutadiene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
naphthalene	< 50	50	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,2,3-trichlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	90	78-114	%	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
toluene-D8 SUR	101	88-110	%	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
4-bromofluorobenzene SUR	96	86-115	%	10	LMM		0900798	4/9/09	6:31	SW5030B8260B

B = This analyte was detected in the method blank. No additional sample remained for re-analysis.

Revised 4/20/09 SC

Laboratory Report

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: None
LabID: 16383
Date Received: 4/2/09

Project: 84411 Dover

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

(for) 4/16/09

Susan Sylvester
Principal, General Manager

Date

Total number of pages 39

Resource Laboratories, LLC Certifications

New Hampshire	1732	Massachusetts	M-NH902
Maine	NH903		

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-001
Sample ID: as-02E
Matrix: Water
Sampled: 4/1/09 10:05

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
chloromethane	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
vinyl chloride	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
bromomethane	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
chloroethane	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
trichlorofluoromethane	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
diethyl ether	< 500	500	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
acetone	< 2500	2500	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
1,1-dichloroethene	< 50	50	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
methylene chloride	< 250	250	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
carbon disulfide	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
methyl t-butyl ether (MTBE)	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
trans-1,2-dichloroethene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
1,1-dichloroethane	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
2-butanone (MEK)	< 500	500	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
2,2-dichloropropane	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
cis-1,2-dichloroethene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
chloroform	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
bromochloromethane	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
tetrahydrofuran (THF)	**12000**	500	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
1,1,1-trichloroethane	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
1,1-dichloropropene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
carbon tetrachloride	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
1,2-dichloroethane	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
benzene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
trichloroethene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
1,2-dichloropropane	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
bromodichloromethane	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
dibromomethane	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 500	500	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
cis-1,3-dichloropropene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
toluene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
trans-1,3-dichloropropene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
2-hexanone	< 500	500	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
1,1,2-trichloroethane	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
1,3-dichloropropane	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
tetrachloroethene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
dibromochloromethane	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
1,2-dibromoethane (EDB)	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
chlorobenzene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
1,1,1,2-tetrachloroethane	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
ethylbenzene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
m&p-xylenes	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
o-xylene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-001
Sample ID: as-02E
Matrix: Water
Sampled: 4/1/09 10:05

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
styrene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
bromoform	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
isopropylbenzene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
1,1,2,2-tetrachloroethane	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
1,2,3-trichloropropane	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
n-propylbenzene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
bromobenzene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
1,3,5-trimethylbenzene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
2-chlorotoluene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
4-chlorotoluene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
tert-butylbenzene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
1,2,4-trimethylbenzene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
sec-butylbenzene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
1,3-dichlorobenzene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
4-isopropyltoluene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
1,4-dichlorobenzene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
1,2-dichlorobenzene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
n-butylbenzene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
1,2,4-trichlorobenzene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
hexachlorobutadiene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
naphthalene	< 250	250	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
1,2,3-trichlorobenzene	< 100	100	ug/L	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	91	78-114	%	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
toluene-D8 SUR	98	88-110	%	50	LMM		0900758	4/9/09	9:19	SW5030B8260B
4-bromofluorobenzene SUR	94	86-115	%	50	LMM		0900758	4/9/09	9:19	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-002
Sample ID: as-16C
Matrix: Water
Sampled: 4/1/09 9:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
chloromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
vinyl chloride	**3500**	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
bromomethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
chloroethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
trichlorofluoromethane	**1200**	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
diethyl ether	< 5000	5000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
acetone	< 25000	25000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
1,1-dichloroethene	< 500	500	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
methylene chloride	**29000**	2500	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
carbon disulfide	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
methyl t-butyl ether (MTBE)	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
trans-1,2-dichloroethene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
1,1-dichloroethane	**6300**	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
2-butanone (MEK)	**37000**	5000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
2,2-dichloropropane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
cis-1,2-dichloroethene	**210000**	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
chloroform	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
bromochloromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
tetrahydrofuran (THF)	< 5000	5000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
1,1,1-trichloroethane	**8900**	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
1,1-dichloropropene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
carbon tetrachloride	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
1,2-dichloroethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
benzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
trichloroethene	**6400**	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
1,2-dichloropropane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
bromodichloromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
dibromomethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**9100**	5000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
cis-1,3-dichloropropene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
toluene	**48000**	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
trans-1,3-dichloropropene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
2-hexanone	< 5000	5000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
1,1,2-trichloroethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
1,3-dichloropropane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
tetrachloroethene	**110000**	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
dibromochloromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
1,2-dibromoethane (EDB)	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
chlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
1,1,1,2-tetrachloroethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
ethylbenzene	**2800**	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
m&p-xylenes	**9000**	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
o-xylene	**2500**	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-002
Sample ID: as-16C
Matrix: Water
Sampled: 4/1/09 9:50

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
styrene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
bromoform	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
isopropylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
1,1,2,2-tetrachloroethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
1,2,3-trichloropropane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
n-propylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
bromobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
1,3,5-trimethylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
2-chlorotoluene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
4-chlorotoluene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
tert-butylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
1,2,4-trimethylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
sec-butylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
1,3-dichlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
4-isopropyltoluene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
1,4-dichlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
1,2-dichlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
n-butylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
1,2,4-trichlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
hexachlorobutadiene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
naphthalene	< 2500	2500	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
1,2,3-trichlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	99	78-114	%	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
toluene-D8 SUR	102	88-110	%	500	LMM		0900800	4/11/09	14:18	SW5030B8260B
4-bromofluorobenzene SUR	97	86-115	%	500	LMM		0900800	4/11/09	14:18	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-003
Sample ID: as-04C
Matrix: Water
Sampled: 4/1/09 9:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
chloromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
vinyl chloride	**2600**	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
bromomethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
chloroethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
trichlorofluoromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
diethyl ether	< 5000	5000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
acetone	< 25000	25000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
1,1-dichloroethene	< 500	500	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
methylene chloride	**14000**	2500	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
carbon disulfide	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
methyl t-butyl ether (MTBE)	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
trans-1,2-dichloroethene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
1,1-dichloroethane	**2000**	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
2-butanone (MEK)	< 5000	5000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
2,2-dichloropropane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
cis-1,2-dichloroethene	**83000**	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
chloroform	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
bromochloromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
tetrahydrofuran (THF)	< 5000	5000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
1,1,1-trichloroethane	**32000**	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
1,1-dichloropropene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
carbon tetrachloride	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
1,2-dichloroethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
benzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
trichloroethene	**15000**	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
1,2-dichloropropane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
bromodichloromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
dibromomethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 5000	5000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
cis-1,3-dichloropropene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
toluene	**14000**	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
trans-1,3-dichloropropene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
2-hexanone	< 5000	5000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
1,1,2-trichloroethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
1,3-dichloropropane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
tetrachloroethene	**120000**	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
dibromochloromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
1,2-dibromoethane (EDB)	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
chlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
1,1,1,2-tetrachloroethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
ethylbenzene	**1800**	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
m&p-xylenes	**5200**	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
o-xylene	**1300**	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-003
Sample ID: as-04C
Matrix: Water
Sampled: 4/1/09 9:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
styrene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
bromoform	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
isopropylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
1,1,2,2-tetrachloroethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
1,2,3-trichloropropane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
n-propylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
bromobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
1,3,5-trimethylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
2-chlorotoluene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
4-chlorotoluene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
tert-butylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
1,2,4-trimethylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
sec-butylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
1,3-dichlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
4-isopropyltoluene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
1,4-dichlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
1,2-dichlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
n-butylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
1,2,4-trichlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
hexachlorobutadiene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
naphthalene	< 2500	2500	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
1,2,3-trichlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	99	78-114	%	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
toluene-D8 SUR	102	88-110	%	500	LMM		0900800	4/11/09	13:45	SW5030B8260B
4-bromofluorobenzene SUR	96	86-115	%	500	LMM		0900800	4/11/09	13:45	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-004
Sample ID: as-07E
Matrix: Water
Sampled: 3/31/09 15:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	**47**	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
chloromethane	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
vinyl chloride	**930**	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
bromomethane	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
chloroethane	**26**	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
trichlorofluoromethane	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
diethyl ether	< 50	50	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
acetone	**800**	250	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
1,1-dichloroethene	< 5	5	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
methylene chloride	< 25	25	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
carbon disulfide	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
methyl t-butyl ether (MTBE)	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
trans-1,2-dichloroethene	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
1,1-dichloroethane	**290**	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
2-butanone (MEK)	**1700**	50	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
2,2-dichloropropane	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
cis-1,2-dichloroethene	**36**	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
chloroform	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
bromochloromethane	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
tetrahydrofuran (THF)	**180**	50	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
1,1,1-trichloroethane	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
1,1-dichloropropene	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
carbon tetrachloride	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
1,2-dichloroethane	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
benzene	**35**	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
trichloroethene	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
1,2-dichloropropane	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
bromodichloromethane	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
dibromomethane	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**1000**	50	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
cis-1,3-dichloropropene	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
toluene	**3000**	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
trans-1,3-dichloropropene	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
2-hexanone	**80**	50	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
1,1,2-trichloroethane	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
1,3-dichloropropane	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
tetrachloroethene	**21**	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
dibromochloromethane	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
1,2-dibromoethane (EDB)	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
chlorobenzene	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
1,1,1,2-tetrachloroethane	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
ethylbenzene	**440**	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
m&p-xylenes	**1300**	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
o-xylene	**430**	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-004
Sample ID: as-07E
Matrix: Water
Sampled: 3/31/09 15:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
styrene	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
bromoform	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
isopropylbenzene	**21**	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
1,1,2,2-tetrachloroethane	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
1,2,3-trichloropropane	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
n-propylbenzene	**27**	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
bromobenzene	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
1,3,5-trimethylbenzene	**60**	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
2-chlorotoluene	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
4-chlorotoluene	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
tert-butylbenzene	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
1,2,4-trimethylbenzene	**200**	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
sec-butylbenzene	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
1,3-dichlorobenzene	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
4-isopropyltoluene	**13**	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
1,4-dichlorobenzene	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
1,2-dichlorobenzene	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
n-butylbenzene	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
1,2,4-trichlorobenzene	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
hexachlorobutadiene	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
naphthalene	< 25	25	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
1,2,3-trichlorobenzene	< 10	10	ug/L	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	98	78-114	%	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
toluene-D8 SUR	101	88-110	%	5	LMM		0900800	4/11/09	17:34	SW5030B8260B
4-bromofluorobenzene SUR	96	86-115	%	5	LMM		0900800	4/11/09	17:34	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-005
Sample ID: as-06C
Matrix: Water
Sampled: 3/31/09 16:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
chloromethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
vinyl chloride	**5600**	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
bromomethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
chloroethane	**300**	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
trichlorofluoromethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
diethyl ether	< 200	200	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
acetone	< 1000	1000	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
1,1-dichloroethene	< 20	20	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
methylene chloride	< 100	100	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
carbon disulfide	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
methyl t-butyl ether (MTBE)	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
trans-1,2-dichloroethene	**66**	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
1,1-dichloroethane	**470**	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
2-butanone (MEK)	**1800**	200	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
2,2-dichloropropane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
cis-1,2-dichloroethene	**8200**	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
chloroform	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
bromochloromethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
tetrahydrofuran (THF)	**830**	200	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
1,1,1-trichloroethane	**88**	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
1,1-dichloropropene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
carbon tetrachloride	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
1,2-dichloroethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
benzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
trichloroethene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
1,2-dichloropropane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
bromodichloromethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
dibromomethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 200	200	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
cis-1,3-dichloropropene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
toluene	**9700**	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
trans-1,3-dichloropropene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
2-hexanone	< 200	200	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
1,1,2-trichloroethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
1,3-dichloropropane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
tetrachloroethene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
dibromochloromethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
1,2-dibromoethane (EDB)	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
chlorobenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
1,1,1,2-tetrachloroethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
ethylbenzene	**400**	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
m&p-xylenes	**1300**	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
o-xylene	**400**	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-005
Sample ID: as-06C
Matrix: Water
Sampled: 3/31/09 16:15

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
styrene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
bromoform	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
isopropylbenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
1,1,2,2-tetrachloroethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
1,2,3-trichloropropane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
n-propylbenzene	**66**	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
bromobenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
1,3,5-trimethylbenzene	**210**	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
2-chlorotoluene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
4-chlorotoluene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
tert-butylbenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
1,2,4-trimethylbenzene	**550**	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
sec-butylbenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
1,3-dichlorobenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
4-isopropyltoluene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
1,4-dichlorobenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
1,2-dichlorobenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
n-butylbenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
1,2,4-trichlorobenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
hexachlorobutadiene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
naphthalene	< 100	100	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
1,2,3-trichlorobenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	100	78-114	%	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
toluene-D8 SUR	101	88-110	%	20	AJD		0900798	4/12/09	2:40	SW5030B8260B
4-bromofluorobenzene SUR	101	86-115	%	20	AJD		0900798	4/12/09	2:40	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-006
Sample ID: as-15D
Matrix: Water
Sampled: 4/1/09 9:45

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
chloromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
vinyl chloride	**3200**	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
bromomethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
chloroethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
trichlorofluoromethane	**1000**	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
diethyl ether	< 5000	5000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
acetone	< 25000	25000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
1,1-dichloroethene	< 500	500	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
methylene chloride	**41000**	2500	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
carbon disulfide	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
methyl t-butyl ether (MTBE)	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
trans-1,2-dichloroethene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
1,1-dichloroethane	**7000**	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
2-butanone (MEK)	**21000**	5000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
2,2-dichloropropane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
cis-1,2-dichloroethene	**220000**	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
chloroform	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
bromochloromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
tetrahydrofuran (THF)	< 5000	5000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
1,1,1-trichloroethane	**9600**	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
1,1-dichloropropene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
carbon tetrachloride	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
1,2-dichloroethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
benzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
trichloroethene	**6900**	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
1,2-dichloropropane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
bromodichloromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
dibromomethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**6200**	5000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
cis-1,3-dichloropropene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
toluene	**47000**	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
trans-1,3-dichloropropene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
2-hexanone	< 5000	5000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
1,1,2-trichloroethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
1,3-dichloropropane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
tetrachloroethene	**130000**	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
dibromochloromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
1,2-dibromoethane (EDB)	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
chlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
1,1,1,2-tetrachloroethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
ethylbenzene	**2700**	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
m&p-xylenes	**8100**	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
o-xylene	**2300**	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-006
Sample ID: as-15D
Matrix: Water
Sampled: 4/1/09 9:45

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
styrene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
bromoform	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
isopropylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
1,1,2,2-tetrachloroethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
1,2,3-trichloropropane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
n-propylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
bromobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
1,3,5-trimethylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
2-chlorotoluene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
4-chlorotoluene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
tert-butylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
1,2,4-trimethylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
sec-butylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
1,3-dichlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
4-isopropyltoluene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
1,4-dichlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
1,2-dichlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
n-butylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
1,2,4-trichlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
hexachlorobutadiene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
naphthalene	< 2500	2500	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
1,2,3-trichlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	100	78-114	%	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
toluene-D8 SUR	102	88-110	%	500	LMM		0900800	4/11/09	14:51	SW5030B8260B
4-bromofluorobenzene SUR	96	86-115	%	500	LMM		0900800	4/11/09	14:51	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-007
Sample ID: as-15A
Matrix: Water
Sampled: 4/1/09 9:10

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
chloromethane	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
vinyl chloride	**1300**	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
bromomethane	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
chloroethane	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
trichlorofluoromethane	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
diethyl ether	< 1000	1000	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
acetone	**11000** B	5000	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
1,1-dichloroethene	< 100	100	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
methylene chloride	**61000** B	500	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
carbon disulfide	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
methyl t-butyl ether (MTBE)	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
trans-1,2-dichloroethene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
1,1-dichloroethane	**7200**	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
2-butanone (MEK)	**36000**	1000	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
2,2-dichloropropane	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
cis-1,2-dichloroethene	**40000**	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
chloroform	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
bromochloromethane	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
tetrahydrofuran (THF)	**2800**	1000	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
1,1,1-trichloroethane	**2600**	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
1,1-dichloropropene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
carbon tetrachloride	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
1,2-dichloroethane	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
benzene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
trichloroethene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
1,2-dichloropropane	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
bromodichloromethane	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
dibromomethane	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**5300**	1000	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
cis-1,3-dichloropropene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
toluene	**28000**	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
trans-1,3-dichloropropene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
2-hexanone	< 1000	1000	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
1,1,2-trichloroethane	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
1,3-dichloropropane	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
tetrachloroethene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
dibromochloromethane	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
1,2-dibromoethane (EDB)	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
chlorobenzene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
1,1,1,2-tetrachloroethane	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
ethylbenzene	**310**	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
m&p-xylenes	**910**	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
o-xylene	**300**	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-007
Sample ID: as-15A
Matrix: Water
Sampled: 4/1/09 9:10

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
styrene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
bromoform	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
isopropylbenzene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
1,1,2,2-tetrachloroethane	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
1,2,3-trichloropropane	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
n-propylbenzene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
bromobenzene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
1,3,5-trimethylbenzene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
2-chlorotoluene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
4-chlorotoluene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
tert-butylbenzene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
1,2,4-trimethylbenzene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
sec-butylbenzene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
1,3-dichlorobenzene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
4-isopropyltoluene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
1,4-dichlorobenzene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
1,2-dichlorobenzene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
n-butylbenzene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
1,2,4-trichlorobenzene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
hexachlorobutadiene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
naphthalene	< 500	500	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
1,2,3-trichlorobenzene	< 200	200	ug/L	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	95	78-114	%	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
toluene-D8 SUR	101	88-110	%	100	LMM		0900798	4/9/09	10:27	SW5030B8260B
4-bromofluorobenzene SUR	97	86-115	%	100	LMM		0900798	4/9/09	10:27	SW5030B8260B

B = This analyte was detected in the method blank. No additional sample remained for re-analysis.

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-008
Sample ID: as-25A
Matrix: Water
Sampled: 4/1/09 8:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
chloromethane	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
vinyl chloride	**830**	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
bromomethane	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
chloroethane	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
trichlorofluoromethane	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
diethyl ether	< 1000	1000	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
acetone	< 5000	5000	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
1,1-dichloroethene	< 100	100	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
methylene chloride	< 500	500	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
carbon disulfide	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
methyl t-butyl ether (MTBE)	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
trans-1,2-dichloroethene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
1,1-dichloroethane	**350**	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
2-butanone (MEK)	**1400**	1000	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
2,2-dichloropropane	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
cis-1,2-dichloroethene	**8700**	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
chloroform	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
bromochloromethane	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
tetrahydrofuran (THF)	< 1000	1000	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
1,1,1-trichloroethane	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
1,1-dichloropropene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
carbon tetrachloride	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
1,2-dichloroethane	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
benzene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
trichloroethene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
1,2-dichloropropane	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
bromodichloromethane	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
dibromomethane	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 1000	1000	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
cis-1,3-dichloropropene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
toluene	**2100**	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
trans-1,3-dichloropropene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
2-hexanone	< 1000	1000	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
1,1,2-trichloroethane	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
1,3-dichloropropane	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
tetrachloroethene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
dibromochloromethane	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
1,2-dibromoethane (EDB)	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
chlorobenzene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
1,1,1,2-tetrachloroethane	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
ethylbenzene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
m&p-xylenes	**210**	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
o-xylene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-008
Sample ID: as-25A
Matrix: Water
Sampled: 4/1/09 8:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
styrene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
bromoform	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
isopropylbenzene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
1,1,2,2-tetrachloroethane	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
1,2,3-trichloropropane	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
n-propylbenzene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
bromobenzene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
1,3,5-trimethylbenzene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
2-chlorotoluene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
4-chlorotoluene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
tert-butylbenzene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
1,2,4-trimethylbenzene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
sec-butylbenzene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
1,3-dichlorobenzene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
4-isopropyltoluene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
1,4-dichlorobenzene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
1,2-dichlorobenzene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
n-butylbenzene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
1,2,4-trichlorobenzene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
hexachlorobutadiene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
naphthalene	< 500	500	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
1,2,3-trichlorobenzene	< 200	200	ug/L	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	101	78-114	%	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
toluene-D8 SUR	102	88-110	%	100	LMM		0900800	4/11/09	18:40	SW5030B8260B
4-bromofluorobenzene SUR	97	86-115	%	100	LMM		0900800	4/11/09	18:40	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-009
Sample ID: as-13B
Matrix: Water
Sampled: 4/1/09 8:45

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Analysis Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
chloromethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
vinyl chloride	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
bromomethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
chloroethane	**990**	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
trichlorofluoromethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
diethyl ether	< 200	200	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
acetone	< 1000	1000	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
1,1-dichloroethene	< 20	20	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
methylene chloride	< 100	100	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
carbon disulfide	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
methyl t-butyl ether (MTBE)	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
trans-1,2-dichloroethene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
1,1-dichloroethane	**97**	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
2-butanone (MEK)	**1300**	200	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
2,2-dichloropropane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
cis-1,2-dichloroethene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
chloroform	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
bromochloromethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
tetrahydrofuran (THF)	**1000**	200	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
1,1,1-trichloroethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
1,1-dichloropropene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
carbon tetrachloride	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
1,2-dichloroethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
benzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
trichloroethene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
1,2-dichloropropane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
bromodichloromethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
dibromomethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 200	200	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
cis-1,3-dichloropropene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
toluene	**7800**	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
trans-1,3-dichloropropene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
2-hexanone	< 200	200	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
1,1,2-trichloroethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
1,3-dichloropropane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
tetrachloroethene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
dibromochloromethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
1,2-dibromoethane (EDB)	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
chlorobenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
1,1,1,2-tetrachloroethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
ethylbenzene	**300**	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
m&p-xylenes	**770**	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
o-xylene	**280**	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-009
Sample ID: as-13B
Matrix: Water
Sampled: 4/1/09 8:45

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
styrene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
bromoform	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
isopropylbenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
1,1,2,2-tetrachloroethane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
1,2,3-trichloropropane	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
n-propylbenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
bromobenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
1,3,5-trimethylbenzene	**61**	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
2-chlorotoluene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
4-chlorotoluene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
tert-butylbenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
1,2,4-trimethylbenzene	**220**	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
sec-butylbenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
1,3-dichlorobenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
4-isopropyltoluene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
1,4-dichlorobenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
1,2-dichlorobenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
n-butylbenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
1,2,4-trichlorobenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
hexachlorobutadiene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
naphthalene	< 100	100	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
1,2,3-trichlorobenzene	< 40	40	ug/L	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	99	78-114	%	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
toluene-D8 SUR	102	88-110	%	20	AJD		0900798	4/12/09	2:06	SW5030B8260B
4-bromofluorobenzene SUR	99	86-115	%	20	AJD		0900798	4/12/09	2:06	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-010
Sample ID: as-16A
Matrix: Water
Sampled: 3/31/09 12:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
chloromethane	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
vinyl chloride	**3100**	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
bromomethane	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
chloroethane	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
trichlorofluoromethane	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
diethyl ether	< 10000	10000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
acetone	< 50000	50000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
1,1-dichloroethene	< 1000	1000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
methylene chloride	**34000**	5000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
carbon disulfide	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
trans-1,2-dichloroethene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
1,1-dichloroethane	**7600**	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
2-butanone (MEK)	**25000**	10000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
2,2-dichloropropane	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
cis-1,2-dichloroethene	**230000**	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
chloroform	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
bromochloromethane	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
tetrahydrofuran (THF)	< 10000	10000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
1,1,1-trichloroethane	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
1,1-dichloropropene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
carbon tetrachloride	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
1,2-dichloroethane	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
benzene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
trichloroethene	**5500**	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
1,2-dichloropropane	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
bromodichloromethane	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
dibromomethane	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10000	10000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
cis-1,3-dichloropropene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
toluene	**64000**	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
trans-1,3-dichloropropene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
2-hexanone	< 10000	10000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
1,1,2-trichloroethane	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
1,3-dichloropropane	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
tetrachloroethene	**54000**	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
dibromochloromethane	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
1,2-dibromoethane (EDB)	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
chlorobenzene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
ethylbenzene	**2800**	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
m&p-xylenes	**9200**	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
o-xylene	**2700**	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-010
Sample ID: as-16A
Matrix: Water
Sampled: 3/31/09 12:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
styrene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
bromoform	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
isopropylbenzene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
1,2,3-trichloropropane	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
n-propylbenzene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
bromobenzene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
1,3,5-trimethylbenzene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
2-chlorotoluene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
4-chlorotoluene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
tert-butylbenzene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
1,2,4-trimethylbenzene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
sec-butylbenzene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
1,3-dichlorobenzene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
4-isopropyltoluene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
1,4-dichlorobenzene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
1,2-dichlorobenzene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
n-butylbenzene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
1,2,4-trichlorobenzene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
hexachlorobutadiene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
naphthalene	< 5000	5000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
1,2,3-trichlorobenzene	< 2000	2000	ug/L	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	99	78-114	%	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
toluene-D8 SUR	102	88-110	%	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B
4-bromofluorobenzene SUR	97	86-115	%	1000	LMM		0900800	4/11/09	15:23	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-011
Sample ID: GW-3
Matrix: Water
Sampled: 3/31/09 14:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
chloromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
vinyl chloride	**2900**	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
bromomethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
chloroethane	**1200**	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
trichlorofluoromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
diethyl ether	< 5000	5000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
acetone	< 25000	25000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
1,1-dichloroethene	< 500	500	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
methylene chloride	**9600**	2500	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
carbon disulfide	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
methyl t-butyl ether (MTBE)	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
trans-1,2-dichloroethene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
1,1-dichloroethane	**6900**	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
2-butanone (MEK)	**14000**	5000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
2,2-dichloropropane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
cis-1,2-dichloroethene	**150000**	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
chloroform	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
bromochloromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
tetrahydrofuran (THF)	< 5000	5000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
1,1,1-trichloroethane	**20000**	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
1,1-dichloropropene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
carbon tetrachloride	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
1,2-dichloroethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
benzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
trichloroethene	**8000**	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
1,2-dichloropropane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
bromodichloromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
dibromomethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**7600**	5000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
cis-1,3-dichloropropene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
toluene	**44000**	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
trans-1,3-dichloropropene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
2-hexanone	< 5000	5000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
1,1,2-trichloroethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
1,3-dichloropropane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
tetrachloroethene	**33000**	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
dibromochloromethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
1,2-dibromoethane (EDB)	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
chlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
1,1,1,2-tetrachloroethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
ethylbenzene	**2300**	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
m&p-xylenes	**7700**	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
o-xylene	**2300**	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-011
Sample ID: GW-3
Matrix: Water
Sampled: 3/31/09 14:30

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
styrene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
bromoform	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
isopropylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
1,1,2,2-tetrachloroethane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
1,2,3-trichloropropane	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
n-propylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
bromobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
1,3,5-trimethylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
2-chlorotoluene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
4-chlorotoluene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
tert-butylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
1,2,4-trimethylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
sec-butylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
1,3-dichlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
4-isopropyltoluene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
1,4-dichlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
1,2-dichlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
n-butylbenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
1,2,4-trichlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
hexachlorobutadiene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
naphthalene	< 2500	2500	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
1,2,3-trichlorobenzene	< 1000	1000	ug/L	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	98	78-114	%	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
toluene-D8 SUR	100	88-110	%	500	LMM		0900800	4/11/09	13:12	SW5030B8260B
4-bromofluorobenzene SUR	97	86-115	%	500	LMM		0900800	4/11/09	13:12	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-012
Sample ID: as-27B
Matrix: Water
Sampled: 3/31/09 15:05

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
chloromethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
vinyl chloride	**4500**	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
bromomethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
chloroethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
trichlorofluoromethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
diethyl ether	< 2000	2000	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
acetone	< 10000	10000	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
1,1-dichloroethene	< 200	200	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
methylene chloride	< 1000	1000	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
carbon disulfide	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
methyl t-butyl ether (MTBE)	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
trans-1,2-dichloroethene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
1,1-dichloroethane	**1500**	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
2-butanone (MEK)	**5700**	2000	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
2,2-dichloropropane	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
cis-1,2-dichloroethene	**83000**	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
chloroform	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
bromochloromethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
tetrahydrofuran (THF)	< 2000	2000	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
1,1,1-trichloroethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
1,1-dichloropropene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
carbon tetrachloride	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
1,2-dichloroethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
benzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
trichloroethene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
1,2-dichloropropane	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
bromodichloromethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
dibromomethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**2200**	2000	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
cis-1,3-dichloropropene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
toluene	**14000**	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
trans-1,3-dichloropropene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
2-hexanone	< 2000	2000	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
1,1,2-trichloroethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
1,3-dichloropropane	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
tetrachloroethene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
dibromochloromethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
1,2-dibromoethane (EDB)	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
chlorobenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
1,1,1,2-tetrachloroethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
ethylbenzene	**870**	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
m&p-xylenes	**2600**	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
o-xylene	**850**	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-012
Sample ID: as-27B
Matrix: Water
Sampled: 3/31/09 15:05

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
styrene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
bromoform	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
isopropylbenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
1,1,2,2-tetrachloroethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
1,2,3-trichloropropane	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
n-propylbenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
bromobenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
1,3,5-trimethylbenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
2-chlorotoluene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
4-chlorotoluene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
tert-butylbenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
1,2,4-trimethylbenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
sec-butylbenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
1,3-dichlorobenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
4-isopropyltoluene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
1,4-dichlorobenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
1,2-dichlorobenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
n-butylbenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
1,2,4-trichlorobenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
hexachlorobutadiene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
naphthalene	< 1000	1000	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
1,2,3-trichlorobenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	98	78-114	%	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
toluene-D8 SUR	101	88-110	%	200	LMM		0900800	4/11/09	17:01	SW5030B8260B
4-bromofluorobenzene SUR	97	86-115	%	200	LMM		0900800	4/11/09	17:01	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-013
Sample ID: as-14A
Matrix: Water
Sampled: 3/31/09 10:45

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
chloromethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
vinyl chloride	**850**	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
bromomethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
chloroethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
trichlorofluoromethane	**580**	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
diethyl ether	< 2000	2000	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
acetone	< 10000	10000	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
1,1-dichloroethene	< 200	200	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
methylene chloride	**51000**	1000	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
carbon disulfide	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
methyl t-butyl ether (MTBE)	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
trans-1,2-dichloroethene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
1,1-dichloroethane	**9200**	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
2-butanone (MEK)	**2600**	2000	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
2,2-dichloropropane	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
cis-1,2-dichloroethene	**39000**	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
chloroform	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
bromochloromethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
tetrahydrofuran (THF)	< 2000	2000	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
1,1,1-trichloroethane	**3100**	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
1,1-dichloropropene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
carbon tetrachloride	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
1,2-dichloroethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
benzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
trichloroethene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
1,2-dichloropropane	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
bromodichloromethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
dibromomethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 2000	2000	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
cis-1,3-dichloropropene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
toluene	**100000**	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
trans-1,3-dichloropropene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
2-hexanone	< 2000	2000	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
1,1,2-trichloroethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
1,3-dichloropropane	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
tetrachloroethene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
dibromochloromethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
1,2-dibromoethane (EDB)	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
chlorobenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
1,1,1,2-tetrachloroethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
ethylbenzene	**1600**	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
m&p-xylenes	**4600**	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
o-xylene	**1300**	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-013
Sample ID: as-14A
Matrix: Water
Sampled: 3/31/09 10:45

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
styrene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
bromoform	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
isopropylbenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
1,1,2,2-tetrachloroethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
1,2,3-trichloropropane	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
n-propylbenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
bromobenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
1,3,5-trimethylbenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
2-chlorotoluene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
4-chlorotoluene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
tert-butylbenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
1,2,4-trimethylbenzene	**430**	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
sec-butylbenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
1,3-dichlorobenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
4-isopropyltoluene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
1,4-dichlorobenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
1,2-dichlorobenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
n-butylbenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
1,2,4-trichlorobenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
hexachlorobutadiene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
naphthalene	< 1000	1000	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
1,2,3-trichlorobenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	99	78-114	%	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
toluene-D8 SUR	101	88-110	%	200	LMM		0900800	4/11/09	16:29	SW5030B8260B
4-bromofluorobenzene SUR	99	86-115	%	200	LMM		0900800	4/11/09	16:29	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-014
Sample ID: DUP-01
Matrix: Water
Sampled: 3/31/09 12:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
chloromethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
vinyl chloride	**820**	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
bromomethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
chloroethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
trichlorofluoromethane	**550**	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
diethyl ether	< 2000	2000	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
acetone	< 10000	10000	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
1,1-dichloroethene	< 200	200	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
methylene chloride	**51000**	1000	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
carbon disulfide	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
methyl t-butyl ether (MTBE)	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
trans-1,2-dichloroethene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
1,1-dichloroethane	**9200**	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
2-butanone (MEK)	**2400**	2000	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
2,2-dichloropropane	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
cis-1,2-dichloroethene	**39000**	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
chloroform	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
bromochloromethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
tetrahydrofuran (THF)	< 2000	2000	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
1,1,1-trichloroethane	**3000**	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
1,1-dichloropropene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
carbon tetrachloride	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
1,2-dichloroethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
benzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
trichloroethene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
1,2-dichloropropane	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
bromodichloromethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
dibromomethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 2000	2000	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
cis-1,3-dichloropropene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
toluene	**100000**	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
trans-1,3-dichloropropene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
2-hexanone	< 2000	2000	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
1,1,2-trichloroethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
1,3-dichloropropane	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
tetrachloroethene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
dibromochloromethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
1,2-dibromoethane (EDB)	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
chlorobenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
1,1,1,2-tetrachloroethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
ethylbenzene	**1500**	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
m&p-xylenes	**4500**	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
o-xylene	**1200**	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-014
Sample ID: DUP-01
Matrix: Water
Sampled: 3/31/09 12:00

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
styrene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
bromoform	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
isopropylbenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
1,1,2,2-tetrachloroethane	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
1,2,3-trichloropropane	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
n-propylbenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
bromobenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
1,3,5-trimethylbenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
2-chlorotoluene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
4-chlorotoluene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
tert-butylbenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
1,2,4-trimethylbenzene	**420**	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
sec-butylbenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
1,3-dichlorobenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
4-isopropyltoluene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
1,4-dichlorobenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
1,2-dichlorobenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
n-butylbenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
1,2,4-trichlorobenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
hexachlorobutadiene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
naphthalene	< 1000	1000	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
1,2,3-trichlorobenzene	< 400	400	ug/L	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	100	78-114	%	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
toluene-D8 SUR	101	88-110	%	200	LMM		0900800	4/11/09	15:56	SW5030B8260B
4-bromofluorobenzene SUR	98	86-115	%	200	LMM		0900800	4/11/09	15:56	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-015
Sample ID: GW-01
Matrix: Water
Sampled: 3/31/09 16:10

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
chloromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
vinyl chloride	**7300**	400	ug/L	200	AJD		0900798	4/12/09	0:27	SW5030B8260B
bromomethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
chloroethane	**260**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
trichlorofluoromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
diethyl ether	< 100	100	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
acetone	**1700** B	500	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,1-dichloroethene	**20**	10	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
methylene chloride	< 50	50	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
carbon disulfide	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
methyl t-butyl ether (MTBE)	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
trans-1,2-dichloroethene	**190**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,1-dichloroethane	**1100**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
2-butanone (MEK)	**6900**	100	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
2,2-dichloropropane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
cis-1,2-dichloroethene	**72000**	400	ug/L	200	AJD		0900798	4/12/09	0:27	SW5030B8260B
chloroform	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
bromochloromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
tetrahydrofuran (THF)	**920**	100	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,1,1-trichloroethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,1-dichloropropene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
carbon tetrachloride	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,2-dichloroethane	**30**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
benzene	**52**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
trichloroethene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,2-dichloropropane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
bromodichloromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
dibromomethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**6700**	100	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
cis-1,3-dichloropropene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
toluene	**8200**	400	ug/L	200	AJD		0900798	4/12/09	0:27	SW5030B8260B
trans-1,3-dichloropropene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
2-hexanone	**260**	100	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,1,2-trichloroethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,3-dichloropropane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
tetrachloroethene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
dibromochloromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,2-dibromoethane (EDB)	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
chlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,1,1,2-tetrachloroethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
ethylbenzene	**1300**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
m&p-xylenes	**3500**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
o-xylene	**1000**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-015
Sample ID: GW-01
Matrix: Water
Sampled: 3/31/09 16:10

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
styrene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
bromoform	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
isopropylbenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,1,2,2-tetrachloroethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,2,3-trichloropropane	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
n-propylbenzene	**23**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
bromobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,3,5-trimethylbenzene	**43**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
2-chlorotoluene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
4-chlorotoluene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
tert-butylbenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,2,4-trimethylbenzene	**140**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
sec-butylbenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,3-dichlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
4-isopropyltoluene	**53**	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,4-dichlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,2-dichlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
n-butylbenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,2,4-trichlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
hexachlorobutadiene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
naphthalene	< 50	50	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
1,2,3-trichlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	99	78-114	%	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
toluene-D8 SUR	103	88-110	%	10	LMM		0900798	4/9/09	7:05	SW5030B8260B
4-bromofluorobenzene SUR	97	86-115	%	10	LMM		0900798	4/9/09	7:05	SW5030B8260B

B = This analyte was detected in the method blank. No additional sample remained for re-analysis.

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-016
Sample ID: GW-02
Matrix: Water
Sampled: 3/31/09 14:10

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
chloromethane	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
vinyl chloride	**2200**	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
bromomethane	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
chloroethane	**980**	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
trichlorofluoromethane	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
diethyl ether	< 500	500	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
acetone	< 2500	2500	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
1,1-dichloroethene	< 50	50	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
methylene chloride	**2100**	250	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
carbon disulfide	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
methyl t-butyl ether (MTBE)	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
trans-1,2-dichloroethene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
1,1-dichloroethane	**3600**	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
2-butanone (MEK)	**3500**	500	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
2,2-dichloropropane	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
cis-1,2-dichloroethene	**19000**	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
chloroform	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
bromochloromethane	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
tetrahydrofuran (THF)	< 500	500	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
1,1,1-trichloroethane	**200**	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
1,1-dichloropropene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
carbon tetrachloride	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
1,2-dichloroethane	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
benzene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
trichloroethene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
1,2-dichloropropane	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
bromodichloromethane	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
dibromomethane	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**650**	500	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
cis-1,3-dichloropropene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
toluene	**23000**	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
trans-1,3-dichloropropene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
2-hexanone	< 500	500	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
1,1,2-trichloroethane	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
1,3-dichloropropane	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
tetrachloroethene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
dibromochloromethane	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
1,2-dibromoethane (EDB)	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
chlorobenzene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
1,1,1,2-tetrachloroethane	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
ethylbenzene	**950**	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
m&p-xylenes	**2500**	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
o-xylene	**740**	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-016
Sample ID: GW-02
Matrix: Water
Sampled: 3/31/09 14:10

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
styrene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
bromoform	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
isopropylbenzene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
1,1,2,2-tetrachloroethane	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
1,2,3-trichloropropane	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
n-propylbenzene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
bromobenzene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
1,3,5-trimethylbenzene	**130**	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
2-chlorotoluene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
4-chlorotoluene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
tert-butylbenzene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
1,2,4-trimethylbenzene	**550**	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
sec-butylbenzene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
1,3-dichlorobenzene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
4-isopropyltoluene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
1,4-dichlorobenzene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
1,2-dichlorobenzene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
n-butylbenzene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
1,2,4-trichlorobenzene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
hexachlorobutadiene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
naphthalene	< 250	250	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
1,2,3-trichlorobenzene	< 100	100	ug/L	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	98	78-114	%	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
toluene-D8 SUR	101	88-110	%	50	LMM		0900800	4/11/09	18:08	SW5030B8260B
4-bromofluorobenzene SUR	98	86-115	%	50	LMM		0900800	4/11/09	18:08	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-017
Sample ID: Trip Blank
Matrix: Water
Sampled: 4/1/09

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
diethyl ether	< 10	10	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
bromodichloromethane	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
chlorobenzene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
o-xylene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-017
Sample ID: Trip Blank
Matrix: Water
Sampled: 4/1/09

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
styrene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
hexachlorobutadiene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	94	78-114	%	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
toluene-D8 SUR	100	88-110	%	1	LMM		0900778	4/3/09	14:43	SW5030B8260B
4-bromofluorobenzene SUR	101	86-115	%	1	LMM		0900778	4/3/09	14:43	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-018
Sample ID: ew-01
Matrix: Water
Sampled: 4/1/09 10:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
chloromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
vinyl chloride	**1400**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
bromomethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
chloroethane	**3400**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
trichlorofluoromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
diethyl ether	< 100	100	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
acetone	< 500	500	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,1-dichloroethene	< 10	10	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
methylene chloride	**180** B	50	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
carbon disulfide	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
methyl t-butyl ether (MTBE)	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
trans-1,2-dichloroethene	**21**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,1-dichloroethane	**600**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
2-butanone (MEK)	**6000**	200	ug/L	20	AJD		0900798	4/12/09	1:32	SW5030B8260B
2,2-dichloropropane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
cis-1,2-dichloroethene	**2600**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
chloroform	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
bromochloromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
tetrahydrofuran (THF)	**6200**	100	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,1,1-trichloroethane	**75**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,1-dichloropropene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
carbon tetrachloride	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,2-dichloroethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
benzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
trichloroethene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,2-dichloropropane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
bromodichloromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
dibromomethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**150**	100	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
cis-1,3-dichloropropene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
toluene	**5500**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
trans-1,3-dichloropropene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
2-hexanone	< 100	100	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,1,2-trichloroethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,3-dichloropropane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
tetrachloroethene	**36**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
dibromochloromethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,2-dibromoethane (EDB)	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
chlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,1,1,2-tetrachloroethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
ethylbenzene	**410**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
m&p-xylenes	**1500**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
o-xylene	**540**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B

Project ID: 84411 Dover
Lab ID: 16383
Lab Number: 16383-018
Sample ID: ew-01
Matrix: Water
Sampled: 4/1/09 10:40

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
styrene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
bromoform	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
isopropylbenzene	**28**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,1,2,2-tetrachloroethane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,2,3-trichloropropane	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
n-propylbenzene	**30**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
bromobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,3,5-trimethylbenzene	**96**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
2-chlorotoluene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
4-chlorotoluene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
tert-butylbenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,2,4-trimethylbenzene	**270**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
sec-butylbenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,3-dichlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
4-isopropyltoluene	**24**	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,4-dichlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,2-dichlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
n-butylbenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,2,4-trichlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
hexachlorobutadiene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
naphthalene	< 50	50	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
1,2,3-trichlorobenzene	< 20	20	ug/L	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	90	78-114	%	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
toluene-D8 SUR	101	88-110	%	10	LMM		0900798	4/9/09	6:31	SW5030B8260B
4-bromofluorobenzene SUR	96	86-115	%	10	LMM		0900798	4/9/09	6:31	SW5030B8260B

B = This analyte was detected in the method blank. No additional sample remained for re-analysis.

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

16383

Company Name: XDD, LLC

Company Address: 22 Marin Way Stratham NH 03885

Report To: Dennis Keane

Phone #: 603-778-1100

Invoice To: Mary Sudiri

Project Name: Dover

Project #: 34411

Project Location: (NH) MA ME VT ___ Other

Protocol: (RCRA) MCP SDWA NHDES NPDES OTHER

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

Quote # ___

PO # ___

ANALYSIS REQUEST

☒ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP
☐ VOC 624 ☐ VOC BTEX ☐ MIBE, 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	Grab (G) or Composite (C)
16383-01	QS-02E	2	X			X						4/1/09	10:05	AG	X	
02	QS-16C	2	X			X						4/1/09	9:50	DK	X	
03	QS-04C	2	X			X						4/1/09	9:30	AG	X	
04	QS-04E	2	X			X						3/31/09	15:15	AG	X	
05	QS-06C	2	X			X						3/31/09	16:15	AG	X	
06	QS-15D	2	X			X						4/1/09	9:45	DK	X	
07	QS-15A	2	X			X						4/1/09	9:10	DK	X	
08	QS-25A	2	X			X						4/1/09	8:30	DK	X	
09	QS-13B	2	X			X						4/1/09	8:45	DK	X	
10	QS-16A	2	X			X						3/31/09	12:00	DK	X	
11	GW-3	2	X			X						3/31/09	14:30	AG	X	

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) ___ ☐ OTHER (specify) ___

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 15 °C

CUSTODY RECORD

Relinquished by:	Date	Time	Received by:	Date	Time
Sampler: [signature]	4/2/09	14:55	[signature]		
Relinquished by:			Received by:		
Relinquished by:			Received by Laboratory: [signature] Way Bill#:	4/2/09	14:55

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

16383

Company Name: XDD, LLC

Company Address: 22 Marin Way Stratham NH 03885

Report To: Dennis Keane

Phone #: 603 778-1100

Invoice To: Mary Scudeiri

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 # ___

ANALYSIS REQUEST

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER (Specify)	Sampling: DATE	TIME	SAMPLER*	☒ 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)
72	GS-27B	2	X			X						3/31/09	15:05	DK	X																								
73	GS-14A	2	X			X						3/31/09	10:45	AG	X																								
74	Dup-01	2	X			X						3/31/09	12:00	AG	X																								
75	GW-01	2	X			X						3/31/09	16:10	DK	X																								
76	GW-02	2	X			X						3/31/09	14:10	FK	X																								
77	TripBlank	~~2~~ 1	X			X						3/31/09	—	—	X																								
78	GW-01	2	X			X						4/1/09	10:10	AG	X																								

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) ___ ☐ OTHER (specify) ___

RECEIVED ON ICE ☒ YES ☐ NO
TEMPERATURE 15 °C

CUSTODY RECORD

Relinquished by Sampler:	Date	Time	Received by:	Date	Time
[signature]	4/2/09	14:55			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by Laboratory: Way Bill#: [signature]	4/2/09	14:55

AN ENVIRONMENTAL ANALYTICAL LABORATORY

4/28/2009
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Landfill
Project #:
Workorder #: 0904161R1

Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 4/8/2009 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

Bryanna Langley
Project Manager

WORK ORDER #: 0904161R1

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. #**	495
FAX:	603-778-2121	**PROJECT #**	Dover Landfill
DATE RECEIVED:	04/08/2009	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	04/20/2009		
DATE REISSUED:	04/28/2009		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SVE-05	Modified TO-15	1.0 "Hg	15 psi
02A	SVE-07	Modified TO-15	3.2 "Hg	15 psi
03A	SVE-09	Modified TO-15	3.2 "Hg	15 psi
04A	SVE-16	Modified TO-15	1.6 "Hg	15 psi
05A	SVE-18	Modified TO-15	3.0 "Hg	15 psi
06A	SVE-12	Modified TO-15	4.4 "Hg	15 psi
06AA	SVE-12 Lab Duplicate	Modified TO-15	4.4 "Hg	15 psi
07A	SVE-26	Modified TO-15	2.2 "Hg	15 psi
08A	Tolend RD	Modified TO-15	3.0 "Hg	15 psi
09A	Dup-02	Modified TO-15	2.0 "Hg	15 psi
10A	Lab Blank	Modified TO-15	NA	NA
10B	Lab Blank	Modified TO-15	NA	NA
10C	Lab Blank	Modified TO-15	NA	NA
11A	CCV	Modified TO-15	NA	NA
11B	CCV	Modified TO-15	NA	NA
11C	CCV	Modified TO-15	NA	NA
12A	LCS	Modified TO-15	NA	NA

Continued on next page

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0904161R1

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. #**	495
FAX:	603-778-2121	**PROJECT #**	Dover Landfill
DATE RECEIVED:	04/08/2009	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	04/20/2009		
DATE REISSUED:	04/28/2009		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
12B	LCS	Modified TO-15	NA	NA
12C	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda L. Freeman DATE: 04/28/09

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

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

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

LABORATORY NARRATIVE
Modified TO-15
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 0904161R1

Nine 1 Liter Summa Canister samples were received on April 08, 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 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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.

THE WORK ORDER WAS RE-ISSUED ON 4/28/09 TO REPORT ADDITIONAL COMPOUNDS PER CLIENT REQUEST. WHILE THE INITIAL REPORT MET THE LABORATORY DATA QUALITY REQUIREMENTS FOR THE ORIGINALLY REQUESTED COMPOUNDS, THE ADDITIONAL COMPOUNDS WERE NOT EVALUATED FOR QUALITY COMPLIANCE AT THE TIME OF SAMPLE ANALYSIS. AS A RESULT, THE RE-ISSUED REPORT CONTAINS QUALIFIED DATA FOR SEVERAL OF THE ADDED COMPOUNDS. THE SPECIFIC ANALYTICAL DISCREPANCIES ARE LISTED BELOW:

THE RECOVERY FOR METHYL TERT-BUTYL ETHER IN THE CCV FOR INSTRUMENT MSD-B

WAS OUTSIDE THE LABORATORY CONTROL LIMITS OF 70-130% (ACTUAL RECOVERY WAS 152%). ASSOCIATED SAMPLES ARE SVE-09, SVE-16, SVE-18, SVE-12 AND DUP-02.

THE INITIAL CALIBRATION FOR INSTRUMENT MSD-R DID NOT MEET ACCEPTANCE CRITERIA PER METHOD TO-15 SECTION 10.5.5.1. THE METHOD ALLOWS TWO COMPOUNDS TO EXCEED THE 30% RSD CRITERIA UP TO A LIMIT OF 40% HOWEVER, THREE COMPOUNDS WERE OUTSIDE THE ACCEPTANCE CRITERIA OF 30% RSD (BROMOMETHANE-34%, 1,2,4-TRICHLOROBENZENE-31% AND HEXACHLOROBUTADIENE-35%. ASSOCIATED SAMPLES ARE SVE-05, SVE-07 AND TOLEND RD.

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.

1,2,4-TRICHLOROBENZENE WAS DETECTED IN THE LABORATORY BLANK ANALYZED ON INSTRUMENT MSD-B AT LESS THAN 5X THE REPORTING LIMIT. ASSOCIATED SAMPLES HAD NO DETECTIONS FOR 1,2,4-TRICHLOROBENZENE.

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: SVE-05

Lab ID#: 0904161R1-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	30	58	150	290
Vinyl Chloride	30	10000	76	26000
Chloroethane	30	1400	79	3800
Freon 11	30	390	170	2200
Freon 113	30	710	230	5400
1,1-Dichloroethene	30	62	120	250
Hexane	30	520	100	1800
1,1-Dichloroethane	30	360	120	1500
2-Butanone (Methyl Ethyl Ketone)	30	500	88	1500
cis-1,2-Dichloroethene	30	240	120	930
Tetrahydrofuran	30	180	88	530
1,1,1-Trichloroethane	30	53	160	290
Cyclohexane	30	76	100	260
2,2,4-Trimethylpentane	30	86	140	400
Heptane	30	280	120	1200
Trichloroethene	30	37	160	200
Toluene	30	52	110	200

Client Sample ID: SVE-07

Lab ID#: 0904161R1-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	15	81	74	400
Freon 114	15	160	100	1100
Vinyl Chloride	15	2000	38	5000
Chloroethane	15	2900	40	7700
Freon 11	15	350	84	2000
Freon 113	15	180	120	1400
Acetone	60	130	140	310
Methylene Chloride	15	40	52	140
trans-1,2-Dichloroethene	15	16	60	65
Hexane	15	950	53	3400
1,1-Dichloroethane	15	1300	61	5300
2-Butanone (Methyl Ethyl Ketone)	15	180	44	520
cis-1,2-Dichloroethene	15	760	60	3000
Tetrahydrofuran	15	100	44	310
1,1,1-Trichloroethane	15	430	82	2400

Laboratory Services Since 1989

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

Client Sample ID: SVE-07

Lab ID#: 0904161R1-02A

Cyclohexane	15	400	52	1400
2,2,4-Trimethylpentane	15	250	70	1200
Benzene	15	90	48	290
Heptane	15	1000	62	4100
Trichloroethene	15	35	81	190
Toluene	15	5400	57	20000
Tetrachloroethene	15	46	100	310
Ethyl Benzene	15	610	65	2600
m,p-Xylene	15	1400	65	6200
o-Xylene	15	480	65	2100
Cumene	15	62	74	310
Propylbenzene	15	33	74	160
4-Ethyltoluene	15	180	74	860
1,3,5-Trimethylbenzene	15	120 J	74	590 J
1,2,4-Trimethylbenzene	15	120	74	600

Client Sample ID: SVE-09

Lab ID#: 0904161R1-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	560	2000	2800	10000
Vinyl Chloride	560	560000	1400	1400000
Chloroethane	560	6700 J	1500	18000 J
Freon 11	560	13000	3200	73000
Freon 113	560	19000	4300	150000
1,1-Dichloroethene	560	4900	2200	19000
Methylene Chloride	560	14000	2000	48000
trans-1,2-Dichloroethene	560	1100	2200	4200
Hexane	560	16000	2000	55000
1,1-Dichloroethane	560	34000	2300	140000
cis-1,2-Dichloroethene	560	290000	2200	1100000
1,1,1-Trichloroethane	560	22000	3100	120000
Cyclohexane	560	3600	1900	12000
2,2,4-Trimethylpentane	560	2300	2600	11000
Benzene	560	590	1800	1900
Heptane	560	11000	2300	46000
Trichloroethene	560	3300	3000	18000
Toluene	560	460000	2100	1700000
Tetrachloroethene	560	1100	3800	7300

Laboratory Services Since 1989

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

Client Sample ID: SVE-09

Lab ID#: 0904161R1-03A

Ethyl Benzene	560	25000	2400	110000
m,p-Xylene	560	30000	2400	130000
o-Xylene	560	4000	2400	17000

Client Sample ID: SVE-16

Lab ID#: 0904161R1-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	2700	550000	6800	1400000
Freon 11	2700	6800	15000	38000
1,1-Dichloroethene	2700	11000	10000	42000
Methylene Chloride	2700	350000	9200	1200000
trans-1,2-Dichloroethene	2700	9000	10000	36000
Hexane	2700	12000	9400	43000
1,1-Dichloroethane	2700	46000	11000	180000
2-Butanone (Methyl Ethyl Ketone)	2700	55000	7800	160000
cis-1,2-Dichloroethene	2700	2300000	10000	9200000
1,1,1-Trichloroethane	2700	5400	14000	30000
Cyclohexane	2700	4600	9200	16000
Heptane	2700	14000	11000	59000
Trichloroethene	2700	54000	14000	290000
4-Methyl-2-pentanone	2700	5500	11000	22000
Toluene	2700	290000	10000	1100000
Tetrachloroethene	2700	120000	18000	850000
Ethyl Benzene	2700	7900	12000	34000
m,p-Xylene	2700	15000	12000	67000
o-Xylene	2700	2900	12000	12000

Client Sample ID: SVE-18

Lab ID#: 0904161R1-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	110	1100	550	5700
Freon 114	110	130	780	910
Vinyl Chloride	110	21000	290	53000
Chloroethane	110	3300 J	300	8600 J
Freon 11	110	1500	630	8600
Carbon Disulfide	110	110	350	350

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: SVE-18

Lab ID#: 0904161R1-05A

Methylene Chloride	110	380	390	1300
Hexane	110	15000	390	53000
1,1-Dichloroethane	110	490	450	2000
2-Butanone (Methyl Ethyl Ketone)	110	650	330	1900
cis-1,2-Dichloroethene	110	20000	440	78000
Cyclohexane	110	2800	380	9700
Benzene	110	710	360	2300
Heptane	110	1900	460	7900
Trichloroethene	110	340	600	1800
Toluene	110	58000	420	220000
Tetrachloroethene	110	310	760	2100
Ethyl Benzene	110	9200	490	40000
m,p-Xylene	110	21000	490	92000
o-Xylene	110	6000	490	26000
Cumene	110	310	550	1500
Propylbenzene	110	200	550	1000
4-Ethyltoluene	110	490	550	2400
1,3,5-Trimethylbenzene	110	160	550	790
1,2,4-Trimethylbenzene	110	170	550	840

Client Sample ID: SVE-12

Lab ID#: 0904161R1-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	300	450	1500	2200
Vinyl Chloride	300	150000	760	380000
Chloroethane	300	6800 J	780	18000 J
Freon 11	300	1900	1700	11000
Freon 113	300	570	2300	4300
Hexane	300	1400	1000	5100
1,1-Dichloroethane	300	6700	1200	27000
2-Butanone (Methyl Ethyl Ketone)	300	310	870	900
cis-1,2-Dichloroethene	300	16000	1200	64000
1,1,1-Trichloroethane	300	1100	1600	6100
Cyclohexane	300	1600	1000	5400
Heptane	300	1200	1200	5100
Toluene	300	16000	1100	60000
m,p-Xylene	300	570	1300	2500

Laboratory Services Since 1989

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

Client Sample ID: SVE-12 Lab Duplicate

Lab ID#: 0904161R1-06AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	300	420	1500	2100
Vinyl Chloride	300	150000	760	380000
Chloroethane	300	7200 J	780	19000 J
Freon 11	300	1900	1700	11000
Freon 113	300	570	2300	4400
Hexane	300	1300	1000	4700
1,1-Dichloroethane	300	6700	1200	27000
cis-1,2-Dichloroethene	300	16000	1200	64000
1,1,1-Trichloroethane	300	1100	1600	6000
Cyclohexane	300	1600	1000	5400
Heptane	300	1300	1200	5400
Toluene	300	16000	1100	60000
m,p-Xylene	300	560	1300	2400

Client Sample ID: SVE-26

Lab ID#: 0904161R1-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	80	2.8	200
Acetone	4.4	6.4	10	15
Methylene Chloride	1.1	1.4	3.8	4.7
1,1-Dichloroethane	1.1	2.5	4.4	10
2-Butanone (Methyl Ethyl Ketone)	1.1	6.1	3.2	18
cis-1,2-Dichloroethene	1.1	230	4.3	930
Tetrahydrofuran	1.1	50	3.2	150
Benzene	1.1	18	3.5	57
Heptane	1.1	1.3	4.5	5.5
Toluene	1.1	79	4.1	300
Tetrachloroethene	1.1	2.5	7.4	17
Ethyl Benzene	1.1	6.1	4.7	26
m,p-Xylene	1.1	11	4.7	48
o-Xylene	1.1	2.1	4.7	9.3

Client Sample ID: Tolend RD

Lab ID#: 0904161R1-08A

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: Tolend RD

Lab ID#: 0904161R1-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	4.5	11	11	25
2-Butanone (Methyl Ethyl Ketone)	1.1	2.2	3.3	6.5

Client Sample ID: Dup-02

Lab ID#: 0904161R1-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	3000	580000	7700	1500000
Freon 11	3000	7400	17000	41000
1,1-Dichloroethene	3000	11000	12000	43000
Methylene Chloride	3000	340000	10000	1200000
trans-1,2-Dichloroethene	3000	9000	12000	36000
Hexane	3000	12000	10000	43000
1,1-Dichloroethane	3000	47000	12000	190000
2-Butanone (Methyl Ethyl Ketone)	3000	53000	8800	160000
cis-1,2-Dichloroethene	3000	2300000	12000	9200000
1,1,1-Trichloroethane	3000	6400	16000	35000
Cyclohexane	3000	4900	10000	17000
Heptane	3000	16000	12000	65000
Trichloroethene	3000	68000	16000	360000
4-Methyl-2-pentanone	3000	5100	12000	21000
Toluene	3000	340000	11000	1300000
Tetrachloroethene	3000	160000	20000	1000000
Ethyl Benzene	3000	11000	13000	50000
m,p-Xylene	3000	21000	13000	93000
o-Xylene	3000	4200	13000	18000

Air Toxics LTD.

Laboratory Services Since 1989

Client Sample ID: SVE-05

Lab ID#: 0904161R1-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**r041715r1**	**Date of Collection:**	**4/1/09 2:30:00 PM**
Dil. Factor:	**59.7**	**Date of Analysis:**	**4/17/09 07:17 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	30	58	150	290
Freon 114	30	Not Detected	210	Not Detected
Chloromethane	120	Not Detected	250	Not Detected
Vinyl Chloride	30	10000	76	26000
1,3-Butadiene	30	Not Detected	66	Not Detected
Bromomethane	30	Not Detected	120	Not Detected
Chloroethane	30	1400	79	3800
Freon 11	30	390	170	2200
Ethanol	120	Not Detected	220	Not Detected
Freon 113	30	710	230	5400
1,1-Dichloroethene	30	62	120	250
Acetone	120	Not Detected	280	Not Detected
2-Propanol	120	Not Detected	290	Not Detected
Carbon Disulfide	30	Not Detected	93	Not Detected
3-Chloropropene	120	Not Detected	370	Not Detected
Methylene Chloride	30	Not Detected	100	Not Detected
Methyl tert-butyl ether	30	Not Detected	110	Not Detected
trans-1,2-Dichloroethene	30	Not Detected	120	Not Detected
Hexane	30	520	100	1800
1,1-Dichloroethane	30	360	120	1500
2-Butanone (Methyl Ethyl Ketone)	30	500	88	1500
cis-1,2-Dichloroethene	30	240	120	930
Tetrahydrofuran	30	180	88	530
Chloroform	30	Not Detected	140	Not Detected
1,1,1-Trichloroethane	30	53	160	290
Cyclohexane	30	76	100	260
Carbon Tetrachloride	30	Not Detected	190	Not Detected
2,2,4-Trimethylpentane	30	86	140	400
Benzene	30	Not Detected	95	Not Detected
1,2-Dichloroethane	30	Not Detected	120	Not Detected
Heptane	30	280	120	1200
Trichloroethene	30	37	160	200
1,2-Dichloropropane	30	Not Detected	140	Not Detected
1,4-Dioxane	120	Not Detected	430	Not Detected
Bromodichloromethane	30	Not Detected	200	Not Detected
cis-1,3-Dichloropropene	30	Not Detected	140	Not Detected
4-Methyl-2-pentanone	30	Not Detected	120	Not Detected
Toluene	30	52	110	200
trans-1,3-Dichloropropene	30	Not Detected	140	Not Detected

Air Toxics LTD.

Laboratory Services Since 1989

Client Sample ID: SVE-05

Lab ID#: 0904161R1-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**r041715r1**	**Date of Collection:**	**4/1/09 2:30:00 PM**
Dil. Factor:	**59.7**	**Date of Analysis:**	**4/17/09 07:17 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	30	Not Detected	160	Not Detected
Tetrachloroethene	30	Not Detected	200	Not Detected
2-Hexanone	120	Not Detected	490	Not Detected
Dibromochloromethane	30	Not Detected	250	Not Detected
1,2-Dibromoethane (EDB)	30	Not Detected	230	Not Detected
Chlorobenzene	30	Not Detected	140	Not Detected
Ethyl Benzene	30	Not Detected	130	Not Detected
m,p-Xylene	30	Not Detected	130	Not Detected
o-Xylene	30	Not Detected	130	Not Detected
Styrene	30	Not Detected	130	Not Detected
Bromoform	30	Not Detected	310	Not Detected
Cumene	30	Not Detected	150	Not Detected
1,1,2,2-Tetrachloroethane	30	Not Detected	200	Not Detected
Propylbenzene	30	Not Detected	150	Not Detected
4-Ethyltoluene	30	Not Detected	150	Not Detected
1,3,5-Trimethylbenzene	30	Not Detected	150	Not Detected
1,2,4-Trimethylbenzene	30	Not Detected	150	Not Detected
1,3-Dichlorobenzene	30	Not Detected	180	Not Detected
1,4-Dichlorobenzene	30	Not Detected	180	Not Detected
alpha-Chlorotoluene	30	Not Detected	150	Not Detected
1,2-Dichlorobenzene	30	Not Detected	180	Not Detected
1,2,4-Trichlorobenzene	120	Not Detected	890	Not Detected
Hexachlorobutadiene	120	Not Detected	1300	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	115	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.

Laboratory Services Since 1989

Client Sample ID: SVE-07

Lab ID#: 0904161R1-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**r041719r1**	**Date of Collection:**	**4/1/09 3:00:00 PM**
Dil. Factor:	**30.1**	**Date of Analysis:**	**4/17/09 10:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	15	81	74	400
Freon 114	15	160	100	1100
Chloromethane	60	Not Detected	120	Not Detected
Vinyl Chloride	15	2000	38	5000
1,3-Butadiene	15	Not Detected	33	Not Detected
Bromomethane	15	Not Detected	58	Not Detected
Chloroethane	15	2900	40	7700
Freon 11	15	350	84	2000
Ethanol	60	Not Detected	110	Not Detected
Freon 113	15	180	120	1400
1,1-Dichloroethene	15	Not Detected	60	Not Detected
Acetone	60	130	140	310
2-Propanol	60	Not Detected	150	Not Detected
Carbon Disulfide	15	Not Detected	47	Not Detected
3-Chloropropene	60	Not Detected	190	Not Detected
Methylene Chloride	15	40	52	140
Methyl tert-butyl ether	15	Not Detected	54	Not Detected
trans-1,2-Dichloroethene	15	16	60	65
Hexane	15	950	53	3400
1,1-Dichloroethane	15	1300	61	5300
2-Butanone (Methyl Ethyl Ketone)	15	180	44	520
cis-1,2-Dichloroethene	15	760	60	3000
Tetrahydrofuran	15	100	44	310
Chloroform	15	Not Detected	73	Not Detected
1,1,1-Trichloroethane	15	430	82	2400
Cyclohexane	15	400	52	1400
Carbon Tetrachloride	15	Not Detected	95	Not Detected
2,2,4-Trimethylpentane	15	250	70	1200
Benzene	15	90	48	290
1,2-Dichloroethane	15	Not Detected	61	Not Detected
Heptane	15	1000	62	4100
Trichloroethene	15	35	81	190
1,2-Dichloropropane	15	Not Detected	70	Not Detected
1,4-Dioxane	60	Not Detected	220	Not Detected
Bromodichloromethane	15	Not Detected	100	Not Detected
cis-1,3-Dichloropropene	15	Not Detected	68	Not Detected
4-Methyl-2-pentanone	15	Not Detected	62	Not Detected
Toluene	15	5400	57	20000
trans-1,3-Dichloropropene	15	Not Detected	68	Not Detected

Air Toxics LTD.

Laboratory Services Since 1989

Client Sample ID: SVE-07

Lab ID#: 0904161R1-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**r041719r1**	**Date of Collection:**	**4/1/09 3:00:00 PM**
Dil. Factor:	**30.1**	**Date of Analysis:**	**4/17/09 10:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	15	Not Detected	82	Not Detected
Tetrachloroethene	15	46	100	310
2-Hexanone	60	Not Detected	250	Not Detected
Dibromochloromethane	15	Not Detected	130	Not Detected
1,2-Dibromoethane (EDB)	15	Not Detected	120	Not Detected
Chlorobenzene	15	Not Detected	69	Not Detected
Ethyl Benzene	15	610	65	2600
m,p-Xylene	15	1400	65	6200
o-Xylene	15	480	65	2100
Styrene	15	Not Detected	64	Not Detected
Bromoform	15	Not Detected	160	Not Detected
Cumene	15	62	74	310
1,1,2,2-Tetrachloroethane	15	Not Detected	100	Not Detected
Propylbenzene	15	33	74	160
4-Ethyltoluene	15	180	74	860
1,3,5-Trimethylbenzene	15	120 J	74	590 J
1,2,4-Trimethylbenzene	15	120	74	600
1,3-Dichlorobenzene	15	Not Detected	90	Not Detected
1,4-Dichlorobenzene	15	Not Detected	90	Not Detected
alpha-Chlorotoluene	15	Not Detected	78	Not Detected
1,2-Dichlorobenzene	15	Not Detected	90	Not Detected
1,2,4-Trichlorobenzene	60	Not Detected	450	Not Detected
Hexachlorobutadiene	60	Not Detected	640	Not Detected

J = Estimated value due to bias in the CCV.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	108	70-130

Laboratory Services Since 1989

Client Sample ID: SVE-09

Lab ID#: 0904161R1-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b041511r1**	**Date of Collection:**	**4/1/09 3:15:00 PM**
Dil. Factor:	**113**	**Date of Analysis:**	**4/15/09 04:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	560	2000	2800	10000
Freon 114	560	Not Detected	3900	Not Detected
Chloromethane	2300	Not Detected	4700	Not Detected
Vinyl Chloride	560	560000	1400	1400000
1,3-Butadiene	560	Not Detected	1200	Not Detected
Bromomethane	560	Not Detected	2200	Not Detected
Chloroethane	560	6700 J	1500	18000 J
Freon 11	560	13000	3200	73000
Ethanol	2300	Not Detected	4200	Not Detected
Freon 113	560	19000	4300	150000
1,1-Dichloroethene	560	4900	2200	19000
Acetone	2300	Not Detected	5400	Not Detected
2-Propanol	2300	Not Detected	5600	Not Detected
Carbon Disulfide	560	Not Detected	1800	Not Detected
3-Chloropropene	2300	Not Detected	7100	Not Detected
Methylene Chloride	560	14000	2000	48000
Methyl tert-butyl ether	560	Not Detected	2000	Not Detected
trans-1,2-Dichloroethene	560	1100	2200	4200
Hexane	560	16000	2000	55000
1,1-Dichloroethane	560	34000	2300	140000
2-Butanone (Methyl Ethyl Ketone)	560	Not Detected	1700	Not Detected
cis-1,2-Dichloroethene	560	290000	2200	1100000
Tetrahydrofuran	560	Not Detected	1700	Not Detected
Chloroform	560	Not Detected	2800	Not Detected
1,1,1-Trichloroethane	560	22000	3100	120000
Cyclohexane	560	3600	1900	12000
Carbon Tetrachloride	560	Not Detected	3600	Not Detected
2,2,4-Trimethylpentane	560	2300	2600	11000
Benzene	560	590	1800	1900
1,2-Dichloroethane	560	Not Detected	2300	Not Detected
Heptane	560	11000	2300	46000
Trichloroethene	560	3300	3000	18000
1,2-Dichloropropane	560	Not Detected	2600	Not Detected
1,4-Dioxane	2300	Not Detected	8100	Not Detected
Bromodichloromethane	560	Not Detected	3800	Not Detected
cis-1,3-Dichloropropene	560	Not Detected	2600	Not Detected
4-Methyl-2-pentanone	560	Not Detected	2300	Not Detected
Toluene	560	460000	2100	1700000
trans-1,3-Dichloropropene	560	Not Detected	2600	Not Detected

Laboratory Services Since 1989

Client Sample ID: SVE-09

Lab ID#: 0904161R1-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b041511r1**	**Date of Collection:**	**4/1/09 3:15:00 PM**
Dil. Factor:	**113**	**Date of Analysis:**	**4/15/09 04:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	560	Not Detected	3100	Not Detected
Tetrachloroethene	560	1100	3800	7300
2-Hexanone	2300	Not Detected	9200	Not Detected
Dibromochloromethane	560	Not Detected	4800	Not Detected
1,2-Dibromoethane (EDB)	560	Not Detected	4300	Not Detected
Chlorobenzene	560	Not Detected	2600	Not Detected
Ethyl Benzene	560	25000	2400	110000
m,p-Xylene	560	30000	2400	130000
o-Xylene	560	4000	2400	17000
Styrene	560	Not Detected	2400	Not Detected
Bromoform	560	Not Detected	5800	Not Detected
Cumene	560	Not Detected	2800	Not Detected
1,1,2,2-Tetrachloroethane	560	Not Detected	3900	Not Detected
Propylbenzene	560	Not Detected	2800	Not Detected
4-Ethyltoluene	560	Not Detected	2800	Not Detected
1,3,5-Trimethylbenzene	560	Not Detected	2800	Not Detected
1,2,4-Trimethylbenzene	560	Not Detected	2800	Not Detected
1,3-Dichlorobenzene	560	Not Detected	3400	Not Detected
1,4-Dichlorobenzene	560	Not Detected	3400	Not Detected
alpha-Chlorotoluene	560	Not Detected	2900	Not Detected
1,2-Dichlorobenzene	560	Not Detected	3400	Not Detected
1,2,4-Trichlorobenzene	2300	Not Detected	17000	Not Detected
Hexachlorobutadiene	2300	Not Detected	24000	Not Detected

J = Estimated value due to bias in the CCV.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.

Laboratory Services Since 1989

Client Sample ID: SVE-16

Lab ID#: 0904161R1-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b041510r1**	**Date of Collection:**	**4/1/09 3:30:00 PM**
Dil. Factor:	**532**	**Date of Analysis:**	**4/15/09 04:28 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2700	Not Detected	13000	Not Detected
Freon 114	2700	Not Detected	18000	Not Detected
Chloromethane	11000	Not Detected	22000	Not Detected
Vinyl Chloride	2700	550000	6800	1400000
1,3-Butadiene	2700	Not Detected	5900	Not Detected
Bromomethane	2700	Not Detected	10000	Not Detected
Chloroethane	2700	Not Detected	7000	Not Detected
Freon 11	2700	6800	15000	38000
Ethanol	11000	Not Detected	20000	Not Detected
Freon 113	2700	Not Detected	20000	Not Detected
1,1-Dichloroethene	2700	11000	10000	42000
Acetone	11000	Not Detected	25000	Not Detected
2-Propanol	11000	Not Detected	26000	Not Detected
Carbon Disulfide	2700	Not Detected	8300	Not Detected
3-Chloropropene	11000	Not Detected	33000	Not Detected
Methylene Chloride	2700	350000	9200	1200000
Methyl tert-butyl ether	2700	Not Detected	9600	Not Detected
trans-1,2-Dichloroethene	2700	9000	10000	36000
Hexane	2700	12000	9400	43000
1,1-Dichloroethane	2700	46000	11000	180000
2-Butanone (Methyl Ethyl Ketone)	2700	55000	7800	160000
cis-1,2-Dichloroethene	2700	2300000	10000	9200000
Tetrahydrofuran	2700	Not Detected	7800	Not Detected
Chloroform	2700	Not Detected	13000	Not Detected
1,1,1-Trichloroethane	2700	5400	14000	30000
Cyclohexane	2700	4600	9200	16000
Carbon Tetrachloride	2700	Not Detected	17000	Not Detected
2,2,4-Trimethylpentane	2700	Not Detected	12000	Not Detected
Benzene	2700	Not Detected	8500	Not Detected
1,2-Dichloroethane	2700	Not Detected	11000	Not Detected
Heptane	2700	14000	11000	59000
Trichloroethene	2700	54000	14000	290000
1,2-Dichloropropane	2700	Not Detected	12000	Not Detected
1,4-Dioxane	11000	Not Detected	38000	Not Detected
Bromodichloromethane	2700	Not Detected	18000	Not Detected
cis-1,3-Dichloropropene	2700	Not Detected	12000	Not Detected
4-Methyl-2-pentanone	2700	5500	11000	22000
Toluene	2700	290000	10000	1100000
trans-1,3-Dichloropropene	2700	Not Detected	12000	Not Detected

Air Toxics LTD.

Laboratory Services Since 1989

Client Sample ID: SVE-16

Lab ID#: 0904161R1-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b041510r1**	**Date of Collection:**	**4/1/09 3:30:00 PM**
Dil. Factor:	**532**	**Date of Analysis:**	**4/15/09 04:28 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	2700	Not Detected	14000	Not Detected
Tetrachloroethene	2700	120000	18000	850000
2-Hexanone	11000	Not Detected	44000	Not Detected
Dibromochloromethane	2700	Not Detected	23000	Not Detected
1,2-Dibromoethane (EDB)	2700	Not Detected	20000	Not Detected
Chlorobenzene	2700	Not Detected	12000	Not Detected
Ethyl Benzene	2700	7900	12000	34000
m,p-Xylene	2700	15000	12000	67000
o-Xylene	2700	2900	12000	12000
Styrene	2700	Not Detected	11000	Not Detected
Bromoform	2700	Not Detected	27000	Not Detected
Cumene	2700	Not Detected	13000	Not Detected
1,1,2,2-Tetrachloroethane	2700	Not Detected	18000	Not Detected
Propylbenzene	2700	Not Detected	13000	Not Detected
4-Ethyltoluene	2700	Not Detected	13000	Not Detected
1,3,5-Trimethylbenzene	2700	Not Detected	13000	Not Detected
1,2,4-Trimethylbenzene	2700	Not Detected	13000	Not Detected
1,3-Dichlorobenzene	2700	Not Detected	16000	Not Detected
1,4-Dichlorobenzene	2700	Not Detected	16000	Not Detected
alpha-Chlorotoluene	2700	Not Detected	14000	Not Detected
1,2-Dichlorobenzene	2700	Not Detected	16000	Not Detected
1,2,4-Trichlorobenzene	11000	Not Detected	79000	Not Detected
Hexachlorobutadiene	11000	Not Detected	110000	Not Detected

Container Type: 1 Liter Summa Canister

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

Air Toxics LTD.

Laboratory Services Since 1989

Client Sample ID: SVE-18

Lab ID#: 0904161R1-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b041512r1**	**Date of Collection:**	**4/1/09 3:45:00 PM**
Dil. Factor:	**22.4**	**Date of Analysis:**	**4/15/09 05:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	110	1100	550	5700
Freon 114	110	130	780	910
Chloromethane	450	Not Detected	920	Not Detected
Vinyl Chloride	110	21000	290	53000
1,3-Butadiene	110	Not Detected	250	Not Detected
Bromomethane	110	Not Detected	430	Not Detected
Chloroethane	110	3300 J	300	8600 J
Freon 11	110	1500	630	8600
Ethanol	450	Not Detected	840	Not Detected
Freon 113	110	Not Detected	860	Not Detected
1,1-Dichloroethene	110	Not Detected	440	Not Detected
Acetone	450	Not Detected	1100	Not Detected
2-Propanol	450	Not Detected	1100	Not Detected
Carbon Disulfide	110	110	350	350
3-Chloropropene	450	Not Detected	1400	Not Detected
Methylene Chloride	110	380	390	1300
Methyl tert-butyl ether	110	Not Detected	400	Not Detected
trans-1,2-Dichloroethene	110	Not Detected	440	Not Detected
Hexane	110	15000	390	53000
1,1-Dichloroethane	110	490	450	2000
2-Butanone (Methyl Ethyl Ketone)	110	650	330	1900
cis-1,2-Dichloroethene	110	20000	440	78000
Tetrahydrofuran	110	Not Detected	330	Not Detected
Chloroform	110	Not Detected	550	Not Detected
1,1,1-Trichloroethane	110	Not Detected	610	Not Detected
Cyclohexane	110	2800	380	9700
Carbon Tetrachloride	110	Not Detected	700	Not Detected
2,2,4-Trimethylpentane	110	Not Detected	520	Not Detected
Benzene	110	710	360	2300
1,2-Dichloroethane	110	Not Detected	450	Not Detected
Heptane	110	1900	460	7900
Trichloroethene	110	340	600	1800
1,2-Dichloropropane	110	Not Detected	520	Not Detected
1,4-Dioxane	450	Not Detected	1600	Not Detected
Bromodichloromethane	110	Not Detected	750	Not Detected
cis-1,3-Dichloropropene	110	Not Detected	510	Not Detected
4-Methyl-2-pentanone	110	Not Detected	460	Not Detected
Toluene	110	58000	420	220000
trans-1,3-Dichloropropene	110	Not Detected	510	Not Detected

Air Toxics LTD.

Laboratory Services Since 1989

Client Sample ID: SVE-18

Lab ID#: 0904161R1-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b041512r1**	**Date of Collection:**	**4/1/09 3:45:00 PM**
Dil. Factor:	**22.4**	**Date of Analysis:**	**4/15/09 05:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	110	Not Detected	610	Not Detected
Tetrachloroethene	110	310	760	2100
2-Hexanone	450	Not Detected	1800	Not Detected
Dibromochloromethane	110	Not Detected	950	Not Detected
1,2-Dibromoethane (EDB)	110	Not Detected	860	Not Detected
Chlorobenzene	110	Not Detected	520	Not Detected
Ethyl Benzene	110	9200	490	40000
m,p-Xylene	110	21000	490	92000
o-Xylene	110	6000	490	26000
Styrene	110	Not Detected	480	Not Detected
Bromoform	110	Not Detected	1200	Not Detected
Cumene	110	310	550	1500
1,1,2,2-Tetrachloroethane	110	Not Detected	770	Not Detected
Propylbenzene	110	200	550	1000
4-Ethyltoluene	110	490	550	2400
1,3,5-Trimethylbenzene	110	160	550	790
1,2,4-Trimethylbenzene	110	170	550	840
1,3-Dichlorobenzene	110	Not Detected	670	Not Detected
1,4-Dichlorobenzene	110	Not Detected	670	Not Detected
alpha-Chlorotoluene	110	Not Detected	580	Not Detected
1,2-Dichlorobenzene	110	Not Detected	670	Not Detected
1,2,4-Trichlorobenzene	450	Not Detected	3300	Not Detected
Hexachlorobutadiene	450	Not Detected	4800	Not Detected

J = Estimated value due to bias in the CCV.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.

Laboratory Services Since 1989

Client Sample ID: SVE-12

Lab ID#: 0904161R1-06A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b041515r1**	**Date of Collection:**	**4/1/09 2:45:00 PM**
Dil. Factor:	**59.2**	**Date of Analysis:**	**4/15/09 09:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	300	450	1500	2200
Freon 114	300	Not Detected	2100	Not Detected
Chloromethane	1200	Not Detected	2400	Not Detected
Vinyl Chloride	300	150000	760	380000
1,3-Butadiene	300	Not Detected	650	Not Detected
Bromomethane	300	Not Detected	1100	Not Detected
Chloroethane	300	6800 J	780	18000 J
Freon 11	300	1900	1700	11000
Ethanol	1200	Not Detected	2200	Not Detected
Freon 113	300	570	2300	4300
1,1-Dichloroethene	300	Not Detected	1200	Not Detected
Acetone	1200	Not Detected	2800	Not Detected
2-Propanol	1200	Not Detected	2900	Not Detected
Carbon Disulfide	300	Not Detected	920	Not Detected
3-Chloropropene	1200	Not Detected	3700	Not Detected
Methylene Chloride	300	Not Detected	1000	Not Detected
Methyl tert-butyl ether	300	Not Detected	1100	Not Detected
trans-1,2-Dichloroethene	300	Not Detected	1200	Not Detected
Hexane	300	1400	1000	5100
1,1-Dichloroethane	300	6700	1200	27000
2-Butanone (Methyl Ethyl Ketone)	300	310	870	900
cis-1,2-Dichloroethene	300	16000	1200	64000
Tetrahydrofuran	300	Not Detected	870	Not Detected
Chloroform	300	Not Detected	1400	Not Detected
1,1,1-Trichloroethane	300	1100	1600	6100
Cyclohexane	300	1600	1000	5400
Carbon Tetrachloride	300	Not Detected	1900	Not Detected
2,2,4-Trimethylpentane	300	Not Detected	1400	Not Detected
Benzene	300	Not Detected	940	Not Detected
1,2-Dichloroethane	300	Not Detected	1200	Not Detected
Heptane	300	1200	1200	5100
Trichloroethene	300	Not Detected	1600	Not Detected
1,2-Dichloropropane	300	Not Detected	1400	Not Detected
1,4-Dioxane	1200	Not Detected	4300	Not Detected
Bromodichloromethane	300	Not Detected	2000	Not Detected
cis-1,3-Dichloropropene	300	Not Detected	1300	Not Detected
4-Methyl-2-pentanone	300	Not Detected	1200	Not Detected
Toluene	300	16000	1100	60000
trans-1,3-Dichloropropene	300	Not Detected	1300	Not Detected

Air Toxics LTD.

Laboratory Services Since 1989

Client Sample ID: SVE-12

Lab ID#: 0904161R1-06A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b041515r1**	**Date of Collection:**	**4/1/09 2:45:00 PM**
Dil. Factor:	**59.2**	**Date of Analysis:**	**4/15/09 09:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	300	Not Detected	1600	Not Detected
Tetrachloroethene	300	Not Detected	2000	Not Detected
2-Hexanone	1200	Not Detected	4800	Not Detected
Dibromochloromethane	300	Not Detected	2500	Not Detected
1,2-Dibromoethane (EDB)	300	Not Detected	2300	Not Detected
Chlorobenzene	300	Not Detected	1400	Not Detected
Ethyl Benzene	300	Not Detected	1300	Not Detected
m,p-Xylene	300	570	1300	2500
o-Xylene	300	Not Detected	1300	Not Detected
Styrene	300	Not Detected	1300	Not Detected
Bromoform	300	Not Detected	3100	Not Detected
Cumene	300	Not Detected	1400	Not Detected
1,1,2,2-Tetrachloroethane	300	Not Detected	2000	Not Detected
Propylbenzene	300	Not Detected	1400	Not Detected
4-Ethyltoluene	300	Not Detected	1400	Not Detected
1,3,5-Trimethylbenzene	300	Not Detected	1400	Not Detected
1,2,4-Trimethylbenzene	300	Not Detected	1400	Not Detected
1,3-Dichlorobenzene	300	Not Detected	1800	Not Detected
1,4-Dichlorobenzene	300	Not Detected	1800	Not Detected
alpha-Chlorotoluene	300	Not Detected	1500	Not Detected
1,2-Dichlorobenzene	300	Not Detected	1800	Not Detected
1,2,4-Trichlorobenzene	1200	Not Detected	8800	Not Detected
Hexachlorobutadiene	1200	Not Detected	13000	Not Detected

J = Estimated value due to bias in the CCV.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.

Laboratory Services Since 1989

Client Sample ID: SVE-12 Lab Duplicate

Lab ID#: 0904161R1-06AA

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b041516r1**	**Date of Collection:**	**4/1/09 2:45:00 PM**
Dil. Factor:	**59.2**	**Date of Analysis:**	**4/15/09 10:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	300	420	1500	2100
Freon 114	300	Not Detected	2100	Not Detected
Chloromethane	1200	Not Detected	2400	Not Detected
Vinyl Chloride	300	150000	760	380000
1,3-Butadiene	300	Not Detected	650	Not Detected
Bromomethane	300	Not Detected	1100	Not Detected
Chloroethane	300	7200 J	780	19000 J
Freon 11	300	1900	1700	11000
Ethanol	1200	Not Detected	2200	Not Detected
Freon 113	300	570	2300	4400
1,1-Dichloroethene	300	Not Detected	1200	Not Detected
Acetone	1200	Not Detected	2800	Not Detected
2-Propanol	1200	Not Detected	2900	Not Detected
Carbon Disulfide	300	Not Detected	920	Not Detected
3-Chloropropene	1200	Not Detected	3700	Not Detected
Methylene Chloride	300	Not Detected	1000	Not Detected
Methyl tert-butyl ether	300	Not Detected	1100	Not Detected
trans-1,2-Dichloroethene	300	Not Detected	1200	Not Detected
Hexane	300	1300	1000	4700
1,1-Dichloroethane	300	6700	1200	27000
2-Butanone (Methyl Ethyl Ketone)	300	Not Detected	870	Not Detected
cis-1,2-Dichloroethene	300	16000	1200	64000
Tetrahydrofuran	300	Not Detected	870	Not Detected
Chloroform	300	Not Detected	1400	Not Detected
1,1,1-Trichloroethane	300	1100	1600	6000
Cyclohexane	300	1600	1000	5400
Carbon Tetrachloride	300	Not Detected	1900	Not Detected
2,2,4-Trimethylpentane	300	Not Detected	1400	Not Detected
Benzene	300	Not Detected	940	Not Detected
1,2-Dichloroethane	300	Not Detected	1200	Not Detected
Heptane	300	1300	1200	5400
Trichloroethene	300	Not Detected	1600	Not Detected
1,2-Dichloropropane	300	Not Detected	1400	Not Detected
1,4-Dioxane	1200	Not Detected	4300	Not Detected
Bromodichloromethane	300	Not Detected	2000	Not Detected
cis-1,3-Dichloropropene	300	Not Detected	1300	Not Detected
4-Methyl-2-pentanone	300	Not Detected	1200	Not Detected
Toluene	300	16000	1100	60000
trans-1,3-Dichloropropene	300	Not Detected	1300	Not Detected

Air Toxics LTD.

Laboratory Services Since 1989

Client Sample ID: SVE-12 Lab Duplicate

Lab ID#: 0904161R1-06AA

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b041516r1**	**Date of Collection:**	**4/1/09 2:45:00 PM**
Dil. Factor:	**59.2**	**Date of Analysis:**	**4/15/09 10:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	300	Not Detected	1600	Not Detected
Tetrachloroethene	300	Not Detected	2000	Not Detected
2-Hexanone	1200	Not Detected	4800	Not Detected
Dibromochloromethane	300	Not Detected	2500	Not Detected
1,2-Dibromoethane (EDB)	300	Not Detected	2300	Not Detected
Chlorobenzene	300	Not Detected	1400	Not Detected
Ethyl Benzene	300	Not Detected	1300	Not Detected
m,p-Xylene	300	560	1300	2400
o-Xylene	300	Not Detected	1300	Not Detected
Styrene	300	Not Detected	1300	Not Detected
Bromoform	300	Not Detected	3100	Not Detected
Cumene	300	Not Detected	1400	Not Detected
1,1,2,2-Tetrachloroethane	300	Not Detected	2000	Not Detected
Propylbenzene	300	Not Detected	1400	Not Detected
4-Ethyltoluene	300	Not Detected	1400	Not Detected
1,3,5-Trimethylbenzene	300	Not Detected	1400	Not Detected
1,2,4-Trimethylbenzene	300	Not Detected	1400	Not Detected
1,3-Dichlorobenzene	300	Not Detected	1800	Not Detected
1,4-Dichlorobenzene	300	Not Detected	1800	Not Detected
alpha-Chlorotoluene	300	Not Detected	1500	Not Detected
1,2-Dichlorobenzene	300	Not Detected	1800	Not Detected
1,2,4-Trichlorobenzene	1200	Not Detected	8800	Not Detected
Hexachlorobutadiene	1200	Not Detected	13000	Not Detected

J = Estimated value due to bias in the CCV.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.

Laboratory Services Since 1989

Client Sample ID: SVE-26

Lab ID#: 0904161R1-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7041509r1**	**Date of Collection:**	**4/1/09 4:00:00 PM**
Dil. Factor:	**2.18**	**Date of Analysis:**	**4/15/09 03:05 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.4	Not Detected
Freon 114	1.1	Not Detected	7.6	Not Detected
Chloromethane	4.4	Not Detected	9.0	Not Detected
Vinyl Chloride	1.1	80	2.8	200
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Bromomethane	1.1	Not Detected	4.2	Not Detected
Chloroethane	1.1	Not Detected	2.9	Not Detected
Freon 11	1.1	Not Detected	6.1	Not Detected
Ethanol	4.4	Not Detected	8.2	Not Detected
Freon 113	1.1	Not Detected	8.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Acetone	4.4	6.4	10	15
2-Propanol	4.4	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.4	Not Detected
3-Chloropropene	4.4	Not Detected	14	Not Detected
Methylene Chloride	1.1	1.4	3.8	4.7
Methyl tert-butyl ether	1.1	Not Detected	3.9	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Hexane	1.1	Not Detected	3.8	Not Detected
1,1-Dichloroethane	1.1	2.5	4.4	10
2-Butanone (Methyl Ethyl Ketone)	1.1	6.1	3.2	18
cis-1,2-Dichloroethene	1.1	230	4.3	930
Tetrahydrofuran	1.1	50	3.2	150
Chloroform	1.1	Not Detected	5.3	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.8	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.1	Not Detected
Benzene	1.1	18	3.5	57
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	1.3	4.5	5.5
Trichloroethene	1.1	Not Detected	5.8	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.0	Not Detected
1,4-Dioxane	4.4	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.3	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.5	Not Detected
Toluene	1.1	79	4.1	300
trans-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected

Air Toxics LTD.

Laboratory Services Since 1989

Client Sample ID: SVE-26

Lab ID#: 0904161R1-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7041509r1**	**Date of Collection:**	**4/1/09 4:00:00 PM**
Dil. Factor:	**2.18**	**Date of Analysis:**	**4/15/09 03:05 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Tetrachloroethene	1.1	2.5	7.4	17
2-Hexanone	4.4	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.3	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.4	Not Detected
Chlorobenzene	1.1	Not Detected	5.0	Not Detected
Ethyl Benzene	1.1	6.1	4.7	26
m,p-Xylene	1.1	11	4.7	48
o-Xylene	1.1	2.1	4.7	9.3
Styrene	1.1	Not Detected	4.6	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.4	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.5	Not Detected
Propylbenzene	1.1	Not Detected	5.4	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.6	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	32	Not Detected
Hexachlorobutadiene	4.4	Not Detected	46	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	99	70-130

Laboratory Services Since 1989

Client Sample ID: Tolend RD

Lab ID#: 0904161R1-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**r041720r1**	**Date of Collection:**	**4/1/09 4:30:00 PM**
Dil. Factor:	**2.24**	**Date of Analysis:**	**4/18/09 08:02 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 114	1.1	Not Detected	7.8	Not Detected
Chloromethane	4.5	Not Detected	9.2	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	Not Detected	8.4	Not Detected
Freon 113	1.1	Not Detected	8.6	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.5	11	11	25
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	1.1	Not Detected	3.5	Not Detected
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.9	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	Not Detected	3.9	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	2.2	3.3	6.5
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.3	Not Detected
Chloroform	1.1	Not Detected	5.5	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Heptane	1.1	Not Detected	4.6	Not Detected
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.6	Not Detected
Toluene	1.1	Not Detected	4.2	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected

Air Toxics LTD.

Laboratory Services Since 1989

Client Sample ID: Tolend RD

Lab ID#: 0904161R1-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**r041720r1**	**Date of Collection:**	**4/1/09 4:30:00 PM**
Dil. Factor:	**2.24**	**Date of Analysis:**	**4/18/09 08:02 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected
2-Hexanone	4.5	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	Not Detected	4.9	Not Detected
m,p-Xylene	1.1	Not Detected	4.9	Not Detected
o-Xylene	1.1	Not Detected	4.9	Not Detected
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.5	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	113	70-130
4-Bromofluorobenzene	108	70-130

Laboratory Services Since 1989

Client Sample ID: Dup-02

Lab ID#: 0904161R1-09A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b041509r1**	**Date of Collection:**	**4/1/09 12:00:00 PM**
Dil. Factor:	**600**	**Date of Analysis:**	**4/15/09 03:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3000	Not Detected	15000	Not Detected
Freon 114	3000	Not Detected	21000	Not Detected
Chloromethane	12000	Not Detected	25000	Not Detected
Vinyl Chloride	3000	580000	7700	1500000
1,3-Butadiene	3000	Not Detected	6600	Not Detected
Bromomethane	3000	Not Detected	12000	Not Detected
Chloroethane	3000	Not Detected	7900	Not Detected
Freon 11	3000	7400	17000	41000
Ethanol	12000	Not Detected	23000	Not Detected
Freon 113	3000	Not Detected	23000	Not Detected
1,1-Dichloroethene	3000	11000	12000	43000
Acetone	12000	Not Detected	28000	Not Detected
2-Propanol	12000	Not Detected	29000	Not Detected
Carbon Disulfide	3000	Not Detected	9300	Not Detected
3-Chloropropene	12000	Not Detected	38000	Not Detected
Methylene Chloride	3000	340000	10000	1200000
Methyl tert-butyl ether	3000	Not Detected	11000	Not Detected
trans-1,2-Dichloroethene	3000	9000	12000	36000
Hexane	3000	12000	10000	43000
1,1-Dichloroethane	3000	47000	12000	190000
2-Butanone (Methyl Ethyl Ketone)	3000	53000	8800	160000
cis-1,2-Dichloroethene	3000	2300000	12000	9200000
Tetrahydrofuran	3000	Not Detected	8800	Not Detected
Chloroform	3000	Not Detected	15000	Not Detected
1,1,1-Trichloroethane	3000	6400	16000	35000
Cyclohexane	3000	4900	10000	17000
Carbon Tetrachloride	3000	Not Detected	19000	Not Detected
2,2,4-Trimethylpentane	3000	Not Detected	14000	Not Detected
Benzene	3000	Not Detected	9600	Not Detected
1,2-Dichloroethane	3000	Not Detected	12000	Not Detected
Heptane	3000	16000	12000	65000
Trichloroethene	3000	68000	16000	360000
1,2-Dichloropropane	3000	Not Detected	14000	Not Detected
1,4-Dioxane	12000	Not Detected	43000	Not Detected
Bromodichloromethane	3000	Not Detected	20000	Not Detected
cis-1,3-Dichloropropene	3000	Not Detected	14000	Not Detected
4-Methyl-2-pentanone	3000	5100	12000	21000
Toluene	3000	340000	11000	1300000
trans-1,3-Dichloropropene	3000	Not Detected	14000	Not Detected

Air Toxics LTD.

Laboratory Services Since 1989

Client Sample ID: Dup-02

Lab ID#: 0904161R1-09A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b041509r1**	**Date of Collection:**	**4/1/09 12:00:00 PM**
Dil. Factor:	**600**	**Date of Analysis:**	**4/15/09 03:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	3000	Not Detected	16000	Not Detected
Tetrachloroethene	3000	160000	20000	1000000
2-Hexanone	12000	Not Detected	49000	Not Detected
Dibromochloromethane	3000	Not Detected	26000	Not Detected
1,2-Dibromoethane (EDB)	3000	Not Detected	23000	Not Detected
Chlorobenzene	3000	Not Detected	14000	Not Detected
Ethyl Benzene	3000	11000	13000	50000
m,p-Xylene	3000	21000	13000	93000
o-Xylene	3000	4200	13000	18000
Styrene	3000	Not Detected	13000	Not Detected
Bromoform	3000	Not Detected	31000	Not Detected
Cumene	3000	Not Detected	15000	Not Detected
1,1,2,2-Tetrachloroethane	3000	Not Detected	20000	Not Detected
Propylbenzene	3000	Not Detected	15000	Not Detected
4-Ethyltoluene	3000	Not Detected	15000	Not Detected
1,3,5-Trimethylbenzene	3000	Not Detected	15000	Not Detected
1,2,4-Trimethylbenzene	3000	Not Detected	15000	Not Detected
1,3-Dichlorobenzene	3000	Not Detected	18000	Not Detected
1,4-Dichlorobenzene	3000	Not Detected	18000	Not Detected
alpha-Chlorotoluene	3000	Not Detected	16000	Not Detected
1,2-Dichlorobenzene	3000	Not Detected	18000	Not Detected
1,2,4-Trichlorobenzene	12000	Not Detected	89000	Not Detected
Hexachlorobutadiene	12000	Not Detected	130000	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	97	70-130

Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0904161R1-10A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b041506R1**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/15/09 12:40 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

Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0904161R1-10A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b041506R1**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/15/09 12:40 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	20	150	140
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

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

Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0904161R1-10B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7041508**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/15/09 02:12 PM**	

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

Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0904161R1-10B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7041508**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/15/09 02:12 PM**	

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	99	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	98	70-130

Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0904161R1-10C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**r041704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/09 10:20 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

Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0904161R1-10C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**r041704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/09 10:20 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	96	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.

Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0904161R1-11A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b041504R1**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/15/09 11:02 AM**	

Compound	%Recovery
Freon 12	116
Freon 114	108
Chloromethane	115
Vinyl Chloride	112
1,3-Butadiene	112
Bromomethane	117
Chloroethane	132 Q
Freon 11	110
Ethanol	106
Freon 113	109
1,1-Dichloroethene	113
Acetone	103
2-Propanol	106
Carbon Disulfide	109
3-Chloropropene	106
Methylene Chloride	116
Methyl tert-butyl ether	152 Q
trans-1,2-Dichloroethene	109
Hexane	113
1,1-Dichloroethane	110
2-Butanone (Methyl Ethyl Ketone)	110
cis-1,2-Dichloroethene	108
Tetrahydrofuran	115
Chloroform	108
1,1,1-Trichloroethane	108
Cyclohexane	111
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	113
Benzene	114
1,2-Dichloroethane	114
Heptane	116
Trichloroethene	109
1,2-Dichloropropane	110
1,4-Dioxane	108
Bromodichloromethane	111
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	110
Toluene	109
trans-1,3-Dichloropropene	108

Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0904161R1-11A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b041504R1**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/15/09 11:02 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	112
Tetrachloroethene	112
2-Hexanone	108
Dibromochloromethane	111
1,2-Dibromoethane (EDB)	109
Chlorobenzene	108
Ethyl Benzene	110
m,p-Xylene	111
o-Xylene	109
Styrene	108
Bromoform	113
Cumene	109
1,1,2,2-Tetrachloroethane	108
Propylbenzene	107
4-Ethyltoluene	111
1,3,5-Trimethylbenzene	111
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	100
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	124
Hexachlorobutadiene	119

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130

Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0904161R1-11B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7041502**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/15/09 09:12 AM**

Compound	%Recovery
Freon 12	102
Freon 114	105
Chloromethane	102
Vinyl Chloride	104
1,3-Butadiene	102
Bromomethane	94
Chloroethane	104
Freon 11	99
Ethanol	106
Freon 113	102
1,1-Dichloroethene	104
Acetone	103
2-Propanol	105
Carbon Disulfide	101
3-Chloropropene	104
Methylene Chloride	101
Methyl tert-butyl ether	110
trans-1,2-Dichloroethene	103
Hexane	107
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	108
cis-1,2-Dichloroethene	104
Tetrahydrofuran	107
Chloroform	95
1,1,1-Trichloroethane	99
Cyclohexane	108
Carbon Tetrachloride	97
2,2,4-Trimethylpentane	108
Benzene	94
1,2-Dichloroethane	97
Heptane	107
Trichloroethene	101
1,2-Dichloropropane	100
1,4-Dioxane	104
Bromodichloromethane	98
cis-1,3-Dichloropropene	108
4-Methyl-2-pentanone	116
Toluene	100
trans-1,3-Dichloropropene	105

Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0904161R1-11B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7041502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/15/09 09:12 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	95
Tetrachloroethene	98
2-Hexanone	108
Dibromochloromethane	97
1,2-Dibromoethane (EDB)	94
Chlorobenzene	92
Ethyl Benzene	100
m,p-Xylene	102
o-Xylene	103
Styrene	105
Bromoform	95
Cumene	98
1,1,2,2-Tetrachloroethane	89
Propylbenzene	96
4-Ethyltoluene	97
1,3,5-Trimethylbenzene	90
1,2,4-Trimethylbenzene	97
1,3-Dichlorobenzene	89
1,4-Dichlorobenzene	91
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	90
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	99

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	101	70-130

Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0904161R1-11C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**r041702**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/09 08:53 AM**

Compound	%Recovery
Freon 12	103
Freon 114	107
Chloromethane	104
Vinyl Chloride	98
1,3-Butadiene	110
Bromomethane	94
Chloroethane	106
Freon 11	104
Ethanol	106
Freon 113	102
1,1-Dichloroethene	102
Acetone	95
2-Propanol	101
Carbon Disulfide	95
3-Chloropropene	95
Methylene Chloride	97
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	92
Hexane	95
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	97
Tetrahydrofuran	94
Chloroform	102
1,1,1-Trichloroethane	103
Cyclohexane	95
Carbon Tetrachloride	106
2,2,4-Trimethylpentane	96
Benzene	92
1,2-Dichloroethane	103
Heptane	94
Trichloroethene	97
1,2-Dichloropropane	92
1,4-Dioxane	91
Bromodichloromethane	105
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	101
Toluene	92
trans-1,3-Dichloropropene	101

Air Toxics LTD.

Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0904161R1-11C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**r041702**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/09 08:53 AM**

Compound	**%Recovery**
1,1,2-Trichloroethane	95
Tetrachloroethene	95
2-Hexanone	91
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	103
Chlorobenzene	93
Ethyl Benzene	92
m,p-Xylene	94
o-Xylene	92
Styrene	102
Bromoform	109
Cumene	96
1,1,2,2-Tetrachloroethane	92
Propylbenzene	94
4-Ethyltoluene	76
1,3,5-Trimethylbenzene	134 Q
1,2,4-Trimethylbenzene	99
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	98
1,2,4-Trichlorobenzene	99
Hexachlorobutadiene	99

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.

Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0904161R1-12A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b041505R1**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/15/09 11:46 AM**	

Compound	%Recovery
Freon 12	111
Freon 114	108
Chloromethane	111
Vinyl Chloride	112
1,3-Butadiene	107
Bromomethane	134 Q
Chloroethane	137 Q
Freon 11	112
Ethanol	87
Freon 113	112
1,1-Dichloroethene	115
Acetone	104
2-Propanol	120
Carbon Disulfide	103
3-Chloropropene	102
Methylene Chloride	115
Methyl tert-butyl ether	122
trans-1,2-Dichloroethene	101
Hexane	102
1,1-Dichloroethane	114
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	113
Tetrahydrofuran	106
Chloroform	111
1,1,1-Trichloroethane	111
Cyclohexane	101
Carbon Tetrachloride	109
2,2,4-Trimethylpentane	103
Benzene	114
1,2-Dichloroethane	114
Heptane	102
Trichloroethene	112
1,2-Dichloropropane	113
1,4-Dioxane	98
Bromodichloromethane	103
cis-1,3-Dichloropropene	116
4-Methyl-2-pentanone	103
Toluene	112
trans-1,3-Dichloropropene	116

Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0904161R1-12A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b041505R1**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/15/09 11:46 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	114
Tetrachloroethene	113
2-Hexanone	102
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	113
Chlorobenzene	111
Ethyl Benzene	113
m,p-Xylene	114
o-Xylene	113
Styrene	117
Bromoform	110
Cumene	112
1,1,2,2-Tetrachloroethane	111
Propylbenzene	98
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	114
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	118
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	87
Hexachlorobutadiene	90

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	98	70-130

Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0904161R1-12B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7041503**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/15/09 09:58 AM**

Compound	%Recovery
Freon 12	102
Freon 114	98
Chloromethane	96
Vinyl Chloride	99
1,3-Butadiene	96
Bromomethane	90
Chloroethane	100
Freon 11	98
Ethanol	78
Freon 113	113
1,1-Dichloroethene	118
Acetone	106
2-Propanol	110
Carbon Disulfide	101
3-Chloropropene	108
Methylene Chloride	110
Methyl tert-butyl ether	112
trans-1,2-Dichloroethene	104
Hexane	110
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	113
cis-1,2-Dichloroethene	114
Tetrahydrofuran	109
Chloroform	98
1,1,1-Trichloroethane	102
Cyclohexane	109
Carbon Tetrachloride	99
2,2,4-Trimethylpentane	111
Benzene	95
1,2-Dichloroethane	99
Heptane	109
Trichloroethene	102
1,2-Dichloropropane	101
1,4-Dioxane	106
Bromodichloromethane	101
cis-1,3-Dichloropropene	108
4-Methyl-2-pentanone	119
Toluene	106
trans-1,3-Dichloropropene	104

Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0904161R1-12B

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7041503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/15/09 09:58 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	93
Tetrachloroethene	97
2-Hexanone	106
Dibromochloromethane	97
1,2-Dibromoethane (EDB)	91
Chlorobenzene	91
Ethyl Benzene	98
m,p-Xylene	100
o-Xylene	103
Styrene	105
Bromoform	95
Cumene	102
1,1,2,2-Tetrachloroethane	88
Propylbenzene	100
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	90
1,2,4-Trimethylbenzene	99
1,3-Dichlorobenzene	90
1,4-Dichlorobenzene	90
alpha-Chlorotoluene	107
1,2-Dichlorobenzene	90
1,2,4-Trichlorobenzene	115
Hexachlorobutadiene	104

Container Type: NA - Not Applicable

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

Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0904161R1-12C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**r041703**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/09 09:26 AM**

Compound	%Recovery
Freon 12	97
Freon 114	98
Chloromethane	102
Vinyl Chloride	92
1,3-Butadiene	96
Bromomethane	90
Chloroethane	101
Freon 11	99
Ethanol	74
Freon 113	112
1,1-Dichloroethene	111
Acetone	98
2-Propanol	104
Carbon Disulfide	96
3-Chloropropene	99
Methylene Chloride	102
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	92
Hexane	96
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	104
Tetrahydrofuran	95
Chloroform	103
1,1,1-Trichloroethane	103
Cyclohexane	96
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	95
Benzene	92
1,2-Dichloroethane	100
Heptane	94
Trichloroethene	95
1,2-Dichloropropane	92
1,4-Dioxane	90
Bromodichloromethane	104
cis-1,3-Dichloropropene	99
4-Methyl-2-pentanone	101
Toluene	94
trans-1,3-Dichloropropene	100

Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0904161R1-12C

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**r041703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/17/09 09:26 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	94
Tetrachloroethene	96
2-Hexanone	92
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	99
Chlorobenzene	92
Ethyl Benzene	89
m,p-Xylene	91
o-Xylene	91
Styrene	101
Bromoform	108
Cumene	96
1,1,2,2-Tetrachloroethane	90
Propylbenzene	92
4-Ethyltoluene	75
1,3,5-Trimethylbenzene	128
1,2,4-Trimethylbenzene	95
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	95
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	92
1,2,4-Trichlorobenzene	94
Hexachlorobutadiene	91

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	104	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

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. Freeman 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

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

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

LABORATORY NARRATIVE
Modified TO-15
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

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

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. Freeman 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

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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

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

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

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. Freeman 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

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

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

LABORATORY NARRATIVE
Modified TO-15
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

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

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 L. Freeman

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

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

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

LABORATORY NARRATIVE
Modified TO-15 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

8/4/2009
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

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. Freeman 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

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

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

LABORATORY NARRATIVE
Modified TO-15 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

Bryanna Langley
Project Manager

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 .FAX (916) 985-1020
Hours 6:30 A.M to 5:30 PST

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 J. Freeman

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

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

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

LABORATORY NARRATIVE
Modified TO-15 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

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

(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	Batch	Analysis Date	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	Batch	Analysis Date	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	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	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	Batch	Analysis Date	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	Batch	Analysis Date	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	Batch	Analysis Date	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	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

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RL Resource Laboratories, LLC

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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) MCP SDWA NHDES NPDES OTHER

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

Quote # ____

PO # 1500

ANALYSIS REQUEST

Lab Sample ID (Lab Use Only)	Field ID	# CONTAINERS	Matrix: WATER	Matrix: SOLID	Matrix: OTHER	Preservation Method: HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER (Specify)	Sampling: DATE	TIME	SAMPLER*	☒ VOC 8260 ☐ VOC 8260 NHDES ☐ VOC 8260 MADEP	☐ VOC 624 ☐ VOC BTEX ☐ MBE, only	☐ VPH MADEP ☐ MEGRO ☐ GRO 8015	☐ VOC 524.2 ☐ VOC 524.2 NH List	☐ TPH ☐ DRO 8015 ☐ MEGRO ☐ 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)
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																								

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

Project ID: Dover Landfill 84411
Lab ID: 17900
Lab Number: 17900-001
Sample ID: Carbon Inf.
Matrix: Water
Sampled: 10/22/09 12:08

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
chloromethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
vinyl chloride	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
bromomethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
chloroethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
trichlorofluoromethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
diethyl ether	< 25	25	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
acetone	**370**	250	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,1-dichloroethene	< 5	5	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
methylene chloride	**1100**	25	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
carbon disulfide	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
methyl t-butyl ether (MTBE)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
trans-1,2-dichloroethene	**12**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
isopropyl ether (DIPE)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,1-dichloroethane	**120**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
t-butanol (TBA)	< 150	150	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
2-butanone (MEK)	**1100**	50	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
2,2-dichloropropane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
cis-1,2-dichloroethene	**2800**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
chloroform	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
bromochloromethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
tetrahydrofuran (THF)	**210**	50	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,1,1-trichloroethane	**110**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,1-dichloropropene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
t-amyl-methyl ether (TAME)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
carbon tetrachloride	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,2-dichloroethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
benzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
trichloroethene	**180**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,2-dichloropropane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
bromodichloromethane	< 3.0	3.0	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,4-dioxane	**540**	250	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
dibromomethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**780**	50	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
cis-1,3-dichloropropene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
toluene	**2400**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
trans-1,3-dichloropropene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
2-hexanone	< 50	50	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,1,2-trichloroethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,3-dichloropropane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
tetrachloroethene	**1600**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
dibromochloromethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,2-dibromoethane (EDB)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 17900
Lab Number: 17900-001
Sample ID: Carbon Inf.
Matrix: Water
Sampled: 10/22/09 12:08

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,1,1,2-tetrachloroethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
ethylbenzene	**160**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
m&p-xylenes	**680**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
o-xylene	**450**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
styrene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
bromoform	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
isopropylbenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,1,2,2-tetrachloroethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,2,3-trichloropropane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
n-propylbenzene	**11**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
bromobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,3,5-trimethylbenzene	**74**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
2-chlorotoluene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
4-chlorotoluene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
tert-butylbenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,2,4-trimethylbenzene	**150**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
sec-butylbenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,3-dichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
4-isopropyltoluene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,4-dichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,2-dichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
n-butylbenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,2,4-trichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,3,5-trichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
hexachlorobutadiene	< 2.5	2.5	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
naphthalene	< 25	25	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,2,3-trichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	100	78-114	%	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
toluene-D8 SUR	104	88-110	%	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
4-bromofluorobenzene SUR	95	86-115	%	5	LMM		0902974	10/30/09	19:14	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 17900
Lab Number: 17900-002
Sample ID: Carbon Eff.
Matrix: Water
Sampled: 10/22/09 12:04

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
t-butanol (TBA)	< 30	30	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,4-dioxane	< 50	50	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 17900
Lab Number: 17900-002
Sample ID: Carbon Eff.
Matrix: Water
Sampled: 10/22/09 12:04

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
o-xylene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	102	78-114	%	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
toluene-D8 SUR	103	88-110	%	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
4-bromofluorobenzene SUR	92	86-115	%	1	LMM		0902974	10/30/09	13:35	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 17900
Lab Number: 17900-003
Sample ID: DUP-01
Matrix: Water
Sampled: 10/22/09 12:12

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
chloromethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
vinyl chloride	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
bromomethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
chloroethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
trichlorofluoromethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
diethyl ether	< 25	25	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
acetone	**400**	250	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,1-dichloroethene	< 5	5	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
methylene chloride	**1100**	25	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
carbon disulfide	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
methyl t-butyl ether (MTBE)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
trans-1,2-dichloroethene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
isopropyl ether (DIPE)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,1-dichloroethane	**120**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
t-butanol (TBA)	< 150	150	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
2-butanone (MEK)	**1100**	50	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
2,2-dichloropropane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
cis-1,2-dichloroethene	**2900**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
chloroform	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
bromochloromethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
tetrahydrofuran (THF)	**220**	50	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,1,1-trichloroethane	**110**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,1-dichloropropene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
t-amyl-methyl ether (TAME)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
carbon tetrachloride	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,2-dichloroethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
benzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
trichloroethene	**190**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,2-dichloropropane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
bromodichloromethane	< 3.0	3.0	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,4-dioxane	**560**	250	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
dibromomethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**810**	50	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
cis-1,3-dichloropropene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
toluene	**2400**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
trans-1,3-dichloropropene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
2-hexanone	< 50	50	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,1,2-trichloroethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,3-dichloropropane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
tetrachloroethene	**1700**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
dibromochloromethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,2-dibromoethane (EDB)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 17900
Lab Number: 17900-003
Sample ID: DUP-01
Matrix: Water
Sampled: 10/22/09 12:12

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,1,1,2-tetrachloroethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
ethylbenzene	**170**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
m&p-xylenes	**730**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
o-xylene	**490**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
styrene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
bromoform	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
isopropylbenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,1,2,2-tetrachloroethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,2,3-trichloropropane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
n-propylbenzene	**12**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
bromobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,3,5-trimethylbenzene	**82**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
2-chlorotoluene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
4-chlorotoluene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
tert-butylbenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,2,4-trimethylbenzene	**150**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
sec-butylbenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,3-dichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
4-isopropyltoluene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,4-dichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,2-dichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
n-butylbenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,2,4-trichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,3,5-trichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
hexachlorobutadiene	< 2.5	2.5	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
naphthalene	< 25	25	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,2,3-trichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	99	78-114	%	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
toluene-D8 SUR	103	88-110	%	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
4-bromofluorobenzene SUR	99	86-115	%	5	LMM		0902974	10/30/09	19:48	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 17900
Lab Number: 17900-004
Sample ID: Trip Blank
Matrix: Water
Sampled: 10/22/09

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
t-butanol (TBA)	< 30	30	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,4-dioxane	< 50	50	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 17900
Lab Number: 17900-004
Sample ID: Trip Blank
Matrix: Water
Sampled: 10/22/09

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
o-xylene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	102	78-114	%	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
toluene-D8 SUR	102	88-110	%	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
4-bromofluorobenzene SUR	90	86-115	%	1	LMM		0902974	10/30/09	11:55	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

17900

Company Name: XDD, LLC

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

Report To: Dennis Keane

Phone #: 603-778-1100

Invoice To: Mary Scuderi

Project Name: Dover Landfill

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 Standard

Quote #

PO #

ANALYSIS REQUEST

☒ VOC 8260 NHDES ☐ VOC 8260 MADEP ☐ VOC 8260 ☐ 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 NHDES	VOC 8260	Grab (G) or Composite (C)
17900-01	Carbon Inf.	2	X			X						10/22/09	1208	JH	X		
-02	Carbon Eff.	2	X			X						10/22/09	1204	JH	X		
-03	DUP-01	2	X			X						10/22/09	1212	JH	X		
-04	Trip Blank	1	X			X						10/16/09	—	—	X		

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 4 °C

CUSTODY RECORD

Relinquished by Sampler:	Date	Time	Received by:	Date	Time
[signature]	10/23/09	13:10	—		
Relinquished by: —	Date	Time	Received by: —	Date	Time
Relinquished by: —	Date	Time	Received by Laboratory: Way Bill#: [signature]	10-23-09	13:10

Air Toxics LTD.
Laboratory Services Since 1989

11/4/2009
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Landfill
Project #: 84411
Workorder #: 0910543

Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 10/23/2009 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

Bryanna Langley
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0910543

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. #**	1530
FAX:	603-778-2121	**PROJECT #**	84411 Dover Landfill
DATE RECEIVED:	10/23/2009	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	11/04/2009		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SVE STACK 102209	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. Freeman

DATE: 11/04/09

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: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

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

LABORATORY NARRATIVE
Modified TO-15 Soil Gas
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 0910543

One 1 Liter Tedlar Bag sample was received on October 23, 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

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

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 STACK 102209

Lab ID#: 0910543-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1000	2400	2600	6100
Methylene Chloride	1000	19000	3500	66000
1,1-Dichloroethane	1000	4400	4000	18000
cis-1,2-Dichloroethene	1000	70000	4000	280000
1,1,1-Trichloroethane	1000	8200	5400	45000
2,2,4-Trimethylpentane	1000	2700	4700	12000
Heptane	1000	1600	4100	6400
Trichloroethene	1000	8400	5400	45000
Toluene	1000	100000	3800	390000
Tetrachloroethene	1000	120000	6800	800000
Ethyl Benzene	1000	9000	4300	39000
m,p-Xylene	1000	35000	4300	150000
o-Xylene	1000	12000	4300	51000
4-Ethyltoluene	1000	5800	4900	29000
1,3,5-Trimethylbenzene	1000	2500	4900	12000
1,2,4-Trimethylbenzene	1000	4600	4900	23000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVE STACK 102209

Lab ID#: 0910543-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b102408**	**Date of Collection:**	**10/22/09 11:40:00 A**
Dil. Factor:	**200**	**Date of Analysis:**	**10/24/09 10:41 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	2400	2600	6100
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	Not Detected	5600	Not Detected
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	19000	3500	66000
Methyl tert-butyl ether	1000	Not Detected	3600	Not Detected
trans-1,2-Dichloroethene	1000	Not Detected	4000	Not Detected
Hexane	1000	Not Detected	3500	Not Detected
1,1-Dichloroethane	1000	4400	4000	18000
2-Butanone (Methyl Ethyl Ketone)	1000	Not Detected	2900	Not Detected
cis-1,2-Dichloroethene	1000	70000	4000	280000
Tetrahydrofuran	1000	Not Detected	2900	Not Detected
Chloroform	1000	Not Detected	4900	Not Detected
1,1,1-Trichloroethane	1000	8200	5400	45000
Cyclohexane	1000	Not Detected	3400	Not Detected
Carbon Tetrachloride	1000	Not Detected	6300	Not Detected
2,2,4-Trimethylpentane	1000	2700	4700	12000
Benzene	1000	Not Detected	3200	Not Detected
1,2-Dichloroethane	1000	Not Detected	4000	Not Detected
Heptane	1000	1600	4100	6400
Trichloroethene	1000	8400	5400	45000
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	100000	3800	390000
trans-1,3-Dichloropropene	1000	Not Detected	4500	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVE STACK 102209

Lab ID#: 0910543-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b102408**	**Date of Collection:**	**10/22/09 11:40:00 A**
Dil. Factor:	**200**	**Date of Analysis:**	**10/24/09 10:41 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	120000	6800	800000
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	9000	4300	39000
m,p-Xylene	1000	35000	4300	150000
o-Xylene	1000	12000	4300	51000
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	Not Detected	4900	Not Detected
4-Ethyltoluene	1000	5800	4900	29000
1,3,5-Trimethylbenzene	1000	2500	4900	12000
1,2,4-Trimethylbenzene	1000	4600	4900	23000
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	83	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0910543-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b102405a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/09 09:17 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#: 0910543-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b102405a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/09 09:17 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	84	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0910543-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b102402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/09 07:46 PM**	

Compound	%Recovery
Freon 12	91
Freon 114	99
Chloromethane	94
Vinyl Chloride	98
1,3-Butadiene	96
Bromomethane	94
Chloroethane	115
Freon 11	84
Ethanol	97
Freon 113	97
1,1-Dichloroethene	90
Acetone	96
2-Propanol	95
Carbon Disulfide	101
3-Chloropropene	109
Methylene Chloride	92
Methyl tert-butyl ether	130
trans-1,2-Dichloroethene	100
Hexane	97
1,1-Dichloroethane	95
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	93
Tetrahydrofuran	94
Chloroform	89
1,1,1-Trichloroethane	85
Cyclohexane	98
Carbon Tetrachloride	86
2,2,4-Trimethylpentane	96
Benzene	101
1,2-Dichloroethane	86
Heptane	100
Trichloroethene	94
1,2-Dichloropropane	99
1,4-Dioxane	100
Bromodichloromethane	91
cis-1,3-Dichloropropene	97
4-Methyl-2-pentanone	96
Toluene	97
trans-1,3-Dichloropropene	95

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0910543-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b102402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/09 07:46 PM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	99
Tetrachloroethene	96
2-Hexanone	98
Dibromochloromethane	96
1,2-Dibromoethane (EDB)	99
Chlorobenzene	100
Ethyl Benzene	102
m,p-Xylene	102
o-Xylene	102
Styrene	105
Bromoform	97
Cumene	99
1,1,2,2-Tetrachloroethane	99
Propylbenzene	98
4-Ethyltoluene	94
1,3,5-Trimethylbenzene	91
1,2,4-Trimethylbenzene	95
1,3-Dichlorobenzene	92
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	90
1,2-Dichlorobenzene	92
1,2,4-Trichlorobenzene	81
Hexachlorobutadiene	72

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	82	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0910543-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b102404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/09 08:44 PM**	

Compound	%Recovery
Freon 12	98
Freon 114	105
Chloromethane	100
Vinyl Chloride	104
1,3-Butadiene	100
Bromomethane	102
Chloroethane	119
Freon 11	88
Ethanol	76
Freon 113	115
1,1-Dichloroethene	109
Acetone	105
2-Propanol	109
Carbon Disulfide	106
3-Chloropropene	114
Methylene Chloride	109
Methyl tert-butyl ether	125
trans-1,2-Dichloroethene	108
Hexane	106
1,1-Dichloroethane	108
2-Butanone (Methyl Ethyl Ketone)	109
cis-1,2-Dichloroethene	102
Tetrahydrofuran	101
Chloroform	99
1,1,1-Trichloroethane	92
Cyclohexane	106
Carbon Tetrachloride	91
2,2,4-Trimethylpentane	106
Benzene	110
1,2-Dichloroethane	92
Heptane	106
Trichloroethene	99
1,2-Dichloropropane	103
1,4-Dioxane	102
Bromodichloromethane	94
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	98
Toluene	107
trans-1,3-Dichloropropene	95

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0910543-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b102404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/09 08:44 PM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	106
Tetrachloroethene	103
2-Hexanone	99
Dibromochloromethane	98
1,2-Dibromoethane (EDB)	98
Chlorobenzene	103
Ethyl Benzene	103
m,p-Xylene	104
o-Xylene	102
Styrene	97
Bromoform	93
Cumene	100
1,1,2,2-Tetrachloroethane	98
Propylbenzene	97
4-Ethyltoluene	93
1,3,5-Trimethylbenzene	90
1,2,4-Trimethylbenzene	91
1,3-Dichlorobenzene	88
1,4-Dichlorobenzene	91
alpha-Chlorotoluene	79
1,2-Dichlorobenzene	86
1,2,4-Trichlorobenzene	62 Q
Hexachlorobutadiene	60 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	85	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

11/4/2009
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Landfill
Project #: 84411
Workorder #: 0910570

Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 10/24/2009 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 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

Bryanna Langley
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0910570

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. #**	1530
FAX:	603-778-2121	**PROJECT #**	84411 Dover Landfill
DATE RECEIVED:	10/24/2009	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	11/04/2009		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	Tolend Road 10/22/09	Modified TO-15	10.5 "Hg	5 psi
02A	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda L. Freeman DATE: 11/04/09

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: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

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

LABORATORY NARRATIVE
Modified TO-15
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 0910570

One 6 Liter Summa Canister sample was received on October 24, 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

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

Client Sample ID: Tolend Road 10/22/09

Lab ID#: 0910570-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	4.1	15	7.8	28
Acetone	4.1	8.9	9.8	21
2-Propanol	4.1	7.4	10	18
2-Butanone (Methyl Ethyl Ketone)	1.0	3.0	3.0	8.7
Tetrahydrofuran	1.0	1.1	3.0	3.1
Toluene	1.0	1.2	3.9	4.5

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Tolend Road 10/22/09

Lab ID#: 0910570-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s110117**	**Date of Collection:**	**10/22/09 1:11:00 PM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**11/1/09 07:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.0	Not Detected	5.1	Not Detected
Freon 114	1.0	Not Detected	7.2	Not Detected
Chloromethane	4.1	Not Detected	8.5	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
Bromomethane	1.0	Not Detected	4.0	Not Detected
Chloroethane	1.0	Not Detected	2.7	Not Detected
Freon 11	1.0	Not Detected	5.8	Not Detected
Ethanol	4.1	15	7.8	28
Freon 113	1.0	Not Detected	7.9	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.1	Not Detected
Acetone	4.1	8.9	9.8	21
2-Propanol	4.1	7.4	10	18
Carbon Disulfide	1.0	Not Detected	3.2	Not Detected
3-Chloropropene	4.1	Not Detected	13	Not Detected
Methylene Chloride	1.0	Not Detected	3.6	Not Detected
Methyl tert-butyl ether	1.0	Not Detected	3.7	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
Hexane	1.0	Not Detected	3.6	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.0	3.0	3.0	8.7
cis-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
Tetrahydrofuran	1.0	1.1	3.0	3.1
Chloroform	1.0	Not Detected	5.0	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.6	Not Detected
Cyclohexane	1.0	Not Detected	3.5	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.5	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.8	Not Detected
Benzene	1.0	Not Detected	3.3	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
Heptane	1.0	Not Detected	4.2	Not Detected
Trichloroethene	1.0	Not Detected	5.5	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,4-Dioxane	4.1	Not Detected	15	Not Detected
Bromodichloromethane	1.0	Not Detected	6.9	Not Detected
cis-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.2	Not Detected
Toluene	1.0	1.2	3.9	4.5
trans-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Tolend Road 10/22/09

Lab ID#: 0910570-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s110117**	**Date of Collection:**	**10/22/09 1:11:00 PM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**11/1/09 07:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1.0	Not Detected	5.6	Not Detected
Tetrachloroethene	1.0	Not Detected	7.0	Not Detected
2-Hexanone	4.1	Not Detected	17	Not Detected
Dibromochloromethane	1.0	Not Detected	8.8	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.9	Not Detected
Chlorobenzene	1.0	Not Detected	4.7	Not Detected
Ethyl Benzene	1.0	Not Detected	4.5	Not Detected
m,p-Xylene	1.0	Not Detected	4.5	Not Detected
o-Xylene	1.0	Not Detected	4.5	Not Detected
Styrene	1.0	Not Detected	4.4	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
Cumene	1.0	Not Detected	5.1	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.1	Not Detected
Propylbenzene	1.0	Not Detected	5.1	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.1	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.3	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected	30	Not Detected
Hexachlorobutadiene	4.1	Not Detected	44	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0910570-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s110105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/09 10:14 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#: 0910570-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s110105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/09 10:14 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	103	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0910570-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s110102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/09 08:08 AM**	

Compound	%Recovery
Freon 12	98
Freon 114	100
Chloromethane	104
Vinyl Chloride	103
1,3-Butadiene	98
Bromomethane	84
Chloroethane	97
Freon 11	98
Ethanol	104
Freon 113	102
1,1-Dichloroethene	105
Acetone	104
2-Propanol	103
Carbon Disulfide	105
3-Chloropropene	102
Methylene Chloride	103
Methyl tert-butyl ether	99
trans-1,2-Dichloroethene	101
Hexane	106
1,1-Dichloroethane	103
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	105
Tetrahydrofuran	104
Chloroform	102
1,1,1-Trichloroethane	100
Cyclohexane	103
Carbon Tetrachloride	101
2,2,4-Trimethylpentane	111
Benzene	96
1,2-Dichloroethane	95
Heptane	105
Trichloroethene	97
1,2-Dichloropropane	96
1,4-Dioxane	95
Bromodichloromethane	97
cis-1,3-Dichloropropene	108
4-Methyl-2-pentanone	104
Toluene	98
trans-1,3-Dichloropropene	105

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0910570-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s110102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/09 08:08 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	94
Tetrachloroethene	97
2-Hexanone	100
Dibromochloromethane	96
1,2-Dibromoethane (EDB)	97
Chlorobenzene	98
Ethyl Benzene	100
m,p-Xylene	97
o-Xylene	102
Styrene	84
Bromoform	103
Cumene	105
1,1,2,2-Tetrachloroethane	101
Propylbenzene	100
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	88
alpha-Chlorotoluene	108
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	95

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0910570-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s110103**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/09 08:48 AM**

Compound	%Recovery
Freon 12	82
Freon 114	85
Chloromethane	87
Vinyl Chloride	86
1,3-Butadiene	81
Bromomethane	76
Chloroethane	82
Freon 11	83
Ethanol	62
Freon 113	98
1,1-Dichloroethene	98
Acetone	94
2-Propanol	94
Carbon Disulfide	89
3-Chloropropene	88
Methylene Chloride	96
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	89
Hexane	92
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	95
cis-1,2-Dichloroethene	90
Tetrahydrofuran	91
Chloroform	91
1,1,1-Trichloroethane	87
Cyclohexane	88
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	94
Benzene	86
1,2-Dichloroethane	87
Heptane	93
Trichloroethene	86
1,2-Dichloropropane	85
1,4-Dioxane	87
Bromodichloromethane	86
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	94
Toluene	92
trans-1,3-Dichloropropene	92

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0910570-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s110103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/09 08:48 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	83
Tetrachloroethene	87
2-Hexanone	90
Dibromochloromethane	85
1,2-Dibromoethane (EDB)	84
Chlorobenzene	88
Ethyl Benzene	88
m,p-Xylene	85
o-Xylene	91
Styrene	76
Bromoform	91
Cumene	95
1,1,2,2-Tetrachloroethane	89
Propylbenzene	91
4-Ethyltoluene	89
1,3,5-Trimethylbenzene	92
1,2,4-Trimethylbenzene	85
1,3-Dichlorobenzene	87
1,4-Dichlorobenzene	82
alpha-Chlorotoluene	108
1,2-Dichlorobenzene	92
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	98

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	104	70-130

Laboratory Report

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: None
LabID: 18139
Date Received: 11/24/09

Project: Dover Landfill 84411

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

Unless otherwise noted in the attached report, the analyses performed met the requirements of 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

(for) 12/3/09

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 Landfill 84411
Lab ID: 18139
Lab Number: 18139-001
Sample ID: Carbon Inf.
Matrix: Water
Sampled: 11/23/09 15:09

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
chloromethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
vinyl chloride	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
bromomethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
chloroethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
trichlorofluoromethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
diethyl ether	< 25	25	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
acetone	< 250	250	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,1-dichloroethene	< 5	5	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
methylene chloride	**730**	25	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
carbon disulfide	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
methyl t-butyl ether (MTBE)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
trans-1,2-dichloroethene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
isopropyl ether (DIPE)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,1-dichloroethane	**86**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
t-butanol (TBA)	**260**	150	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
2-butanone (MEK)	**400**	50	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
2,2-dichloropropane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
cis-1,2-dichloroethene	**1600**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
chloroform	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
bromochloromethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
tetrahydrofuran (THF)	**140**	50	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,1,1-trichloroethane	**98**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,1-dichloropropene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
t-amyl-methyl ether (TAME)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
carbon tetrachloride	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,2-dichloroethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
benzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
trichloroethene	**140**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,2-dichloropropane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
bromodichloromethane	< 3.0	3.0	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,4-dioxane	**490**	250	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
dibromomethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**470**	50	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
cis-1,3-dichloropropene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
toluene	**1100**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
trans-1,3-dichloropropene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
2-hexanone	**58**	50	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,1,2-trichloroethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,3-dichloropropane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
tetrachloroethene	**1700**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
dibromochloromethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,2-dibromoethane (EDB)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 18139
Lab Number: 18139-001
Sample ID: Carbon Inf.
Matrix: Water
Sampled: 11/23/09 15:09

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,1,1,2-tetrachloroethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
ethylbenzene	**84**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
m&p-xylenes	**480**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
o-xylene	**350**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
styrene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
bromoform	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
isopropylbenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,1,2,2-tetrachloroethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,2,3-trichloropropane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
n-propylbenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
bromobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,3,5-trimethylbenzene	**92**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
2-chlorotoluene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
4-chlorotoluene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
tert-butylbenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,2,4-trimethylbenzene	**150**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
sec-butylbenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,3-dichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
4-isopropyltoluene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,4-dichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,2-dichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
n-butylbenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,2,4-trichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,3,5-trichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
hexachlorobutadiene	< 2.5	2.5	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
naphthalene	< 25	25	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,2,3-trichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	98	78-114	%	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
toluene-D8 SUR	100	88-110	%	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
4-bromofluorobenzene SUR	97	86-115	%	5	LMM		0903278	12/1/09	19:59	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 18139
Lab Number: 18139-002
Sample ID: Carbon Eff.
Matrix: Water
Sampled: 11/23/09 15:04

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
t-butanol (TBA)	< 30	30	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,4-dioxane	< 50	50	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 18139
Lab Number: 18139-002
Sample ID: Carbon Eff.
Matrix: Water
Sampled: 11/23/09 15:04

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
o-xylene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	110	78-114	%	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
toluene-D8 SUR	108	88-110	%	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
4-bromofluorobenzene SUR	88	86-115	%	1	LMM		0903253	11/25/09	19:45	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 18139
Lab Number: 18139-003
Sample ID: DUP-01
Matrix: Water
Sampled: 11/23/09 15:14

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
chloromethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
vinyl chloride	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
bromomethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
chloroethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
trichlorofluoromethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
diethyl ether	< 25	25	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
acetone	< 250	250	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,1-dichloroethene	< 5	5	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
methylene chloride	**460**	25	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
carbon disulfide	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
methyl t-butyl ether (MTBE)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
trans-1,2-dichloroethene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
isopropyl ether (DIPE)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,1-dichloroethane	**50**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
t-butanol (TBA)	**250**	150	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
2-butanone (MEK)	**370**	50	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
2,2-dichloropropane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
cis-1,2-dichloroethene	**960**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
chloroform	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
bromochloromethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
tetrahydrofuran (THF)	**130**	50	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,1,1-trichloroethane	**54**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,1-dichloropropene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
t-amyl-methyl ether (TAME)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
carbon tetrachloride	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,2-dichloroethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
benzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
trichloroethene	**84**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,2-dichloropropane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
bromodichloromethane	< 3.0	3.0	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,4-dioxane	**550**	250	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
dibromomethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**430**	50	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
cis-1,3-dichloropropene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
toluene	**680**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
trans-1,3-dichloropropene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
2-hexanone	**51**	50	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,1,2-trichloroethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,3-dichloropropane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
tetrachloroethene	**990**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
dibromochloromethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,2-dibromoethane (EDB)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 18139
Lab Number: 18139-003
Sample ID: DUP-01
Matrix: Water
Sampled: 11/23/09 15:14

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Analysis Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,1,1,2-tetrachloroethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
ethylbenzene	**48**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
m&p-xylenes	**310**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
o-xylene	**240**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
styrene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
bromoform	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
isopropylbenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,1,2,2-tetrachloroethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,2,3-trichloropropane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
n-propylbenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
bromobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,3,5-trimethylbenzene	**72**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
2-chlorotoluene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
4-chlorotoluene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
tert-butylbenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,2,4-trimethylbenzene	**99**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
sec-butylbenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,3-dichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
4-isopropyltoluene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,4-dichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,2-dichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
n-butylbenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,2,4-trichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,3,5-trichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
hexachlorobutadiene	< 2.5	2.5	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
naphthalene	< 25	25	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,2,3-trichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	98	78-114	%	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
toluene-D8 SUR	99	88-110	%	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
4-bromofluorobenzene SUR	100	86-115	%	5	LMM		0903278	12/1/09	19:24	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 18139
Lab Number: 18139-004
Sample ID: Trip Blank
Matrix: Water
Sampled: 11/23/09

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
t-butanol (TBA)	< 30	30	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,4-dioxane	< 50	50	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 18139
Lab Number: 18139-004
Sample ID: Trip Blank
Matrix: Water
Sampled: 11/23/09

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Analysis Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
o-xylene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	110	78-114	%	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
toluene-D8 SUR	105	88-110	%	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
4-bromofluorobenzene SUR	90	86-115	%	1	LMM		0903253	11/25/09	15:38	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

18139

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 Landfill

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 # 1571

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

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 (MW)	SAMPLER*	VOC 8260 NHDES	Grab (G) or Composite (C)
18139-01	Carbon Inf.	2	X			X						11-23-09	1509	MW JH	X	
02	Carbon Eff.	2	X			X						11-23-09	1504	MW JH	X	
03	DUP-01	2	X			X						11-23-09	1514	MW JH	X	
04	Trip Blank	1	X			X									X	

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 2 °C

CUSTODY RECORD

Relinquished by Sampler:	Date 11/23/09	Time	Received by: XDD Cold Storage	Date 11/23/09	Time
Relinquished by: Amy Gray	Date 11/24/09	Time 1535	Received by:	Date	Time
Relinquished by:	Date	Time	Received by Laboratory: Way Bill#: Joanne King	Date 11/24/09	Time 15:35

Air Toxics LTD.
Laboratory Services Since 1989

12/8/2009
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Landfill
Project #: 84411
Workorder #: 0911489

Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 11/20/2009 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 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

Bryanna Langley
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0911489

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. #**	1565
FAX:	603-778-2121	**PROJECT #**	84411 Dover Landfill
DATE RECEIVED:	11/20/2009	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	12/08/2009		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	Tolend RD	Modified TO-15	1.5 "Hg	5 psi
02A	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda L. Freeman DATE: 12/08/09

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

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

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

LABORATORY NARRATIVE
Modified TO-15
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 0911489

One 6 Liter Summa Canister sample was received on November 20, 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

All Quality Control Limit exceedences and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in 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 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

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

Client Sample ID: Tolend RD

Lab ID#: 0911489-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	2.8	3.3	5.3	6.3
Acetone	2.8	2.8	6.7	6.7

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Tolend RD

Lab ID#: 0911489-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3113017**	**Date of Collection:**	**11/12/09 10:45:00 AM**
Dil. Factor:	**1.41**	**Date of Analysis:**	**11/30/09 05:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.70	Not Detected	3.5	Not Detected
Freon 114	0.70	Not Detected	4.9	Not Detected
Chloromethane	2.8	Not Detected	5.8	Not Detected
Vinyl Chloride	0.70	Not Detected	1.8	Not Detected
1,3-Butadiene	0.70	Not Detected	1.6	Not Detected
Bromomethane	0.70	Not Detected	2.7	Not Detected
Chloroethane	0.70	Not Detected	1.9	Not Detected
Freon 11	0.70	Not Detected	4.0	Not Detected
Ethanol	2.8	3.3	5.3	6.3
Freon 113	0.70	Not Detected	5.4	Not Detected
1,1-Dichloroethene	0.70	Not Detected	2.8	Not Detected
Acetone	2.8	2.8	6.7	6.7
2-Propanol	2.8	Not Detected	6.9	Not Detected
Carbon Disulfide	0.70	Not Detected	2.2	Not Detected
3-Chloropropene	2.8	Not Detected	8.8	Not Detected
Methylene Chloride	0.70	Not Detected	2.4	Not Detected
Methyl tert-butyl ether	0.70	Not Detected	2.5	Not Detected
trans-1,2-Dichloroethene	0.70	Not Detected	2.8	Not Detected
Hexane	0.70	Not Detected	2.5	Not Detected
1,1-Dichloroethane	0.70	Not Detected	2.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.70	Not Detected	2.1	Not Detected
cis-1,2-Dichloroethene	0.70	Not Detected	2.8	Not Detected
Tetrahydrofuran	0.70	Not Detected	2.1	Not Detected
Chloroform	0.70	Not Detected	3.4	Not Detected
1,1,1-Trichloroethane	0.70	Not Detected	3.8	Not Detected
Cyclohexane	0.70	Not Detected	2.4	Not Detected
Carbon Tetrachloride	0.70	Not Detected	4.4	Not Detected
2,2,4-Trimethylpentane	0.70	Not Detected	3.3	Not Detected
Benzene	0.70	Not Detected	2.2	Not Detected
1,2-Dichloroethane	0.70	Not Detected	2.8	Not Detected
Heptane	0.70	Not Detected	2.9	Not Detected
Trichloroethene	0.70	Not Detected	3.8	Not Detected
1,2-Dichloropropane	0.70	Not Detected	3.2	Not Detected
1,4-Dioxane	2.8	Not Detected	10	Not Detected
Bromodichloromethane	0.70	Not Detected	4.7	Not Detected
cis-1,3-Dichloropropene	0.70	Not Detected	3.2	Not Detected
4-Methyl-2-pentanone	0.70	Not Detected	2.9	Not Detected
Toluene	0.70	Not Detected	2.6	Not Detected
trans-1,3-Dichloropropene	0.70	Not Detected	3.2	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Tolend RD

Lab ID#: 0911489-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3113017**	**Date of Collection:**	**11/12/09 10:45:00 AM**
Dil. Factor:	**1.41**	**Date of Analysis:**	**11/30/09 05:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	0.70	Not Detected	3.8	Not Detected
Tetrachloroethene	0.70	Not Detected	4.8	Not Detected
2-Hexanone	2.8	Not Detected	12	Not Detected
Dibromochloromethane	0.70	Not Detected	6.0	Not Detected
1,2-Dibromoethane (EDB)	0.70	Not Detected	5.4	Not Detected
Chlorobenzene	0.70	Not Detected	3.2	Not Detected
Ethyl Benzene	0.70	Not Detected	3.1	Not Detected
m,p-Xylene	0.70	Not Detected	3.1	Not Detected
o-Xylene	0.70	Not Detected	3.1	Not Detected
Styrene	0.70	Not Detected	3.0	Not Detected
Bromoform	0.70	Not Detected	7.3	Not Detected
Cumene	0.70	Not Detected	3.5	Not Detected
1,1,2,2-Tetrachloroethane	0.70	Not Detected	4.8	Not Detected
Propylbenzene	0.70	Not Detected	3.5	Not Detected
4-Ethyltoluene	0.70	Not Detected	3.5	Not Detected
1,3,5-Trimethylbenzene	0.70	Not Detected	3.5	Not Detected
1,2,4-Trimethylbenzene	0.70	Not Detected	3.5	Not Detected
1,3-Dichlorobenzene	0.70	Not Detected	4.2	Not Detected
1,4-Dichlorobenzene	0.70	Not Detected	4.2	Not Detected
alpha-Chlorotoluene	0.70	Not Detected	3.6	Not Detected
1,2-Dichlorobenzene	0.70	Not Detected	4.2	Not Detected
1,2,4-Trichlorobenzene	2.8	Not Detected	21	Not Detected
Hexachlorobutadiene	2.8	Not Detected	30	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0911489-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3113004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/30/09 08:43 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	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#: 0911489-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3113004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/30/09 08:43 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	97	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0911489-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3113002**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 11/30/09 07:23 AM**

Compound	%Recovery
Freon 12	108
Freon 114	111
Chloromethane	108
Vinyl Chloride	99
1,3-Butadiene	106
Bromomethane	101
Chloroethane	97
Freon 11	99
Ethanol	112
Freon 113	106
1,1-Dichloroethene	112
Acetone	107
2-Propanol	111
Carbon Disulfide	114
3-Chloropropene	113
Methylene Chloride	103
Methyl tert-butyl ether	112
trans-1,2-Dichloroethene	111
Hexane	111
1,1-Dichloroethane	106
2-Butanone (Methyl Ethyl Ketone)	111
cis-1,2-Dichloroethene	112
Tetrahydrofuran	104
Chloroform	106
1,1,1-Trichloroethane	105
Cyclohexane	112
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	112
Benzene	107
1,2-Dichloroethane	100
Heptane	108
Trichloroethene	105
1,2-Dichloropropane	103
1,4-Dioxane	110
Bromodichloromethane	106
cis-1,3-Dichloropropene	111
4-Methyl-2-pentanone	112
Toluene	105
trans-1,3-Dichloropropene	116

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0911489-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3113002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/30/09 07:23 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	107
Tetrachloroethene	110
2-Hexanone	121
Dibromochloromethane	113
1,2-Dibromoethane (EDB)	111
Chlorobenzene	107
Ethyl Benzene	117
m,p-Xylene	118
o-Xylene	118
Styrene	121
Bromoform	119
Cumene	119
1,1,2,2-Tetrachloroethane	109
Propylbenzene	118
4-Ethyltoluene	117
1,3,5-Trimethylbenzene	118
1,2,4-Trimethylbenzene	122
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	110
alpha-Chlorotoluene	132 Q
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	113
Hexachlorobutadiene	113

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	90	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0911489-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3113003**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 11/30/09 08:11 AM**

Compound	%Recovery
Freon 12	80
Freon 114	84
Chloromethane	79
Vinyl Chloride	72
1,3-Butadiene	78
Bromomethane	76
Chloroethane	74
Freon 11	73
Ethanol	143 Q
Freon 113	77
1,1-Dichloroethene	83
Acetone	78
2-Propanol	82
Carbon Disulfide	79
3-Chloropropene	85
Methylene Chloride	75
Methyl tert-butyl ether	83
trans-1,2-Dichloroethene	80
Hexane	82
1,1-Dichloroethane	77
2-Butanone (Methyl Ethyl Ketone)	83
cis-1,2-Dichloroethene	83
Tetrahydrofuran	76
Chloroform	77
1,1,1-Trichloroethane	76
Cyclohexane	83
Carbon Tetrachloride	75
2,2,4-Trimethylpentane	84
Benzene	79
1,2-Dichloroethane	74
Heptane	82
Trichloroethene	79
1,2-Dichloropropane	76
1,4-Dioxane	87
Bromodichloromethane	78
cis-1,3-Dichloropropene	82
4-Methyl-2-pentanone	85
Toluene	78
trans-1,3-Dichloropropene	91

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0911489-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3113003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/30/09 08:11 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	84
Tetrachloroethene	86
2-Hexanone	99
Dibromochloromethane	88
1,2-Dibromoethane (EDB)	88
Chlorobenzene	85
Ethyl Benzene	91
m,p-Xylene	93
o-Xylene	93
Styrene	94
Bromoform	92
Cumene	95
1,1,2,2-Tetrachloroethane	85
Propylbenzene	94
4-Ethyltoluene	94
1,3,5-Trimethylbenzene	96
1,2,4-Trimethylbenzene	97
1,3-Dichlorobenzene	88
1,4-Dichlorobenzene	89
alpha-Chlorotoluene	101
1,2-Dichlorobenzene	88
1,2,4-Trichlorobenzene	83
Hexachlorobutadiene	87

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

12/11/2009
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Landfill
Project #: 84411
Workorder #: 0911563

Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 11/25/2009 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

Bryanna Langley
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0911563

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. #**	1572
FAX:	603-778-2121	**PROJECT #**	84411 Dover Landfill
DATE RECEIVED:	11/25/2009	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	12/11/2009		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SVE STACK 112409 Dover Landfill, Dover N	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. Freeman DATE: 12/11/09

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

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

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

LABORATORY NARRATIVE
Modified TO-15 Soil Gas
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 0911563

One 1 Liter Tedlar Bag sample was received on November 25, 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

The Chain of Custody (COC) was not relinquished properly. A signature and date was not provided.

Analytical Notes

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

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: SVE STACK 112409 Dover Landfill, Dover NH

Lab ID#: 0911563-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	170	2200	420	5600
Freon 11	170	1300	940	7300
Freon 113	170	280	1300	2200
1,1-Dichloroethene	170	210	660	830
Methylene Chloride	170	18000	580	62000
trans-1,2-Dichloroethene	170	230	660	920
Hexane	170	410	590	1400
1,1-Dichloroethane	170	3900	670	16000
2-Butanone (Methyl Ethyl Ketone)	170	400	490	1200
cis-1,2-Dichloroethene	170	60000	660	240000
1,1,1-Trichloroethane	170	9000	910	49000
Heptane	170	1100	680	4600
Trichloroethene	170	9900	890	53000
4-Methyl-2-pentanone	170	550	680	2300
Toluene	170	78000	630	290000
Tetrachloroethene	170	140000	1100	920000
Ethyl Benzene	170	10000	720	43000
m,p-Xylene	170	41000	720	180000
o-Xylene	170	16000	720	68000
Cumene	170	860	820	4200
Propylbenzene	170	1400	820	6700
4-Ethyltoluene	170	8200	820	40000
1,3,5-Trimethylbenzene	170	3900	820	19000
1,2,4-Trimethylbenzene	170	7200	820	35000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVE STACK 112409 Dover Landfill, Dover NH

Lab ID#: 0911563-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b112528**	**Date of Collection:**	**11/24/09 9:20:00 AM**
Dil. Factor:	**33.3**	**Date of Analysis:**	**11/25/09 10:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	170	Not Detected	820	Not Detected
Freon 114	170	Not Detected	1200	Not Detected
Chloromethane	670	Not Detected	1400	Not Detected
Vinyl Chloride	170	2200	420	5600
1,3-Butadiene	170	Not Detected	370	Not Detected
Bromomethane	170	Not Detected	650	Not Detected
Chloroethane	170	Not Detected	440	Not Detected
Freon 11	170	1300	940	7300
Ethanol	670	Not Detected	1200	Not Detected
Freon 113	170	280	1300	2200
1,1-Dichloroethene	170	210	660	830
Acetone	670	Not Detected	1600	Not Detected
2-Propanol	670	Not Detected	1600	Not Detected
Carbon Disulfide	170	Not Detected	520	Not Detected
3-Chloropropene	670	Not Detected	2100	Not Detected
Methylene Chloride	170	18000	580	62000
Methyl tert-butyl ether	170	Not Detected	600	Not Detected
trans-1,2-Dichloroethene	170	230	660	920
Hexane	170	410	590	1400
1,1-Dichloroethane	170	3900	670	16000
2-Butanone (Methyl Ethyl Ketone)	170	400	490	1200
cis-1,2-Dichloroethene	170	60000	660	240000
Tetrahydrofuran	170	Not Detected	490	Not Detected
Chloroform	170	Not Detected	810	Not Detected
1,1,1-Trichloroethane	170	9000	910	49000
Cyclohexane	170	Not Detected	570	Not Detected
Carbon Tetrachloride	170	Not Detected	1000	Not Detected
2,2,4-Trimethylpentane	170	Not Detected	780	Not Detected
Benzene	170	Not Detected	530	Not Detected
1,2-Dichloroethane	170	Not Detected	670	Not Detected
Heptane	170	1100	680	4600
Trichloroethene	170	9900	890	53000
1,2-Dichloropropane	170	Not Detected	770	Not Detected
1,4-Dioxane	670	Not Detected	2400	Not Detected
Bromodichloromethane	170	Not Detected	1100	Not Detected
cis-1,3-Dichloropropene	170	Not Detected	760	Not Detected
4-Methyl-2-pentanone	170	550	680	2300
Toluene	170	78000	630	290000
trans-1,3-Dichloropropene	170	Not Detected	760	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVE STACK 112409 Dover Landfill, Dover NH

Lab ID#: 0911563-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b112528**	**Date of Collection:**	**11/24/09 9:20:00 AM**
Dil. Factor:	**33.3**	**Date of Analysis:**	**11/25/09 10:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	170	Not Detected	910	Not Detected
Tetrachloroethene	170	140000	1100	920000
2-Hexanone	670	Not Detected	2700	Not Detected
Dibromochloromethane	170	Not Detected	1400	Not Detected
1,2-Dibromoethane (EDB)	170	Not Detected	1300	Not Detected
Chlorobenzene	170	Not Detected	770	Not Detected
Ethyl Benzene	170	10000	720	43000
m,p-Xylene	170	41000	720	180000
o-Xylene	170	16000	720	68000
Styrene	170	Not Detected	710	Not Detected
Bromoform	170	Not Detected	1700	Not Detected
Cumene	170	860	820	4200
1,1,2,2-Tetrachloroethane	170	Not Detected	1100	Not Detected
Propylbenzene	170	1400	820	6700
4-Ethyltoluene	170	8200	820	40000
1,3,5-Trimethylbenzene	170	3900	820	19000
1,2,4-Trimethylbenzene	170	7200	820	35000
1,3-Dichlorobenzene	170	Not Detected	1000	Not Detected
1,4-Dichlorobenzene	170	Not Detected	1000	Not Detected
alpha-Chlorotoluene	170	Not Detected	860	Not Detected
1,2-Dichlorobenzene	170	Not Detected	1000	Not Detected
1,2,4-Trichlorobenzene	670	Not Detected UJ	4900	Not Detected UJ
Hexachlorobutadiene	670	Not Detected UJ	7100	Not Detected UJ

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

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	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#: 0911563-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b112506**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/25/09 10:23 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#: 0911563-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b112506**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/25/09 10:23 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 UJ	150	Not Detected UJ
Hexachlorobutadiene	20	Not Detected UJ	210	Not Detected UJ

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0911563-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b112502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/25/09 08:07 AM**	

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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0911563-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b112502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/25/09 08:07 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	90
Tetrachloroethene	91
2-Hexanone	83
Dibromochloromethane	91
1,2-Dibromoethane (EDB)	86
Chlorobenzene	86
Ethyl Benzene	87
m,p-Xylene	85
o-Xylene	86
Styrene	88
Bromoform	92
Cumene	85
1,1,2,2-Tetrachloroethane	86
Propylbenzene	84
4-Ethyltoluene	83
1,3,5-Trimethylbenzene	79
1,2,4-Trimethylbenzene	85
1,3-Dichlorobenzene	80
1,4-Dichlorobenzene	81
alpha-Chlorotoluene	84
1,2-Dichlorobenzene	78
1,2,4-Trichlorobenzene	62 Q
Hexachlorobutadiene	64 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0911563-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b112503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/25/09 08:50 AM**	

Compound	%Recovery
Freon 12	86
Freon 114	88
Chloromethane	90
Vinyl Chloride	86
1,3-Butadiene	87
Bromomethane	83
Chloroethane	88
Freon 11	85
Ethanol	132
Freon 113	78
1,1-Dichloroethene	78
Acetone	80
2-Propanol	82
Carbon Disulfide	84
3-Chloropropene	84
Methylene Chloride	78
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	83
Hexane	84
1,1-Dichloroethane	82
2-Butanone (Methyl Ethyl Ketone)	83
cis-1,2-Dichloroethene	81
Tetrahydrofuran	83
Chloroform	81
1,1,1-Trichloroethane	84
Cyclohexane	85
Carbon Tetrachloride	84
2,2,4-Trimethylpentane	87
Benzene	84
1,2-Dichloroethane	83
Heptane	86
Trichloroethene	83
1,2-Dichloropropane	86
1,4-Dioxane	85
Bromodichloromethane	83
cis-1,3-Dichloropropene	86
4-Methyl-2-pentanone	84
Toluene	84
trans-1,3-Dichloropropene	86

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0911563-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b112503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/25/09 08:50 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	88
Tetrachloroethene	89
2-Hexanone	88
Dibromochloromethane	90
1,2-Dibromoethane (EDB)	88
Chlorobenzene	87
Ethyl Benzene	89
m,p-Xylene	89
o-Xylene	89
Styrene	91
Bromoform	95
Cumene	86
1,1,2,2-Tetrachloroethane	93
Propylbenzene	87
4-Ethyltoluene	87
1,3,5-Trimethylbenzene	87
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	88
1,4-Dichlorobenzene	92
alpha-Chlorotoluene	90
1,2-Dichlorobenzene	90
1,2,4-Trichlorobenzene	90
Hexachlorobutadiene	94

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	103	70-130

Project ID: Dover Landfill 84411
Lab ID: 17900
Lab Number: 17900-001
Sample ID: Carbon Inf.
Matrix: Water
Sampled: 10/22/09 12:08

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
chloromethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
vinyl chloride	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
bromomethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
chloroethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
trichlorofluoromethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
diethyl ether	< 25	25	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
acetone	**370**	250	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,1-dichloroethene	< 5	5	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
methylene chloride	**1100**	25	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
carbon disulfide	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
methyl t-butyl ether (MTBE)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
trans-1,2-dichloroethene	**12**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
isopropyl ether (DIPE)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,1-dichloroethane	**120**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
t-butanol (TBA)	< 150	150	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
2-butanone (MEK)	**1100**	50	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
2,2-dichloropropane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
cis-1,2-dichloroethene	**2800**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
chloroform	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
bromochloromethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
tetrahydrofuran (THF)	**210**	50	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,1,1-trichloroethane	**110**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,1-dichloropropene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
t-amyl-methyl ether (TAME)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
carbon tetrachloride	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,2-dichloroethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
benzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
trichloroethene	**180**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,2-dichloropropane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
bromodichloromethane	< 3.0	3.0	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,4-dioxane	**540**	250	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
dibromomethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**780**	50	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
cis-1,3-dichloropropene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
toluene	**2400**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
trans-1,3-dichloropropene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
2-hexanone	< 50	50	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,1,2-trichloroethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,3-dichloropropane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
tetrachloroethene	**1600**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
dibromochloromethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,2-dibromoethane (EDB)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 17900
Lab Number: 17900-001
Sample ID: Carbon Inf.
Matrix: Water
Sampled: 10/22/09 12:08

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,1,1,2-tetrachloroethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
ethylbenzene	**160**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
m&p-xylenes	**680**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
o-xylene	**450**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
styrene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
bromoform	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
isopropylbenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,1,2,2-tetrachloroethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,2,3-trichloropropane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
n-propylbenzene	**11**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
bromobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,3,5-trimethylbenzene	**74**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
2-chlorotoluene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
4-chlorotoluene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
tert-butylbenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,2,4-trimethylbenzene	**150**	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
sec-butylbenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,3-dichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
4-isopropyltoluene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,4-dichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,2-dichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
n-butylbenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,2,4-trichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,3,5-trichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
hexachlorobutadiene	< 2.5	2.5	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
naphthalene	< 25	25	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
1,2,3-trichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	100	78-114	%	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
toluene-D8 SUR	104	88-110	%	5	LMM		0902974	10/30/09	19:14	SW5030B8260B
4-bromofluorobenzene SUR	95	86-115	%	5	LMM		0902974	10/30/09	19:14	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 17900
Lab Number: 17900-002
Sample ID: Carbon Eff.
Matrix: Water
Sampled: 10/22/09 12:04

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
t-butanol (TBA)	< 30	30	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,4-dioxane	< 50	50	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 17900
Lab Number: 17900-002
Sample ID: Carbon Eff.
Matrix: Water
Sampled: 10/22/09 12:04

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
o-xylene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	102	78-114	%	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
toluene-D8 SUR	103	88-110	%	1	LMM		0902974	10/30/09	13:35	SW5030B8260B
4-bromofluorobenzene SUR	92	86-115	%	1	LMM		0902974	10/30/09	13:35	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 17900
Lab Number: 17900-003
Sample ID: DUP-01
Matrix: Water
Sampled: 10/22/09 12:12

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
chloromethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
vinyl chloride	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
bromomethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
chloroethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
trichlorofluoromethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
diethyl ether	< 25	25	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
acetone	**400**	250	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,1-dichloroethene	< 5	5	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
methylene chloride	**1100**	25	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
carbon disulfide	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
methyl t-butyl ether (MTBE)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
trans-1,2-dichloroethene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
isopropyl ether (DIPE)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,1-dichloroethane	**120**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
t-butanol (TBA)	< 150	150	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
2-butanone (MEK)	**1100**	50	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
2,2-dichloropropane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
cis-1,2-dichloroethene	**2900**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
chloroform	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
bromochloromethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
tetrahydrofuran (THF)	**220**	50	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,1,1-trichloroethane	**110**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,1-dichloropropene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
t-amyl-methyl ether (TAME)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
carbon tetrachloride	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,2-dichloroethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
benzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
trichloroethene	**190**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,2-dichloropropane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
bromodichloromethane	< 3.0	3.0	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,4-dioxane	**560**	250	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
dibromomethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**810**	50	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
cis-1,3-dichloropropene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
toluene	**2400**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
trans-1,3-dichloropropene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
2-hexanone	< 50	50	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,1,2-trichloroethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,3-dichloropropane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
tetrachloroethene	**1700**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
dibromochloromethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,2-dibromoethane (EDB)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 17900
Lab Number: 17900-003
Sample ID: DUP-01
Matrix: Water
Sampled: 10/22/09 12:12

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,1,1,2-tetrachloroethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
ethylbenzene	**170**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
m&p-xylenes	**730**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
o-xylene	**490**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
styrene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
bromoform	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
isopropylbenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,1,2,2-tetrachloroethane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,2,3-trichloropropane	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
n-propylbenzene	**12**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
bromobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,3,5-trimethylbenzene	**82**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
2-chlorotoluene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
4-chlorotoluene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
tert-butylbenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,2,4-trimethylbenzene	**150**	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
sec-butylbenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,3-dichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
4-isopropyltoluene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,4-dichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,2-dichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
n-butylbenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,2,4-trichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,3,5-trichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
hexachlorobutadiene	< 2.5	2.5	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
naphthalene	< 25	25	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
1,2,3-trichlorobenzene	< 10	10	ug/L	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	99	78-114	%	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
toluene-D8 SUR	103	88-110	%	5	LMM		0902974	10/30/09	19:48	SW5030B8260B
4-bromofluorobenzene SUR	99	86-115	%	5	LMM		0902974	10/30/09	19:48	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 17900
Lab Number: 17900-004
Sample ID: Trip Blank
Matrix: Water
Sampled: 10/22/09

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
t-butanol (TBA)	< 30	30	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,4-dioxane	< 50	50	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 17900
Lab Number: 17900-004
Sample ID: Trip Blank
Matrix: Water
Sampled: 10/22/09

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
o-xylene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	102	78-114	%	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
toluene-D8 SUR	102	88-110	%	1	LMM		0902974	10/30/09	11:55	SW5030B8260B
4-bromofluorobenzene SUR	90	86-115	%	1	LMM		0902974	10/30/09	11:55	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

17900

Company Name: XDD, LLC

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

Report To: Dennis Keane

Phone #: 603-778-1100

Invoice To: Mary Scuderi

Project Name: Dover Landfill

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 Standard

Quote #

PO #

ANALYSIS REQUEST

☒ VOC 8260 NHDES ☐ VOC 8260 MADEP ☐ VOC 8260 ☐ 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 NHDES	VOC 8260	Grab (G) or Composite (C)
17900-01	Carbon Inf.	2	X			X						10/22/09	1208	JH	X		
-02	Carbon Eff.	2	X			X						10/22/09	1204	JH	X		
-03	DUP-01	2	X			X						10/22/09	1212	JH	X		
-04	Trip Blank	1	X			X						10/16/09	—	—	X		

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 4 °C

CUSTODY RECORD

Relinquished by Sampler:	Date	Time	Received by:	Date	Time
[signature]	10/23/09	13:10	—		
Relinquished by: —	Date	Time	Received by: —	Date	Time
Relinquished by: —	Date	Time	Received by Laboratory: Way Bill#: [signature]	10-23-09	13:10

Air Toxics LTD.
Laboratory Services Since 1989

11/4/2009
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Landfill
Project #: 84411
Workorder #: 0910543

Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 10/23/2009 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

Bryanna Langley
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0910543

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. #**	1530
FAX:	603-778-2121	**PROJECT #**	84411 Dover Landfill
DATE RECEIVED:	10/23/2009	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	11/04/2009		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SVE STACK 102209	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. Freeman

DATE: 11/04/09

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: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

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

LABORATORY NARRATIVE
Modified TO-15 Soil Gas
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 0910543

One 1 Liter Tedlar Bag sample was received on October 23, 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

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

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 STACK 102209

Lab ID#: 0910543-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1000	2400	2600	6100
Methylene Chloride	1000	19000	3500	66000
1,1-Dichloroethane	1000	4400	4000	18000
cis-1,2-Dichloroethene	1000	70000	4000	280000
1,1,1-Trichloroethane	1000	8200	5400	45000
2,2,4-Trimethylpentane	1000	2700	4700	12000
Heptane	1000	1600	4100	6400
Trichloroethene	1000	8400	5400	45000
Toluene	1000	100000	3800	390000
Tetrachloroethene	1000	120000	6800	800000
Ethyl Benzene	1000	9000	4300	39000
m,p-Xylene	1000	35000	4300	150000
o-Xylene	1000	12000	4300	51000
4-Ethyltoluene	1000	5800	4900	29000
1,3,5-Trimethylbenzene	1000	2500	4900	12000
1,2,4-Trimethylbenzene	1000	4600	4900	23000

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Client Sample ID: SVE STACK 102209

Lab ID#: 0910543-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b102408**	**Date of Collection:**	**10/22/09 11:40:00 A**
Dil. Factor:	**200**	**Date of Analysis:**	**10/24/09 10:41 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	2400	2600	6100
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	Not Detected	5600	Not Detected
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	19000	3500	66000
Methyl tert-butyl ether	1000	Not Detected	3600	Not Detected
trans-1,2-Dichloroethene	1000	Not Detected	4000	Not Detected
Hexane	1000	Not Detected	3500	Not Detected
1,1-Dichloroethane	1000	4400	4000	18000
2-Butanone (Methyl Ethyl Ketone)	1000	Not Detected	2900	Not Detected
cis-1,2-Dichloroethene	1000	70000	4000	280000
Tetrahydrofuran	1000	Not Detected	2900	Not Detected
Chloroform	1000	Not Detected	4900	Not Detected
1,1,1-Trichloroethane	1000	8200	5400	45000
Cyclohexane	1000	Not Detected	3400	Not Detected
Carbon Tetrachloride	1000	Not Detected	6300	Not Detected
2,2,4-Trimethylpentane	1000	2700	4700	12000
Benzene	1000	Not Detected	3200	Not Detected
1,2-Dichloroethane	1000	Not Detected	4000	Not Detected
Heptane	1000	1600	4100	6400
Trichloroethene	1000	8400	5400	45000
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	100000	3800	390000
trans-1,3-Dichloropropene	1000	Not Detected	4500	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVE STACK 102209

Lab ID#: 0910543-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b102408**	**Date of Collection:**	**10/22/09 11:40:00 A**
Dil. Factor:	**200**	**Date of Analysis:**	**10/24/09 10:41 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	120000	6800	800000
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	9000	4300	39000
m,p-Xylene	1000	35000	4300	150000
o-Xylene	1000	12000	4300	51000
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	Not Detected	4900	Not Detected
4-Ethyltoluene	1000	5800	4900	29000
1,3,5-Trimethylbenzene	1000	2500	4900	12000
1,2,4-Trimethylbenzene	1000	4600	4900	23000
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	83	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0910543-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b102405a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/09 09:17 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#: 0910543-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b102405a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/09 09:17 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	84	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	93	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0910543-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b102402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/09 07:46 PM**	

Compound	%Recovery
Freon 12	91
Freon 114	99
Chloromethane	94
Vinyl Chloride	98
1,3-Butadiene	96
Bromomethane	94
Chloroethane	115
Freon 11	84
Ethanol	97
Freon 113	97
1,1-Dichloroethene	90
Acetone	96
2-Propanol	95
Carbon Disulfide	101
3-Chloropropene	109
Methylene Chloride	92
Methyl tert-butyl ether	130
trans-1,2-Dichloroethene	100
Hexane	97
1,1-Dichloroethane	95
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	93
Tetrahydrofuran	94
Chloroform	89
1,1,1-Trichloroethane	85
Cyclohexane	98
Carbon Tetrachloride	86
2,2,4-Trimethylpentane	96
Benzene	101
1,2-Dichloroethane	86
Heptane	100
Trichloroethene	94
1,2-Dichloropropane	99
1,4-Dioxane	100
Bromodichloromethane	91
cis-1,3-Dichloropropene	97
4-Methyl-2-pentanone	96
Toluene	97
trans-1,3-Dichloropropene	95

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0910543-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b102402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/09 07:46 PM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	99
Tetrachloroethene	96
2-Hexanone	98
Dibromochloromethane	96
1,2-Dibromoethane (EDB)	99
Chlorobenzene	100
Ethyl Benzene	102
m,p-Xylene	102
o-Xylene	102
Styrene	105
Bromoform	97
Cumene	99
1,1,2,2-Tetrachloroethane	99
Propylbenzene	98
4-Ethyltoluene	94
1,3,5-Trimethylbenzene	91
1,2,4-Trimethylbenzene	95
1,3-Dichlorobenzene	92
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	90
1,2-Dichlorobenzene	92
1,2,4-Trichlorobenzene	81
Hexachlorobutadiene	72

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	82	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	92	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0910543-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b102404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/09 08:44 PM**	

Compound	%Recovery
Freon 12	98
Freon 114	105
Chloromethane	100
Vinyl Chloride	104
1,3-Butadiene	100
Bromomethane	102
Chloroethane	119
Freon 11	88
Ethanol	76
Freon 113	115
1,1-Dichloroethene	109
Acetone	105
2-Propanol	109
Carbon Disulfide	106
3-Chloropropene	114
Methylene Chloride	109
Methyl tert-butyl ether	125
trans-1,2-Dichloroethene	108
Hexane	106
1,1-Dichloroethane	108
2-Butanone (Methyl Ethyl Ketone)	109
cis-1,2-Dichloroethene	102
Tetrahydrofuran	101
Chloroform	99
1,1,1-Trichloroethane	92
Cyclohexane	106
Carbon Tetrachloride	91
2,2,4-Trimethylpentane	106
Benzene	110
1,2-Dichloroethane	92
Heptane	106
Trichloroethene	99
1,2-Dichloropropane	103
1,4-Dioxane	102
Bromodichloromethane	94
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	98
Toluene	107
trans-1,3-Dichloropropene	95

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0910543-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b102404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/24/09 08:44 PM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	106
Tetrachloroethene	103
2-Hexanone	99
Dibromochloromethane	98
1,2-Dibromoethane (EDB)	98
Chlorobenzene	103
Ethyl Benzene	103
m,p-Xylene	104
o-Xylene	102
Styrene	97
Bromoform	93
Cumene	100
1,1,2,2-Tetrachloroethane	98
Propylbenzene	97
4-Ethyltoluene	93
1,3,5-Trimethylbenzene	90
1,2,4-Trimethylbenzene	91
1,3-Dichlorobenzene	88
1,4-Dichlorobenzene	91
alpha-Chlorotoluene	79
1,2-Dichlorobenzene	86
1,2,4-Trichlorobenzene	62 Q
Hexachlorobutadiene	60 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	85	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	94	70-130

Air Toxics LTD.
Laboratory Services Since 1989

11/4/2009
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Landfill
Project #: 84411
Workorder #: 0910570

Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 10/24/2009 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 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

Bryanna Langley
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0910570

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. #**	1530
FAX:	603-778-2121	**PROJECT #**	84411 Dover Landfill
DATE RECEIVED:	10/24/2009	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	11/04/2009		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	Tolend Road 10/22/09	Modified TO-15	10.5 "Hg	5 psi
02A	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda L. Freeman DATE: 11/04/09

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: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

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

LABORATORY NARRATIVE
Modified TO-15
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 0910570

One 6 Liter Summa Canister sample was received on October 24, 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

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

Client Sample ID: Tolend Road 10/22/09

Lab ID#: 0910570-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	4.1	15	7.8	28
Acetone	4.1	8.9	9.8	21
2-Propanol	4.1	7.4	10	18
2-Butanone (Methyl Ethyl Ketone)	1.0	3.0	3.0	8.7
Tetrahydrofuran	1.0	1.1	3.0	3.1
Toluene	1.0	1.2	3.9	4.5

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Tolend Road 10/22/09

Lab ID#: 0910570-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s110117**	**Date of Collection:**	**10/22/09 1:11:00 PM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**11/1/09 07:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.0	Not Detected	5.1	Not Detected
Freon 114	1.0	Not Detected	7.2	Not Detected
Chloromethane	4.1	Not Detected	8.5	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
Bromomethane	1.0	Not Detected	4.0	Not Detected
Chloroethane	1.0	Not Detected	2.7	Not Detected
Freon 11	1.0	Not Detected	5.8	Not Detected
Ethanol	4.1	15	7.8	28
Freon 113	1.0	Not Detected	7.9	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.1	Not Detected
Acetone	4.1	8.9	9.8	21
2-Propanol	4.1	7.4	10	18
Carbon Disulfide	1.0	Not Detected	3.2	Not Detected
3-Chloropropene	4.1	Not Detected	13	Not Detected
Methylene Chloride	1.0	Not Detected	3.6	Not Detected
Methyl tert-butyl ether	1.0	Not Detected	3.7	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
Hexane	1.0	Not Detected	3.6	Not Detected
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.0	3.0	3.0	8.7
cis-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
Tetrahydrofuran	1.0	1.1	3.0	3.1
Chloroform	1.0	Not Detected	5.0	Not Detected
1,1,1-Trichloroethane	1.0	Not Detected	5.6	Not Detected
Cyclohexane	1.0	Not Detected	3.5	Not Detected
Carbon Tetrachloride	1.0	Not Detected	6.5	Not Detected
2,2,4-Trimethylpentane	1.0	Not Detected	4.8	Not Detected
Benzene	1.0	Not Detected	3.3	Not Detected
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
Heptane	1.0	Not Detected	4.2	Not Detected
Trichloroethene	1.0	Not Detected	5.5	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,4-Dioxane	4.1	Not Detected	15	Not Detected
Bromodichloromethane	1.0	Not Detected	6.9	Not Detected
cis-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.2	Not Detected
Toluene	1.0	1.2	3.9	4.5
trans-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Tolend Road 10/22/09

Lab ID#: 0910570-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s110117**	**Date of Collection:**	**10/22/09 1:11:00 PM**
Dil. Factor:	**2.06**	**Date of Analysis:**	**11/1/09 07:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	1.0	Not Detected	5.6	Not Detected
Tetrachloroethene	1.0	Not Detected	7.0	Not Detected
2-Hexanone	4.1	Not Detected	17	Not Detected
Dibromochloromethane	1.0	Not Detected	8.8	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	7.9	Not Detected
Chlorobenzene	1.0	Not Detected	4.7	Not Detected
Ethyl Benzene	1.0	Not Detected	4.5	Not Detected
m,p-Xylene	1.0	Not Detected	4.5	Not Detected
o-Xylene	1.0	Not Detected	4.5	Not Detected
Styrene	1.0	Not Detected	4.4	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
Cumene	1.0	Not Detected	5.1	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.1	Not Detected
Propylbenzene	1.0	Not Detected	5.1	Not Detected
4-Ethyltoluene	1.0	Not Detected	5.1	Not Detected
1,3,5-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,2,4-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.3	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected	30	Not Detected
Hexachlorobutadiene	4.1	Not Detected	44	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0910570-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s110105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/09 10:14 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#: 0910570-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s110105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/09 10:14 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	103	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0910570-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s110102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/09 08:08 AM**	

Compound	%Recovery
Freon 12	98
Freon 114	100
Chloromethane	104
Vinyl Chloride	103
1,3-Butadiene	98
Bromomethane	84
Chloroethane	97
Freon 11	98
Ethanol	104
Freon 113	102
1,1-Dichloroethene	105
Acetone	104
2-Propanol	103
Carbon Disulfide	105
3-Chloropropene	102
Methylene Chloride	103
Methyl tert-butyl ether	99
trans-1,2-Dichloroethene	101
Hexane	106
1,1-Dichloroethane	103
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	105
Tetrahydrofuran	104
Chloroform	102
1,1,1-Trichloroethane	100
Cyclohexane	103
Carbon Tetrachloride	101
2,2,4-Trimethylpentane	111
Benzene	96
1,2-Dichloroethane	95
Heptane	105
Trichloroethene	97
1,2-Dichloropropane	96
1,4-Dioxane	95
Bromodichloromethane	97
cis-1,3-Dichloropropene	108
4-Methyl-2-pentanone	104
Toluene	98
trans-1,3-Dichloropropene	105

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0910570-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s110102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/09 08:08 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	94
Tetrachloroethene	97
2-Hexanone	100
Dibromochloromethane	96
1,2-Dibromoethane (EDB)	97
Chlorobenzene	98
Ethyl Benzene	100
m,p-Xylene	97
o-Xylene	102
Styrene	84
Bromoform	103
Cumene	105
1,1,2,2-Tetrachloroethane	101
Propylbenzene	100
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	88
alpha-Chlorotoluene	108
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	95

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0910570-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s110103**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/09 08:48 AM**

Compound	%Recovery
Freon 12	82
Freon 114	85
Chloromethane	87
Vinyl Chloride	86
1,3-Butadiene	81
Bromomethane	76
Chloroethane	82
Freon 11	83
Ethanol	62
Freon 113	98
1,1-Dichloroethene	98
Acetone	94
2-Propanol	94
Carbon Disulfide	89
3-Chloropropene	88
Methylene Chloride	96
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	89
Hexane	92
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	95
cis-1,2-Dichloroethene	90
Tetrahydrofuran	91
Chloroform	91
1,1,1-Trichloroethane	87
Cyclohexane	88
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	94
Benzene	86
1,2-Dichloroethane	87
Heptane	93
Trichloroethene	86
1,2-Dichloropropane	85
1,4-Dioxane	87
Bromodichloromethane	86
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	94
Toluene	92
trans-1,3-Dichloropropene	92

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0910570-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**s110103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/1/09 08:48 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	83
Tetrachloroethene	87
2-Hexanone	90
Dibromochloromethane	85
1,2-Dibromoethane (EDB)	84
Chlorobenzene	88
Ethyl Benzene	88
m,p-Xylene	85
o-Xylene	91
Styrene	76
Bromoform	91
Cumene	95
1,1,2,2-Tetrachloroethane	89
Propylbenzene	91
4-Ethyltoluene	89
1,3,5-Trimethylbenzene	92
1,2,4-Trimethylbenzene	85
1,3-Dichlorobenzene	87
1,4-Dichlorobenzene	82
alpha-Chlorotoluene	108
1,2-Dichlorobenzene	92
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	98

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

12/8/2009
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Landfill
Project #: 84411
Workorder #: 0911489

Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 11/20/2009 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 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

Bryanna Langley
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0911489

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. #**	1565
FAX:	603-778-2121	**PROJECT #**	84411 Dover Landfill
DATE RECEIVED:	11/20/2009	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	12/08/2009		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	Tolend RD	Modified TO-15	1.5 "Hg	5 psi
02A	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda L. Freeman DATE: 12/08/09

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

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

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

LABORATORY NARRATIVE
Modified TO-15
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 0911489

One 6 Liter Summa Canister sample was received on November 20, 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

All Quality Control Limit exceedences and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in 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 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

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

Client Sample ID: Tolend RD

Lab ID#: 0911489-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	2.8	3.3	5.3	6.3
Acetone	2.8	2.8	6.7	6.7

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Tolend RD

Lab ID#: 0911489-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3113017**	**Date of Collection:**	**11/12/09 10:45:00 AM**
Dil. Factor:	**1.41**	**Date of Analysis:**	**11/30/09 05:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.70	Not Detected	3.5	Not Detected
Freon 114	0.70	Not Detected	4.9	Not Detected
Chloromethane	2.8	Not Detected	5.8	Not Detected
Vinyl Chloride	0.70	Not Detected	1.8	Not Detected
1,3-Butadiene	0.70	Not Detected	1.6	Not Detected
Bromomethane	0.70	Not Detected	2.7	Not Detected
Chloroethane	0.70	Not Detected	1.9	Not Detected
Freon 11	0.70	Not Detected	4.0	Not Detected
Ethanol	2.8	3.3	5.3	6.3
Freon 113	0.70	Not Detected	5.4	Not Detected
1,1-Dichloroethene	0.70	Not Detected	2.8	Not Detected
Acetone	2.8	2.8	6.7	6.7
2-Propanol	2.8	Not Detected	6.9	Not Detected
Carbon Disulfide	0.70	Not Detected	2.2	Not Detected
3-Chloropropene	2.8	Not Detected	8.8	Not Detected
Methylene Chloride	0.70	Not Detected	2.4	Not Detected
Methyl tert-butyl ether	0.70	Not Detected	2.5	Not Detected
trans-1,2-Dichloroethene	0.70	Not Detected	2.8	Not Detected
Hexane	0.70	Not Detected	2.5	Not Detected
1,1-Dichloroethane	0.70	Not Detected	2.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.70	Not Detected	2.1	Not Detected
cis-1,2-Dichloroethene	0.70	Not Detected	2.8	Not Detected
Tetrahydrofuran	0.70	Not Detected	2.1	Not Detected
Chloroform	0.70	Not Detected	3.4	Not Detected
1,1,1-Trichloroethane	0.70	Not Detected	3.8	Not Detected
Cyclohexane	0.70	Not Detected	2.4	Not Detected
Carbon Tetrachloride	0.70	Not Detected	4.4	Not Detected
2,2,4-Trimethylpentane	0.70	Not Detected	3.3	Not Detected
Benzene	0.70	Not Detected	2.2	Not Detected
1,2-Dichloroethane	0.70	Not Detected	2.8	Not Detected
Heptane	0.70	Not Detected	2.9	Not Detected
Trichloroethene	0.70	Not Detected	3.8	Not Detected
1,2-Dichloropropane	0.70	Not Detected	3.2	Not Detected
1,4-Dioxane	2.8	Not Detected	10	Not Detected
Bromodichloromethane	0.70	Not Detected	4.7	Not Detected
cis-1,3-Dichloropropene	0.70	Not Detected	3.2	Not Detected
4-Methyl-2-pentanone	0.70	Not Detected	2.9	Not Detected
Toluene	0.70	Not Detected	2.6	Not Detected
trans-1,3-Dichloropropene	0.70	Not Detected	3.2	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Tolend RD

Lab ID#: 0911489-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3113017**	**Date of Collection:**	**11/12/09 10:45:00 AM**
Dil. Factor:	**1.41**	**Date of Analysis:**	**11/30/09 05:18 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	0.70	Not Detected	3.8	Not Detected
Tetrachloroethene	0.70	Not Detected	4.8	Not Detected
2-Hexanone	2.8	Not Detected	12	Not Detected
Dibromochloromethane	0.70	Not Detected	6.0	Not Detected
1,2-Dibromoethane (EDB)	0.70	Not Detected	5.4	Not Detected
Chlorobenzene	0.70	Not Detected	3.2	Not Detected
Ethyl Benzene	0.70	Not Detected	3.1	Not Detected
m,p-Xylene	0.70	Not Detected	3.1	Not Detected
o-Xylene	0.70	Not Detected	3.1	Not Detected
Styrene	0.70	Not Detected	3.0	Not Detected
Bromoform	0.70	Not Detected	7.3	Not Detected
Cumene	0.70	Not Detected	3.5	Not Detected
1,1,2,2-Tetrachloroethane	0.70	Not Detected	4.8	Not Detected
Propylbenzene	0.70	Not Detected	3.5	Not Detected
4-Ethyltoluene	0.70	Not Detected	3.5	Not Detected
1,3,5-Trimethylbenzene	0.70	Not Detected	3.5	Not Detected
1,2,4-Trimethylbenzene	0.70	Not Detected	3.5	Not Detected
1,3-Dichlorobenzene	0.70	Not Detected	4.2	Not Detected
1,4-Dichlorobenzene	0.70	Not Detected	4.2	Not Detected
alpha-Chlorotoluene	0.70	Not Detected	3.6	Not Detected
1,2-Dichlorobenzene	0.70	Not Detected	4.2	Not Detected
1,2,4-Trichlorobenzene	2.8	Not Detected	21	Not Detected
Hexachlorobutadiene	2.8	Not Detected	30	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0911489-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3113004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/30/09 08:43 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	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#: 0911489-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3113004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/30/09 08:43 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	97	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0911489-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3113002**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 11/30/09 07:23 AM**

Compound	%Recovery
Freon 12	108
Freon 114	111
Chloromethane	108
Vinyl Chloride	99
1,3-Butadiene	106
Bromomethane	101
Chloroethane	97
Freon 11	99
Ethanol	112
Freon 113	106
1,1-Dichloroethene	112
Acetone	107
2-Propanol	111
Carbon Disulfide	114
3-Chloropropene	113
Methylene Chloride	103
Methyl tert-butyl ether	112
trans-1,2-Dichloroethene	111
Hexane	111
1,1-Dichloroethane	106
2-Butanone (Methyl Ethyl Ketone)	111
cis-1,2-Dichloroethene	112
Tetrahydrofuran	104
Chloroform	106
1,1,1-Trichloroethane	105
Cyclohexane	112
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	112
Benzene	107
1,2-Dichloroethane	100
Heptane	108
Trichloroethene	105
1,2-Dichloropropane	103
1,4-Dioxane	110
Bromodichloromethane	106
cis-1,3-Dichloropropene	111
4-Methyl-2-pentanone	112
Toluene	105
trans-1,3-Dichloropropene	116

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0911489-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3113002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/30/09 07:23 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	107
Tetrachloroethene	110
2-Hexanone	121
Dibromochloromethane	113
1,2-Dibromoethane (EDB)	111
Chlorobenzene	107
Ethyl Benzene	117
m,p-Xylene	118
o-Xylene	118
Styrene	121
Bromoform	119
Cumene	119
1,1,2,2-Tetrachloroethane	109
Propylbenzene	118
4-Ethyltoluene	117
1,3,5-Trimethylbenzene	118
1,2,4-Trimethylbenzene	122
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	110
alpha-Chlorotoluene	132 Q
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	113
Hexachlorobutadiene	113

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	90	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0911489-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3113003**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 11/30/09 08:11 AM**

Compound	%Recovery
Freon 12	80
Freon 114	84
Chloromethane	79
Vinyl Chloride	72
1,3-Butadiene	78
Bromomethane	76
Chloroethane	74
Freon 11	73
Ethanol	143 Q
Freon 113	77
1,1-Dichloroethene	83
Acetone	78
2-Propanol	82
Carbon Disulfide	79
3-Chloropropene	85
Methylene Chloride	75
Methyl tert-butyl ether	83
trans-1,2-Dichloroethene	80
Hexane	82
1,1-Dichloroethane	77
2-Butanone (Methyl Ethyl Ketone)	83
cis-1,2-Dichloroethene	83
Tetrahydrofuran	76
Chloroform	77
1,1,1-Trichloroethane	76
Cyclohexane	83
Carbon Tetrachloride	75
2,2,4-Trimethylpentane	84
Benzene	79
1,2-Dichloroethane	74
Heptane	82
Trichloroethene	79
1,2-Dichloropropane	76
1,4-Dioxane	87
Bromodichloromethane	78
cis-1,3-Dichloropropene	82
4-Methyl-2-pentanone	85
Toluene	78
trans-1,3-Dichloropropene	91

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0911489-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3113003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/30/09 08:11 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	84
Tetrachloroethene	86
2-Hexanone	99
Dibromochloromethane	88
1,2-Dibromoethane (EDB)	88
Chlorobenzene	85
Ethyl Benzene	91
m,p-Xylene	93
o-Xylene	93
Styrene	94
Bromoform	92
Cumene	95
1,1,2,2-Tetrachloroethane	85
Propylbenzene	94
4-Ethyltoluene	94
1,3,5-Trimethylbenzene	96
1,2,4-Trimethylbenzene	97
1,3-Dichlorobenzene	88
1,4-Dichlorobenzene	89
alpha-Chlorotoluene	101
1,2-Dichlorobenzene	88
1,2,4-Trichlorobenzene	83
Hexachlorobutadiene	87

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	98	70-130

Laboratory Report

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: None
LabID: 18139
Date Received: 11/24/09

Project: Dover Landfill 84411

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

Unless otherwise noted in the attached report, the analyses performed met the requirements of 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

(for) 12/3/09

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 Landfill 84411
Lab ID: 18139
Lab Number: 18139-001
Sample ID: Carbon Inf.
Matrix: Water
Sampled: 11/23/09 15:09

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
chloromethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
vinyl chloride	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
bromomethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
chloroethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
trichlorofluoromethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
diethyl ether	< 25	25	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
acetone	< 250	250	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,1-dichloroethene	< 5	5	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
methylene chloride	**730**	25	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
carbon disulfide	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
methyl t-butyl ether (MTBE)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
trans-1,2-dichloroethene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
isopropyl ether (DIPE)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,1-dichloroethane	**86**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
t-butanol (TBA)	**260**	150	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
2-butanone (MEK)	**400**	50	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
2,2-dichloropropane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
cis-1,2-dichloroethene	**1600**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
chloroform	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
bromochloromethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
tetrahydrofuran (THF)	**140**	50	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,1,1-trichloroethane	**98**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,1-dichloropropene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
t-amyl-methyl ether (TAME)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
carbon tetrachloride	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,2-dichloroethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
benzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
trichloroethene	**140**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,2-dichloropropane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
bromodichloromethane	< 3.0	3.0	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,4-dioxane	**490**	250	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
dibromomethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**470**	50	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
cis-1,3-dichloropropene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
toluene	**1100**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
trans-1,3-dichloropropene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
2-hexanone	**58**	50	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,1,2-trichloroethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,3-dichloropropane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
tetrachloroethene	**1700**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
dibromochloromethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,2-dibromoethane (EDB)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 18139
Lab Number: 18139-001
Sample ID: Carbon Inf.
Matrix: Water
Sampled: 11/23/09 15:09

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,1,1,2-tetrachloroethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
ethylbenzene	**84**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
m&p-xylenes	**480**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
o-xylene	**350**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
styrene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
bromoform	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
isopropylbenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,1,2,2-tetrachloroethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,2,3-trichloropropane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
n-propylbenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
bromobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,3,5-trimethylbenzene	**92**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
2-chlorotoluene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
4-chlorotoluene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
tert-butylbenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,2,4-trimethylbenzene	**150**	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
sec-butylbenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,3-dichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
4-isopropyltoluene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,4-dichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,2-dichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
n-butylbenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,2,4-trichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,3,5-trichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
hexachlorobutadiene	< 2.5	2.5	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
naphthalene	< 25	25	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
1,2,3-trichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	98	78-114	%	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
toluene-D8 SUR	100	88-110	%	5	LMM		0903278	12/1/09	19:59	SW5030B8260B
4-bromofluorobenzene SUR	97	86-115	%	5	LMM		0903278	12/1/09	19:59	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 18139
Lab Number: 18139-002
Sample ID: Carbon Eff.
Matrix: Water
Sampled: 11/23/09 15:04

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
t-butanol (TBA)	< 30	30	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,4-dioxane	< 50	50	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 18139
Lab Number: 18139-002
Sample ID: Carbon Eff.
Matrix: Water
Sampled: 11/23/09 15:04

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
o-xylene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	110	78-114	%	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
toluene-D8 SUR	108	88-110	%	1	LMM		0903253	11/25/09	19:45	SW5030B8260B
4-bromofluorobenzene SUR	88	86-115	%	1	LMM		0903253	11/25/09	19:45	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 18139
Lab Number: 18139-003
Sample ID: DUP-01
Matrix: Water
Sampled: 11/23/09 15:14

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
chloromethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
vinyl chloride	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
bromomethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
chloroethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
trichlorofluoromethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
diethyl ether	< 25	25	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
acetone	< 250	250	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,1-dichloroethene	< 5	5	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
methylene chloride	**460**	25	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
carbon disulfide	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
methyl t-butyl ether (MTBE)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
trans-1,2-dichloroethene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
isopropyl ether (DIPE)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,1-dichloroethane	**50**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
t-butanol (TBA)	**250**	150	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
2-butanone (MEK)	**370**	50	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
2,2-dichloropropane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
cis-1,2-dichloroethene	**960**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
chloroform	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
bromochloromethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
tetrahydrofuran (THF)	**130**	50	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,1,1-trichloroethane	**54**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,1-dichloropropene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
t-amyl-methyl ether (TAME)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
carbon tetrachloride	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,2-dichloroethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
benzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
trichloroethene	**84**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,2-dichloropropane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
bromodichloromethane	< 3.0	3.0	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,4-dioxane	**550**	250	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
dibromomethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
4-methyl-2-pentanone (MIBK)	**430**	50	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
cis-1,3-dichloropropene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
toluene	**680**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
trans-1,3-dichloropropene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
2-hexanone	**51**	50	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,1,2-trichloroethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,3-dichloropropane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
tetrachloroethene	**990**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
dibromochloromethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,2-dibromoethane (EDB)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 18139
Lab Number: 18139-003
Sample ID: DUP-01
Matrix: Water
Sampled: 11/23/09 15:14

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Analysis Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,1,1,2-tetrachloroethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
ethylbenzene	**48**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
m&p-xylenes	**310**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
o-xylene	**240**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
styrene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
bromoform	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
isopropylbenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,1,2,2-tetrachloroethane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,2,3-trichloropropane	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
n-propylbenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
bromobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,3,5-trimethylbenzene	**72**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
2-chlorotoluene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
4-chlorotoluene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
tert-butylbenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,2,4-trimethylbenzene	**99**	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
sec-butylbenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,3-dichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
4-isopropyltoluene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,4-dichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,2-dichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
n-butylbenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,2,4-trichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,3,5-trichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
hexachlorobutadiene	< 2.5	2.5	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
naphthalene	< 25	25	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
1,2,3-trichlorobenzene	< 10	10	ug/L	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	98	78-114	%	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
toluene-D8 SUR	99	88-110	%	5	LMM		0903278	12/1/09	19:24	SW5030B8260B
4-bromofluorobenzene SUR	100	86-115	%	5	LMM		0903278	12/1/09	19:24	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 18139
Lab Number: 18139-004
Sample ID: Trip Blank
Matrix: Water
Sampled: 11/23/09

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analysis Date	Analysis Time	Reference
dichlorodifluoromethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
chloromethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
vinyl chloride	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
bromomethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
chloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
trichlorofluoromethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
diethyl ether	< 5	5	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
acetone	< 50	50	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,1-dichloroethene	< 1	1	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
methylene chloride	< 5	5	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
carbon disulfide	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
methyl t-butyl ether (MTBE)	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
trans-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
isopropyl ether (DIPE)	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
ethyl t-butyl ether (ETBE)	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,1-dichloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
t-butanol (TBA)	< 30	30	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
2-butanone (MEK)	< 10	10	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
2,2-dichloropropane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
cis-1,2-dichloroethene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
chloroform	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
bromochloromethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
tetrahydrofuran (THF)	< 10	10	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,1,1-trichloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,1-dichloropropene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
t-amyl-methyl ether (TAME)	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
carbon tetrachloride	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,2-dichloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
benzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
trichloroethene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,2-dichloropropane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
bromodichloromethane	< 0.6	0.6	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,4-dioxane	< 50	50	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
dibromomethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
4-methyl-2-pentanone (MIBK)	< 10	10	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
cis-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
toluene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
trans-1,3-dichloropropene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
2-hexanone	< 10	10	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,1,2-trichloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,3-dichloropropane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
tetrachloroethene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
dibromochloromethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,2-dibromoethane (EDB)	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B

Project ID: Dover Landfill 84411
Lab ID: 18139
Lab Number: 18139-004
Sample ID: Trip Blank
Matrix: Water
Sampled: 11/23/09

Parameter	Result	Quant Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Analysis Batch	Analysis Date	Analysis Time	Reference
chlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,1,1,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
ethylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
m&p-xylenes	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
o-xylene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
styrene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
bromoform	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
isopropylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,1,2,2-tetrachloroethane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,2,3-trichloropropane	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
n-propylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
bromobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,3,5-trimethylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
2-chlorotoluene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
4-chlorotoluene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
tert-butylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,2,4-trimethylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
sec-butylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,3-dichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
4-isopropyltoluene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,4-dichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,2-dichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
n-butylbenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,2-dibromo-3-chloropropane (DBCP)	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,2,4-trichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,3,5-trichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
hexachlorobutadiene	< 0.5	0.5	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
naphthalene	< 5	5	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
1,2,3-trichlorobenzene	< 2	2	ug/L	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
Surrogate Recovery		**Limits**								
dibromofluoromethane SUR	110	78-114	%	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
toluene-D8 SUR	105	88-110	%	1	LMM		0903253	11/25/09	15:38	SW5030B8260B
4-bromofluorobenzene SUR	90	86-115	%	1	LMM		0903253	11/25/09	15:38	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

18139

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 Landfill

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 # 1571

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

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 (MW)	SAMPLER*	VOC 8260 NHDES	Grab (G) or Composite (C)
18139-01	Carbon Inf.	2	X			X						11-23-09	1509	MW JH	X	
02	Carbon Eff.	2	X			X						11-23-09	1504	MW JH	X	
03	DUP-01	2	X			X						11-23-09	1514	MW JH	X	
04	Trip Blank	1	X			X									X	

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 2 °C

CUSTODY RECORD

Relinquished by Sampler:	Date 11/23/09	Time	Received by: XDD Cold Storage	Date 11/23/09	Time
Relinquished by: Amy Gray	Date 11/24/09	Time 1535	Received by:	Date	Time
Relinquished by:	Date	Time	Received by Laboratory: Way Bill#: Joanne King	Date 11/24/09	Time 15:35

Air Toxics LTD.
Laboratory Services Since 1989

12/11/2009
Ms. Amy Gibney
XDD (Xpert Design & Diagnostics, LLP)
22 Marin Way
Suite 3
Stratham NH 03885

Project Name: Dover Landfill
Project #: 84411
Workorder #: 0911563

Dear Ms. Amy Gibney

The following report includes the data for the above referenced project for sample(s) received on 11/25/2009 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

Bryanna Langley
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0911563

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. #**	1572
FAX:	603-778-2121	**PROJECT #**	84411 Dover Landfill
DATE RECEIVED:	11/25/2009	**CONTACT:**	Bryanna Langley
DATE COMPLETED:	12/11/2009		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SVE STACK 112409 Dover Landfill, Dover N	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. Freeman DATE: 12/11/09

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

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

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

LABORATORY NARRATIVE
Modified TO-15 Soil Gas
XDD (Xpert Design & Diagnostics, LLP)
Workorder# 0911563

One 1 Liter Tedlar Bag sample was received on November 25, 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

The Chain of Custody (COC) was not relinquished properly. A signature and date was not provided.

Analytical Notes

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

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: SVE STACK 112409 Dover Landfill, Dover NH

Lab ID#: 0911563-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	170	2200	420	5600
Freon 11	170	1300	940	7300
Freon 113	170	280	1300	2200
1,1-Dichloroethene	170	210	660	830
Methylene Chloride	170	18000	580	62000
trans-1,2-Dichloroethene	170	230	660	920
Hexane	170	410	590	1400
1,1-Dichloroethane	170	3900	670	16000
2-Butanone (Methyl Ethyl Ketone)	170	400	490	1200
cis-1,2-Dichloroethene	170	60000	660	240000
1,1,1-Trichloroethane	170	9000	910	49000
Heptane	170	1100	680	4600
Trichloroethene	170	9900	890	53000
4-Methyl-2-pentanone	170	550	680	2300
Toluene	170	78000	630	290000
Tetrachloroethene	170	140000	1100	920000
Ethyl Benzene	170	10000	720	43000
m,p-Xylene	170	41000	720	180000
o-Xylene	170	16000	720	68000
Cumene	170	860	820	4200
Propylbenzene	170	1400	820	6700
4-Ethyltoluene	170	8200	820	40000
1,3,5-Trimethylbenzene	170	3900	820	19000
1,2,4-Trimethylbenzene	170	7200	820	35000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVE STACK 112409 Dover Landfill, Dover NH

Lab ID#: 0911563-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b112528**	**Date of Collection:**	**11/24/09 9:20:00 AM**
Dil. Factor:	**33.3**	**Date of Analysis:**	**11/25/09 10:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	170	Not Detected	820	Not Detected
Freon 114	170	Not Detected	1200	Not Detected
Chloromethane	670	Not Detected	1400	Not Detected
Vinyl Chloride	170	2200	420	5600
1,3-Butadiene	170	Not Detected	370	Not Detected
Bromomethane	170	Not Detected	650	Not Detected
Chloroethane	170	Not Detected	440	Not Detected
Freon 11	170	1300	940	7300
Ethanol	670	Not Detected	1200	Not Detected
Freon 113	170	280	1300	2200
1,1-Dichloroethene	170	210	660	830
Acetone	670	Not Detected	1600	Not Detected
2-Propanol	670	Not Detected	1600	Not Detected
Carbon Disulfide	170	Not Detected	520	Not Detected
3-Chloropropene	670	Not Detected	2100	Not Detected
Methylene Chloride	170	18000	580	62000
Methyl tert-butyl ether	170	Not Detected	600	Not Detected
trans-1,2-Dichloroethene	170	230	660	920
Hexane	170	410	590	1400
1,1-Dichloroethane	170	3900	670	16000
2-Butanone (Methyl Ethyl Ketone)	170	400	490	1200
cis-1,2-Dichloroethene	170	60000	660	240000
Tetrahydrofuran	170	Not Detected	490	Not Detected
Chloroform	170	Not Detected	810	Not Detected
1,1,1-Trichloroethane	170	9000	910	49000
Cyclohexane	170	Not Detected	570	Not Detected
Carbon Tetrachloride	170	Not Detected	1000	Not Detected
2,2,4-Trimethylpentane	170	Not Detected	780	Not Detected
Benzene	170	Not Detected	530	Not Detected
1,2-Dichloroethane	170	Not Detected	670	Not Detected
Heptane	170	1100	680	4600
Trichloroethene	170	9900	890	53000
1,2-Dichloropropane	170	Not Detected	770	Not Detected
1,4-Dioxane	670	Not Detected	2400	Not Detected
Bromodichloromethane	170	Not Detected	1100	Not Detected
cis-1,3-Dichloropropene	170	Not Detected	760	Not Detected
4-Methyl-2-pentanone	170	550	680	2300
Toluene	170	78000	630	290000
trans-1,3-Dichloropropene	170	Not Detected	760	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SVE STACK 112409 Dover Landfill, Dover NH

Lab ID#: 0911563-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b112528**	**Date of Collection:**	**11/24/09 9:20:00 AM**
Dil. Factor:	**33.3**	**Date of Analysis:**	**11/25/09 10:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,2-Trichloroethane	170	Not Detected	910	Not Detected
Tetrachloroethene	170	140000	1100	920000
2-Hexanone	670	Not Detected	2700	Not Detected
Dibromochloromethane	170	Not Detected	1400	Not Detected
1,2-Dibromoethane (EDB)	170	Not Detected	1300	Not Detected
Chlorobenzene	170	Not Detected	770	Not Detected
Ethyl Benzene	170	10000	720	43000
m,p-Xylene	170	41000	720	180000
o-Xylene	170	16000	720	68000
Styrene	170	Not Detected	710	Not Detected
Bromoform	170	Not Detected	1700	Not Detected
Cumene	170	860	820	4200
1,1,2,2-Tetrachloroethane	170	Not Detected	1100	Not Detected
Propylbenzene	170	1400	820	6700
4-Ethyltoluene	170	8200	820	40000
1,3,5-Trimethylbenzene	170	3900	820	19000
1,2,4-Trimethylbenzene	170	7200	820	35000
1,3-Dichlorobenzene	170	Not Detected	1000	Not Detected
1,4-Dichlorobenzene	170	Not Detected	1000	Not Detected
alpha-Chlorotoluene	170	Not Detected	860	Not Detected
1,2-Dichlorobenzene	170	Not Detected	1000	Not Detected
1,2,4-Trichlorobenzene	670	Not Detected UJ	4900	Not Detected UJ
Hexachlorobutadiene	670	Not Detected UJ	7100	Not Detected UJ

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

Container Type: 1 Liter Tedlar Bag

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	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#: 0911563-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b112506**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/25/09 10:23 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#: 0911563-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b112506**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/25/09 10:23 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 UJ	150	Not Detected UJ
Hexachlorobutadiene	20	Not Detected UJ	210	Not Detected UJ

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0911563-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b112502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/25/09 08:07 AM**	

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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0911563-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b112502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/25/09 08:07 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	90
Tetrachloroethene	91
2-Hexanone	83
Dibromochloromethane	91
1,2-Dibromoethane (EDB)	86
Chlorobenzene	86
Ethyl Benzene	87
m,p-Xylene	85
o-Xylene	86
Styrene	88
Bromoform	92
Cumene	85
1,1,2,2-Tetrachloroethane	86
Propylbenzene	84
4-Ethyltoluene	83
1,3,5-Trimethylbenzene	79
1,2,4-Trimethylbenzene	85
1,3-Dichlorobenzene	80
1,4-Dichlorobenzene	81
alpha-Chlorotoluene	84
1,2-Dichlorobenzene	78
1,2,4-Trichlorobenzene	62 Q
Hexachlorobutadiene	64 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0911563-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b112503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/25/09 08:50 AM**	

Compound	%Recovery
Freon 12	86
Freon 114	88
Chloromethane	90
Vinyl Chloride	86
1,3-Butadiene	87
Bromomethane	83
Chloroethane	88
Freon 11	85
Ethanol	132
Freon 113	78
1,1-Dichloroethene	78
Acetone	80
2-Propanol	82
Carbon Disulfide	84
3-Chloropropene	84
Methylene Chloride	78
Methyl tert-butyl ether	100
trans-1,2-Dichloroethene	83
Hexane	84
1,1-Dichloroethane	82
2-Butanone (Methyl Ethyl Ketone)	83
cis-1,2-Dichloroethene	81
Tetrahydrofuran	83
Chloroform	81
1,1,1-Trichloroethane	84
Cyclohexane	85
Carbon Tetrachloride	84
2,2,4-Trimethylpentane	87
Benzene	84
1,2-Dichloroethane	83
Heptane	86
Trichloroethene	83
1,2-Dichloropropane	86
1,4-Dioxane	85
Bromodichloromethane	83
cis-1,3-Dichloropropene	86
4-Methyl-2-pentanone	84
Toluene	84
trans-1,3-Dichloropropene	86

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0911563-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b112503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/25/09 08:50 AM**	

Compound	**%Recovery**
1,1,2-Trichloroethane	88
Tetrachloroethene	89
2-Hexanone	88
Dibromochloromethane	90
1,2-Dibromoethane (EDB)	88
Chlorobenzene	87
Ethyl Benzene	89
m,p-Xylene	89
o-Xylene	89
Styrene	91
Bromoform	95
Cumene	86
1,1,2,2-Tetrachloroethane	93
Propylbenzene	87
4-Ethyltoluene	87
1,3,5-Trimethylbenzene	87
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	88
1,4-Dichlorobenzene	92
alpha-Chlorotoluene	90
1,2-Dichlorobenzene	90
1,2,4-Trichlorobenzene	90
Hexachlorobutadiene	94

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	103	70-130

APPENDIX B

AQA AIR MODELING ANALYSIS REPORT

AIR DISPERSION MODELING FOR EMISSIONS FROM SOIL VAPOR EXTRACTION SYSTEM AT THE DOVER LANDFILL IN DOVER, NEW HAMPSHIRE

Performed by

AQA
Air Quality Associates

29 Seven Oaks Road
North Billerica, MA 01862

Performed for
GeoInsight, Inc.
25 Sundial Ave, Suite 515 West
Manchester, NH 03103

November 2, 2009

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1.0 OVERVIEW OF MODELING ANALYSIS

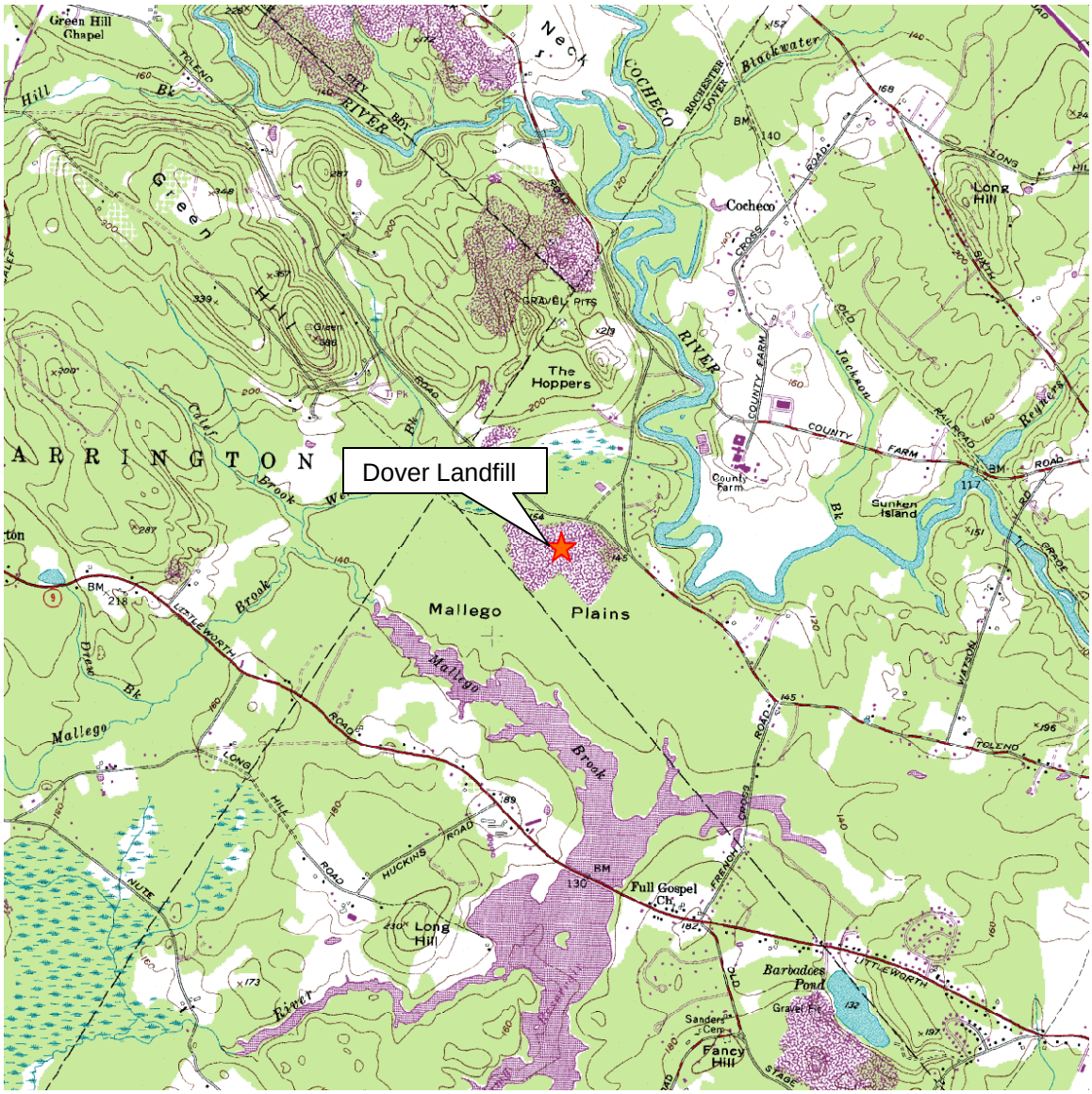
1.1 Modeling Overview

Atmospheric dispersion modeling was performed by Air Quality Associates (AQA) at the request of GeoInsight for emissions from a soil vapor extraction system at the Dover Landfill located in Dover, New Hampshire. The modeling was originally performed in early 2008. An additional area source was included in this latest modeling analysis. The modeling is used to estimate the downwind air concentrations of air toxics that are emitted from a 30-foot high stack and an area source located on the ground that is approximately 15 feet by 115 feet.

The emission sources were modeled using the AERMOD modeling system and 5 years of meteorological data from nearby airports. For consistency with the original modeling analysis, the same meteorological data and terrain data were used in this revised analysis. Thirteen chemicals were modeled for comparison to health-based thresholds. Details of the modeling approach can be found in Section 2. The site location is shown in Figure 1-1 and Figure 1-2.

Figure 1-1 Location of the Dover Landfill from Google Earth

Figure 1-2 Location of Dover Landfill (6 km by 6 km topo map)



1.2 Model Selection

The USEPA and the American Meteorological Society (AMS) formed the Regulatory Model Improvement Committee (AERMIC) in 1991 in order to develop a state-of-the-art regulatory dispersion model. The model resulting from this effort was AERMOD with PRIME algorithm (AERMOD). The PRIME downwash algorithm is an improvement to the earlier regulatory downwash algorithm and was developed with wind tunnel experiments. The PRIME

algorithm allows the model to calculate impacts in the cavity region generated behind a building, which can be important in many industrial facilities.

Since AERMOD is the USEPA-preferred model for short-range modeling, it was chosen as the air quality model for this project. AERMOD is the most advanced formulation of the steady-state Gaussian plume model. A software package developed by Trinity Consultants that contains the USPA model, AERMOD, called *BREEZE AERMOD GIS Pro Version 7* was applied in this modeling study. BREEZE allows the user to visualize the input to and output from the model.

1.3 Basis for Assessment

The maximum modeled 24-hour and annual concentrations at each receptor location will be compared to New Hampshire Regulated Toxic Air Pollutants (RTAP) thresholds as shown in Table 1-1.

Table 1-1 Regulated Toxic Air Pollutants (RTAP) Ambient Air Limits (AALs)

Chemical	24-hour ($\mu g/m^3$)	Annual ($\mu g/m^3$)
PCE	607	405
VC	9.3	6.2
1,1-DCA	2,037	1,358
1,1-DCE	200	200
MEK	5,000	5,000
MIBK	3,000	3,000
Benzene	5.7	3.8
Toluene	671	400
Ethyl benzene	1,000	1,000
Total Xylenes	1,550	100
Isopropyl benzene	1,237	400
1,3,5-Trimethylbenzene	619	412
1,2,4-Trimethylbenzene	619	412

2.0 INPUT DATA

2.1 Meteorological and Land Use Data

For refined modeling, the *Guideline on Air Quality Models* (US EPA 2005) recommends 1 year of on-site data or 5 years of off-site representative data. For this modeling, 5 years of meteorological data was downloaded from the New Hampshire Department of Environmental Services (NH DES) website. NH DES has already processed raw surface and upper air data with AERMET, the meteorological preprocessor for AERMOD. The hourly surface meteorological data from the NWS Station at Portsmouth, New Hampshire in addition to the upper air meteorological data from the NWS Station in Gray, Maine were used to develop the 5-year (2000-2004) AERMET data files (NH DES Version 4). The 5-year windrose plot for the surface data is shown in Figure 2-1. The figure shows the direction from which the wind is blowing. It can be seen that the Portsmouth data is not overly affected by sea breezes since the wind blows predominantly from the west. The sea breeze affect would have winds blowing from the ocean toward land or from the east. There were 322 calm hours (0.8%) in the data and 1511 missing hours (3.45%) over the 5 years.

Land use data such as surface roughness, albedo, and Bowen ratio is required as input to AERMET. The Land use data was incorporated by NH DES when they processed the met data using AERMET.

2.2 Receptor Grids

Receptors were placed out to a distance of 3 km from the source. The following Cartesian receptor grids were used in the modeling:

- 0 to 2 km: 100m spacing
- 2 km to 3 km: 500m spacing

The receptor grids are shown surrounding the source in Figure 2-2. Boundary receptors were spaced every 20 meters. Onsite receptors were disabled so that only off-site impacts would be evaluated. Figure 2-3 shows the boundary chosen for the landfill.

Figure 2-1 Windrose Plot for Portsmouth, New Hampshire (2000-2004)

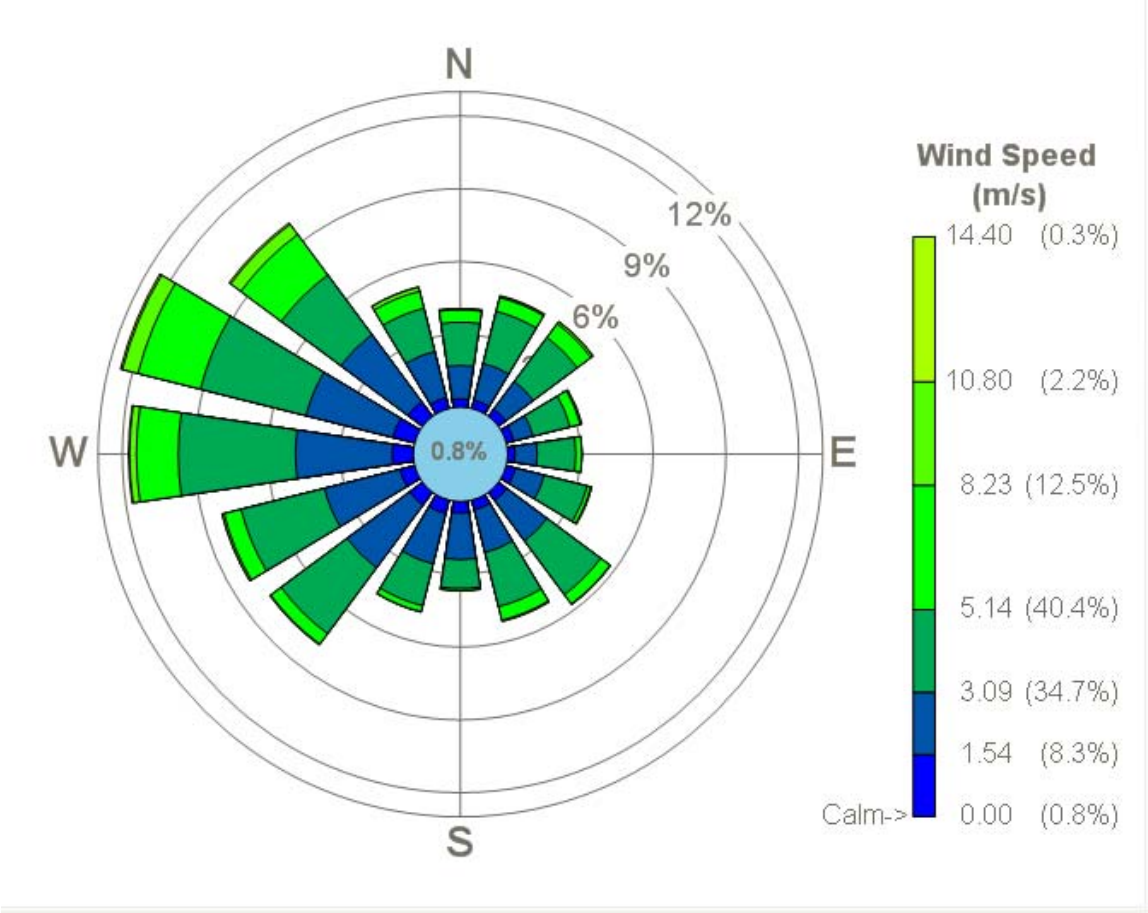


Figure 2-2 Receptor Grids

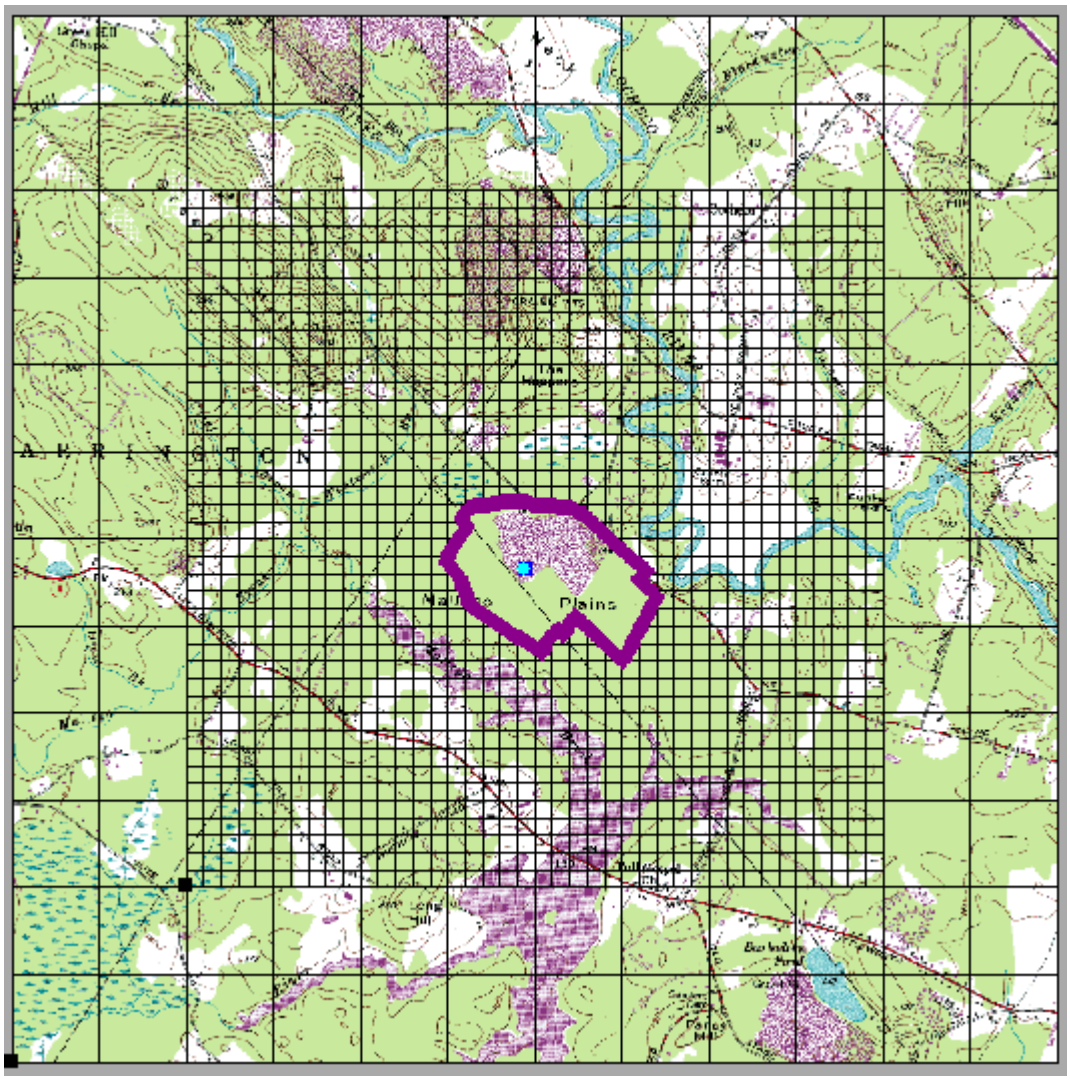
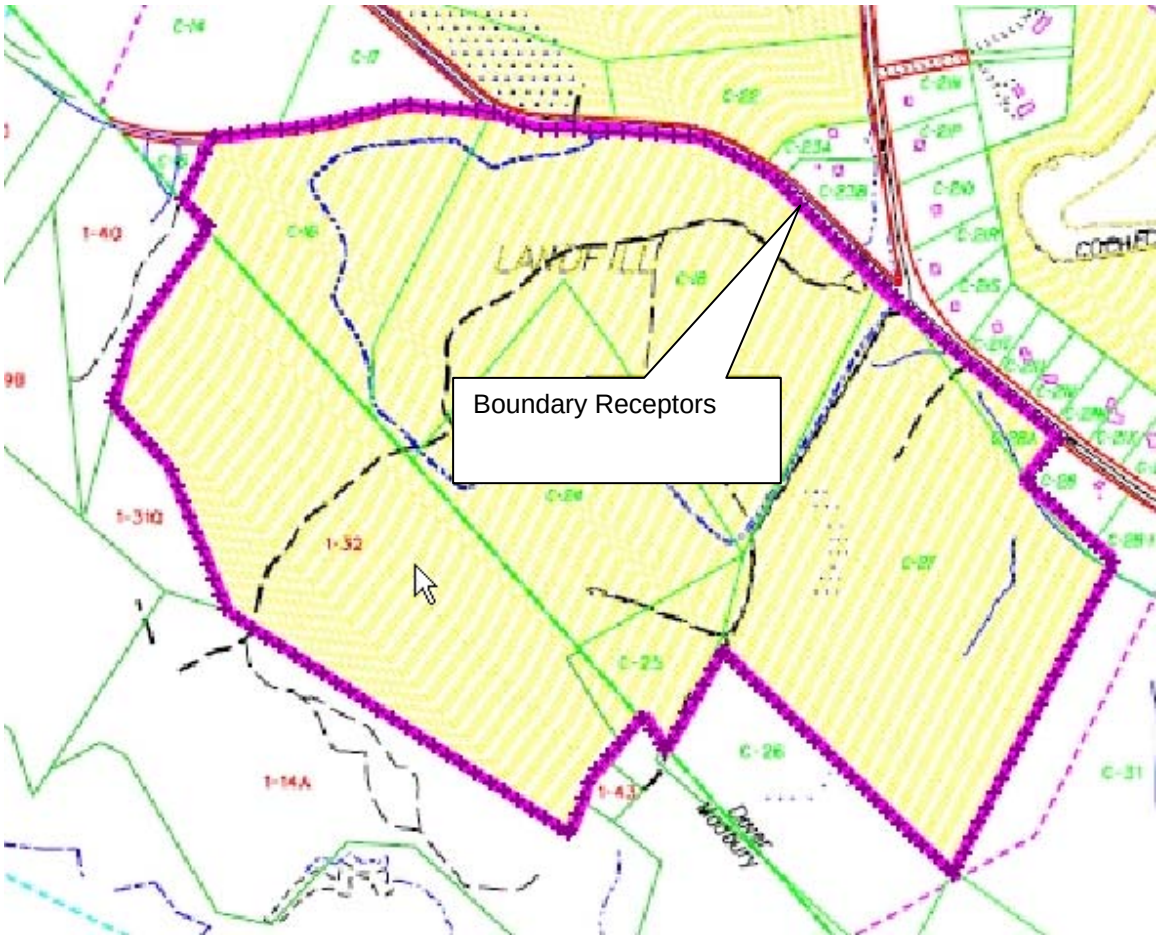


Figure 2-3 Boundary Receptors



2.3 Buildings

There is one building next to the stack that needed to be analyzed for downwash. It is a shed that is 15 feet tall, 20 feet wide and 20 feet long. The BPIP model was run using the BREEZE software and the resulting wind direction-specific building dimensions were included in the AERMOD simulations.

2.4 Terrain Data

Terrain data was obtained from www.WebGIS.com with 30 meter resolution from 7.5 minute Digital Elevation Model (DEM) files. The files contain elevations in the geographic

coordinate system of NAD27. BREEZE software reads DEM files directly, converts to WGS84/NAD83 and runs AERMAP to calculate the terrain heights of receptors and the source. A total of 9 DEM files were used to ensure that the AERMAP domain was significantly large enough to include any significant terrain elevations.

2.5 Source Data

The source locations are shown in Figure 2-4. The UTM coordinates of the sources are shown in Table 2-1. The stack release parameters are shown in Table 2-2. The area source parameters are shown in Table 2-3. A unit emission rate was used for both the stack and the area sources in the AERMOD modeling input files. For the 24-hour average, the model was simulated for all of the five years and a “post” file was saved for both the stack and the area source individually. A FORTRAN program was written to multiply the result by the emission rate of each of the chemicals for the stack and area sources and add them together and find the maximum. For the annual average runs, each of the five years was simulated individually and a “plot” file was saved for both the stack and the area source individually and a similar procedure was used. The emission rates for each of the chemicals are shown in Table 2-4. The FORTRAN programs are included in the CD attachment. Toluene was simulated with specific emission rates and was used to verify that the results were post-processed accurately.

Table 2-1 Source Locations (UTM NAD83, Zone 19)

Source	X-Coord (m)	Y-Coord (m)	Elevation (m)
Stack	341211.70	4786129.99	44.42
Area[1]	341207.8	4786455.4	45.16

Note: 1. Upper right hand corner coordinate.

Figure 2-4 Source Locations for the Dover Landfill

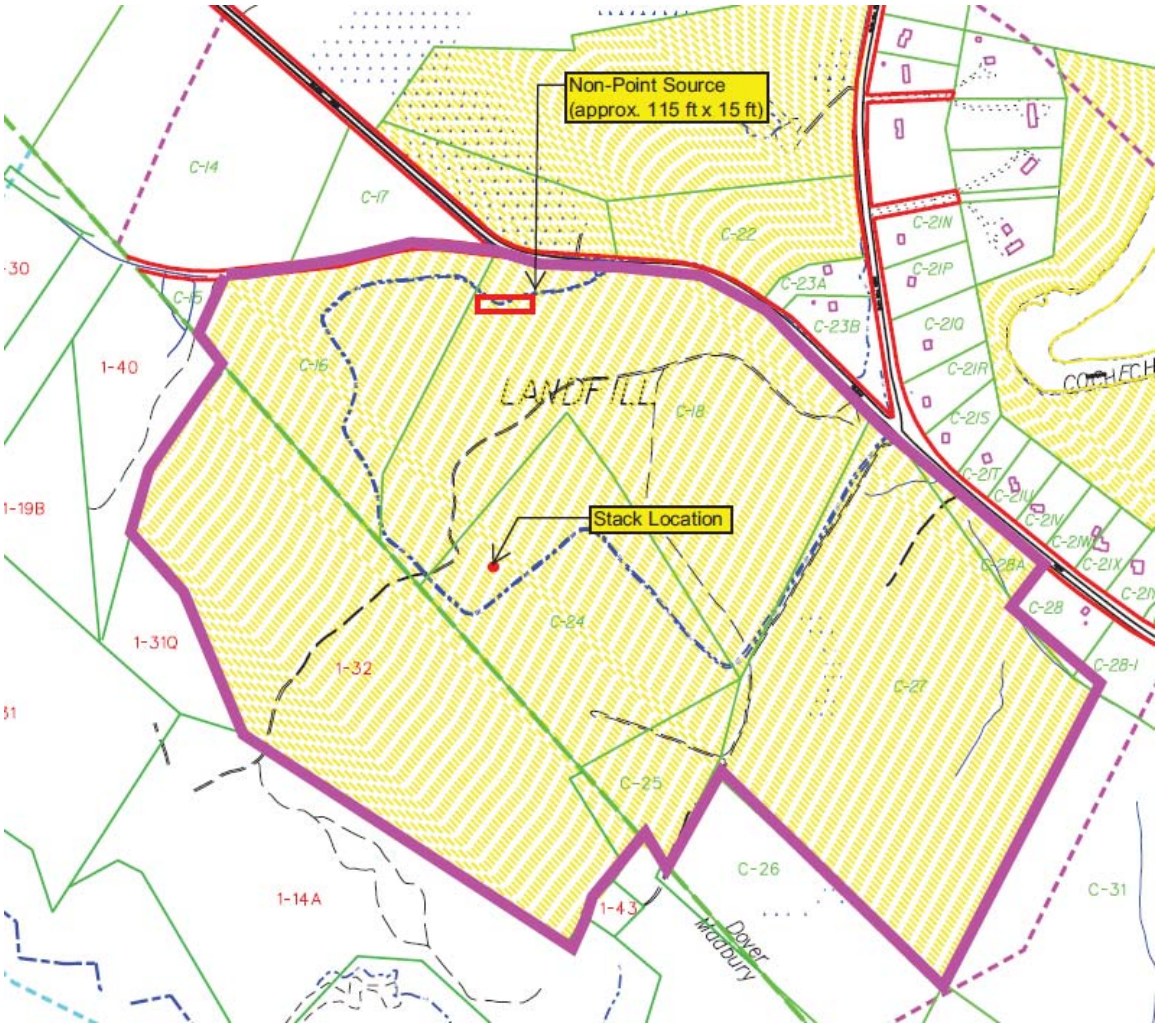


Table 2-2 Stack Release Parameters

Stack Height (ft)	Stack Diameter (inches)	Stack Flow Rate (ACFM)[1]	Stack Temp (F)	Emission Rate (g/s)
30	4	760.44	90	1

Note: 1. ACFM calculated from 730 SCFM and 90 ˚F assuming standard is 68 ˚F.

Table 2-3 Area Source Release Parameters

Length (ft)	Width (ft)	Initial Vertical Dimension (ft)[1]	Release Height (ft)[1]	Emission Rate (g/m^2-s)
115	15	0	0	1

Note: 1.The most conservative assumption is zero for initial vertical dimension and release height.

Table 2-4 Chemical Emission Rates per Source

Chemical	Stack Emissions (g/s)	Area Source Emissions (g/m^2-s)
PCE	0.320405	9.21E-08
VC	0.003445	4.08E-06
1,1-DCA	0.008958	1.27E-06
1,1-DCE	0.001378	2.19E-08
MEK	0.001102	7.45E-06
MIBK	0.0	4.38E-06
Benzene	0.001102	1.53E-07
Toluene	0.182596	1.32E-05
Ethyl benzene	0.016537	1.93E-06
Total Xylenes	0.080618	7.58E-06
Isopropyl benzene	0.0	9.21E-08
1,3,5-Trimethylbenzene	0.004479	2.63E-07
1,2,4-Trimethylbenzene	0.008269	8.77E-07

Note: Emission rates provided by XDD.

3.0 MODELING RESULTS

3.1 Results

The maximum modeled ground-level concentrations due to emissions from the Dover Landfill over a 5-year period are presented in Tables 3-1 and 3-2 for two time averages (24-hour and annual, respectively). The AERMOD modeling files are attached in Appendix A (on a CD). The post and plot files were processed in order to determine these maximum concentrations. Toluene was used to check that the postprocessors worked correctly and has been included in the CD.

Table 3-1 Maximum 24-hour Average Concentrations Predicted by AERMOD Over 5 Years

Chemical	X (m)	Y (m)	Date	Result ($\mu g/m^3$)	AAL ($\mu g/m^3$)	% of AAL
PCE	341101	4785787.3	4010324	11.02	607	1.82%
VC	341260.4	4786500.3	2101924	2.42	9.3	26.03%
1,1-DCA	341260.4	4786500.3	2101924	0.7928	2,037	0.04%
1,1-DCE	341101	4785787.3	4010324	0.0476	200	0.02%
MEK	341260.4	4786500.3	2101924	4.40	5,000	0.09%
MIBK	341260.4	4786500.3	2101924	2.59	3,000	0.09%
Benzene	341260.4	4786500.3	2101924	0.0958	5.7	1.68%
Toluene	341260.4	4786500.3	2101924	8.63	671	1.29%
Ethyl benzene	341260.4	4786500.3	2101924	1.22	1,000	0.12%
Total Xylenes	341260.4	4786500.3	2101924	4.86	1,550	0.31%
Isopropyl benzene	341260.4	4786500.3	2101924	0.0543	1,237	0.00%
1,3,5-Trimethylbenzene	341260.4	4786500.3	2101924	0.1767	619	0.03%
1,2,4-Trimethylbenzene	341260.4	4786500.3	2101924	0.5568	619	0.09%

Table 3-2 Maximum Annual Average Concentrations Predicted by AERMOD Over 5 Years

Chemical	X (m)	Y (m)	Date	Result ($\mu g/m^3$)	AAL ($\mu g/m^3$)	% of AAL
PCE	341498.9	4785867	2000	1.305	405	0.32%
VC	341260.4	4786500	2002	0.1516	6.2	2.44%
1,1-DCA	341260.4	4786500	2002	6.60E-02	1,358	0.005%
1,1-DCE	341498.9	4785867	2000	5.62E-03	200	0.003%
MEK	341260.4	4786500	2002	0.2647	5,000	0.01%
MIBK	341260.4	4786500	2002	0.1542	3,000	0.01%
Benzene	341260.4	4786500	2002	8.02E-03	3.8	0.21%
Toluene	341260.4	4786500	2002	0.8969	400	0.22%
Ethyl benzene	341260.4	4786500	2002	0.1072	1,000	0.01%
Total Xylenes	341260.4	4786500	2002	0.4584	100	0.46%
Isopropyl benzene	341260.4	4786500	2002	3.24E-03	400	0.001%
1,3,5-Trimethylbenzene	341260.4	4786500	2002	1.99E-02	412	0.00%
1,2,4-Trimethylbenzene	341260.4	4786500	2002	5.05E-02	412	0.01%

The locations of the receptors with maximum annual and 24-hour concentrations are shown in Figure 3-1. The RTAPs with the lowest emission rates from the area source (PCE and 1,1-DCE) have different maximum locations than the rest of the RTAPs, where the area source dominated the results. Figures 3-2 and 3-3 show the highest off-site 24-hour average and annual average concentrations over the 5-year period recorded at each receptor for the worst-case chemical (VC, the chemical with the highest percentage of the AAL).

Figure 3-1 Receptors of Maximum Off-Site Impact

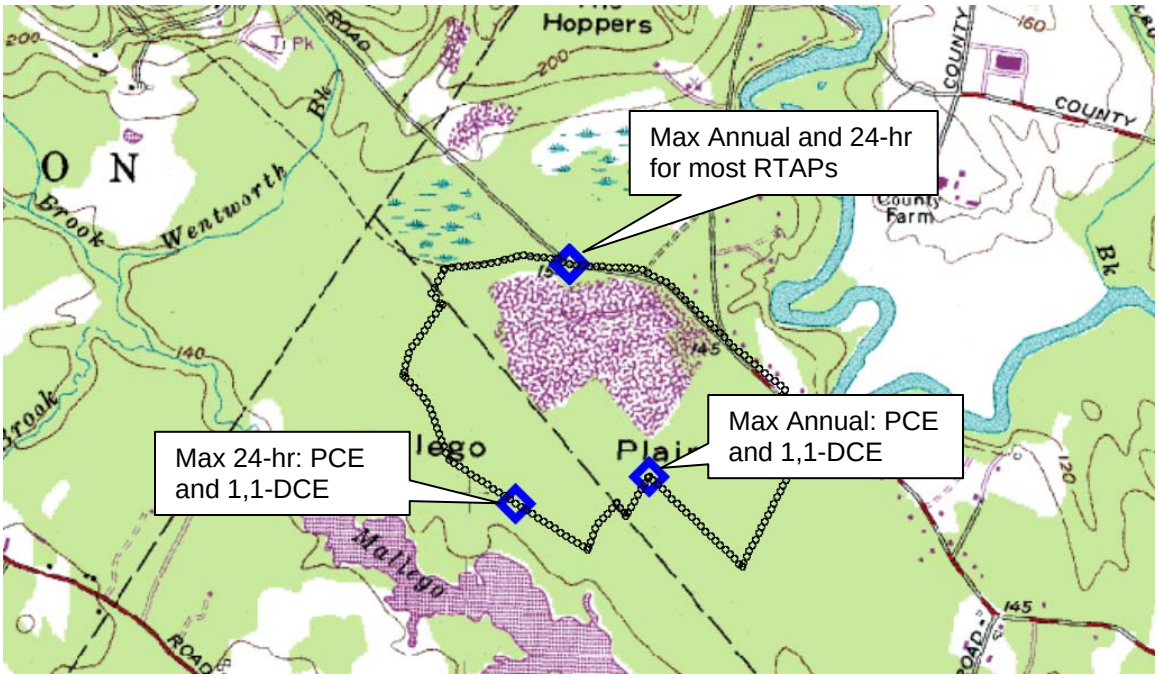


Figure 3-2 Highest Modeled 24-hour Average VC (μg/m^3)

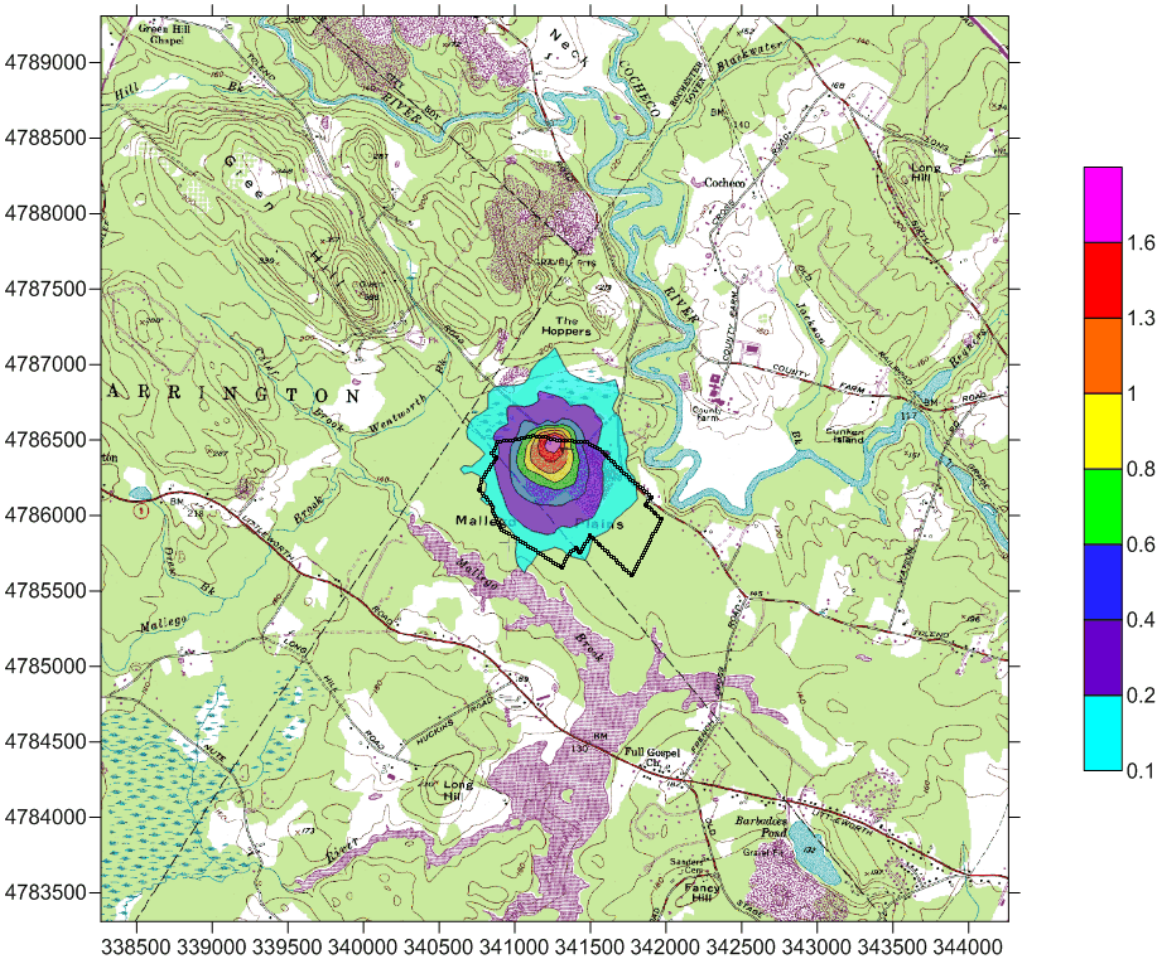
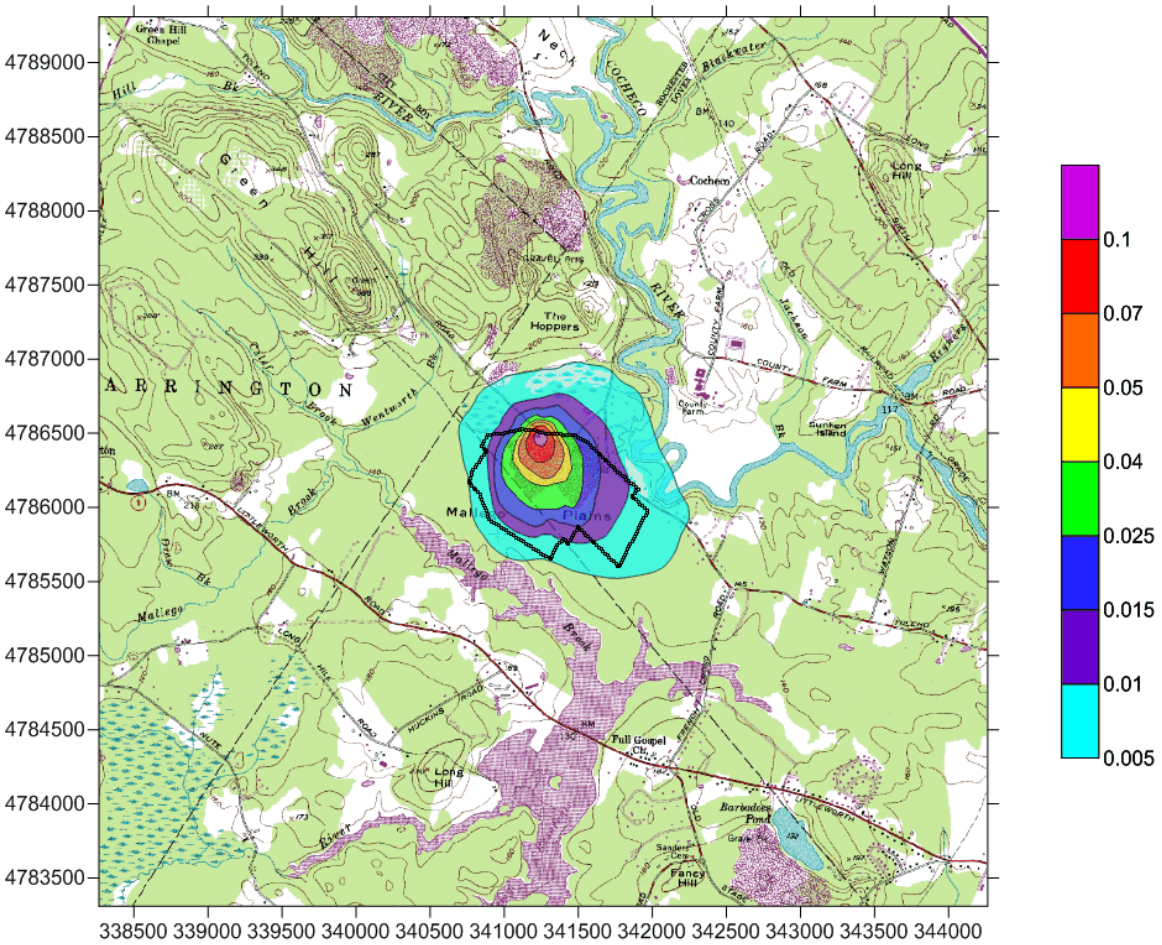


Figure 3-3 Highest Modeled Annual Average VC Concentration (μg/m^3)



3.2 Conclusions

The maximum offsite 24-hour average and annual average concentrations of RTAP emissions from the Dover Landfill are below NH RTAP thresholds for the 13 chemicals that were modeled.

4.0 REFERENCES

US EPA, 2005. *Guideline on Air Quality Models.* Appendix W to 40 CFR Part 51.

US EPA, 2004. *User's Guide for the AMS/EPA Regulatory Model - AERMOD*. Office of Air Quality Planning and Standards. Research Triangle Park. EPA-454/B-03-001

APPENDIX A
AERMOD MODELING FILES (CD

SUMMARY AND STATUS OF ACTIVITIES – Q1 – APRIL 10, 2010
ECOTOXICITY AND HUMAN HEALTH ASSESSMENT OF THE COCHECO RIVER
PRE-DESIGN INVESTIGATION
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
DOVER, NEW HAMPSHIRE

1. Summary of Activities

None

2. Deliverables and Correspondence

On January 14, 2010, GeoInsight submitted a Project Technical Memorandum to the Agencies that summarized the results of the second sediment sampling event that was conducted in June 2009.

3. Schedule for Next Quarter

There are no activities scheduled for next quarter.

4. Status of Activities

The Project Technical Memorandum is currently under review by the Agencies.

5. Modifications

None.

MASTER SCHEDULE OF ANTICIPATED ACTIVITIES - YEAR 2010
DOVER MUNICIPAL LANDFILL SUPERFUND SITE
TOLEND ROAD
DOVER, NEW HAMPSHIRE

	2009			2010											
	Q4			Q1			Q2			Q3			Q4		
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
SOURCE CONTROL															
Source Control Remedial Design															
Work Plan for Remedial Design (approved November 9, 2009)															
30 Percent Remedial Design (submitted March 9, 2010)															
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 Gauging and 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															
Final Report (submitted January 14, 2010)															
Environmental Monitoring Plan															
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															
First Monitoring Event (Spring) 2010															
Second Monitoring Event (Winter) 2010															
Summary Report: First Monitoring Event (Summer) Year 2010															