

ILLINOIS EPA RCRA CORRECTIVE ACTION CERTIFICATION

This certification must accompany any document submitted to Illinois EPA in accordance with the corrective action requirements set forth in a facility's RCRA permit. The original and two copies of all documents submitted must be provided.

1.0 FACILITY IDENTIFICATION

Name: WRB Refining LLC - Wood River Refinery County: Madison
Street Address: 900 South Central Ave. Site No. (IEPA): 1191150002
City: Roxana, IL 62084 Site No. (USEPA): ILD 080 012 305

2.0 OWNER INFORMATION

Name: Not Applicable

Mailing
Address: _____

Contact Name: _____

Contact Title: _____

Phone No.: _____

3.0 OPERATOR INFORMATION

Equilon Enterprises LLC d/b/a Shell Oil Products US

17 Junction Drive, PMB #399

Glen Carbon, IL 62034

Kevin Dyer

Principal Program Manager

618-288-7237

4.0 TYPE OF SUBMISSION (check applicable item and provide requested information, as applicable)

- ☐ RFI Phase I Workplan/Report
☐ RFI Phase II Workplan/Report
☐ CMP Report; Phase _____

☒ Other (describe):
3rd Quarter 2011 Soil Vapor Sampling Report
Date of Submittal _____

IEPA Permit Log No. _____
Date of Last IEPA Letter
on Project _____
Log No. of Last IEPA
Letter on Project B-43R-CA-20

Does this submittal include groundwater information: ☐ Yes ☒ No

5.0 DESCRIPTION OF SUBMITTAL: (briefly describe what is being submitted and its purpose)

Soil vapor sampling report for the 3rd Quarter 2011 sampling event in the project area in the Village of Roxana.

6.0 DOCUMENTS SUBMITTED (identify all documents in submittal, including cover letter; give dates of all documents)

Cover letter, RCRA Corrective Action Certification and 3rd Quarter Soil Vapor Sampling Report

7.0 CERTIFICATION STATEMENT - (This statement is part of the overall certification being provided by the owner/operator, professional and laboratory in Items 7.1, 7.2 and 7.3 below).

The activities described in the subject submittals have been carried out in accordance with procedures approved by Illinois EPA. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

EPA RCRA Corrective Action Certification

For: Equilon Enterprises LLC d/b/a Shell Oil Products US

Date of Submission: November 28, 2011

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- 7.1 **OWNER/OPERATOR CERTIFICATION** (Must be completed for all submittals. Certification and signature requirements are set forth in 35 IAC 702.126.) All submittals pertaining to the corrective action requirements set forth in a RCRA Permit must be signed by the person designated below (or by a duly authorized representative of that person):

1. For a Corporation, by a principal executive officer of at least the level of vice-president.
2. For a Partnership or Sole Proprietorship, by a general partner or the proprietor, respectively.
3. For a Governmental Entity, by either a principal executive officer or a ranking elected official.

A person is a duly authorized representative only if:

1. the authorization is made in writing by a person described above; and
2. the written authorization is provided with this submittal (a copy of a previously submitted authorization can be used).

Owner Signature: _____

(Date)

Title: _____

Operator Signature: Kevin Edgeman

10/12/11
(Date)

Title: Principal Program Manager

- 7.2 **PROFESSIONAL CERTIFICATION** (if necessary) - Work carried out in this submittal or the regulations may also be subject to other laws governing professional services, such as the Illinois Professional Land Surveyor Act of 1989, the Professional Engineering Practice Act of 1989, the Professional Geologist Licensing Act, and the Structural Engineering Licensing Act of 1989. No one is relieved from compliance with these laws and the regulations adopted pursuant to these laws. All work that falls within the scope and definitions of these laws must be performed in compliance with them. The Illinois EPA may refer any discovered violation of these laws to the appropriate regulating authority.

Professional's Signature: Robert B. Billman

11/21/11
Date:

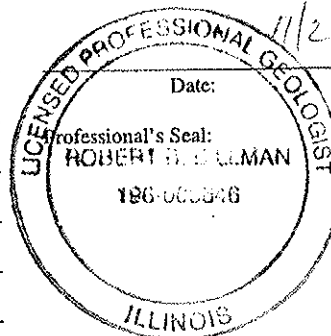
Professional's Name: Robert B. Billman

Professional's Address: URS Corporation

1001 Highlands Plaza Drive West

St. Louis, MO 63110

Professional's Phone No.: 314-743-4108



- 7.3 **LABORATORY CERTIFICATION** (if necessary) - The sample collection, handling, preservation, preparation and analysis efforts for which this laboratory was responsible were carried out in accordance with procedures approved by Illinois EPA.

Name of Laboratory Air Toxics Ltd.

Michelle Hayes
Signature of Laboratory
Responsible Officer

9/28/11
Date

Mailing Address of Laboratory

180 Blue Ravine Rd. Suite B

Folsom, CA 95630

Michelle Hayes VP of R&D
Name and Title of Laboratory Responsible Officer



November 28, 2011

Mr. Steven F. Nightingale, P.E.
Manager, Permit Section
Illinois Environmental Protection Agency
Bureau of Land
1021 North Grand Avenue East
Springfield, Illinois 62794

**Subject: Soil Vapor Sampling Report – 3rd Quarter 2011
Roxana, Illinois
119115002 – Madison County
Equilon Enterprises LLC d/b/a Shell Oil Products US
Log No. B-43R-CA-20**

Dear Mr. Nightingale:

On behalf of Shell Oil Products US, URS Corporation is submitting the enclosed report for your review. This sampling was required by Condition 3 of the Agency's letter dated August 5, 2010.

If you have any questions during your review, please contact Kevin Dyer, SOPUS Principal Program Manager, at kevin.dyer@shell.com (618/288-7237), or me at bob.billman@urs.com (314/743-4108).

Sincerely,

A handwritten signature in blue ink, reading "Robert B. Billman".

Robert B. Billman
Senior Project Manager

Enclosures: RCRA Corrective Action Certification and Report (original plus 2 copies)

Cc: Kevin Dyer, SOPUS
Marty Reynolds, Village of Roxana (Repository)
Eric Petersen, ConocoPhillips
David Webb, IDPH
Jim Moore, IEPA
Repository - Roxana Public Library
Gina Search – IEPA, Collinsville

1001 Highland Plaza Drive West, Suite 300
St. Louis, MO 63110
Phone: 314.429.0100
Fax: 314.429.0462

R E P O R T

SOIL VAPOR SAMPLING – 3RD QUARTER 2011

Roxana, Illinois

Prepared for:

Shell Oil Products US
17 Junction Drive
PMB#399
Glen Carbon, Illinois 62034

November 2011



URS Corporation
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110
(314) 429-0100
Project 21562593

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Shell Oil Products US (SOPUS) has been conducting a subsurface investigation in the Village of Roxana in the area generally bounded by the alley north of East First Street, Illinois Route 111 and the property boundary (aka West Fenceline) of the WRB Refining LLC Wood River Refinery (WRR) (**Figure 1**). For the purposes of presentation in this report only, the combined area is collectively referred to as the “Investigation Area.” In addition, some limited investigation has been conducted inside the WRR; this work was conducted in cooperation with ConocoPhillips Company (ConocoPhillips). The Investigation Area includes a portion of a residential area in the Village of Roxana, the Public Works Yard for the Village, and the adjoining portions of the WRR. For the purposes of this report, the term “Village” is used to denote the residential area generally bounded by the alley north of East 1st Street (north), 8th Street (south), Chaffer Street (east) and Route 111 (Central Avenue) (west).

SOPUS has been investigating and delineating soil vapor in the investigation area through the installation, development, and sampling of vapor monitoring ports (VMPs). Vapor monitoring locations (VMP-1 through -16) were installed based on a work plan submitted to the Illinois Environmental Protection Agency (IEPA) on behalf of SOPUS on January 21, 2009. IEPA approved the work plan with conditions on May 12, 2009. The results of the vapor investigation and delineation efforts were presented in the *Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation Report*, dated February 18, 2010 (SOPUS, 2010a). Based on recommendations contained in that report, an additional four vapor monitoring ports were installed, developed, and sampled at three new vapor monitoring locations (VMP-17 through -19) in the Spring/Summer 2010, and the results were documented in the *Addendum to February 2010 Report – Supplemental Investigation Activities*, dated September 20, 2010 (SOPUS, 2010b).

IEPA provided comments to the February 18, 2010 report in a letter to SOPUS dated August 5, 2010. In particular, Comment number 3 required quarterly soil vapor sampling and reporting. In addition, Comment number 2 described the need to further delineate the extent of soil vapors beneath the area. Six VMPs (VMP-20 through VMP-25) were installed and were added to the quarterly sampling program beginning with the 1st Quarter 2011 (1Q11) event. The locations of points in the soil vapor sampling network are presented on **Figure 2**.

IEPA provided further comments in the March 16, 2011 letter to SOPUS approving the *Soil Vapor Extraction (SVE) Pilot Test Workplan*. In particular, Comment number 2 required that quarterly soil vapor sampling continue at the 25 VMP locations and Comment number 9 requested an updated report, including a discussion of the geology, extent of groundwater impact, and impacted soil vapor distribution. This information was included in the 1st Quarter

(1Q11) and 2nd Quarter 2011 (2Q11) reports (SOPUS, 2011a and SOPUS, 2011b), and has been updated for this report.

This section summarizes the current understanding of the investigation area geology and hydrogeology

2.1 GEOLOGY

The investigation area is located approximately 1.5 miles east of the Mississippi River within the American Bottoms floodplain. The surface topography is generally flat; however it slopes downward to the west-southwest in the southwestern portion of the Village, with a total drop in elevation of approximately 15 feet across the area.

The ground surface in the Village, where not developed with structures, is primarily grass covered with either concrete and/or chip-and-seal alleys and streets. Beneath any man-made fill material, the subsurface conditions generally consist of silty clay underlain by sands to the depths investigated.

The stratigraphy beneath the investigation area consists of the following materials, from the ground surface down:

- Fill - (mainly clay, some gravel and cinders, etc.) Extends from the surface up to approximately six feet below ground surface (bgs).
- Clay/Silt - Primarily silty clay. Where present, the clay generally extends from the base of the fill to approximately 12 feet bgs.
- Sand - Consisting primarily of fine to medium grained (which coarsens with depth) sand with some silt and clay, especially at the shallower depths. The sand begins at the base of the clay (or base of the fill if the clay is not present) and extends to the total depth of the borings.
- Discontinuous lower permeability lenses of clay with some silt and sand are occasionally present. These lenses vary in thickness from 1 inch to a few feet and do not appear to be laterally (or vertically) extensive.

Cross-sections depicting the underlying geology were previously presented in the *Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation Report*, dated February 18, 2010 (SOPUS, 2010a). These cross-sections were developed based on information provided on CPT logs and logged borings. A modified cross-section presenting analytical data is presented later in **Section 4.2** of this report.

2.2 HYDROGEOLOGY

Groundwater in the sands underlying the investigation area is the primary source for large



volume water production in the area (e.g., industrial and municipal supply). Prior to development in the area, the natural movement of groundwater was toward the west (toward the Mississippi River). Since development in the area, groundwater pumping has altered the groundwater flow in the area such that it now flows toward the nearby pumping wells (e.g. WRR, BP, etc.).

The water table is currently encountered at a depth of approximately 25 to 40 feet bgs (approximately elevation 403 to 406), this variation in depth of groundwater from the ground surface is due to a change in surface elevation between the southern portion of the study area and the northern portion. Therefore, there is generally a 15 to 30 foot thick vadose (unsaturated) zone in the sand. The water levels have risen approximately 10 feet along the WRR West Fenceline since 2007.

As indicated above, groundwater is hydraulically connected with the Mississippi River, however, given the large distance from the river and nearby high-volume groundwater pumping (e.g., WRR, BP, etc.) water level fluctuations due to river changes in this area are muted.

There are discontinuous low permeability clay lenses above the water table (approximately 20 feet bgs) mixed with silt and sand. This creates isolated perched, water bearing zones. However, due to the discontinuous nature, the perched groundwater lenses are limited in occurrence.

Weekly gauging is performed to determine the groundwater flow conditions at the WRR and within the Village of Roxana. **Figure 3** provides a representation of the groundwater potentiometric surface for the 3Q11 (week of September 19, 2011). **Figure 4** provides the groundwater potentiometric surface for the investigation area with respect to the deepest vapor ports. The gauging results indicate that many of these ports were submerged beneath the water table during this event. The results of this gauging as compared to the deepest ports are discussed further in **Section 3.1**.

The 3rd Quarter 2011 (3Q11) soil vapor sampling was performed by URS in accordance with applicable URS site-specific Standard Operating Procedures (SOPs), that incorporate previous IEPA comments, conditions, and/or modifications. The 3Q11 vapor sampling event field activities were conducted between July 25 and August 10, 2011, with a re-sample being conducted on August 25, 2011 for one vapor port (VMP-11-29).

Health and Safety during the field activities was governed by the *Route 111/Rand Avenue Vicinity Investigation Health and Safety Plan (HASP)*, dated January 2011 (URS, 2011a), and updates as prepared by URS. In addition, for work performed on WRR property, health and safety procedures were supplemented by the *ConocoPhillips Environmental and Geotechnical Work 2011 HASP*, dated May 2011 (URS, 2011b), as prepared by URS. More information on site health and safety procedures is presented in **Section 3.3**.

3.1 VAPOR MONITORING SAMPLING

The investigation area includes three separate areas: a portion of a residential area in the Village of Roxana (Village); the Public Works Yard for the Village; and the adjoining portion of the WRR. The soil vapor sampling network currently consists of 25 VMP locations (see **Figure 2**). Ports are generally at four depths¹ throughout the subsurface at each location. These different sample depths are designated by the top depth of the screened interval in the sample IDs used during this field investigation. The individual ports are labeled and color coded in the field, shallow to deep, using the color scheme of yellow (5 feet bgs), blue (second interval), green (third interval), and red (fourth interval (deepest)). Single ports that were added during the supplemental sampling, conducted in 2Q10, are color coded white.

Vapor Monitoring Port Sampling

VMP sampling activities were attempted at each vapor monitoring port. The sampling was performed in accordance with SOP No. 44R – Soil Vapor Purging and Sampling, which was presented in the Soil Vapor Sampling 3Q10 Report (SOPUS, 2010c).

- Data pertaining to canister ID, start and finish time, initial and final vacuum readings, purge volumes, and leak checks were recorded electronically using a touchpad in a Soil Vapor Sampling – Canister Sampling database. Data recorded in the field using portable field analyzers such as a photoionization detector (PID), flame ionization detector (FID), multi-gas meter, landfill gas meter, and a helium gas detector were recorded electronically using a touchpad in a Soil Vapor Sampling – Tedlar Sampling Data

¹ With the exception of single shallow ports at VMP-17, 18, and 19 and five ports at VMP-3.

database. Field data sheets are included for the canister and bag sampling data in **Appendix A**. Field measurements from this event and previous events are presented on **Table A-1** in **Appendix A**, following the field sheets.

- Prior to mobilizing for sampling, an initial stainless-steel canister vacuum check was performed. A designated pressure gauge provided by the laboratory was attached to the stainless-steel canister inlet. The stainless-steel canister valve was opened completely. The pressure gauge reading was recorded as “Initial Vacuum Reading” on the stainless-steel canister tag and the field sheet. This ensured that the canister showed a vacuum of approximately 28 to 30 inches of mercury (Hg). If the canister displayed a vacuum of less than 25 inches of Hg, the canister was set aside and returned to the lab without a sample.

In addition, prior to mobilization, each flow controller was subjected to an isolated vacuum check to ensure that frequently used connectors did not leak. This was conducted by attaching a plug to one end of the controller and a barbed connector to the other. A 15 mL hand pump with a vacuum gauge was then attached to the barb. The hand pump evacuated the air inside the controller until a vacuum of at least 10 inches Hg was achieved. If the vacuum change over five minutes was ≤ 0.5 in. Hg, the controller was considered acceptable for sampling use.

- The following steps were used to collect each sample.
 - Upon arrival at a sampling location, the sampling crew would open the vapor point vault to check integrity of the surface components of each of the individual soil vapor monitoring ports. This included checking that each port was closed with its Swagelok[®] stainless-steel reducer and plug in place and properly labeled to identify the depth.

- The sample train was set up as shown in the photo on the following page. A hose connector was connected directly to the monitoring port using compression ferrule connections. The sample train was then attached through Tygoprene[®] tubing. A flow controller, provided by the laboratory, was then connected to the stainless-steel canister inlet. Flow controllers were not reused during the sampling event. Each flow controller is pre-set by the laboratory to collect the sample over a half-hour period. For a 1-Liter stainless-steel canister, one half-hour is a standard collection time (~27 ml/min). Once the sample train was assembled, a vacuum leak check was performed in accordance with SOP 44R.
- An enclosure was then placed over the VMP and assembled sample train as shown in the photo below. The enclosure has openings for:
 - The introduction of tracer gas (i.e., helium);
 - Pressure relief to the atmosphere and access for a tracer gas monitoring device;
 - Tygoprene tubing to connect to the peristaltic pump for Valve #1 (out) and Valve #2 (in and out).



The enclosure has sufficient glove access to open or close all valves within. The enclosure was sealed to the ground at each location with a hydrated bentonite seal.

- Helium gas was introduced into the enclosure until the atmosphere reached a concentration of approximately 50% Helium; the regulator on the helium tank was then manually controlled to maintain that range.
- Three volumes were purged from each monitoring port prior to sampling using a 15 mL hand pump². If the pump gauge held a vacuum, these VMPs were assumed to be saturated with water and no sample was collected (see additional information below in the section on “Additional Notes on VMP Sampling”). This was compared against the groundwater measurements from the initial gauging event for confirmation.
- Following purging, a Tedlar bag sample was collected using a peristaltic pump to obtain readings for helium with a Dielectric Technologies MGD-2002 field analyzer. This check was used to verify the vacuum check for the sample train and integrity of the sample port. If the helium readings were $\geq 10\%$ of the concentration of the helium in the enclosure, the Tedlar bag was additionally analyzed using a Landtec landfill gas detector to obtain a direct methane reading. The presence of methane can cause a false positive helium reading on the MGD-2002 field analyzer.
- Once the initial helium leak check was completed, the stainless-steel canister was opened to collect a sample for approximately 30 minutes or until a vacuum gauge reading of 5 inches Hg was observed. The vacuum gauge was always allowed to reach less than 10 inches Hg, but was never allowed to drop below 2 inches of Hg. Once the stainless-steel canister was filled, the valve is closed (isolating it from the sample train) and soil vapor is bypassed to the second Tedlar bag.

² The purge volume was calculated using the following assumptions: vapor port tubing (1/8-in diameter): 2.41 mL/foot (single volume) and sample train assembly (1/4-in diameter): 9.65 mL/foot (single volume).

- A second Tedlar bag was filled following the completion of the stainless-steel canister sampling. Soil vapor readings were taken from the Tedlar bag for total volatile organics with a Multi-RAE PID and a Thermo Scientific TVA 1000 Vapor Analyzer FID; for hydrogen sulfide (H₂S), carbon monoxide (CO), oxygen (O₂), and lower explosive limit (LEL) with a Multi-RAE gas meter; and for carbon dioxide (CO₂), methane (CH₄), lower explosive limit (LEL), and oxygen (O₂) with a Landtec GEM 2000 landfill gas meter. Readings were also obtained and recorded for helium with helium detector. This check was used to verify the sample train integrity at the completion of sampling. If the helium readings were $\geq 10\%$ of the concentration of the helium in the enclosure, a 3rd Tedlar bag was collected as described below (see additional information below in the section on “Additional Notes on VMP Sampling”).
- At the completion of sampling, the stainless-steel canister and flow controller were removed and separated from the sample train and final vacuum reading were taken with a separate gauge. The stainless-steel canisters were then kept in a safe location, to minimize temperature change and protect the canister stem prior to shipping.
- At the completion of sampling, the port was closed with its plug to maintain port integrity.

The field sampling sheets for this event are provided in **Appendix A**. Field duplicates were collected to fulfill the QA/QC requirements. Field duplicates were collected by way of an additional T-connection in the sample train and attaching a second stainless-steel canister with a separate flow controller. Both the original and duplicate sample would be started at the same time. The results of the work are discussed in **Section 4.1**.

Additional Notes on VMP Sampling

Saturated VMP Screens – Weekly gauging is performed by SOPUS in the Village of Roxana and the WRR to determine groundwater flow conditions. The gauging data from July 2011 and September 2011 are presented in **Table 1**. **Figure 3** provides a representation of the potentiometric surface and groundwater flow conditions during the 3Q11 (week of September 19, 2011). **Figure 4** shows the groundwater potentiometric surface for the investigation area with respect to the deepest vapor ports. The gauging results indicate that many of these ports were expected to be submerged beneath the water table during this event. To confirm the submerged screens, purging was attempted at each of the deep ports with the 15 mL hand pump. Twenty

deep ports and one port closer to the surface (VMP-25-9.5) held vacuum or produced water when purging was attempted with the hand pump indicating saturated screens.

Re-sampling – Based on a review of the laboratory results, three samples contained helium at concentrations above the acceptable range, indicating a probable leak in the sample collection train. One of these ports, VMP-3-39, was determined to have been saturated when sampled, so no re-sample was attempted. Re-sampling was attempted at VMP-11-29 and VMP-16-19 on August 25, 2011. A sample was able to be collected from VMP-11-29. A sample could not be collected from VMP-16-19 after two attempts, due to increasing levels of helium in the first tedlar bag collected during sampling. It was determined that the ports at VMP-16 were most likely compromised and will need to be replaced.

3.2 HEALTH & SAFETY, DECONTAMINATION, AND INVESTIGATION DERIVED WASTE

Health & Safety

The soil vapor sampling was performed in general accordance with the site HASPs. URS field personnel primarily wore U.S. Environmental Protection Agency (USEPA) Level D personal protective equipment (PPE). In addition, work performed within the WRR was completed while wearing flame retardant clothing (FRCs).

A PID with a 10.6 electron volt (eV) probe and combustible gas indicator (CGI) were used during the field activities to monitor the air quality of the work zone for health and safety purposes. Field instruments were calibrated prior to each day's use in accordance with the manufacturer's specifications. Health and safety related information was primarily recorded in field logbooks. For work conducted on the WRR, ConocoPhillips personnel inspected the work areas and monitored the ambient air, as necessary, prior to the issuance of daily work permits (in areas where ConocoPhillips required).

Prior to beginning site work, and at the start of work each day, a daily safety meeting was held. The purpose of this meeting was to discuss the day's planned activities and to address any potential health and safety concerns. As a part of the daily safety meeting, activity hazard analyses (AHAs) were reviewed to address task specific safety concerns.

Additionally, the ambient temperature was monitored according to heat stress protection guidelines outlined in the URS Safety Management Standard (SMS) for heat stress. Each team was provided with a drink cooler with ice and sports drinks to keep field personnel hydrated. Extended breaks in air conditioning were encouraged during peak temperatures. Canopies were also provided to set up shaded work areas for field personnel.

Decontamination

Field equipment underwent decontamination procedures to ensure the health and safety of those present, to maintain sample integrity, and to minimize cross contamination between sampling locations.

Non-disposable/reusable sampling equipment (e.g., compression fittings) were decontaminated prior to the collection of each analytical sample by spraying with Alconox or Liquinox and distilled water. For vapor sampling equipment, a 15 mL hand pump was attached to the sampling apparatus and air was pumped into the sampling apparatus to remove any dust particles or moisture from inside the apparatus.

Investigation Derived Waste (IDW)

IDW including PPE and expendable materials (e.g., gloves and tubing) having a low probability of impact were collected in trash bags and disposed with municipal waste.

3.3 SAMPLE HANDLING AND LABORATORY TESTING**Sample Handling**

Stainless-steel canisters were labeled with a sample ID, site name, sampler initials, sample date and time, the parameters that were to be analyzed, and pre- and post- vacuum readings. After collection, the samples were logged on a chain of custody (COC) form and packaged in a UN certified box to prevent damage during shipment. The samples were then delivered, under the proper COC documentation, to the laboratory. Due to the potential flammable nature of the vapor in the stainless-steel canisters, the soil vapor samples were shipped as hazardous materials according to applicable International Civil Aviation Organization (ICAO) regulations.

Laboratory Testing

Air Toxics, Ltd of Folsom, California conducted the laboratory testing, under subcontract to URS. The following test methods were utilized during this scope of work:

- VOCs via Modified USEPA TO-15 (including butane and isopentane) for soil vapor, and
- Natural gases (defined for purposes of this report as oxygen, nitrogen, carbon monoxide, methane, carbon dioxide, ethane, and ethene) via Modified ASTM D-1946 + Helium for soil vapor.

URS worked with the laboratory to attain reporting limits for compounds that have screening criteria so that, to the extent possible, they were less than the screening criteria. URS requested

that Air Toxics report results between the method detection limit (MDL) and reporting limit (RL). Although results reported in this range are "J" - flagged as estimated, these data may be beneficial in cases where analytes would otherwise be reported as non-detect at RLs above screening levels. The laboratory provided URS with a list of their "base" RL capability for target analytes. Sample RLs are a product of base RL, pressurization dilution factor, and analytical dilution factor. Thus the sample RL will increase with increases in dilution factor. Results that fell below the RLs but above the MDL were "J"-flagged as estimated concentrations by the laboratory.

3.4 DATA QUALITY REVIEW AND DATA MANAGEMENT

Laboratory data were provided in electronic form. Analytical data were independently reviewed and qualified by URS. One hundred percent of the data were subjected to a data quality review (Level III review); ten percent of the data were subjected to a full data validation (Level IV validation). Evaluation of the data followed procedures outlined in the USEPA National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2008). Specific criteria reviewed included sample receipt condition and holding times, method blanks, surrogate spike recoveries, laboratory control samples, results reported from dilutions, and field duplicate results. The laboratory assigned data qualifiers on the basis of their quality control or to indicate sample analysis information (e.g., dilutions). Data qualifiers were also added by URS, as appropriate, and are included on the data tables and laboratory result pages. Laboratory data reports along with data reviews (Level III) and validation reports (Level IV) are included in **Appendix B**.

The results of the data review and validation are discussed in **Section 4.1**.

The screening values used were presented in IEPA's proposed amendments to Tiered Approach to Corrective Action Objectives (TACO) Title 35 – Part 742; Appendix B, Table H: Tier 1 Soil Gas and Groundwater Remediation Objectives for the Indoor Inhalation Exposure Route – Diffusion and Advection for soil vapor dated November 9, 2010 and are shown on **Table 2**. Note, not all TO-15 Method constituents have TACO screening criteria. A discussion of the soil vapor analytical results can be found in **Section 4.2**.

Field data and documentation collected as part of this scope of work became part of the project file. URS maintains the files for the site, and the database management system.

The following documentation was completed and supplements the COC records:



- Field logbooks
- Field sample collection sheets
- Safety Documentation

4.1 DATA QUALITY REVIEW RESULTS

For vapor sampling, a total of 72 investigative and 9 field duplicate samples were collected for analysis of VOCs (TO-15 analytes) and natural gases. Sample VMP-25-5-080911-DUP showed a significant difference between COC-designated canister receipt vacuum and the laboratory measured canister receipt vacuum. As a result, analysis of this sample was cancelled due to potential loss of sample integrity, thus bringing the total number of field duplicates analyzed to eight. As mentioned previously, data from samples VMP-3-39-080311, VMP-16-19-080511, and VMP-11-29-080711 were not used due to elevated laboratory helium results, indicating potential leakage within the sampling train during collection. Due to unfavorable sampling conditions, of the three samples with elevated laboratory helium results, only VMP-11-29 could be re-sampled; the re-sampling of VMP-11-29 was successful with results reported.

Laboratory method blanks were analyzed to evaluate for the existence and magnitude of any contamination resulting from laboratory activities. Compounds detected in blanks and qualified in samples are specified in the data reviews (**Appendix B**). Due to blank contamination, certain TO-15 VOCs were qualified non-detect (U) in 21 samples. Analytes qualified non-detect (U) due to method blank contamination were those previously qualified as estimated detect by the laboratory since the detections were below the reporting limits but above the method detection limits (J-flags).

Acceptable levels of accuracy and precision, based on Laboratory Control Samples / Laboratory Control Sample Duplicates (LCS/LCSD), surrogate, and field duplicate data, as discussed in the data reviews, **Appendix B**, were achieved for these sample delivery groups (SDGs) to meet the project objectives.

4.2 SOIL VAPOR ANALYTICAL RESULTS

The following TO-15 analytes were detected at concentrations above the reporting limit in soil vapor during this quarterly sampling event:

TO-15 Detections	
Acetone	Isopentane
Benzene	Isopropylbenzene
Butane	4-Methyl-2-pentanone
2-Butanone	2-Propanol
<i>Carbon disulfide</i>	n-Propylbenzene
<i>Chlorobenzene</i>	Styrene
<i>Chloroform</i>	Tetrachloroethene
Cyclohexane	Tetrahydrofuran
<i>Dichloromethane</i>	Toluene
<i>1,4-Dioxane</i>	<i>Trichloroethene</i>
Ethanol	1,2,4-Trimethylbenzene
Ethylbenzene	<i>1,3,5-Trimethylbenzene</i>
4-Ethyltoluene	2,2,4-Trimethylpentane
Heptane	m,p-Xylene
Hexane	o-Xylene

Italicized analytes were not detected above the reporting limit during the previous quarter. Additionally, several compounds were detected at concentrations estimated below the reporting limit.

Cumulative tabular summaries of the analytical results for the Village and for the Public Works Yard and WRR are presented in **Tables 3** and **4**, respectively. Analytical results were compared to the previously mentioned screening values. Sample results from VMP-1 through VMP-9, and VMP-18 through VMP-24 (located near residences in the Village) were compared against the proposed residential screening criteria and samples from VMP-10 through VMP-17, and VMP-25 (located at the Public Works Yard or WRR) were compared against the proposed industrial/commercial screening criteria. A cumulative tabular summary of the natural gas results is presented in **Table 5**. The analytical results for the soil vapor samples collected during this quarterly sampling event can be viewed in **Appendix B**.

Benzene, tetrachloroethene, trichloroethene, and m,p-xylenes were the only TO-15 analytes that exceeded their respective proposed screening criteria for the 3Q11. Benzene was selected as the key analyte to characterize soil vapor, in the paragraphs below. Xylene exceedances are associated with ports which also exhibit elevated benzene concentrations. Tetrachloroethene and trichloroethene are not directly related to the petroleum refining process.

Village



Benzene concentrations from locations within the Village ranged from non-detect ($< 0.004 \text{ mg/m}^3$) (VMP-23-10) to 280 mg/m^3 (VMP-4-23.5). The results of screening for samples collected in the Village against proposed residential screening criterion indicate that 10 of the sample locations had a port with a benzene concentration above the proposed residential screening criterion (0.37 mg/m^3) during this sampling event. The cumulative results for benzene in soil vapor for samples collected in the Village are depicted in **Figure 5**.

Public Works Yard

Benzene concentrations from locations within the Public Works Yard ranged from an estimated 0.0039 mg/m^3 (VMP-11-29) to $17,000 \text{ mg/m}^3$ (VMP-14-20). Samples from ports in four of the seven locations exceeded the proposed commercial/industrial screening criterion (2.8 mg/m^3) for benzene during this sampling event. The cumulative results for benzene in soil vapor for samples collected in the Public Works Yard are depicted in **Figure 6**.

WRR

Benzene concentrations from the two locations within the WRR were 0.54 mg/m^3 (VMP-16-13.5) and $3,500 \text{ mg/m}^3$ (VMP-12-25). The results of screening for samples collected in the WRR exceeded the proposed commercial/industrial screening criterion (2.8 mg/m^3) for benzene in the four of the five ports. The cumulative results for benzene in soil vapor for samples collected in the WRR are depicted in **Figure 7**.

Natural Gas Data

A summary of the natural gas results is presented in **Table 5**. Natural gas data in general, indicate that the concentration of methane increases as one goes from shallower to deeper sample depths which is opposite for oxygen concentrations that decrease as one goes from shallower to deeper sample depths (methane and oxygen are generally inversely correlated in soil vapor). The higher oxygen levels ($>5\%$) in the shallow sample depths with negligible methane indicate an environment capable of supporting aerobic biodegradation.

4.3 CONCEPTUAL SITE MODEL

Vapor Intrusion

The primary concern for shallow soil gas is the potential intrusion through basement and/or building slabs. In May 2011, SOPUS installed and began operating an interim Soil Vapor Extraction (SVE) system, using Internal Combustion Engines (ICE) near 4th and Chaffer Street. The lower concentrations observed in VMP-3 and -4 this round are likely related to the effectiveness of this system. In September 2011, SOPUS began installation of a full scale SVE

system to address the source of these vapors. **Figure 8** presents a cross-section along Chaffer Street with a vertical distribution of the benzene concentrations superimposed.

At most locations, oxygen is present in the shallow depths and little or no aromatic hydrocarbons (e.g., BTEX) are present. Carbon dioxide (i.e., biogas) levels are relatively high throughout the soil column at many locations which supports that degradation of petroleum hydrocarbons is occurring via aerobic biodegradation. While groundwater elevations are currently higher than in the past, there is up to 30 feet of open vadose zone which allows for biological degradation of constituents in soil vapor as they slowly diffuse upwards.

C Tech Development Corporation's Environmental Visualization System PRO, Version 9.52 (EVS-PRO) was used to model the estimated distribution of benzene in the soil vapor. **Figures 9** through **11** present a horizontal distribution of benzene at 5, 10, and 25 feet bgs, respectively.

Groundwater

The results of investigations to date depict two distinct but commingled groundwater plumes, a dissolved phase benzene plume located primarily beneath the Public Works Yard and a dissolved phase hydrocarbon plume located further north beneath the WRR and extending a short distance west beneath the Village. **Figure 12** presents the estimated distribution, as modeled in EVS-PRO, of dissolved phase benzene in the groundwater. As indicated in the figure, additional monitoring wells inside the refinery/along the west fenceline are being added to the sampling program in 4Q11. These data will better enable contouring of the concentrations to the north of approximately 6th Street.

The thickness of free phase product as observed during gauging during the 3Q11 is presented in **Figure 13**.

URS conducted the 3Q11 soil vapor sampling effort on behalf of SOPUS in the Village of Roxana (both the Village and the Public Works Yard) and a limited portion of the WRR. The following conclusions are based on the data collected as part of this work, as integrated with the results from previous work.

- Soil vapor samples were collected from 25 locations and 71 ports during the 3Q11 soil vapor sampling. The locations of higher soil vapor concentrations generally coincide with areas of the higher observed groundwater impact.
- The hydrocarbon vapors diffuse and biodegrade upwards through the soil, so as expected the highest concentrations are at depth and decrease closer to the surface.
- Within the Village, benzene concentrations range from ppb in the shallow samples to hundreds of ppm in deeper samples. The proposed residential screening criterion for advection and diffusion was exceeded in 17 ports at 10 locations throughout the village.
- Within both the Public Works Yard and the WRR, benzene concentrations range from ppb in the shallow samples to thousands of ppm in deeper samples. The proposed commercial/industrial screening criterion for advection and diffusion was exceeded in 10 ports at 5 locations within and surrounding the Roxana Public Works Yard and the WRR.
- Installation of the full-scale SVE system began in September. The primary objective of this system is to mitigate vapors along the West Fenceline of the WRR and in the vicinity of the Roxana Public Works Yard.

- Illinois Environmental Protection Agency (IEPA), 2009; (IEPA 2009); *Letter providing approval with comments and modifications of the SOPUS, 2009B work plan*. Issued to Shell Oil Products US (SOPUS), dated May 12, 2009.
- Illinois Environmental Protection Agency (IEPA), 2010; (IEPA 2010); *Letter providing approval with comments the SOPUS 2010 Delineation Report*. Issued to Shell Oil Products US (SOPUS), dated August 5, 2010.
- Illinois Environmental Protection Agency (IEPA), 2011; (IEPA, 2011); *Response to December 31, 2010 submittal*. Issued to Shell Oil Products US (SOPUS), dated March 16, 2011.
- Shell Oil Products US (SOPUS), 2008 (SOPUS, 2008); *Dissolved Phase Groundwater Investigation Work Plan – Roxana, Illinois*; Prepared by URS Corporation (URS); dated September 5, 2008.
- Shell Oil Products US (SOPUS), 2009 (SOPUS, 2009a); *Subsurface Investigation – Route 111/Rand Avenue Vicinity Investigation – Roxana, Illinois*; Prepared by URS Corporation (URS); dated January 21, 2009.
- Shell Oil Products US (SOPUS), 2009 (SOPUS, 2009b); *Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation Work Plan – Roxana, Illinois*; Prepared by URS Corporation (URS); dated January 21, 2009.
- Shell Oil Products US (SOPUS), 2010; (SOPUS, 2010a); *Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation Report - Roxana, Illinois*; Prepared by URS Corporation (URS); dated February 2010.
- Shell Oil Products US (SOPUS), 2010; (SOPUS, 2010b); *Addendum to February 2010 Report - Supplemental Investigation Activities - Roxana, Illinois*; Prepared by URS Corporation (URS); dated September 20, 2010.
- Shell Oil Products US (SOPUS), 2010; (SOPUS, 2010c); *Soil Vapor Sampling - 3rd Quarter 2010 - Roxana, Illinois*; Prepared by URS Corporation (URS); dated November 2010.
- Shell Oil Products US (SOPUS), 2011; (SOPUS, 2011a); *Soil Vapor Sampling - 1st Quarter 2011 - Roxana, Illinois*; Prepared by URS Corporation (URS); dated June 2011.
- Shell Oil Products US (SOPUS), 2011; (SOPUS, 2011b); *Soil Vapor Sampling – 2nd Quarter 2011 - Roxana, Illinois*; Prepared by URS Corporation (URS); dated July 2011.
- URS Corporation (URS), 2011 (URS, 2011a); *Route 111/Rand Avenue Vicinity Investigation Health and Safety Plan – Roxana, Illinois*; dated January 2011.
- URS Corporation (URS), 2011 (URS, 2011b); *ConocoPhillips Environmental and Geotechnical Work 2010 Health and Safety Plan – WRB Refining LLC Wood River Refinery*; dated May 2011.
- US Environmental Protection Agency (USEPA), 2008; (USEPA, 2008) *Contract Laboratory Program National Functional Guidelines for Organic Methods Data Review*



TABLE 1
CUMULATIVE GROUNDWATER GAUGING RESULTS

WELL ID/ QUARTER	TOP OF CASING (ft MSL)	DATE GAUGED	DEPTH TO PRODUCT (ft)	DEPTH TO WATER (Static)	WATER- PRODUCT INTERFACE (ft MSL)	PRODUCT ELEV. (ft MSL)	PRODUCT THICKNESS (ft)	CORRECTED W.L. ELEVATION (ft MSL)	COMMENTS
MW-1 Screened Interval Elevation: 399.45 - 384.45									
4Q10	442.86	11/12/2010	NE	36.91	NA	NA	NA	405.95	*
1Q11	442.86	1/13/2011	NE	37.58	NA	NA	NA	405.28	*
2Q11	442.86	4/25/2011	NE	38.38	NA	NA	NA	404.48	*
3Q11	442.86	7/5/2011-7/8/2011	NE	35.77	NA	NA	NA	407.09	*
	442.86	9/19/2011	NE	35.15	NA	NA	NA	407.71	*
MW-2 Screened Interval Elevation: 396.74 - 381.74									
4Q10	443.93	11/12/2010	NE	38.12	NA	NA	NA	405.81	*
1Q11	443.93	1/13/2011	NE	38.67	NA	NA	NA	405.26	*
2Q11	443.93	4/25/2011	NE	39.61	NA	NA	NA	404.32	*
3Q11	443.93	7/5/2011-7/8/2011	NE	37.04	NA	NA	NA	406.89	*
	443.93	9/19/2011	NE	36.36	NA	NA	NA	407.57	*
MW-3 Screened Interval Elevation: 399.38 - 384.38									
4Q10	430.36	11/12/2010	NE	24.05	NA	NA	NA	406.31	*
1Q11	430.36	1/13/2011	NE	24.92	NA	NA	NA	405.44	*
2Q11	430.36	4/25/2011	NE	25.42	NA	NA	NA	405.44	*
3Q11	430.36	7/5/2011-7/8/2011	NE	22.72	NA	NA	NA	407.64	*
	430.36	9/19/2011	NE	22.40	NA	NA	NA	407.96	*
MW-4 Screened Interval Elevation: 398.95 - 383.95									
4Q10	441.58	11/12/2010	NE	35.38	NA	NA	NA	406.20	*
1Q11	441.58	1/13/2011	NE	36.04	NA	NA	NA	405.54	*
2Q11	441.58	4/25/2011	NE	36.74	NA	NA	NA	404.84	*
3Q11	441.58	7/5/2011-7/8/2011	NE	34.15	NA	NA	NA	407.43	*
	441.58	9/19/2011	NE	33.65	NA	NA	NA	407.93	*
MW-5 Screened Interval Elevation: 398.60 - 383.60									
4Q10	429.73	11/12/2010	NE	23.32	NA	NA	NA	406.41	*
1Q11	429.73	1/13/2011	NE	24.15	NA	NA	NA	405.58	*
2Q11	429.73	4/25/2011	NE	24.65	NA	NA	NA	405.08	*
3Q11	429.73	7/5/2011-7/8/2011	NE	22.00	NA	NA	NA	407.73	*
	429.73	9/19/2011	NE	21.72	NA	NA	NA	408.01	*
MW-6A Screened Interval Elevation: 400.44 - 385.44									
4Q10	432.42	11/12/2010	NE	25.62	NA	NA	NA	406.80	*
1Q11	432.42	1/13/2011	NE	26.36	NA	NA	NA	406.06	*
2Q11	432.42	4/25/2011	NE	26.78	NA	NA	NA	405.64	*
3Q11	432.42	7/5/2011-7/8/2011	NE	24.21	NA	NA	NA	408.21	*
	432.42	9/19/2011	NE	24.07	NA	NA	NA	408.35	*
MW-6B Screened Interval Elevation: 368.24 - 363.24									
4Q10	432.29	11/12/2010	NE	25.47	NA	NA	NA	406.82	*
1Q11	432.29	1/13/2011	NE	26.21	NA	NA	NA	406.08	*
2Q11	432.29	4/25/2011	NE	26.65	NA	NA	NA	405.64	*
3Q11	432.29	7/5/2011-7/8/2011	NE	24.08	NA	NA	NA	408.21	*
	432.29	9/19/2011	NG	NG	NG	NG	NG	NG	
MW-6C Screened Interval Elevation: 347.16 - 342.16									
4Q10	432.11	11/12/2010	NE	25.25	NA	NA	NA	406.86	*
1Q11	432.11	1/13/2011	NE	25.97	NA	NA	NA	406.14	*
2Q11	432.11	4/25/2011	NE	26.73	NA	NA	NA	405.38	*
3Q11	432.11	7/5/2011-7/8/2011	NE	23.80	NA	NA	NA	408.31	*
	432.11	9/19/2011	NG	NG	NG	NG	NG	NG	
MW-6D Screened Interval Elevation: 327.27 - 322.27									
4Q10	431.99	11/12/2010	NE	25.13	NA	NA	NA	406.86	*
1Q11	431.99	1/13/2011	NE	25.87	NA	NA	NA	406.12	*
2Q11	431.99	4/25/2011	NE	26.30	NA	NA	NA	405.69	*
3Q11	431.99	7/5/2011-7/8/2011	NE	23.67	NA	NA	NA	408.32	*
	432.11	9/19/2011	NG	NG	NG	NG	NG	NG	
MW-7 Screened Interval Elevation: 400.18 - 390.18									
4Q10	443.10	11/12/2010	NE	36.93	NA	NA	NA	406.17	*
1Q11	443.10	1/13/2011	NE	37.52	NA	NA	NA	405.58	*
2Q11	443.10	4/25/2011	NE	38.18	NA	NA	NA	404.92	*
3Q11	443.10	7/5/2011-7/8/2011	NE	35.65	NA	NA	NA	407.45	*
	443.10	9/19/2011	NE	35.22	NA	NA	NA	407.88	*
MW-8 Screened Interval Elevation: 400.51 - 390.51									
4Q10	434.11	11/12/2010	NE	27.84	NA	NA	NA	406.27	*
1Q11	434.11	1/13/2011	NE	28.59	NA	NA	NA	405.52	*
2Q11	434.11	4/25/2011	NE	29.15	NA	NA	NA	404.96	*
3Q11	434.11	7/5/2011-7/8/2011	NE	26.55	NA	NA	NA	407.56	*
	434.11	9/19/2011	NG	NG	NG	NG	NG	NG	
MW-9 Screened Interval Elevation: 398.75 - 388.75									
4Q10	445.20	11/12/2010	NE	39.00	NA	NA	NA	406.2	*
1Q11	445.20	1/13/2011	NE	39.62	NA	NA	NA	405.58	*
2Q11	445.20	4/25/2011	NE	NG	NA	NA	NA	NA	Area flooded; unable to access to well
3Q11	445.20	7/5/2011-7/8/2011	NE	38.06	NA	NA	NA	407.14	*
	445.20	9/19/2011	NE	37.27	NA	NA	NA	407.93	*
MW-10 Screened Interval Elevation: 400.60 - 390.60									
4Q10	445.03	11/12/2010	NE	38.97	NA	NA	NA	406.06	*
1Q11	445.03	1/13/2011	NE	39.40	NA	NA	NA	405.63	*
2Q11	445.03	4/25/2011	NE	40.26	NA	NA	NA	404.77	*
3Q11	445.03	7/5/2011-7/8/2011	NE	38.01	NA	NA	NA	407.02	*
	445.03	9/19/2011	NE	37.24	NA	NA	NA	407.79	*

TABLE 1
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WELL ID/ QUARTER	TOP OF CASING (ft MSL)	DATE GAUGED	DEPTH TO PRODUCT (ft)	DEPTH TO WATER (Static)	WATER- PRODUCT INTERFACE (ft MSL)	PRODUCT ELEV. (ft MSL)	PRODUCT THICKNESS (ft)	CORRECTED W.L. ELEVATION (ft MSL)	COMMENTS
MW-11 Screened Interval Elevation: 400.67 - 390.67									
4Q10	442.33	11/12/2010	NE	36.39	NA	NA	NA	405.94	*
1Q11	442.33	1/13/2011	NE	37.15	NA	NA	NA	405.18	*
2Q11	442.33	4/25/2011	NE	38.00	NA	NA	NA	404.33	*
3Q11	442.33	7/5/2011-7/8/2011	NE	35.46	NA	NA	NA	406.87	*
	442.33	9/19/2011	NE	34.68	NA	NA	NA	407.65	*
MW-12 Screened Interval Elevation: 400.68 - 390.68									
4Q10	442.60	11/12/2010	NE	36.63	NA	NA	NA	405.97	*
1Q11	442.60	1/13/2011	NE	37.42	NA	NA	NA	405.18	*
2Q11	442.60	4/25/2011	NE	38.20	NA	NA	NA	404.40	*
3Q11	442.60	7/5/2011-7/8/2011	NE	35.55	NA	NA	NA	407.05	*
	442.60	9/19/2011	NE	34.88	NA	NA	NA	407.72	*
MW-13 Screened Interval Elevation: 404.70 - 394.70									
4Q10	NI	11/12/2010	NI	NI	NI	NI	NI	NI	Well not installed during gauging event.
1Q11	430.27	1/13/2011	NE	24.28	NA	NA	NA	405.99	*
2Q11	430.27	4/25/2011	NE	24.47	NA	NA	NA	405.80	*
3Q11	430.27	7/5/2011-7/8/2011	NE	21.67	NA	NA	NA	408.60	*
	430.27	9/19/2011	NE	21.88	NA	NA	NA	408.39	*
P-01 Screened Interval Elevation: 380.61 - 375.61									
3Q11	442.56	9/19/2011	NE	27.75	NA	NA	NA	414.81	*
P-4U Screened Interval Elevation: 361.35 - 359.35									
3Q11	442.50	9/19/2011	NE	28.71	NA	NA	NA	413.79	*
P-5U Screened Interval Elevation: 313.52 - 311.52									
3Q11	444.15	9/19/2011	NE	29.84	NA	NA	NA	414.31	*
P-6U Screened Interval Elevation: 362.85 - 360.85									
3Q11	443.35	9/19/2011	NE	29.26	NA	NA	NA	414.09	*
P-7U Screened Interval Elevation: 382.72 - 380.72									
3Q11	443.80	9/19/2011	NE	29.51	NA	NA	NA	414.29	*
P-8U Screened Interval Elevation: 381.77 - 379.77									
3Q11	443.70	9/19/2011	NE	29.46	NA	NA	NA	412.24	*
P-9U Screened Interval Elevation: 344.32 - 342.32									
3Q11	444.91	9/19/2011	NE	34.52	NA	NA	NA	410.39	*
P-11U Screened Interval Elevation: 343.17 - 341.17									
3Q11	443.09	9/19/2011	NE	31.03	NA	NA	NA	412.06	*
P-014 Screened Interval Elevation: 395.32 - 385.32									
3Q11	442.65	9/19/2011	NE	27.77	NA	NA	NA	414.88	*
P-15 Screened Interval Elevation: 397.90 - 387.90									
3Q11	443.35	9/19/2011	NE	29.45	NA	NA	NA	413.90	*
P-16 Screened Interval Elevation: 396.57 - 386.57									
3Q11	442.31	9/19/2011	NE	28.26	NA	NA	NA	414.05	*
P-43 Screened Interval Elevation: 380.51 - 370.51									
3Q11	444.07	9/19/2011	NE	31.87	NA	NA	NA	412.20	*
P-53 Screened Interval Elevation: 407.73 - 382.73									
3Q11	446.23	9/19/2011	NE	37.39	NA	NA	NA	408.84	*
P-54 Screened Interval Elevation: 404.18 - 379.18									
4Q10	442.18	11/12/2010	NE	36.43	NA	NA	NA	405.75	*
1Q11	442.18	1/13/2011	NE	37.24	NA	NA	NA	404.94	*
2Q11	442.18	4/25/2011	NE	38.00	NA	NA	NA	404.18	*
3Q11	442.18	7/5/2011-7/8/2011	NE	35.38	NA	NA	NA	406.80	*
	442.18	9/19/2011	NE	34.78	NA	NA	NA	407.40	*
P-55 Screened Interval Elevation: 406.13 - 381.13									
4Q10	445.95	11/12/2010	NE	40.50	NA	NA	NA	405.45	*
1Q11	445.95	1/13/2011	NE	40.56	NA	NA	NA	405.39	*
2Q11	445.95	4/25/2011	41.52	41.54	404.41	404.43	0.02	404.42	*
3Q11	445.95	7/5/2011-7/8/2011	39.41	39.42	406.53	406.54	0.01	406.54	*
	445.95	9/19/2011	NE	38.57	NA	NA	NA	407.38	*
P-56 Screened Interval Elevation: 405.20 - 380.20									
4Q10	446.02	11/11/2010-11/12/2010	NE	40.94	NA	NA	NA	405.08	*
1Q11	446.02	1/13/2011-1/14/2011	NE	41.03	NA	NA	NA	404.99	*
2Q11	446.02	4/25/2011	NE	42.16	NA	NA	NA	403.86	*
3Q11	446.02	7/5/2011-7/8/2011	NE	39.63	NA	NA	NA	406.39	*
	446.02	9/19/2011	NE	38.88	NA	NA	NA	407.14	*
P-57 Screened Interval Elevation: 406.07 - 381.07									
4Q10	446.53	11/12/2010	NE	40.64	NA	NA	NA	405.89	*
1Q11	446.53	1/13/2011	NE	41.04	NA	NA	NA	405.49	*
2Q11	446.53	4/25/2011	NE	41.88	NA	NA	NA	404.65	*
3Q11	446.53	7/5/2011-7/8/2011	NE	39.48	NA	NA	NA	407.05	*
	446.53	9/19/2011	NE	39.92	NA	NA	NA	406.61	*
P-58 Screened Interval Elevation: 404.70 - 379.70									
4Q10	444.92	11/12/2010	NE	38.51	NA	NA	NA	406.41	*
1Q11	444.92	1/13/2011	NE	39.10	NA	NA	NA	405.82	*
2Q11	444.92	4/25/2011	NE	39.78	NA	NA	NA	405.14	*
3Q11	444.92	7/5/2011-7/8/2011	NE	37.42	NA	NA	NA	407.50	*
	444.92	9/19/2011	NE	37.02	NA	NA	NA	407.90	*
P-59 Screened Interval Elevation: 398.87 - 373.87									
4Q10	446.78	11/12/2010	NE	42.13	NA	NA	NA	404.65	*
1Q11	446.78	1/13/2011	NE	42.16	NA	NA	NA	404.62	*
2Q11	446.78	4/25/2011	43.25	43.26	403.52	403.53	0.01	403.53	*
3Q11	446.78	7/5/2011-7/8/2011	NE	41.44	NA	NA	NA	405.34	*
	446.78	9/19/2011	NE	40.56	NA	NA	NA	406.22	*
P-60 Screened Interval Elevation: 403.12 - 383.12									
4Q10	446.57	11/11/2010	41.40	41.44	405.13	405.17	0.04	405.16	*
1Q11	446.57	1/14/2011	41.68	41.72	404.85	404.89	0.04	404.88	*

TABLE 1
CUMULATIVE GROUNDWATER GAUGING RESULTS

WELL ID/ QUARTER	TOP OF CASING (ft MSL)	DATE GAUGED	DEPTH TO PRODUCT (ft)	DEPTH TO WATER (Static)	WATER- PRODUCT INTERFACE (ft MSL)	PRODUCT ELEV. (ft MSL)	PRODUCT THICKNESS (ft)	CORRECTED W.L. ELEVATION (ft MSL)	COMMENTS
2Q11	446.57	4/25/2011	42.72	43.18	403.39	403.85	0.46	403.73	*
3Q11	446.57	7/5/2011-7/8/2011	40.41	40.77	405.80	406.16	0.36	406.07	*
	446.57	9/19/2011	39.54	39.89	406.68	407.03	0.35	406.96	*
P-60-11 Screened Interval Elevation: 413.53 - 383.53									
4Q10	446.18	11/11/2010	NE	40.91	NA	NA	NA	405.27	
1Q11	446.18	1/14/2011	NE	41.14	NA	NA	NA	405.04	
2Q11	446.18	4/25/2011	NE	42.22	NA	NA	NA	403.96	
3Q11	446.18	7/5/2011-7/8/2011	NE	39.97	NA	NA	NA	406.21	
	446.18	9/19/2011	NE	39.07	NA	NA	NA	407.11	
P-60-12S Screened Interval Elevation: 429.49 - 419.49									
4Q10	443.33	11/11/2010	NE	23.36	NA	NA	NA	419.97	
1Q11	443.33	1/14/2011	NE	NE	NA	NA	NA	NA	
2Q11	443.33	4/25/2011	NE	21.84	NA	NA	NA	421.49	
3Q11	443.33	7/5/2011-7/8/2011	21.10	21.11	422.22	422.23	0.01	422.23	
	443.33	9/19/2011	NG	NG	NG	NG	NG	NG	
P-60-12 Screened Interval Elevation: 383.31 - 373.31									
4Q10	443.31	11/11/2010	NE	38.19	NA	NA	NA	405.12	*
1Q11	443.31	1/14/2011	NE	38.51	NA	NA	NA	404.80	*
2Q11	443.31	4/25/2011	NE	39.63	NA	NA	NA	403.68	*
3Q11	443.31	7/5/2011-7/8/2011	NE	37.27	NA	NA	NA	406.04	*
	443.31	9/19/2011	NE	36.41	NA	NA	NA	406.90	*
P-60-13S Screened Interval Elevation: 432.39 - 422.39									
4Q10	442.39	11/11/2010	NE	13.36	NA	NA	NA	429.03	
1Q11	442.39	1/14/2011	NE	NE	NA	NA	NA	NA	
2Q11	442.39	4/25/2011	NE	17.45	NA	NA	NA	424.94	
3Q11	442.39	7/5/2011-7/8/2011	NE	17.08	NA	NA	NA	425.31	
	442.39	9/19/2011	NG	NG	NG	NG	NG	NG	
P-60-13 Screened Interval Elevation: 402.43 - 382.43									
4Q10	442.43	11/11/2010	37.50	37.87	404.56	404.93	0.37	404.83	*
1Q11	442.43	1/14/2011	37.73	37.74	404.69	404.70	0.01	404.70	*
2Q11	442.43	4/25/2011	38.80	39.10	403.33	403.63	0.30	403.55	*
3Q11	442.43	7/5/2011-7/8/2011	36.85	36.99	405.44	405.58	0.14	405.54	*
	442.43	9/19/2011	NE	35.72	NA	NA	NA	406.71	*
P-61 Screened Interval Elevation: 398.59 - 373.59									
4Q10	444.27	11/11/2010-11/12/2010	39.91	40.03	404.24	404.36	0.12	404.33	*
1Q11	444.27	1/13/2011-1/14/2011	38.81	38.94	405.33	405.46	0.13	405.43	*
2Q11	444.27	4/25/2011	NE	40.93	NA	NA	NA	403.34	*
3Q11	444.27	7/5/2011-7/8/2011	37.58	37.59	406.68	406.69	0.01	406.69	*
	444.27	9/19/2011	NE	37.36	NA	NA	NA	406.91	*
P-62 Screened Interval Elevation: 400.85 - 375.85									
4Q10	442.32	11/11/2010-11/12/2010	37.14	38.57	403.75	405.18	1.43	404.81	*
1Q11	442.32	1/13/2011-1/14/2011	36.39	37.81	404.51	405.93	1.42	405.56	*
2Q11	442.32	4/25/2011	NE	38.18	NA	NA	NA	404.14	*
3Q11	442.32	7/5/2011-7/8/2011	35.62	35.63	406.69	406.70	0.01	406.70	*
	442.32	9/19/2011	35.39	35.41	406.91	406.93	0.02	406.93	*
P-63 Screened Interval Elevation: 398.46 - 373.46									
3Q11	445.75	9/19/2011	NE	39.12	NA	NA	NA	406.63	*
P-65 Screened Interval Elevation: 396.91 - 371.91									
3Q11	444.53	9/19/2011	NE	37.54	NA	NA	NA	406.99	*
P-66 Screened Interval Elevation: 401.98 - 376.98									
4Q10	436.70	11/12/2010	NE	30.02	NA	NA	NA	406.68	*
1Q11	436.70	1/13/2011	NE	30.70	NA	NA	NA	406.00	*
2Q11	436.70	4/25/2011	NE	31.26	NA	NA	NA	405.44	*
3Q11	436.70	7/5/2011-7/8/2011	NE	28.87	NA	NA	NA	407.83	*
	436.70	9/19/2011	NE	28.64	NA	NA	NA	408.06	*
P-67 Screened Interval Elevation: 402.16 - 377.16									
3Q11	444.13	9/19/2011	NE	35.16	NA	NA	NA	408.97	*
P-68 Screened Interval Elevation: 399.81 - 374.81									
4Q10	445.07	11/12/2010	39.32	43.42	401.65	405.75	4.10	404.68	*
1Q11	445.07	1/13/2011	39.15	43.18	401.89	405.92	4.03	404.87	*
2Q11	445.07	4/25/2011	NG	NG	NA	NA	NA	NA	Area flooded; unable to access to well
3Q11	445.07	7/5/2011-7/8/2011	39.06	39.13	405.94	406.01	0.07	405.99	*
	445.07	9/19/2011	39.01	39.03	406.04	406.06	0.02	406.06	*
P-69 Screened Interval Elevation: 402.36 - 377.36									
4Q10	443.18	11/11/2010-11/12/2010	38.99	39.02	404.16	404.19	0.03	404.18	*
1Q11	443.18	1/13/2011-1/14/2011	38.62	38.63	404.55	404.56	0.01	404.56	*
2Q11	443.18	4/25/2011	NE	39.98	NA	NA	NA	403.20	*
3Q11	443.18	7/5/2011-7/8/2011	NE	37.41	NA	NA	NA	405.77	*
	443.18	9/19/2011	NE	36.62	NA	NA	NA	406.56	*
P-70 Screened Interval Elevation: 398.16 - 373.16									
4Q10	442.83	11/11/2010-11/12/2010	38.20	38.69	404.14	404.63	0.49	404.50	*
1Q11	442.83	1/13/2011-1/14/2011	37.48	37.90	404.93	405.35	0.42	405.24	*
2Q11	442.83	4/25/2011	39.20	39.22	403.61	403.63	0.02	403.62	*
3Q11	442.83	7/5/2011-7/8/2011	36.42	36.43	406.40	406.41	0.01	406.41	*
	442.83	9/19/2011	NE	35.98	NA	NA	NA	406.85	*

TABLE 1
CUMULATIVE GROUNDWATER GAUGING RESULTS

WELL ID/ QUARTER	TOP OF CASING (ft MSL)	DATE GAUGED	DEPTH TO PRODUCT (ft)	DEPTH TO WATER (Static)	WATER- PRODUCT INTERFACE (ft MSL)	PRODUCT ELEV. (ft MSL)	PRODUCT THICKNESS (ft)	CORRECTED W.L. ELEVATION (ft MSL)	COMMENTS
P-71 Screened Interval Elevation: 402.22 - 377.22									
4Q10	444.83	11/11/2010-11/12/2010	NE	38.92	NA	NA	NA	405.91	*
1Q11	444.83	1/13/2011-1/14/2011	NE	38.32	NA	NA	NA	406.51	*
2Q11	444.83	4/25/2011	NE	39.52	NA	NA	NA	405.31	*
3Q11	444.83	7/5/2011-7/8/2011	NE	37.91	NA	NA	NA	406.92	*
	444.83	9/19/2011	NE	37.71	NA	NA	NA	407.12	*
P-72 Screened Interval Elevation: 398.66 - 373.66									
4Q10	444.43	11/11/2010-11/12/2010	38.01	38.06	406.37	406.42	0.05	406.41	*
1Q11	444.43	1/13/2011-1/14/2011	37.65	37.66	406.77	406.78	0.01	406.78	*
2Q11	444.43	4/25/2011	38.78	38.80	405.63	405.65	0.02	405.64	*
3Q11	444.43	7/5/2011-7/8/2011	37.02	37.03	407.40	407.41	0.01	407.41	*
	444.43	9/19/2011	NE	36.60	NA	NA	NA	407.83	*
P-73 Screened Interval Elevation: 402.17 - 377.17									
4Q10	443.76	11/11/2010-11/12/2010	NE	38.10	NA	NA	NA	405.66	*
1Q11	443.76	1/13/2011-1/14/2011	NE	38.10	NA	NA	NA	405.66	*
2Q11	443.76	4/25/2011	NE	39.13	NA	NA	NA	404.63	*
3Q11	443.76	7/5/2011-7/8/2011	NE	36.88	NA	NA	NA	406.88	*
	443.76	9/19/2011	NE	36.38	NA	NA	NA	407.38	*
P-74 Screened Interval Elevation: 398.20 - 373.20									
4Q10	442.63	11/12/2010	NE	38.29	NA	NA	NA	404.34	*
1Q11	442.63	1/13/2011	NE	37.94	NA	NA	NA	404.69	*
2Q11	442.63	4/25/2011	NE	39.18	NA	NA	NA	403.45	*
3Q11	442.63	7/5/2011-7/8/2011	NE	36.51	NA	NA	NA	406.12	*
	442.63	9/19/2011	NE	35.86	NA	NA	NA	406.77	*
P-75 Screened Interval Elevation: 403.19 - 378.19									
4Q10	446.32	11/11/2010-11/12/2010	39.72	40.00	406.32	406.60	0.28	406.53	*
1Q11	446.32	1/13/2011-1/14/2011	40.04	40.43	405.89	406.28	0.39	406.18	*
2Q11	446.32	4/25/2011	40.81	40.83	405.49	405.51	0.02	405.50	*
3Q11	446.32	7/5/2011-7/8/2011	38.57	38.59	407.73	407.75	0.02	407.74	*
	446.32	9/19/2011	NE	38.31	NA	NA	NA	408.01	*
P-82A Screened Interval Elevation: 401.48 - 386.48									
3Q11	434.69	9/19/2011	NE	23.62	NA	NA	NA	411.07	*
P-83A Screened Interval Elevation: 398.58 - 383.58									
3Q11	445.23	9/19/2011	NE	37.21	NA	NA	NA	408.02	*
P-84A Screened Interval Elevation: 392.57 - 377.57									
4Q10	446.39	11/11/2010-11/12/2010	NE	39.95	NA	NA	NA	406.44	*
1Q11	446.39	1/13/2011-1/14/2011	NE	39.55	NA	NA	NA	406.84	*
2Q11	446.39	4/25/2011	NE	40.11	NA	NA	NA	406.28	*
3Q11	446.39	7/5/2011-7/8/2011	NE	38.58	NA	NA	NA	407.81	*
	446.39	9/19/2011	NG	NG	NG	NG	NG	NG	
P-84B Screened Interval Elevation: 372.60 - 370.60									
4Q10	446.10	11/11/2010-11/12/2010	NE	39.67	NA	NA	NA	406.43	*
1Q11	446.10	1/13/2011-1/14/2011	NE	39.27	NA	NA	NA	406.83	*
2Q11	446.10	4/25/2011	NE	39.85	NA	NA	NA	406.25	*
3Q11	446.10	7/5/2011-7/8/2011	NE	38.32	NA	NA	NA	407.78	*
	446.10	9/19/2011	NG	NG	NG	NG	NG	NG	
P-84C Screened Interval Elevation: 352.08 - 350.08									
4Q10	446.13	11/11/2010-11/12/2010	NE	39.68	NA	NA	NA	406.45	*
1Q11	446.13	1/13/2011-1/14/2011	NE	39.29	NA	NA	NA	406.84	*
2Q11	446.13	4/25/2011	NE	39.86	NA	NA	NA	406.27	*
3Q11	446.13	7/5/2011-7/8/2011	NE	38.64	NA	NA	NA	407.49	*
	446.13	9/19/2011	NG	NG	NG	NG	NG	NG	
P-84D Screened Interval Elevation: 324.99 - 322.99									
4Q10	446.14	11/11/2010-11/12/2010	NE	39.69	NA	NA	NA	406.45	*
1Q11	446.14	1/13/2011-1/14/2011	NE	39.31	NA	NA	NA	406.83	*
2Q11	446.14	4/25/2011	NE	39.87	NA	NA	NA	406.27	*
3Q11	446.14	7/5/2011-7/8/2011	NE	38.68	NA	NA	NA	407.46	*
	446.14	9/19/2011	NG	NG	NG	NG	NG	NG	
P-88A Screened Interval Elevation: 404.72 - 389.72									
3Q11	443.12	9/19/2011	NE	29.72	NA	NA	NA	413.40	*
P-91A Screened Interval Elevation: 395.68 - 380.68									
3Q11	447.19	9/19/2011	NE	41.69	NA	NA	NA	405.50	*
P-92A Screened Interval Elevation: 398.55 - 383.55									
3Q11	446.12	9/19/2011	39.62	39.67	406.45	406.50	0.05	406.49	*
P-93A Screened Interval Elevation: 398.41 - 383.41									
4Q10	446.58	11/11/2010	NE	40.75	NA	NA	NA	405.83	*
1Q11	446.58	1/14/2011	NE	40.97	NA	NA	NA	405.61	*
2Q11	446.58	4/25/2011	NE	41.80	NA	NA	NA	404.78	*
3Q11	446.58	7/5/2011-7/8/2011	NE	39.40	NA	NA	NA	407.18	*
	446.58	9/19/2011	NE	38.86	NA	NA	NA	407.72	*
P-93B Screened Interval Elevation: 371.86 - 369.86									
4Q10	446.46	11/11/2010	NE	40.73	NA	NA	NA	405.73	*
1Q11	446.46	1/14/2011	NE	41.03	NA	NA	NA	405.43	*
2Q11	446.46	4/25/2011	NE	41.69	NA	NA	NA	404.77	*
3Q11	446.46	7/5/2011-7/8/2011	NE	39.44	NA	NA	NA	407.02	*
	446.46	9/19/2011	NG	NG	NG	NG	NG	NG	

TABLE 1
CUMULATIVE GROUNDWATER GAUGING RESULTS

WELL ID/ QUARTER	TOP OF CASING (ft MSL)	DATE GAUGED	DEPTH TO PRODUCT (ft)	DEPTH TO WATER (Static)	WATER- PRODUCT INTERFACE (ft MSL)	PRODUCT ELEV. (ft MSL)	PRODUCT THICKNESS (ft)	CORRECTED W.L. ELEVATION (ft MSL)	COMMENTS
P-93C								Screened Interval Elevation: 352.26 - 350.26	
4Q10	446.51	11/11/2010	NE	40.69	NA	NA	NA	405.82	*
1Q11	446.51	1/14/2011	NE	40.91	NA	NA	NA	405.60	*
2Q11	446.51	4/25/2011	NE	41.70	NA	NA	NA	404.81	*
3Q11	446.51	7/5/2011-7/8/2011	NE	39.32	NA	NA	NA	407.19	*
	446.51	9/19/2011	NG	NG	NG	NG	NG	NG	
P-93D								Screened Interval Elevation: 320.92 - 318.92	
4Q10	446.36	11/11/2010	NE	40.59	NA	NA	NA	405.77	*
1Q11	446.36	1/14/2011	NE	40.81	NA	NA	NA	405.55	*
2Q11	446.89	4/25/2011	NE	41.84	NA	NA	NA	405.05	*
3Q11	446.89	7/5/2011-7/8/2011	NE	39.46	NA	NA	NA	407.43	*
	446.89	9/19/2011	NG	NG	NG	NG	NG	NG	
P-94								Screened Interval Elevation: 398.80 - 383.80	
3Q11	444.65	9/19/2011	NE	33.17	NA	NA	NA	411.48	*
P-102								Screened Interval Elevation: 402.16 - 382.16	
3Q11	444.91	9/19/2011	NE	31.18	NA	NA	NA	413.73	*
P-114								Screened Interval Elevation: 399.73 - 379.73	
4Q10	432.41	11/12/2010	NE	24.66	NA	NA	NA	407.75	*
1Q11	432.41	1/13/2011	NE	26.84	NA	NA	NA	405.57	*
2Q11	432.41	4/25/2011	NE	26.61	NA	NA	NA	405.80	*
3Q11	432.41	7/5/2011-7/8/2011	NE	23.48	NA	NA	NA	408.93	*
	432.41	9/19/2011	NE	24.20	NA	NA	NA	408.21	*
P-115								Screened Interval Elevation: 401.01 - 381.01	
4Q10	433.31	11/11/2010-11/12/2010	NE	25.41	NA	NA	NA	407.90	*
1Q11	433.31	1/13/2011-1/14/2011	NE	27.88	NA	NA	NA	405.43	*
2Q11	433.31	4/25/2011	NE	27.38	NA	NA	NA	405.93	*
3Q11	433.31	NG	NG	NG	NG	NG	NG	NG	Not Accessible
	433.31	9/19/2011	NE	25.10	NA	NA	NA	408.21	*
P-116								Screened Interval Elevation: 399.01 - 379.01	
4Q10	436.45	11/11/2010-11/12/2010	NE	28.76	NA	NA	NA	407.69	*
1Q11	436.45	1/13/2011-1/14/2011	NE	31.35	NA	NA	NA	405.10	*
2Q11	436.45	4/25/2011	NE	30.76	NA	NA	NA	405.69	*
3Q11	436.45	7/5/2011-7/8/2011	NE	27.41	NA	NA	NA	409.04	*
	436.45	9/19/2011	NE	28.52	NA	NA	NA	407.93	*
P-117								Screened Interval Elevation: 399.74 - 379.74	
4Q10	432.67	11/11/2010-11/12/2010	NE	24.11	NA	NA	NA	408.56	*
1Q11	432.67	1/13/2011-1/14/2011	NE	27.62	NA	NA	NA	405.05	*
2Q11	432.67	4/25/2011	NE	26.96	NA	NA	NA	405.71	*
3Q11	432.67	7/5/2011-7/8/2011	NE	23.54	NA	NA	NA	409.13	*
	432.67	9/19/2011	NE	24.71	NA	NA	NA	407.96	*
P-118								Screened Interval Elevation: 400.20 - 384.27	
3Q11	431.32	9/19/2011	NE	23.78	NA	NA	NA	407.54	*
P-119								Screened Interval Elevation: 401.25 - 385.32	
4Q10	431.92	11/11/2010-11/12/2010	NE	24.93	NA	NA	NA	406.99	*
1Q11	431.92	1/13/2011-1/14/2011	NE	25.64	NA	NA	NA	406.28	*
2Q11	431.92	4/25/2011	NE	25.77	NA	NA	NA	406.15	*
3Q11	431.92	7/5/2011-7/8/2011	NE	23.06	NA	NA	NA	408.86	*
	431.92	9/19/2011	NE	23.40	NA	NA	NA	408.52	*
P-120								Screened Interval Elevation: 401.40 - 385.47	
3Q11	432.78	9/19/2011	NE	23.82	NA	NA	NA	408.96	*
GP-9-PZ								Screened Interval Elevation: 404.81 - 394.81	
4Q10	442.41	11/11/2010	NE	37.38	NA	NA	NA	405.03	*
1Q11	442.41	1/14/2011	NE	37.53	NA	NA	NA	404.88	*
2Q11	442.41	4/25/2011	NE	38.85	NA	NA	NA	403.56	*
3Q11	442.41	NG	NG	NG	NG	NG	NG	NG	Unable to locate.
	442.41	9/19/2011	NE	35.44	NA	NA	NA	406.97	*
ROST-3-PZ								Screened Interval Elevation: 402.29 - 392.29	
4Q10	442.29	11/12/2010	NE	36.60	NA	NA	NA	405.69	*
1Q11	442.29	1/13/2011	NE	37.29	NA	NA	NA	405.00	*
2Q11	442.29	4/25/2011	NE	38.21	NA	NA	NA	404.08	*
3Q11	442.29	7/5/2011-7/8/2011	NE	35.83	NA	NA	NA	406.46	*
	442.29	9/19/2011	NE	34.89	NA	NA	NA	407.40	*
ROST-4-PZ								Screened Interval Elevation: 404.27 - 394.27	
4Q10	442.27	11/12/2010	NE	36.48	NA	NA	NA	405.79	*
1Q11	442.27	1/13/2011	NE	36.97	NA	NA	NA	405.30	*
2Q11	442.13	4/25/2011	NE	37.69	NA	NA	NA	404.44	*
3Q11	442.27	7/5/2011-7/8/2011	NE	35.85	NA	NA	NA	406.42	*
	442.13	9/19/2011	NE	34.38	NA	NA	NA	407.75	*
ROST-4-PZ(A)								Screened Interval Elevation: 407.34 - 397.34	
2Q11	442.11	4/25/2011	NE	37.18	NA	NA	NA	404.93	*
3Q11	442.11	7/5/2011-7/8/2011	NE	35.21	NA	NA	NA	406.90	*
	442.11	9/19/2011	NG	NG	NG	NG	NG	NG	
ROST-4-PZ(B)								Screened Interval Elevation: 407.33 - 397.33	
2Q11	442.38	4/25/2011	NE	37.80	NA	NA	NA	404.58	
3Q11	442.38	7/5/2011-7/8/2011	NE	35.93	NA	NA	NA	406.45	
	442.38	9/19/2011	NG	NG	NG	NG	NG	NG	

TABLE 1
CUMULATIVE GROUNDWATER GAUGING RESULTS

WELL ID/ QUARTER	TOP OF CASING (ft MSL)	DATE GAUGED	DEPTH TO PRODUCT (ft)	DEPTH TO WATER (Static)	WATER- PRODUCT INTERFACE (ft MSL)	PRODUCT ELEV. (ft MSL)	PRODUCT THICKNESS (ft)	CORRECTED W.L. ELEVATION (ft MSL)	COMMENTS
ROST-4-PZ(C) Screened Interval Elevation: 407.71 - 397.71									
2Q11	442.66	4/25/2011	NE	38.52	NA	NA	NA	404.14	*
3Q11	442.66	7/5/2011-7/8/2011	NE	36.62	NA	NA	NA	406.04	*
	442.66	9/19/2011	NG	NG	NG	NG	NG	NG	
ROST-4-PZ(D) Screened Interval Elevation: 408.01 - 398.01									
2Q11	442.98	4/25/2011	NE	38.41	NA	NA	NA	404.57	*
3Q11	442.98	7/5/2011-7/8/2011	NE	36.58	NA	NA	NA	406.40	*
	442.98	9/19/2011	NG	NG	NG	NG	NG	NG	
ROST-4-PZ(E) Screened Interval Elevation: 407.21 - 397.21									
2Q11	442.96	4/25/2011	NE	37.63	NA	NA	NA	405.33	*
3Q11	442.96	7/5/2011-7/8/2011	NE	35.81	NA	NA	NA	407.15	*
	442.96	9/19/2011	NG	NG	NG	NG	NG	NG	
ROST-4-PZ(F) Screened Interval Elevation: 407.59 - 397.59									
2Q11	442.12	4/25/2011	NE	37.87	NA	NA	NA	404.25	*
3Q11	442.12	7/5/2011-7/8/2011	NE	35.99	NA	NA	NA	406.13	*
	442.12	9/19/2011	NG	NG	NG	NG	NG	NG	
ROST-4-PZ(G) Screened Interval Elevation: 407.85 - 397.85									
2Q11	442.13	4/25/2011	NE	38.08	NA	NA	NA	404.05	*
3Q11	442.13	7/5/2011-7/8/2011	NE	35.76	NA	NA	NA	406.37	*
	442.13	9/19/2011	NG	NG	NG	NG	NG	NG	
ROST-5-PZ Screened Interval Elevation: 429.02 - 419.02									
4Q10	442.22	11/12/2010	NE	NE	NA	NA	NA	NA	
1Q11	442.22	1/13/2011	NE	NE	NA	NA	NA	NA	
2Q11	442.22	4/25/2011	NE	NE	NA	NA	NA	NA	
3Q11	442.22	7/5/2011-7/8/2011	NE	NE	NA	NA	NA	NA	
	442.22	9/19/2011	NE	NE	NA	NA	NA	NA	
ROST-7-PZ Screened Interval Elevation: 422.19 - 412.19									
4Q10	442.19	11/12/2010	NE	22.93	NA	NA	NA	419.26	
1Q11	442.19	1/13/2011	NE	23.74	NA	NA	NA	418.45	
2Q11	442.19	4/25/2011	NE	23.72	NA	NA	NA	418.47	
3Q11	442.19	7/5/2011-7/8/2011	NE	22.05	NA	NA	NA	420.14	
	442.19	9/19/2011	NE	22.63	NA	NA	NA	419.56	
ROST-10-PZ Screened Interval Elevation: 434.51 - 424.51									
4Q10	444.51	11/12/2010	NE	NE	NA	NA	NA	NA	
1Q11	444.51	1/13/2011	NE	NE	NA	NA	NA	NA	
2Q11	444.51	4/25/2011	NE	NE	NA	NA	NA	NA	
3Q11	444.51	7/5/2011-7/8/2011	NE	19.67	NA	NA	NA	424.84	
	444.51	9/19/2011	NE	19.88	NA	NA	NA	424.63	
ROST-21-PZ Screened Interval Elevation: 433.72 - 423.72									
4Q10	443.72	11/12/2010	NE	19.30	NA	NA	NA	424.42	
1Q11	443.72	1/13/2011	NE	19.59	NA	NA	NA	424.13	
2Q11	443.72	4/25/2011	NE	19.04	NA	NA	NA	424.68	
3Q11	443.72	7/5/2011-7/8/2011	NE	18.37	NA	NA	NA	425.35	
	443.72	9/19/2011	NE	19.26	NA	NA	NA	424.46	
S-1 Screened Interval Elevation: Unknown									
4Q10	443.79	11/11/2010-11/12/2010	36.96	41.91	401.88	406.83	4.95	405.54	
1Q11	443.79	1/13/2011-1/14/2011	36.41	41.33	402.46	407.38	4.92	406.10	
2Q11	443.79	4/25/2011	38.70	38.73	405.06	405.09	0.03	405.08	
3Q11	443.79	7/5/2011-7/8/2011	36.50	36.54	407.25	407.29	0.04	407.28	
	443.79	9/19/2011	NE	36.42	NA	NA	NA	407.37	
T-1 Screened Interval Elevation: 396.92 - 373.00									
4Q10	444.55	11/11/2010-11/12/2010	NE	39.08	NA	NA	NA	405.47	*
1Q11	444.55	1/13/2011-1/14/2011	NE	41.02	NA	NA	NA	403.53	*
2Q11	444.55	4/25/2011	NE	46.65	NA	NA	NA	397.90	*
3Q11	444.55	7/5/2011-7/8/2011	NE	35.99	NA	NA	NA	408.56	*
	444.55	9/19/2011	NE	51.50	NA	NA	NA	393.05	
T-2 Screened Interval Elevation: 392.63 - 372.48									
4Q10	443.13	11/11/2010-11/12/2010	NE	37.51	NA	NA	NA	405.62	*
1Q11	443.13	1/13/2011-1/14/2011	NE	36.97	NA	NA	NA	406.16	*
2Q11	443.13	4/25/2011	NE	38.03	NA	NA	NA	405.10	*
3Q11	443.13	7/5/2011-7/8/2011	NE	35.89	NA	NA	NA	407.24	*
	443.13	9/19/2011	NE	35.80	NA	NA	NA	407.33	*
T-3 Screened Interval Elevation: 403.65 - 388.65									
3Q11	450.91	9/19/2011	NE	44.60	NA	NA	NA	406.31	*
T-4 Screened Interval Elevation: 398.24 - 383.24									
3Q11	447.95	9/19/2011	NE	41.97	NA	NA	NA	405.98	*

TABLE 1
CUMULATIVE GROUNDWATER GAUGING RESULTS

WELL ID/ QUARTER	TOP OF CASING (ft MSL)	DATE GAUGED	DEPTH TO PRODUCT (ft)	DEPTH TO WATER (Static)	WATER- PRODUCT INTERFACE (ft MSL)	PRODUCT ELEV. (ft MSL)	PRODUCT THICKNESS (ft)	CORRECTED W.L. ELEVATION (ft MSL)	COMMENTS
T-6 Screened Interval Elevation: 394.79 - 380.54									
4Q10	446.55	11/12/2010	NE	40.77	NA	NA	NA	405.78	*
1Q11	446.55	1/13/2011	NE	41.07	NA	NA	NA	405.48	*
2Q11	446.55	4/25/2011	NE	42.01	NA	NA	NA	404.54	*
3Q11	446.55	7/5/2011-7/8/2011	NE	39.58	NA	NA	NA	406.97	*
	446.55	9/19/2011	NE	38.95	NA	NA	NA	407.60	*
T-7 Screened Interval Elevation: 395.29 - 380.29									
3Q11	444.01	9/19/2011	35.14	35.19	408.82	408.87	0.05	408.86	*
T-12 Screened Interval Elevation: 398.54 - 372.54									
4Q10	444.49	11/12/2010	NE	40.35	NA	NA	NA	404.14	*
1Q11	444.49	1/13/2011	NE	40.30	NA	NA	NA	404.19	*
2Q11	444.49	4/25/2011	NE	41.40	NA	NA	NA	403.09	*
3Q11	444.49	7/5/2011-7/8/2011	NE	39.07	NA	NA	NA	405.42	*
	444.49	9/19/2011	NE	38.06	NA	NA	NA	406.63	*
T-13 Screened Interval Elevation: 396.46 - 370.46									
4Q10	443.46	11/11/2010-11/12/2010	NE	37.37	NA	NA	NA	406.09	*
1Q11	443.46	1/13/2011-1/14/2011	NE	37.57	NA	NA	NA	405.89	*
2Q11	443.46	4/25/2011	NE	38.25	NA	NA	NA	405.21	*
3Q11	443.46	NG	NG	NG	NG	NG	NG	NG	
	443.46	9/19/2011	NE	37.54	NA	NA	NA	405.92	*
T-15 Screened Interval Elevation: 396.99 - 370.99									
3Q11	445.03	9/19/2011	NE	37.59	NA	NA	NA	407.44	*
T-17 Screened Interval Elevation: 401.80 - 375.80									
3Q11	445.90	9/19/2011	NE	35.90	NA	NA	NA	410.00	*
T-19 Screened Interval Elevation: 395.94 - 369.94									
3Q11	446.71	9/19/2011	40.60	40.64	406.07	406.11	0.04	406.10	*
T-21 Screened Interval Elevation: 412.04 - 386.04									
3Q11	444.00	9/19/2011	NE	28.24	NA	NA	NA	415.76	*
T-22 Screened Interval Elevation: 410.66 - 384.96									
3Q11	442.21	9/19/2011	NE	29.26	NA	NA	NA	412.95	*
T-23 Screened Interval Elevation: 405.41 - 379.41									
3Q11	432.64	9/19/2011	NE	27.83	NA	NA	NA	404.81	
T-24 Screened Interval Elevation: 402.22 - 376.57									
4Q10	443.72	11/11/2010-11/12/2010	39.07	39.38	404.34	404.65	0.31	404.57	*
1Q11	443.72	1/13/2011-1/14/2011	38.60	38.92	404.80	405.12	0.32	405.04	*
2Q11	443.72	4/25/2011	NE	39.98	NA	NA	NA	403.74	*
3Q11	443.72	7/5/2011-7/8/2011	NE	37.53	NA	NA	NA	406.19	*
	443.72	9/19/2011	NE	35.08	NA	NA	NA	408.64	*
T-28 (T-27) Screened Interval Elevation: Unknown									
3Q11	444.22	9/19/2011	NE	35.75	NA	NA	NA	408.47	
T-62 Screened Interval Elevation: 412.02 - 382.02									
4Q10	431.73	11/11/2010-11/12/2010	NE	23.49	NA	NA	NA	408.24	
1Q11	431.73	1/13/2011-1/14/2011	NE	25.48	NA	NA	NA	406.25	
2Q11	431.73	4/25/2011	NE	25.33	NA	NA	NA	406.40	
3Q11	431.73	7/5/2011-7/8/2011	NE	22.37	NA	NA	NA	409.36	
	431.73	9/19/2011	NE	23.12	NA	NA	NA	408.61	
T-63 Screened Interval Elevation: 411.26 - 381.26									
4Q10	431.24	11/11/2010-11/12/2010	NE	23.03	NA	NA	NA	408.21	
1Q11	431.24	1/13/2011-1/14/2011	NE	25.45	NA	NA	NA	405.79	
2Q11	431.24	NG	NG	NG	NG	NG	NG	NG	Unable to open.
3Q11	431.24	NG	NG	NG	NG	NG	NG	NG	
	431.24	9/19/2011	NE	22.88	NA	NA	NA	408.36	
T-64 Screened Interval Elevation: 408.99 - 378.99									
4Q10	428.80	11/11/2010-11/12/2010	NE	20.76	NA	NA	NA	408.04	
1Q11	428.80	1/13/2011-1/14/2011	NE	23.84	NA	NA	NA	404.96	
2Q11	428.80	NG	NG	NG	NG	NG	NG	NG	
3Q11	428.80	7/5/2011-7/8/2011	NE	19.06	NA	NA	NA	409.74	*
	428.80	9/19/2011	NE	21.86	NA	NA	NA	406.94	

NOTES:

- 1) The Corrected W.L. Elevations presented in this table were corrected by a specific gravity of 0.80 for the wells in which product was identified.
- 2) Elevations presented in this table are relative to the 1988 USGS datum.
- 3) **NA** = Not Applicable; **NE** = Not Encountered; **NG** = Not Gauged; **NI** = Not Installed
- 4) * Indicates that the product and/or water level is above the top of the screened zone of the well.

TABLE 2
SOIL VAPOR SCREENING CRITERIA

Chemical	Residential (mg/m ³)	Industrial/ Commercial (mg/m ³)
TO-15 Analytes		
Acetone	750,000	750,000
Benzene	0.37	2.8
Bromodichloromethane	450,000	450,000
Bromoform	11	52
Bromomethane	6.9	42
1,3-Butadiene		
2-Butanone	6,400	40,000
Carbon disulfide	780	5,300
Carbon tetrachloride	0.21	1.5
Chlorobenzene	69	420
Chlorodibromomethane	57,000	57,000
Chloroethane		
Chloroform	0.11	0.92
Chloromethane		
Allyl chloride (3-Chloropropene)		
alpha-Chlorotoluene		
Cyclohexane		
1,2-Dibromo-3-chloropropane (DBCP)	0.0012	0.0062
1,2-Dibromoethane	0.011	0.06
1,2-Dichlorobenzene	290	1,700
1,3-Dichlorobenzene		
1,4-Dichlorobenzene	1,200	6,800
1,1-Dichloroethane	690	4,200
1,2-Dichloroethane	0.099	0.81
1,1-Dichloroethene	240	1,600
cis-1,2-Dichloroethene	1,100,000	1,100,000
trans-1,2-Dichloroethene	85	510
Dichloromethane (Methylene chloride)	5.6	45
1,2-Dichloropropane	0.062	0.46
cis-1,3-Dichloropropene	0.9	6.2
trans-1,3-Dichloropropene	0.9	6.2
1,4-Dioxane	0.22	2.3
Ethanol		
Ethylbenzene	1,400	8,300
4-Ethyltoluene		
Freon 11		
Freon 12		
Freon 113		
Freon 114		
Heptachlor	0.0063	0.0032
Heptane		
Hexachlorobutadiene		
Hexane		
2-Hexanone (Methyl N-Butyl Ketone)		
Isopropylbenzene (Cumene)	600	3,500
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
Methyl tert-Butyl Ether (MTBE)	3,400	23,000
n-Propylbenzene		
2-Propanol		
Styrene	1,400	8,500
Tetrachloroethene	0.55	4
1,1,1,2-Tetrachloroethane		
Tetrahydrofuran		
Toluene	6,200	40,000
1,2,4-Trichlorobenzene	11	50
Trichloroethene	1.5	12
1,1,1-Trichloroethane (Methyl chloroform)	6,600	41,000
1,1,2-Trichloroethane	170,000	170,000
Trichlorofluoromethane	860	5,600
1,2,4-Trimethylbenzene		
1,3,5-Trimethylbenzene		

TABLE 2
SOIL VAPOR SCREENING CRITERIA

Chemical	Residential (mg/m ³)	Industrial/ Commercial (mg/m ³)
TO-15 Analytes		
2,2,4-Trimethylpentane		
Vinyl chloride	0.29	4.8
Xylenes (total)	140	840
m,p-Xylene	130	820
o-Xylenes	120	790

Note:

1. Screening criteria source: Illinois Pollution Control Board, Notice of Proposed Amendments - Tiered Approach to Corrective Action (TACO) Title 35 - Part 742. Table H: Tier 1 Indoor Inhalation Remediation Objectives for Residential and Industrial/Commercial Properties for the Diffusion and Advection Exposure Route, November 9, 2010.

See last page of table for notes.

TABLE 3

Location	Depth	Sample ID	Sample Date	Acetone			Benzene			CUMULATIVE SUMMARY OF RESULTS			PROPANE			ETHYLENE			BUTANE			2-Butanone			Carbon disulfide		
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier
VMP-1	5 ft	VMP-1-5	11/2/2009	<1.1	U		<0.38	U		<0.8	U		<0.46	U		<0.26	U					<0.35	U		<0.37	U	
		VMP-1-5-082510	8/25/2010	0.068			0.044			<0.028	U		<0.016	U		<0.0094	U					0.0066	J		0.0035	J	
		VMP-1-5-111710	11/17/2010	0.019	J		0.0069	J		<0.034	U		<0.02	U		<0.011	U					<0.015	U		<0.016	U	
		VMP-1-5-020411	2/4/2011	0.42	J		0.14	J		<0.68	U		<0.39	U		<0.22	U					<0.3	U		<0.31	U	
		VMP-1-5-041211	4/12/2011	0.012	J		0.6			<0.0088	U		<0.0051	U		<0.0029	U		0.033			0.0018	J		0.004	J	
		VMP-1-5-080111	8/1/2011	<0.012	U		0.051			<0.0088	U		<0.0051	U		<0.0029	U		0.21			0.017			0.0086	J	
	8.5 ft	VMP-1-8.5	11/2/2009	<1.6	U		<0.52	U		<1.1	U		<0.63	U		<0.36	U					<0.48	U		<0.51	U	
		VMP-1-8.5-082510	8/25/2010	0.054	J		0.0079	J		<0.086	U		<0.05	U		<0.028	U					<0.038	U		0.019	J	
		VMP-1-8.5-111710	11/17/2010	0.024			0.0035	J		<0.016	U		<0.0096	U		<0.0055	U					0.0048	J		<0.0077	U	
		VMP-1-8.5-111710-Dup	11/17/2010	0.016	J		0.0034	J		<0.016	U		<0.0096	U		<0.0055	U					0.0037	J		<0.0077	U	
		VMP-1-8.5-020411	2/4/2011	0.31	J		0.26	J		<1.3	U		<0.77	U		<0.44	U					<0.58	U		<0.62	U	
		VMP-1-8.5-041211	4/12/2011	0.011	J		0.31			<0.012	U		<0.0068	U		<0.0038	U		0.026			<0.02	U		0.0022	J	
	23.5 ft	VMP-1-8.5-080111	8/1/2011	<6.8	U		<2.3	U		<4.8	U		<2.8	U		<1.6	U		840			<8.5	U		<2.2	U	
		VMP-1-8.5-080111-Dup	8/1/2011	<6.7	U		6.2			<4.7	U		<2.7	U		<1.6	U		780			<8.3	U		<2.2	U	
		VMP-1-23.5	11/2/2009	<3.8	U		<1.3	U		<2.6	U		<1.5	U		<0.88	U					<1.2	U		<1.2	U	
		VMP-1-23.5-083010	8/30/2010	<4.3	U		1.4			<3	U		<1.7	U		<0.99	U					<1.3	U		<1.4	U	
		VMP-1-23.5-111810	11/17/2010	0.011	J		0.0014	J		<0.0083	U		<0.0048	U		<0.0027	U					0.0012	J		<0.0038	U	
		VMP-1-23.5-020411	2/4/2011	3	J		<3.7	U		<7.8	U		<4.5	U		<2.6	U					<3.4	U		<3.6	U	
38.5 ft	VMP-1-23.5-041211	4/12/2011	9.8	J		<6.1	U		<13	U		<7.4	U		<4.2	U		1300			<22	U		5.1	J		
	VMP-1-23.5-041211-Dup	4/12/2011	8	J		<7.7	U		<16	U		<9.3	U		<5.3	U		1700			<28	U		4.2	J		
VMP-2	5 ft	VMP-1-23.5-080111	8/1/2011	<120	U		<41	U		<86	U		<50	U		<28	U		25000			<150	U		6.2	J	
		VMP-1-38.5	11/2/2009	<11	U		3.8			<7.5	U		<4.3	U		420						<3.3	U		<3.5	U	
		VMP-2-5	11/2/2009	<1.4	U		<0.46	U		<0.97	U		<0.56	U		<0.32	U					<0.43	U		<0.45	U	
		VMP-2-5-083110	8/31/2010	<4.3	U		0.89	J		<3	U		<1.7	U		<0.99	U					<1.3	U		<1.4	U	
		VMP-2-5-111610	11/16/2010	<6.3	U		<2.1	U		<4.4	U		<2.6	U		<1.5	U					<1.9	U		<2	U	
		VMP-2-5-020411	2/4/2011	0.45	J		<0.55	U		<1.2	U		<0.67	U		<0.38	U					<0.51	U		<0.54	U	
	8.5 ft	VMP-2-5-041311	4/13/2011	0.012	J		0.33			<0.0093	U		<0.0054	U		<0.0031	U		0.1			<0.016	U		0.0038	J	
		VMP-2-5-080211	8/2/2011	<14	U		<4.6	U		<9.7	U		<5.6	U		<3.2	U		2200			<17	U		<4.5	U	
		VMP-2-8.5	11/3/2009	<0.48	U		<0.16	U		<0.34	U		<0.2	U		<0.11	U					<0.15	U		<0.16	U	
		VMP-2-8.5-D	11/3/2009	<0.51	U		<0.17	U		<0.36	U		<0.21	U		<0.12	U					<0.16	U		<0.17	U	
		VMP-2-8.5-083110	8/31/2010	<4.4	U		1.4			<3.1	U		<1.8	U		<1	U					<1.4	U		<1.4	U	
		VMP-2-8.5-111610	11/16/2010	<12	U		<4	U		<8.4	U		<4.9	U		<2.8	U					<3.7	U		<3.9	U	
	22 ft	VMP-2-8.5-020411	2/4/2011	0.56	J		<1.4	U		<2.9	U		<1.7	U		<0.95	U					<1.3	U		<1.3	U	
		VMP-2-8.5-041311	4/13/2011	<1.2	U		1.1			<0.88	U		0.24	J		<0.29	U		1.5			<1.6	U		0.36	J	
		VMP-2-8.5-080211	8/2/2011	12	J		<17	U		<36	U		<20	U		<12	U		4200			<62	U		8	J	
		VMP-2-22	11/3/2009	<2.7	U		<0.89	U		<1.9	U		<1.1	U		<0.62	U					<0.82	U		<0.87	U	
		VMP-2-22-083110	8/31/2010	<6.7	U		1.7	J		<4.7	U		<2.7	U		<1.6	U					<2.1	U		<2.2	U	
		VMP-2-22-111610	11/16/2010	<12	U		<4.2	U		<8.8	U		<5.1	U		<2.9	U					<3.9	U		<4.1	U	
42 ft	VMP-2-22-020411	2/4/2011	1.4	J		0.75	J		<4	U		<2.3	U		<1.3	U					<1.8	U		<1.8	U		
	VMP-2-22-041311	4/13/2011	<16	U		1	J		<12	U		<6.8	U		<3.9	U		410			<20	U		<22	U		
VMP-3	5 ft	VMP-2-22-080211	8/2/2011	<67	U		<22	U		<47	U		<27	U		<16	U		4900			<83	U		<22	U	
		VMP-2-42	11/3/2009	<52	U		84			<37	U		<21	U		<12	U					<16	U		<17	U	
		VMP-3-5	11/3/2009	<0.051	U		<0.017	U		<0.036	U		<0.021	U		<0.012	U					<0.016	U		<0.017	U	
		VMP-3-5-090910	9/9/2010	<13	U		7.8			<8.9	U		<5.2	U		<2.9	U					<3.9	U		<4.1	U	
		VMP-3-5-112210	11/22/2010	3.1	J		2.8	J		<9	U		<5.2	U		<3	U					<4	U		<4.2	U	
		VMP-3-5-020911	2/9/2011	<5.7	U		<1.9	U		<4	U		<2.3	U		<1.3	U					<1.8	U		<1.9	U	
	10 ft	VMP-3-5-041411	4/14/2011	<62	U		<21	U		<44	U		<25	U		<14	U		9600			<77	U		<20	U	
		VMP-3																									

See last page of table for notes.

				TABLE 3 ANALYTICAL DETECTIONS AND SCREENING RESULTS																							
Location	Depth	Sample ID	Sample Date	Carbon tetrachloride			Chlorobenzene CUMULATIVE SUMMARY OF SOIL			VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS			Methane			alpha-Chlorotoluene			Cyclohexane								
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier						
VMP-1	5 ft	VMP-1-5	11/2/2009	<0.75	U		<0.55	U		<1	U		<0.31	U		<0.58	U		<0.98	U		<0.62	U		18		
		VMP-1-5-082510	8/25/2010	<0.027	U		<0.02	U		<0.036	U		<0.011	U		<0.021	U		<0.035	U		<0.022	U		0.02		
		VMP-1-5-111710	11/17/2010	<0.032	U		<0.024	U		<0.044	U		<0.014	U		<0.025	U		<0.042	U		<0.027	U		0.14		
		VMP-1-5-020411	2/4/2011	<0.64	U		<0.46	U		<0.86	U		<0.27	U		<0.49	U		<0.83	U		<0.52	U		8.1		
		VMP-1-5-041211	4/12/2011	<0.0083	U		<0.0061	J	U	0.0023	J		<0.014	U		<0.0064	U		<0.011	U		<0.0068	U		0.21		
		VMP-1-5-080111	8/1/2011	<0.0083	U		<0.0061	U		<0.011	U		<0.014	U		<0.0064	U		<0.011	U		<0.0068	U		0.0083		
	8.5 ft	VMP-1-8.5	11/2/2009	<1	U		<0.75	U		<1.4	U		<0.43	U		<0.8	U		<1.4	U		<0.85	U		14		
		VMP-1-8.5-082510	8/25/2010	<0.081	U		<0.059	U		<0.11	U		<0.034	U		<0.063	U		<0.11	U		<0.066	U		<0.044	U	
		VMP-1-8.5-111710	11/17/2010	<0.016	U		<0.011	U		<0.021	U		<0.0065	U		<0.012	U		<0.02	U		<0.013	U		0.043		
		VMP-1-8.5-111710-Dup	11/17/2010	<0.016	U		<0.011	U		<0.021	U		<0.0065	U		<0.012	U		<0.02	U		<0.013	U		0.034		
		VMP-1-8.5-020411	2/4/2011	<1.2	U		<0.91	U		<1.7	U		<0.52	U		<0.97	U		<1.6	U		<1	U		9.2		
		VMP-1-8.5-041211	4/12/2011	<0.011	U		<0.008	J	U	<0.015	U		<0.018	U		<0.0085	U		<0.014	U		<0.009	U		0.067		
	23.5 ft	VMP-1-8.5-080111	8/1/2011	<4.5	U		<3.3	U		<6.1	U		<7.6	U		<3.5	U		<5.9	U		<3.7	U		7.1		
		VMP-1-8.5-080111-Dup	8/1/2011	<4.4	U		<3.2	U		<6	U		<7.4	U		<3.4	U		<5.8	U		<3.6	U		11		
		VMP-1-23.5	11/2/2009	<2.5	U		<1.8	U		<3.4	U		<1	U		<1.9	U		<3.3	U		<2	U		66		
		VMP-1-23.5-083010	8/30/2010	<2.8	U		<2.1	U		<3.8	U		<1.2	U		<2.2	U		<3.7	U		<2.3	U		130		
		VMP-1-23.5-111810	11/17/2010	0.0013	J		<0.0057	U		<0.01	U		<0.0032	U		0.00066	J		<0.01	U		<0.0064	U		0.0082		
		VMP-1-23.5-020411	2/4/2011	<7.3	U		<5.4	U		<9.9	U		<3.1	U		<5.7	U		<9.6	U		<6	U		150		
	38.5 ft	VMP-1-23.5-041211	4/12/2011	<12	U		<8.7	U		<16	U		4.4	J		<9.3	U		<16	U		<9.8	U		3.2	J	
		VMP-1-23.5-041211-Dup	4/12/2011	<15	U		<11	U		<20	U		<25	U		<12	U		<20	U		<12	U		5.3	J	
		VMP-1-23.5-080111	8/1/2011	<81	U		<59	U		<110	U		<140	U		<63	U		<110	U		<67	U		110		
		VMP-1-38.5	11/2/2009	<7	U		<5.2	U		<9.5	U		<3	U		<5.5	U		<9.2	U		<5.8	U		380		
VMP-2	5 ft	VMP-2-5	11/2/2009	<0.92	U		<0.67	U		<1.2	U		<0.38	U		<0.71	U		<1.2	U		<0.75	U		8		
		VMP-2-5-083110	8/31/2010	<2.8	U		<2.1	U		<3.8	U		<1.2	U		<2.2	U		<3.7	U		<2.3	U		28		
		VMP-2-5-111610	11/16/2010	<4.2	U		<3	U		<5.6	U		<1.7	U		<3.2	U		<5.4	U		<3.4	U		<2.3	U	
		VMP-2-5-020411	2/4/2011	<1.1	U		<0.79	U		<1.5	U		<0.46	U		<0.84	U		<1.4	U		<0.89	U		4.9		
		VMP-2-5-041311	4/13/2011	<0.0087	U		<0.0064	J	U	<0.012	U		<0.015	U		<0.0068	U		<0.011	U		<0.0072	U		0.044		
		VMP-2-5-080211	8/2/2011	<9.1	U		<6.6	U		<12	U		<15	U		<7	U		<12	U		<7.5	U		35		
	8.5 ft	VMP-2-8.5	11/3/2009	<0.32	U		<0.23	U		<0.43	U		<0.13	U		<0.25	U		<0.42	U		<0.26	U		0.24		
		VMP-2-8.5-D	11/3/2009	<0.34	U		<0.25	U		<0.46	U		<0.14	U		<0.26	U		<0.45	U		<0.28	U		0.29		
		VMP-2-8.5-083110	8/31/2010	<2.9	U		<2.1	U		<3.9	U		<1.2	U		<2.2	U		<3.8	U		<2.4	U		57		
		VMP-2-8.5-111610	11/16/2010	<7.9	U		<5.8	U		<11	U		<3.3	U		<6.2	U		<10	U		<6.5	U		<4.3	U	
		VMP-2-8.5-020411	2/4/2011	<2.7	U		<2	U		<3.7	U		<1.1	U		<2.1	U		<3.6	U		<2.2	U		9.6		
		VMP-2-8.5-041311	4/13/2011	0.12	J	J	0.098	J		<1.1	U		<1.4	U		0.11	J		<1.1	U		<0.68	U		0.14	J	
	22 ft	VMP-2-8.5-080211	8/2/2011	<33	U		<24	U		<45	U		<56	U		<26	U		<44	U		<27	U		52		
		VMP-2-22	11/3/2009	<1.8	U		<1.3	U		<2.4	U		<0.74	U		<1.4	U		<2.3	U		<1.4	U		11		
		VMP-2-22-083110	8/31/2010	<4.4	U		<3.2	U		<6	U		<1.9	U		<3.4	U		<5.8	U		<3.6	U		81		
		VMP-2-22-111610	11/16/2010	<8.3	U		<6.1	U		<11	U		<3.5	U		<6.4	U		<11	U		<6.8	U		<4.5	U	
		VMP-2-22-020411	2/4/2011	<3.7	U		<2.7	U		<5.1	U		<1.6	U		<2.9	U		<4.9	U		<3.1	U		29		
VMP-3	5 ft	VMP-2-22-041311	4/13/2011	<11	U		0.89	J		<15	U		<18	U		<8.5	U		<14	U		<9	U		4.2	J	
		VMP-2-22-080211	8/2/2011	<44	U		<32	U		<60	U		<74	U		<34	U		<58	U		<36	U		57		
		VMP-2-42	11/3/2009	<35	U		<25	U		<47	U		<14	U		<27	U		<45	U		<28	U		920		
		VMP-3-5	11/3/2009	<0.034	U		<0.025	U		<0.046	U		<0.014	U		<0.026	U		<0.045	U		<0.028	U		0.23		
		VMP-3-5-090910	9/9/2010	<8.4	U		<6.1	U		<11	U		<3.5	U		<6.5	U		<11	U		<6.9	U		210		
		VMP-3-5-112210	11/22/2010	3.7	J		<6.2	U		<11	U		<3.5	U		<6.6	U		<11	U		<7	U		340		
	10 ft	VMP-3-5-020911	2/9/2011	<3.8	U		<2.8	U		<5.2	U		<1.6	U		<3	U		<5	U		<3.1	U		77		
		VMP-3-5-041411	4/14/2011	<41	U		<30	U		<55	U		<69	U		<32	U										

See last page of table for notes.

TABLE 3

Location	Depth	Sample ID	Sample Date	1,2-Dibromoethane			1,2-Dichlorobenzene			Cumulative Summary of Soil			Vapor Analytical Data - VOCs			Detection and Screening			Results - 1,2-Dibromoethane			1,1-Dichloroethene			cis-1,2-Dichloroethene			
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	
VMP-1	5 ft	VMP-1-5	11/2/2009	<0.91	U		<0.72	U		<0.72	U		<0.72	U		<0.48	U		<0.48	U		<0.47	U		<0.47	U		
		VMP-1-5-082510	8/25/2010	<0.033	U		<0.026	U		<0.026	U		<0.026	U		<0.017	U		<0.017	U		<0.017	U		<0.017	U		
		VMP-1-5-111710	11/17/2010	<0.04	U		<0.031	U		<0.031	U		<0.031	U		<0.021	U		<0.021	U		<0.02	U		<0.02	U		
		VMP-1-5-020411	2/4/2011	<0.78	U		<0.61	U		<0.61	U		<0.61	U		<0.41	U		<0.41	U		<0.4	U		<0.4	U		
		VMP-1-5-041211	4/12/2011	<0.01	U		<0.0079	U		<0.0079	U		<0.0079	J	U	<0.0053	U		<0.0053	U		<0.0052	U		<0.0052	U		
		VMP-1-5-080111	8/1/2011	<0.01	U		<0.0079	U		0.0014	J		0.0024	J		<0.0053	U		<0.0053	U		<0.0052	U		<0.0052	U		
	8.5 ft	VMP-1-8.5	11/2/2009	<1.2	U		<0.98	U		<0.98	U		<0.98	U		<0.66	U		<0.66	U		<0.65	U		<0.65	U		
		VMP-1-8.5-082510	8/25/2010	<0.099	U		<0.077	U		<0.077	U		<0.077	U		<0.052	U		<0.052	U		<0.051	U		<0.051	U		
		VMP-1-8.5-111710	11/17/2010	<0.019	U		<0.015	U		<0.015	U		<0.015	U		<0.01	U		<0.01	U		<0.0098	U		<0.0098	U		
		VMP-1-8.5-111710-Dup	11/17/2010	<0.019	U		<0.015	U		<0.015	U		<0.015	U		<0.01	U		<0.01	U		<0.0098	U		<0.0098	U		
		VMP-1-8.5-020411	2/4/2011	<1.5	U		<1.2	U		<1.2	U		<1.2	U		<0.8	U		<0.8	U		<0.79	U		<0.79	U		
		VMP-1-8.5-041211	4/12/2011	<0.013	U		<0.01	U		<0.01	U		<0.01	J	U	<0.007	U		0.0012	J		<0.0069	U		<0.0069	U		
	23.5 ft	VMP-1-8.5-080111	8/1/2011	<5.5	U		<4.3	U		<4.3	U		<4.3	U		<2.9	U		<2.9	U		<2.8	U		<2.8	U		
		VMP-1-8.5-080111-Dup	8/1/2011	<5.4	U		<4.2	U		<4.2	U		<4.2	U		<2.8	U		<2.8	U		<2.8	U		<2.8	U		
		VMP-1-23.5	11/2/2009	<3	U		<2.4	U		<2.4	U		<2.4	U		<1.6	U		<1.6	U		<1.6	U		<1.6	U		
		VMP-1-23.5-083010	8/30/2010	<3.4	U		<2.7	U		<2.7	U		<2.7	U		<1.8	U		<1.8	U		<1.8	U		<1.8	U		
		VMP-1-23.5-111810	11/17/2010	<0.0095	U		<0.0074	U		<0.0074	U		<0.0074	U		<0.005	U		<0.005	U		<0.0049	U		<0.0049	U		
		VMP-1-23.5-020411	2/4/2011	<9	U		<7	U		<7	U		<7	U		<4.7	U		<4.7	U		<4.6	U		<4.6	U		
	38.5 ft	VMP-1-23.5-041211	4/12/2011	<15	U		<11	U		<11	U		<11	U		<7.7	U		<7.7	U		<7.5	U		<7.5	U		
		VMP-1-23.5-041211-Dup	4/12/2011	<18	U		<14	U		<14	U		<14	U		<9.7	U		<9.7	U		<9.5	U		<9.5	U		
	VMP-2	5 ft	VMP-1-23.5-080111	8/1/2011	<99	U		<78	U		<78	U		<78	U		<52	U		<52	U		<51	U		<51	U	
			VMP-1-38.5	11/2/2009	<8.6	U		<6.7	U		<6.7	U		<6.7	U		<4.5	U		<4.5	U		<4.4	U		<4.4	U	
VMP-2-5			11/2/2009	<1.1	U		<0.87	U		<0.87	U		<0.87	U		<0.59	U		<0.59	U		<0.58	U		<0.58	U		
VMP-2-5-083110			8/31/2010	<3.4	U		<2.7	U		<2.7	U		<2.7	U		<1.8	U		<1.8	U		<1.8	U		<1.8	U		
VMP-2-5-111610			11/16/2010	<5.1	U		<4	U		<4	U		<4	U		<2.7	U		<2.7	U		<2.6	U		<2.6	U		
VMP-2-5-020411			2/4/2011	<1.3	U		<1	U		<1	U		<1	U		<0.7	U		<0.7	U		<0.68	U		<0.68	U		
8.5 ft		VMP-2-5-041311	4/13/2011	<0.011	U		<0.0084	U		<0.0084	U		<0.0084	J	U	<0.0056	U		<0.0056	U		<0.0055	U		<0.0055	U		
		VMP-2-5-080211	8/2/2011	<11	U		<8.7	U		<8.7	U		<8.7	U		<5.8	U		<5.8	U		<5.7	U		<5.7	U		
		VMP-2-8.5	11/3/2009	<0.39	U		<0.31	U		<0.31	U		<0.31	U		<0.21	U		<0.21	U		<0.2	U		<0.2	U		
		VMP-2-8.5-D	11/3/2009	<0.41	U		<0.32	U		<0.32	U		<0.32	U		<0.22	U		<0.22	U		<0.21	U		<0.21	U		
		VMP-2-8.5-083110	8/31/2010	<3.5	U		<2.8	U		<2.8	U		<2.8	U		<1.9	U		<1.9	U		<1.8	U		<1.8	U		
		VMP-2-8.5-111610	11/16/2010	<9.7	U		<7.6	U		<7.6	U		<7.6	U		<5.1	U		<5.1	U		<5	U		<5	U		
22 ft		VMP-2-8.5-020411	2/4/2011	<3.3	U		<2.6	U		<2.6	U		<2.6	U		<1.7	U		<1.7	U		<1.7	U		<1.7	U		
		VMP-2-8.5-041311	4/13/2011	<1	U		<0.79	U		<0.79	U		<0.79	U		<0.53	U		0.1	J		0.076	J		<0.52	U		
		VMP-2-8.5-080211	8/2/2011	<41	U		<32	U		<32	U		<32	U		<21	U		<21	U		<21	U		<21	U		
		VMP-2-22	11/3/2009	<2.2	U		<1.7	U		<1.7	U		<1.7	U		<1.1	U		<1.1	U		<1.1	U		<1.1	U		
		VMP-2-22-083110	8/31/2010	<5.4	U		<4.2	U		<4.2	U		<4.2	U		<2.8	U		<2.8	U		<2.8	U		<2.8	U		
		VMP-2-22-111610	11/16/2010	<10	U		<7.9	U		<7.9	U		<7.9	U		<5.3	U		<5.3	U		<5.2	U		<5.2	U		
42 ft	VMP-2-22-020411	2/4/2011	<4.6	U		<3.6	U		<3.6	U		<3.6	U		<2.4	U		<2.4	U		<2.4	U		<2.4	U			
	VMP-2-22-041311	4/13/2011	<13	U		<10	U		<10	U		<10	U		<7.1	U		<7.1	U		<6.9	U		<6.9	U			
VMP-3	5 ft	VMP-2-22-080211	8/2/2011	<54	U		<42	U		<42	U		<42	U		<28	U		<28	U		<28	U		<28	U		
		VMP-2-42	11/3/2009	<42	U		<33	U		<33	U		<33	U		<22	U		<22	U		<22	U		<22	U		
		10 ft	VMP-3-5	11/3/2009	<0.041	U		<0.032	U		<0.032	U		<0.032	U		<0.022	U		<0.022	U		<0.021	U		<0.021	U	
			VMP-3-5-090910	9/9/2010	<10	U		<8	U		<8	U		<8	U		<5.4	U		<5.4	U		<5.3	U		<5.3	U	
			VMP-3-5-112210	11/22/2010	<10	U		<8.1	U		<8.1	U																

See last page of table for notes.

				TABLE 3 ANALYTICAL DETECTIONS AND SCREENING RESULTS																							
Location	Depth	Sample ID	Sample Date	Dichlorodifluoromethane			Dichloromethane (Methylene chloride)			CUMULATIVE SUMMARY OF SOIL			VAPOR ANALYTICAL DETECTIONS			ETHANOL			ETHYLBENZENE			4-ETHYLTOLUENE					
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier			
VMP-1	5 ft	VMP-1-5	11/2/2009	<0.59	U		<0.41	U		<0.55	U		<0.54	U		<1.7	U		<0.9	U		<0.52	U		<0.58	U	
		VMP-1-5-082510	8/25/2010	0.0028	J		<0.015	U		<0.02	U		<0.019	U		0.015	J		0.03	J		<0.018	U		<0.021	U	
		VMP-1-5-111710	11/17/2010	<0.025	U		<0.018	U		<0.024	U		<0.023	U		<0.074	U		0.0087	J		<0.0052	J		<0.025	U	
		VMP-1-5-020411	2/4/2011	<0.5	U		<0.35	U		<0.47	U		<0.46	U		<1.4	U		<0.76	U		<0.44	U		<0.5	U	
		VMP-1-5-041211	4/12/2011	0.002	J		0.0012	J		<0.0061	U		<0.006	U		<0.019	U		<0.0099	U		0.017			0.0018	J	
		VMP-1-5-080111	8/1/2011	0.0023	J		0.0098			<0.0061	U		<0.006	U		<0.019	U		0.078			0.0026	J		0.0026	J	
	8.5 ft	VMP-1-8.5	11/2/2009	<0.81	U		<0.57	U		<0.76	U		<0.74	U		<2.4	U		<1.2	U		<0.71	U		<0.8	U	
		VMP-1-8.5-082510	8/25/2010	<0.064	U		<0.045	U		<0.059	U		<0.058	U		<0.18	U		<0.097	U		<0.056	U		<0.063	U	
		VMP-1-8.5-111710	11/17/2010	0.0023	J		<0.0086	U		<0.011	U		<0.011	U		<0.036	U		0.011	J		0.0048	J		<0.012	U	
		VMP-1-8.5-111710-Dup	11/17/2010	0.0024	J		<0.0086	U		<0.011	U		<0.011	U		<0.036	U		0.009	J		0.0031	J		<0.012	U	
		VMP-1-8.5-020411	2/4/2011	<0.98	U		<0.69	U		<0.92	U		<0.9	U		<2.9	U		2.1			<0.86	U		<0.98	U	
		VMP-1-8.5-041211	4/12/2011	0.002	J		<0.006	U		<0.008	U		<0.0079	U		<0.025	U		<0.013	J	U	0.01			0.0023	J	
	23.5 ft	VMP-1-8.5-080111	8/1/2011	<3.6	U		<2.5	U		<3.3	U		<3.3	U		<10	U		<5.4	U		<3.1	U		<3.5	U	
		VMP-1-8.5-080111-Dup	8/1/2011	<3.5	U		<2.4	U		<3.2	U		<3.2	U		<10	U		<5.3	U		<3.1	U		<3.5	U	
		VMP-1-23.5	11/2/2009	<2	U		<1.4	U		<1.8	U		<1.8	U		<5.7	U		<3	U		<1.7	U		<1.9	U	
		VMP-1-23.5-083010	8/30/2010	<2.2	U		<1.6	U		<2.1	U		<2	U		<6.5	U		<3.4	U		<1.9	U		<2.2	U	
		VMP-1-23.5-111810	11/17/2010	0.0023	J		0.00074	J		0.0014	J		<0.0056	U		<0.018	U		0.0087	J		0.0015	J		<0.0061	U	
		VMP-1-23.5-020411	2/4/2011	<5.8	U		<4	U		<5.4	U		<5.3	U		<17	U		<8.8	U		<5	U		<5.7	U	
	38.5 ft	VMP-1-23.5-041211	4/12/2011	<9.4	U		2.6	J		<8.8	U		<8.6	U		<27	U		4.9	J		0.93	J		<9.3	U	
		VMP-1-23.5-041211-Dup	4/12/2011	<12	U		1.5	J		<11	U		<11	U		<34	U		<18	U		1.3	J		<12	U	
		VMP-1-23.5-080111	8/1/2011	<64	U		<45	U		<60	U		<58	U		<180	U		<97	U		<56	U		<63	U	
		VMP-1-38.5	11/2/2009	<5.5	U		<3.9	U		<5.2	U		<5.1	U		<16	U		<8.4	U		<4.9	U		<5.5	U	
VMP-2		VMP-2-5	11/2/2009	<0.72	U		<0.5	U		<0.67	U		<0.66	U		<2.1	U		<1.1	U		<0.63	U		<0.72	U	
		VMP-2-5-083110	8/31/2010	<2.2	U		<1.6	U		<2.1	U		<2	U		<6.5	U		<3.4	U		<1.9	U		<2.2	U	
	VMP-2-5-111610	11/16/2010	<3.3	U		<2.3	U		<3	U		<3	U		<9.5	U		<5	U		<2.9	U		<3.2	U		
	VMP-2-5-020411	2/4/2011	<0.85	U		<0.6	U		<0.8	U		<0.78	U		<2.5	U		<1.3	U		<0.75	U		<0.85	U		
	VMP-2-5-041311	4/13/2011	0.0022	J		0.00083	J		<0.0064	U		<0.0063	U		<0.02	U		0.0071	J		0.0096			0.0011	J		
	VMP-2-5-080211	8/2/2011	<7.1	U		<5	U		<6.7	U		<6.6	U		<21	U		<11	U		<6.3	U		<7.1	U		
	VMP-2-8.5	11/3/2009	<0.25	U		<0.18	U	UJ	<0.24	U		<0.23	U		<0.74	U		<0.38	U		<0.22	U		<0.25	U		
	VMP-2-8.5-D	11/3/2009	<0.27	U		<0.19	U	UJ	<0.25	U		<0.24	U		<0.78	U		<0.41	U		<0.23	U		<0.26	U		
	VMP-2-8.5-083110	8/31/2010	<2.3	U		<1.6	U		<2.1	U		<2.1	U		<6.6	U		<3.5	U		<2	U		<2.3	U		
	VMP-2-8.5-111610	11/16/2010	<6.2	U		<4.4	U		<5.8	U		<5.7	U		<18	U		<9.5	U		<5.5	U		<6.2	U		
VMP-2-8.5-020411	2/4/2011	<2.1	U		<1.5	U		<2	U		<2	U		<6.2	U		<3.2	U		<1.9	U		<2.1	U			
VMP-2-8.5-041311	4/13/2011	<0.65	U		<0.46	U		<0.61	U		<0.6	U		<1.9	U		<0.99	U		<0.57	U		<0.65	U			
VMP-2-8.5-080211	8/2/2011	<26	U		<18	U		<24	U		<24	U		<76	U		<40	U		<23	U		<26	U			
22 ft	VMP-2-22	11/3/2009	<1.4	U		<0.97	U		<1.3	U		<1.3	U		<4	U		<2.1	U		<1.2	U		<1.4	U		
	VMP-2-22-083110	8/31/2010	<3.5	U		<2.4	U		<3.2	U		<3.2	U		<10	U		<5.3	U		<3.1	U		<3.5	U		
	VMP-2-22-111610	11/16/2010	<6.5	U		<4.6	U		<6.1	U		<6	U		<19	U		<9.9	U		<5.7	U		<6.5	U		
	VMP-2-22-020411	2/4/2011	<2.9	U		<2.1	U		<2.7	U		<2.7	U		<8.6	U		<4.5	U		<2.6	U		<2.9	U		
	VMP-2-22-041311	4/13/2011	<8.6	U		<6.1	U		<8.1	U		<7.9	U		<25	U		<13	U		<7.6	U		<8.6	U		
	VMP-2-22-080211	8/2/2011	<35	U		<24	U		<32	U		<32	U		<100	U		<53	U		<31	U		<35	U		
42 ft	VMP-2-42	11/3/2009	<27	U		<19	U		<25	U		<25	U		<79	U		<41	U	UJ	130			<27	U		
VMP-3	5 ft	VMP-3-5	11/3/2009	<0.027	U		<0.019	U	UJ	<0.025	U		<0.024	U		<0.078	U		<0.041	U		0.065			0.035		
		VMP-3-5-090910	9/9/2010	<6.6	U		<4.6	U		<6.1	U		<6	U		<19	U		<10	U		<5.8	U		<6.5	U	
		VMP-3-5-112210	11/22/2010	<6.6	U		14			<6.2	U		<6.1	U		<19	U		<10	U		<5.8	U		<6.6	U	
		VMP-3-5-020911	2/9/2011	<3	U		<2.1	U		<2.8	U		<2.7	U		<8.7	U		<4.6	U		&lt					

See last page of table for notes.

TABLE 3				ANALYTICAL DETECTIONS AND SCREENING RESULTS																									
Location	Depth	Sample ID	Sample Date	Freon 113			Heptane			Cumulative Summary of Soil			Vapor Analysis			2-Hexanone (Methyl N-Butyl Ketone)			Pentane			Isopropylbenzene (Cumene)			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)				
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier		
VMP-1	5 ft	VMP-1-5	11/2/2009	<0.91	U		3.8			<5.1	U		53			<1.9	U					<0.58	U		<0.49	U			
		VMP-1-5-082510	8/25/2010	<0.032	U		<0.017		U	<0.18	U		0.025			<0.07	U					<0.021	U		<0.017	U			
		VMP-1-5-111710	11/17/2010	<0.039	U		0.16			<0.22	U		0.4			<0.084	U					<0.025	U		<0.021	U			
		VMP-1-5-020411	2/4/2011	<0.77	U		<0.41		U	<4.3	U		9.4			<1.6	U					<0.5	U		<0.41	U			
		VMP-1-5-041211	4/12/2011	<0.01	U		0.45			<0.056	U		0.53			<0.022	U		0.099			0.0019	J		<0.0054	U			
		VMP-1-5-080111	8/1/2011	<0.01	U		0.012			<0.056	U		0.037			0.0024	J		0.45			0.03			0.081				
	8.5 ft	VMP-1-8.5	11/2/2009	<1.2	U		1.7			<7	U		16			<2.7	U					<0.8	U		<0.67	U			
		VMP-1-8.5-082510	8/25/2010	<0.098	U		<0.053		U	<0.55	U		<0.045		U	<0.21	U					<0.063	U		<0.053	U			
		VMP-1-8.5-111710	11/17/2010	<0.019	U		0.075			<0.1	U		0.088			<0.04	U					<0.012	U		<0.01	U			
		VMP-1-8.5-111710-Dup	11/17/2010	<0.019	U		0.06			<0.1	U		0.076			<0.04	U					<0.012	U		<0.01	U			
		VMP-1-8.5-020411	2/4/2011	<1.5	U		<0.81		U	<8.5	U		11			<3.2	U					<0.98	U		<0.81	U			
		VMP-1-8.5-041211	4/12/2011	<0.013	U		0.17			<0.074	U		0.14			<0.028	U		0.046			0.0013	J		<0.0071	U			
	23.5 ft	VMP-1-8.5-080111	8/1/2011	<5.5	U		<3		U	<31	U		5.1			<12	U		1300			<3.5	U		<2.9	U			
		VMP-1-8.5-080111-Dup	8/1/2011	<5.4	U		<2.9		U	<30	U		17			<12	U		1300			<3.5	U		<2.9	U			
		VMP-1-23.5	11/2/2009	<3	U		24			<17	U		140			<6.5	U					<1.9	U		<1.6	U			
		VMP-1-23.5-083010	8/30/2010	<3.4	U		44			<19	U		260			<7.3	U					<2.2	U		<1.8	U			
		VMP-1-23.5-111810	11/17/2010	<0.0095	U		0.015			<0.053	U		0.016			<0.02	U					<0.0061	U		<0.005	U			
		VMP-1-23.5-020411	2/4/2011	<8.9	U		<4.8		U	<50	U		300			<19	U					<5.7	U		<4.8	U			
	38.5 ft	VMP-1-23.5-041211	4/12/2011	<14	U		4.2		J	<81	U		9.7			<31	U		900		J	<9.3	U		<7.8	U			
		VMP-1-23.5-041211-Dup	4/12/2011	<18	U		6.8		J	<100	U		14			<39	U		1300		J	<12	U		<9.8	U			
		VMP-1-23.5-080111	8/1/2011	<99	U		49		J	<550	U		320			<210	U		16000			<63	U		<53	U			
		VMP-1-38.5	11/2/2009	<8.6	U		130			<48	U		1000			<18	U					<5.5	U		<4.6	U			
		VMP-2	5 ft	VMP-2-5	11/2/2009	<1.1	U		1.3			<6.2	U		13			<2.4	U					<0.72	U		<0.6	U	
				VMP-2-5-083110	8/31/2010	<3.4	U		<1.8		U	<19	U		<1.6		U	<7.3	U					<2.2	U		<1.8	U	
VMP-2-5-111610	11/16/2010			<5	U		<2.7		U	<28	U		42			<11	U					<3.2	U		<2.7	U			
VMP-2-5-020411	2/4/2011			<1.3	U		<0.71		U	<7.4	U		2.7			<2.8	U					<0.85	U		<0.71	U			
VMP-2-5-041311	4/13/2011			<0.011	U		0.13			<0.059	U		0.087			<0.023	U		0.1			0.0013	J		<0.0057	U			
VMP-2-5-080211	8/2/2011			<11	U		<5.9		U	<62	U		32			<24	U		6800			<7.1	U		<5.9	U			
8.5 ft	VMP-2-8.5		11/3/2009	<0.39	U		<0.21		U	<2.2	U		<0.18		U	<0.84	U					<0.25	U		<0.21	U			
	VMP-2-8.5-D		11/3/2009	<0.41	U		<0.22		U	<2.3	U		<0.19		U	<0.88	U					<0.26	U		<0.22	U			
	VMP-2-8.5-083110		8/31/2010	<3.5	U		<1.9		U	<20	U		38			<7.5	U					<2.3	U		<1.9	U			
	VMP-2-8.5-111610		11/16/2010	<9.6	U		<5.2		U	<54	U		54			<21	U					<6.2	U		<5.2	U			
	VMP-2-8.5-020411		2/4/2011	<3.3	U		<1.8		U	<18	U		6.1			<7	U					<2.1	U		<1.8	U			
	VMP-2-8.5-041311		4/13/2011	<1	U		0.38		J	<5.6	U		0.16		J	<2.2	U		3.5			0.18	J		0.18	J			
22 ft	VMP-2-8.5-080211		8/2/2011	<41	U		<22		U	<230	U		56			<87	U		8300			<26	U		<22	U			
	VMP-2-22		11/3/2009	<2.1	U		1.6			<12	U		13			<4.6	U					<1.4	U		<1.1	U			
	VMP-2-22-083110		8/31/2010	<5.4	U		<2.9		U	<30	U		63			<12	U					<3.5	U		<2.9	U			
	VMP-2-22-111610		11/16/2010	<10	U		<5.4		U	<56	U		78			<22	U					<6.5	U		<5.4	U			
	VMP-2-22-020411		2/4/2011	<4.6	U		<2.4		U	<25	U		35			<9.7	U					<2.9	U		<2.4	U			
	VMP-2-22-041311		4/13/2011	<13	U		<7.2		U	<74	U		1.7		J	<28	U		1400			<8.6	U		1.6	J			
42 ft	VMP-2-22-080211	8/2/2011	<54	U		<29		U	<300	U		59			<120	U		8600			<35	U		<29	U				
	VMP-2-42	11/3/2009	<42	U		1800			<230	U		7000			<90	U					<27	U		<22	U				
VMP-3	5 ft	VMP-3-5	11/3/2009	<0.041	U		0.16			<0.23	U		0.58			<0.088	U					<0.026	U		<0.022	U			
		VMP-3-5-090910	9/9/2010	<10	U		4.8		J	<57	U		110			<22	U					<6.5	U		<5.4	U			
		VMP-3-5-112210	11/22/2010	<10	U		<5.5		U	<57	U		150			<22	U					<6.6	U		<5.5	U			
		VMP-3-5-020911	2/9/2011	<4.6	U		<2.5		U	<26	U		25			<9.9	U					<3	U		<2.5	U			
		VMP-3-5-041411	4/14/2011	<50	U		<27		U	<280	U		240			<110	U		12000			<32	U		<27	U			
		VMP-3-5-080211	8/2/2011	<0.012	U		0.0027		J	<0.066	U		0.022			0.0035	J		0.3			0.021			0.092				
	10 ft	VMP-3-10	6/21/2010	<12	U		86			<65	U		1300			<25													

See last page of table for notes.

TABLE 3

Location	Depth	Sample ID	Sample Date	Methyl tert-Butyl Ether (MTBE)			2-Propanol			CUMULATIVE SUMMARY OF SOIL ANALYTICAL DETECTIONS AND SCREENING RESULTS			1,1,1-Trichloroethane			1,2-Dichloroethane			Hydrofuran			Toluene			1,2,4-Trichlorobenzene		
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier
VMP-1	5 ft	VMP-1-5	11/2/2009	<0.43	U		<1.2	U		<0.58	U		<0.51	U		<0.81	U		<0.35	U		0.63			<3.5	U	
		VMP-1-5-082510	8/25/2010	<0.015	U		<0.042	U		<0.021	U		<0.018	U		<0.029	U		<0.012	U		0.0031	J		<0.13	U	
		VMP-1-5-111710	11/17/2010	<0.018	U		<0.051	U		<0.025	U		0.0059	J		<0.035	U		<0.015	U		<0.019	U		<0.15	U	
		VMP-1-5-020411	2/4/2011	<0.36	U		1.9			<0.5	U		<0.43	U		<0.68	U		<0.3	U		<0.38	U		<3	U	
		VMP-1-5-041211	4/12/2011	<0.0048	U		0.0032	J		0.0038	J		<0.0056	U		0.002	J		<0.0039	U		0.0024	J		<0.039	J	U
	8.5 ft	VMP-1-5-080111	8/1/2011	<0.0048	U		0.026			0.0013	J		0.0021	J		<0.009	U		0.0016	J		0.032			<0.039	U	
		VMP-1-8.5	11/2/2009	<0.59	U		<1.6	U		<0.8	U		<0.7	U		<1.1	U		<0.48	U		<0.62	U		<4.8	U	
		VMP-1-8.5-082510	8/25/2010	<0.046	U		<0.13	U		<0.063	U		<0.055	U		<0.087	U		<0.038	U		<0.048	U		<0.38	U	
		VMP-1-8.5-111710	11/17/2010	<0.0089	U		<0.024	U		0.0022	J		0.0034	J		<0.017	U		<0.0073	U		<0.0093	U		<0.073	U	
		VMP-1-8.5-111710-Dup	11/17/2010	0.00094	J		0.015	J		0.0021	J		0.0022	J		<0.017	U		<0.0073	U		0.002	J		<0.073	U	
	23.5 ft	VMP-1-8.5-020411	2/4/2011	<0.72	U		<2	U		<0.98	U		<0.84	U		<1.3	U		<0.58	U		<0.75	U		<5.9	U	
		VMP-1-8.5-041211	4/12/2011	<0.0063	U		<0.017	U		0.0025	J		<0.0074	U		0.00097	J		<0.0051	U		0.0022	J		<0.052	J	U
		VMP-1-8.5-080111	8/1/2011	<2.6	U		<7.1	U		<3.5	U		<3.1	U		<4.9	U		<2.1	U		<2.7	U		<21	U	
		VMP-1-8.5-080111-Dup	8/1/2011	<2.5	U		<6.9	U		<3.5	U		<3	U		<4.8	U		<2.1	U		<2.6	U		<21	U	
		VMP-1-23.5	11/2/2009	<1.4	U		<3.9	U		<1.9	U		<1.7	U		<2.7	U		<1.2	U		<1.5	U		<12	U	
	38.5 ft	VMP-1-23.5-083010	8/30/2010	<1.6	U		<4.4	U		<2.2	U		<1.9	U		<3	U		<1.3	U		<1.7	U		<13	U	
		VMP-1-23.5-111810	11/17/2010	0.00052	J		0.0052	J		<0.0061	U		0.003	J		<0.0084	J	U	<0.0036	U		0.001	J		<0.037	U	
		VMP-1-23.5-020411	2/4/2011	<4.2	U		<11	U		<5.7	U		<5	U		<7.9	U		<3.4	U		<4.4	U		<34	U	
VMP-1-23.5-041211		4/12/2011	<6.8	U		12	J		<9.3	U		<8.1	U		<13	U		<5.6	U		1.9	J		<56	U		
VMP-1-23.5-041211-Dup		4/12/2011	<8.6	U		8.1	J		<12	U		<10	U		<16	U		<7.1	U		<9	U		<71	U		
VMP-2	5 ft	VMP-2-5	11/2/2009	<0.52	U		<1.4	U		<0.72	U		<0.62	U		<0.99	U		<0.43	U		<0.55	U		<4.3	U	
		VMP-2-5-083110	8/31/2010	<1.6	U		<4.4	U		<2.2	U		<1.9	U		<3	U		<1.3	U		<1.7	U		<13	U	
		VMP-2-5-111610	11/16/2010	<2.4	U		<6.5	U		<3.2	U		<2.8	U		<4.5	U		<1.9	U		<2.5	U		<20	U	
		VMP-2-5-020411	2/4/2011	<0.62	U		<1.7	U		<0.85	U		<0.73	U		<1.2	U		<0.51	U		<0.65	U		<5.1	U	
		VMP-2-5-041311	4/13/2011	0.00046	J		<0.014	U		0.0022	J		<0.0059	U		0.0042	J		<0.0041	U		0.0046	J		<0.041	U	
	8.5 ft	VMP-2-5-080211	8/2/2011	<5.2	U		<14	U		<7.1	U		<6.2	U		<9.8	U		<4.3	U		<5.4	U		<43	U	
		VMP-2-8.5	11/3/2009	<0.18	U		<0.5	U		<0.25	U		<0.22	U		<0.34	U		<0.15	U		<0.19	U		<1.5	U	
		VMP-2-8.5-D	11/3/2009	<0.19	U		<0.53	U		<0.26	U		<0.23	U		<0.37	U		<0.16	U		<0.2	U		<1.6	U	
		VMP-2-8.5-083110	8/31/2010	<1.6	U		<4.5	U		<2.3	U		<2	U		<3.1	U		<1.4	U		<1.7	U		<14	U	
		VMP-2-8.5-111610	11/16/2010	<4.5	U		<12	U		<6.2	U		<5.4	U		<8.5	U		<3.7	U		<4.7	U		<37	U	
	22 ft	VMP-2-8.5-020411	2/4/2011	<1.6	U		<4.2	U		<2.1	U		<1.8	U		<2.9	U		<1.3	U		<1.6	U		<13	U	
		VMP-2-8.5-041311	4/13/2011	<0.47	U		<1.3	U		<0.65	U		<0.56	U		<0.89	U		<0.39	U		0.035	J		<3.9	U	
		VMP-2-8.5-080211	8/2/2011	<19	U		11	J		<26	U		<22	U		<36	U		<16	U		<20	U		<160	U	
		VMP-2-22	11/3/2009	<1	U		<2.8	U		<1.4	U		<1.2	U		<1.9	U		<0.82	U		<1	U		<8.3	U	
		VMP-2-22-083110	8/31/2010	<2.5	U		<6.9	U		<3.5	U		<3	U		<4.8	U		<2.1	U		<2.6	U		<21	U	
	42 ft	VMP-2-22-111610	11/16/2010	<4.8	U		<13	U		<6.5	U		<5.6	U		<9	U		<3.9	U		<5	U		<39	U	
		VMP-2-22-020411	2/4/2011	<2.1	U		<5.8	U		<2.9	U		<2.5	U		<4	U		<1.8	U		<2.2	U		<18	U	
		VMP-2-22-041311	4/13/2011	<6.3	U		<17	U		<8.6	U		<7.4	U		<12	U		<5.1	U		<6.6	U		<52	U	
VMP-2-22-080211		8/2/2011	<25	U		<69	U		<35	U		<30	U		<48	U		<21	U		<26	U		<210	U		
VMP-2-42		11/3/2009	<20	U		<54	U		<27	U		<23	U		<37	U		<16	U		59			<160	U		
VMP-3	5 ft	VMP-3-5	11/3/2009	<0.019	U		<0.053	U		<0.026	U		<0.023	U		<0.037	U		<0.016	U		<0.02	U		<0.16	U	
		VMP-3-5-090910	9/9/2010	<4.8	U		<13	U		<6.5	U		<5.7	U		<9	U		<3.9	U		<5	U		<39	U	
		VMP-3-5-112210	11/22/2010	<4.8	U		2.1	J		<6.6	U		<5.7	U		4.5	J		<4	U		3.2	J		<40	U	
		VMP-3-5-020911	2/9/2011	<2.2	U		<5.9	U		<3	U		<2.6	U		<4.1	U		<1.8	U		<2.3	U		<18	U	
		VMP-3-5-041411	4/14/2011	<23	U		<64	UJ	UJ	<32	U		<28	U		<44	U		<19	U		<24	U		<190	U	
	10 ft	VMP-3-5-080211																									

See last page of table for notes.

				TABLE 3																										
Location	Depth	Sample ID	Sample Date	1,1,1-Trichloroethane (Methyl chloroform)			1,1,2-Trichloroethane			SUMMARY OF SOIL			VAPOR ANALYTICAL DATA - VOCs			DETECTIONS AND SCREENING RESULTS			Ethylbenzene			2,2,4-Trimethylpentane			m,p-Xylene			o-Xylenes		
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier
VMP-1	5 ft	VMP-1-5	11/2/2009	<0.65	U		<0.65	U		<0.64	U		<0.67	U		<0.58	U		<0.58	U		220			<0.52	U		<0.52	U	
		VMP-1-5-082510	8/25/2010	<0.023	U		<0.023	U		<0.023	U		<0.024	U		<0.021	U		<0.021	U		0.74			0.0024	J		<0.018	U	
		VMP-1-5-111710	11/17/2010	<0.028	U		<0.028	U		<0.028	U		<0.029	U		<0.025	U		<0.025	U		5.3			0.0043	J		<0.022	U	
		VMP-1-5-020411	2/4/2011	<0.55	U		<0.55	U		<0.54	U		<0.57	U		<0.5	U		<0.5	U		270			<0.44	U		<0.44	U	
		VMP-1-5-041211	4/12/2011	<0.0072	U		<0.0072	U		<0.0071	J	U	0.0012	J		0.0023	J		<0.0065	U		1.5			0.0056			<0.0057	U	
		VMP-1-5-080111	8/1/2011	<0.0072	U		<0.0072	U		0.01			<0.0074	U		0.0066			<0.0019	J		0.14			0.0079			0.0029	J	
	8.5 ft	VMP-1-8.5	11/2/2009	<0.89	U		<0.89	U		<0.88	U		<0.92	U		<0.8	U		<0.8	U		370			<0.71	U		<0.71	U	
		VMP-1-8.5-082510	8/25/2010	<0.07	U		<0.07	U		<0.069	U		<0.072	U		<0.063	U		<0.063	U		4.2			<0.056	U		<0.056	U	
		VMP-1-8.5-111710	11/17/2010	<0.013	U		<0.013	U		<0.013	J	U	<0.014	U		<0.012	U		<0.012	U		3.1			0.002	J		<0.011	U	
		VMP-1-8.5-111710-Dup	11/17/2010	<0.013	U		<0.013	U		<0.013	J	U	<0.014	U		<0.012	U		<0.012	U		2.8			0.0014	J		<0.011	U	
		VMP-1-8.5-020411	2/4/2011	<1.1	U		<1.1	U		<1.1	U		<1.1	U		<0.98	U		<0.98	U		350			<0.86	U		<0.86	U	
		VMP-1-8.5-041211	4/12/2011	<0.0095	U		<0.0095	U		0.0048	J		0.0012	J		0.0025	J		<0.0086	U		1.9			0.0047	J		<0.0076	U	
		VMP-1-8.5-080111	8/1/2011	<3.9	U		<3.9	U		<3.9	U		<4	U		<3.5	U		<3.5	U		380			<3.1	U		<3.1	U	
		VMP-1-8.5-080111-Dup	8/1/2011	<3.8	U		<3.8	U		<3.8	U		<4	U		<3.5	U		<3.5	U		360			<3.1	U		<3.1	U	
	23.5 ft	VMP-1-23.5	11/2/2009	<2.2	U		<2.2	U		<2.1	U		<2.2	U		<1.9	U		<1.9	U		920			<1.7	U		<1.7	U	
		VMP-1-23.5-083010	8/30/2010	<2.4	U		<2.4	U		<2.4	U		<2.5	U		<2.2	U		<2.2	U		1600			<1.9	U		<1.9	U	
		VMP-1-23.5-111810	11/17/2010	<0.0067	U		<0.0067	U		<0.0066	J	U	0.0014	J		<0.0061	U		<0.0061	U		0.06			<0.0054	J	U	<0.0054	U	
		VMP-1-23.5-020411	2/4/2011	<6.4	U		<6.4	U		<6.3	U		<6.5	U		<5.7	U		<5.7	U		1900			<5	U		<5	U	
		VMP-1-23.5-041211	4/12/2011	<10	U		<10	U		11			<11	U		<9.3	U		<9.3	U		110		J	<8.2	U		<8.2	U	
		VMP-1-23.5-041211-Dup	4/12/2011	<13	U		<13	U		2.2	J		<13	U		<12	U		<12	U		150		J	<10	U		<10	U	
	38.5 ft	VMP-1-23.5-080111	8/1/2011	<70	U		<70	U		<69	U		<72	U		<63	U		<63	U		1000			<56	U		<56	U	
		VMP-1-38.5	11/2/2009	<6.1	U		<6.1	U		<6	U		<6.3	U		<5.5	U		<5.5	U		2400			<4.9	U		<4.9	U	
VMP-2	5 ft	VMP-2-5	11/2/2009	<0.79	U		<0.79	U		<0.78	U		<0.82	U		<0.72	U		<0.72	U		270			<0.63	U		<0.63	U	
		VMP-2-5-083110	8/31/2010	<2.4	U		<2.4	U		<2.4	U		<2.5	U		<2.2	U		<2.2	U		1300			<1.9	U		<1.9	U	
		VMP-2-5-111610	11/16/2010	<3.6	U		<3.6	U		<3.5	U		<3.7	U		<3.2	U		<3.2	U		2000			<2.9	U		<2.9	U	
		VMP-2-5-020411	2/4/2011	<0.94	U		<0.94	U		<0.93	U		<0.97	U		<0.85	U		<0.85	U		570			<0.75	U		<0.75	U	
		VMP-2-5-041311	4/13/2011	<0.0076	U		<0.0076	U		0.0042	J		0.0015	J		0.0022	J		<0.0068	U		1.1			0.0038	J		<0.006	U	
		VMP-2-5-080211	8/2/2011	<7.9	U		<7.9	U		<7.8	U		<8.1	U		<7.1	U		<7.1	U		1300			<6.3	U		<6.3	U	
	8.5 ft	VMP-2-8.5	11/3/2009	<0.28	U		<0.28	U		<0.27	U		<0.29	U		<0.25	U		<0.25	U		74			<0.22	U		<0.22	U	
		VMP-2-8.5-D	11/3/2009	<0.29	U		<0.29	U		<0.29	U		<0.3	U		<0.26	U		<0.26	U		82			<0.23	U		<0.23	U	
		VMP-2-8.5-083110	8/31/2010	<2.5	U		<2.5	U		<2.5	U		<2.6	U		<2.3	U		<2.3	U		2000			<2	U		<2	U	
		VMP-2-8.5-111610	11/16/2010	<6.9	U		<6.9	U		<6.8	U		<7.1	U		<6.2	U		<6.2	U		2000			<5.5	U		<5.5	U	
		VMP-2-8.5-020411	2/4/2011	<2.3	U		<2.3	U		<2.3	U		<2.4	U		<2.1	U		<2.1	U		830			<1.9	U		<1.9	U	
		VMP-2-8.5-041311	4/13/2011	0.078	J		<0.72	U		0.095	J		0.12	J		<0.65	U		<0.65	U		140	B		0.048	J		0.074	J	
		VMP-2-8.5-080211	8/2/2011	<29	U		<29	U		<28	U		<30	U		<26	U		<26	U		1600			<23	U		<23	U	
	22 ft	VMP-2-22	11/3/2009	<1.5	U		<1.5	U		<1.5	U		<1.6	U		<1.4	U		<1.4	U		600			<1.2	U		<1.2	U	
VMP-2-22-083110		8/31/2010	<3.8	U		<3.8	U		<3.8	U		<4	U		<3.5	U		<3.5	U		2300			<3.1	U		<3.1	U		
VMP-2-22-111610		11/16/2010	<7.2	U		<7.2	U		<7.1	U		<7.4	U		<6.5	U		<6.5	U		2300			<5.7	U		<5.7	U		
VMP-2-22-020411		2/4/2011	<3.2	U		<3.2	U		<3.2	U		<3.3	U		<2.9	U		<2.9	U		1400			<2.6	U		<2.6	U		
VMP-2-22-041311		4/13/2011	<9.5	U		<9.5	U		<9.4	U		<9.8	U		<8.6															

See last page of table for notes.

TABLE 3				ANALYTICAL DETECTIONS AND SCREENING RESULTS																								
Location	Depth	Sample ID	Sample Date	Acetone			Benzene			CUMULATIVE SUMMARY OF RESULTS			VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS			Propane			2-Butanone			Carbon disulfide						
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier				
VMP-4	5 ft	VMP-4-5	11/5/2009	<0.12	U		<0.04	U		<0.085	U		<0.049	U		<0.028	U				<0.037	U		<0.039	U			
		VMP-4-5-082510	8/25/2010	<0.68	U		0.27			<0.48	U		<0.28	U		<0.16	U				<0.21	U		<0.22	U			
		VMP-4-5-112210	11/22/2010	<26	U		41			<18	U		<10	U		<6	U				<7.9	U		<8.4	U			
		VMP-4-5-021411	2/14/2011	<1.5	U		2.3			<1	U		<0.61	U		<0.35	U				<0.46	U		<0.49	U			
		VMP-4-5-041911	4/19/2011	<69	U		22	J		<48	U		<28	U		<16	U		7000		<86	U		<22	U			
		VMP-4-5-080311	8/3/2011	<0.15	U		0.1			<0.1	U		<0.06	U		<0.034	U		1.3		<0.18	U		<0.19	U			
	12 ft	VMP-4-12	11/5/2009	<2	U		3.2			<1.4	U		<0.82	U		<0.47	U				<0.62	U		<0.66	U			
		VMP-4-12-082510	8/25/2010	<12	U		28			<8.4	U		<4.9	U		<2.8	U				<3.7	U		<3.9	U			
		VMP-4-12-112310	11/23/2010	<12	U		15			<8.6	U		<5	U		<2.8	U				<3.8	U		<4	U			
		VMP-4-12-021411	2/14/2011	<3.1	U		5.2			<2.2	U		<1.2	U		<0.72	U				<0.96	U		<1	U			
		VMP-4-12-041911	4/19/2011	<59	U		38			<42	U		<24	U		<14	U		7200		<74	U		<19	U			
		VMP-4-12-080311	8/3/2011	<6.8	U		8.4			<4.8	U		<2.8	U		<1.6	U		1400		<8.5	U		<2.2	U			
	23.5 ft	VMP-4-12-080311-Dup	8/3/2011	<14	U		6.4			<9.7	U		<5.6	U		<3.2	U		1200		<17	U		<4.5	U			
		VMP-4-23.5	11/5/2009	<92	U		540			<65	U		<38	U		<21	U				<29	U		<30	U			
		VMP-4-23.5-083110	8/31/2010	<14	U		490		J	<9.7	U		<5.6	U		<3.2	U				<4.3	U		<4.5	U			
		VMP-4-23.5-112310	11/23/2010	<140	U		510			<97	U		<56	U		<32	U				<43	U		<45	U			
		VMP-4-23.5-021411	2/14/2011	<5	U		340		J	<3.6	U		<2	U		<1.2	U				<1.6	U		<1.6	U			
		VMP-4-23.5-042011	4/20/2011	<320	U		440			<220	U		<130	U		<74	U		72000		<400	U		<100	U			
	39 ft	VMP-4-23.5-042011-Dup	4/20/2011	58	J		410			<220	U		<130	U		<74	U		70000		<400	U		<100	U			
		VMP-4-23.5-080611	8/6/2011	<13	U		280			<9.4	U		<5.4	U		<3.1	U		56000		<16	U		<4.4	U			
		VMP-4-39	11/5/2009	<71	U		660			<50	U		<29	U		<16	U				<22	U		<23	U			
		VMP-4-39-042111	4/21/2011	<400	U		470			<280	U		<160	U		<93	U		69000		<500	U		<130	U			
		VMP-5	5 ft	VMP-5-5	11/5/2009	<2.1	U		1.5			<1.5	U		<0.87	U		<0.5	U				<0.66	U		<0.7	U	
				VMP-5-5-090910	9/9/2010	<25	U		7.6	J		<18	U		<10	U		<5.8	U				<7.8	U		<8.2	U	
VMP-5-5-112210	11/22/2010			<6.1	U		8.6			<4.3	U		<2.5	U		<1.4	U				<1.9	U		<2	U			
VMP-5-5-021611	2/16/2011			<0.039	U		0.024		J	<0.028	U		<0.016	U		<0.0091	U				<0.012	U		0.0081	J	J		
VMP-5-5-042111	4/21/2011			<0.12	U		0.88			<0.088	U		<0.051	U		<0.029	U		0.064	J	<0.16	U		<0.041	U			
VMP-5-5-080511	8/5/2011			0.084			0.015			<0.0084	U		<0.0049	U		<0.0028	U		0.86		0.028			0.0037	J			
12.5 ft	VMP-5-12.5		11/6/2009	<2.4	U		5.8			<1.7	U		<1	U		<0.57	U				<0.76	U		<0.8	U			
	VMP-5-12.5-D		11/6/2009	<5.5	U		6			<3.9	U		<2.2	U		<1.3	U				<1.7	U		<1.8	U			
	VMP-5-12.5-090910		9/9/2010	7.6	J		11			<8.8	U		<5.1	U		<2.9	U				<3.9	U		<4.1	U			
	VMP-5-12.5-112310		11/23/2010	<0.63	U		0.54			<0.44	U		<0.26	U		<0.15	U				<0.19	U		<0.2	U			
	VMP-5-12.5-021611		2/16/2011	<1.9	U		<0.63	U		<1.3	U		<0.77	U		<0.44	U				<0.58	U		<0.62	U			
	VMP-5-12.5-042111		4/21/2011	<0.13	U		0.71			<0.094	U		<0.055	U		<0.031	U		0.11	J	<0.17	U		<0.044	U			
31 ft	VMP-5-12.5-080611		8/6/2011	<12	U		4.6			<8.3	U		<4.8	U		<2.7	U		7600		<15	U		<3.9	U			
	VMP-5-31		11/6/2009	<23	U		160			<16	U		<9.2	U		<5.3	U				<7	U		<7.4	U			
	VMP-5-31-090910		9/9/2010	<52	U		200			<37	U		<21	U		<12	U				<16	U		<17	U			
	VMP-5-31-112310		11/23/2010	<33	U		180			<23	U		<13	U		<7.6	U				<10	U		<11	U			
	VMP-5-31-021611		2/16/2011	<13	U		74			<9.2	U		<5.4	U		<3	U				<4.1	U		<4.3	U			
	VMP-5-31-042111		4/21/2011	<200	U		66			<140	U		<80	U		<46	U		34000		<240	U		<64	U			
40 ft	VMP-5-31-080611	8/6/2011	<110	U		64			<78	U		<45	U		<26	U		38000		<140	U		6.4	J				
	VMP-5-40	11/6/2009	<31	U		170			<22	U		<13	U		<7.2	U				<9.7	U		<10	U				
	VMP-5-40-042111	4/21/2011	<200	U		64	J		<140	U		<84	U		<48	U		27000		<250	U		<67	U				
	VMP-6	5 ft	VMP-6-5	11/6/2009	<3.8	U		5.8		J	<2.6	U		<1.5	U		<0.88	U				<1.2	U		<1.2	U		
			VMP-6-5-090810	9/8/2010	<2.1	U		1			<1.5	U		<0.85	U		<0.49	U				<0.65	U		<0.68	U		
			VMP-6-5-111610	11/16/2010	<13	U		9			<9.2	U		<5.4	U		<3	U				<4.1	U		<4.3	U		
VMP-6-5-020711			2/7/2011	0.014			0.0033	J		<0.008	U		<0.0046	U		<0.0026	U				0.0015	J		<0.0037	U			
VMP-6-5-040811			4/8/2011	0.055			2.4			<0.017	U		<0.01	U		<0.0057	U		0.083		<0.03	U		0.0098	J			
VMP-6-5-080411			8/4/2011	<0.64	U		0.74			<0.45	U		<0.26	U		<0.15	U		160		<0.79	U		<0.21	U			
10 ft		VMP-6-10	11/6/2009	<4.1	U		6.4			<2.9	U		<1.7	U		<0.95	U				<1.3	U		<1.3	U			
		VMP-6-10-090810	9/8/2010	<2.3	U		2.9		J	<1.6	U		<0.92	U		<0.53	U				<0.7	U		<0.74	U			
		VMP-6-10-111710	11/17/2010	0.012	J		0.0053			0.0025	J		<0.005	J	U	<0.0028	U				0.0022	J						

See last page of table for notes.

				TABLE 3 ANALYTICAL DETECTIONS AND SCREENING RESULTS																							
Location	Depth	Sample ID	Sample Date	Carbon tetrachloride			Chlorobenzene CUMULATIVE SUMMARY OF SOIL			VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS			Methane			alpha-Chlorotoluene			Cyclohexane								
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier						
VMP-4	5 ft	VMP-4-5	11/5/2009	<0.08	U		<0.058	U		<0.11	U		<0.033	U		<0.062	U		<0.1	U		<0.065	U		5.7		
		VMP-4-5-082510	8/25/2010	<0.45	U		<0.33	U		<0.61	U		<0.19	U		<0.35	U		<0.59	U		<0.37	U		40		
		VMP-4-5-112210	11/22/2010	<17	U		<12	U		<23	U		<7.1	U		<13	U		<22	U		<14	U		1200		
		VMP-4-5-021411	2/14/2011	<0.99	U		<0.72	U		<1.3	U		<0.42	U		<0.77	U		<1.3	U		<0.82	U		120		
		VMP-4-5-041911	4/19/2011	<46	U		<33	U		<62	U		<76	U		<35	U		<60	U		<38	U		770		
	12 ft	VMP-4-5-080311	8/3/2011	<0.098	U		0.02	J		<0.13	U		<0.16	U		<0.076	U		<0.13	U		<0.08	U		0.2		
		VMP-4-12	11/5/2009	<1.3	U		<0.97	U		<1.8	U		<0.56	U		<1	U		<1.7	U		<1.1	U		170		
		VMP-4-12-082510	8/25/2010	<7.9	U		<5.8	U		<11	U		<3.3	U		<6.2	U		<10	U		<6.5	U		880		
		VMP-4-12-112310	11/23/2010	<8.1	U		<5.9	U		<11	U		<3.4	U		<6.3	U		<11	U		<6.7	U		760		
		VMP-4-12-021411	2/14/2011	<2	U		<1.5	U		<2.8	U		<0.85	U		<1.6	U		<2.7	U		<1.7	U		280		
		VMP-4-12-041911	4/19/2011	<39	U		<29	U		<53	U		<66	U		<30	U		<52	U		<32	U		860		
	23.5 ft	VMP-4-12-080311	8/3/2011	<4.5	U		<3.3	U		<6.1	U		<7.6	U		<3.5	U		<5.9	U		<3.7	U		230		
		VMP-4-12-080311-Dup	8/3/2011	<9.1	U		<6.6	U		<12	U		<15	U		<7	U		<12	U		<7.5	U		210		
		VMP-4-23.5	11/5/2009	<61	U		<45	U		<83	U		<26	U		<47	U		<80	U		<50	U		2500		
		VMP-4-23.5-083110	8/31/2010	<9.1	U		<6.6	U		<12	U		<3.8	U		<7	U		<12	U		<7.5	U		3000		J
		VMP-4-23.5-112310	11/23/2010	<92	U		<67	U		<120	U		<38	U		<71	U		<120	U		<75	U		2900		
		VMP-4-23.5-021411	2/14/2011	<3.3	U		<2.4	U		<4.5	U		<1.4	U		<2.6	U		<4.4	U		<2.7	U		1700		J
	39 ft	VMP-4-23.5-042011	4/20/2011	<210	U		<160	U		<290	U		<360	U		<160	U		<280	U		<170	U		2600		
		VMP-4-23.5-042011-Dup	4/20/2011	<210	U		<160	U		<290	U		<360	U		<160	U		<280	U		<170	U		2400		
		VMP-4-23.5-080611	8/6/2011	<8.8	U		<6.5	U		<12	U		<15	U		<6.9	U		<12	U		<7.3	U		1900		
		VMP-4-39	11/5/2009	<47	U		<34	U		<63	U		<20	U		<36	U		<62	U		<38	U		2400		
		VMP-4-39-042111	4/21/2011	<260	U		<190	U		<360	U		<440	U		<200	U		<350	U		<220	U		2400		
VMP-5	5 ft	VMP-5-5	11/5/2009	<1.4	U		<1	U		<1.9	U		<0.59	U		<1.1	U		<1.8	U		<1.2	U		78		
		VMP-5-5-090910	9/9/2010	<17	U		<12	U		<22	U		<7	U		<13	U		<22	U		<14	U		400		
		VMP-5-5-112210	11/22/2010	<4	U		<3	U		<5.5	U		<1.7	U		<3.1	U		<5.3	U		<3.3	U		450		
		VMP-5-5-021611	2/16/2011	<0.026	U		<0.019	U		<0.035	U		<0.011	U		<0.02	U		<0.034	U		<0.021	U		4.4		
		VMP-5-5-042111	4/21/2011	<0.083	U		<0.061	U		<0.11	U		<0.14	U		<0.064	U		<0.11	U		<0.068	U		0.033	J	
	12.5 ft	VMP-5-5-080511	8/5/2011	<0.0079	U		<0.0058	U		<0.011	U		<0.013	U		0.0015	J		<0.01	U		<0.0065	U		0.035		
		VMP-5-12.5	11/6/2009	<1.6	U		<1.2	U		<2.2	U		<0.68	U		<1.2	U		<2.1	U		<1.3	U		240		
		VMP-5-12.5-D	11/6/2009	<3.6	U		<2.7	U		<4.9	U		<1.5	U		<2.8	U		<4.8	U		<3	U		240		
		VMP-5-12.5-090910	9/9/2010	<8.3	U		<6.1	U		<11	U		<3.5	U		<6.4	U		<11	U		<6.8	U		360		
		VMP-5-12.5-112310	11/23/2010	<0.42	U		<0.3	U		<0.56	U		<0.17	U		<0.32	U		<0.54	U		<0.34	U		14		
		VMP-5-12.5-021611	2/16/2011	<1.2	U		<0.91	U		<1.7	U		<0.52	U		<0.97	U		<1.6	U		<1	U		36		
		VMP-5-12.5-042111	4/21/2011	<0.089	U		<0.065	U		<0.12	U		<0.15	U		<0.069	U		<0.12	U		<0.073	U		0.023	J	
		VMP-5-12.5-080611	8/6/2011	<7.8	U		<5.7	U		<10	U		<13	U		<6	U		<10	U		<6.4	U		180		
	31 ft	VMP-5-31	11/6/2009	<15	U		<11	U		<20	U		<6.3	U		<12	U		<20	U		<12	U		1600		
		VMP-5-31-090910	9/9/2010	<35	U		<25	U		<47	U		<14	U		<27	U		<45	U		<28	U		1600		
		VMP-5-31-112310	11/23/2010	<22	U		<16	U		<29	U		<9.1	U		<17	U		<28	U		<18	U		2200		
		VMP-5-31-021611	2/16/2011	<8.7	U		<6.4	U		<12	U		<3.6	U		<6.7	U		<11	U		<7.1	U		1300		
		VMP-5-31-042111	4/21/2011	<130	U		<95	U		<180	U		<220	U		<100	U		<170	U		<110	U		1600		
VMP-5-31-080611		8/6/2011	<73	U		<53	U		<99	U		<120	U		<57	U		<96	U		<60	U		1400			
40 ft	VMP-5-40	11/6/2009	<21	U		<15	U		<28	U		<8.6	U		<16	U		<27	U		<17	U		1400			
	VMP-5-40-042111	4/21/2011	<140	U		<99	U		<180	U		<230	U		<100	U		<180	U		<110	U		1400			
VMP-6	5 ft	VMP-6-5	11/6/2009	<2.5	U		<1.8	U		<3.4	U		<1	U		<1.9	U		<3.3	U		<2	U		380		J
		VMP-6-5-090810	9/8/2010	<1.4	U		<1	U		<1.9	U		<0.58	U		<1.1	U		<1.8	U		<1.1	U		76		
		VMP-6-5-111610	11/16/2010	<8.7	U		<6.4	U		<12	U		<3.6	U		<6.7	U		<11	U		<7.1	U		600		
		VMP-6-5-020711	2/7/2011	<0.0075	U		<0.0055	U		<0.01	U		<0.0031	U		<0.0058	U		<0.0098	U		<0.0062	U		0.013		
		VMP-6-5-040811	4/8/2011	<0.016	U		<0.012	U		<0.022	U		<0.027	U		<0.013	U		<0.021	U		<0.013	U		0.099		
	10 ft	VMP-6-5-080411	8/4/2011	<0.42	U		<0.31	U		<0.57	U		<0.71	U		<0.33	U		<0.55	U		<0.35	U		5.1		
		VMP-6-10	11/6/2009	<2.7	U		<2																				

See last page of table for notes.

TABLE 3																								
RELATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS																								
Location	Depth	Sample ID	Sample Date	1,2-Dibromoethane			1,2-Dichlorobenzene			Cumulative			Village - VOGS			1,1-Dichloroethane			cis-1,2-Dichloroethene					
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier			
VMP-4	5 ft	VMP-4-5	11/5/2009	<0.097	U		<0.076	U		<0.076	U		<0.076	U		<0.051	U		<0.051	U		<0.05	U	
		VMP-4-5-082510	8/25/2010	<0.55	U		<0.43	U		<0.43	U		<0.43	U		<0.29	U		<0.29	U		<0.28	U	
		VMP-4-5-112210	11/22/2010	<21	U		<16	U		<16	U		<16	U		<11	U		<11	U		<11	U	
		VMP-4-5-021411	2/14/2011	<1.2	U		<0.95	U		<0.95	U		<0.95	U		<0.64	U		<0.64	U		<0.62	U	
		VMP-4-5-041911	4/19/2011	<56	U		<44	U		<44	U		<44	U		<29	U		<29	U		<29	U	
		VMP-4-5-080311	8/3/2011	<0.12	U		<0.093	U		<0.093	U		<0.093	U		<0.063	U		<0.063	U		<0.062	U	
	12 ft	VMP-4-12	11/5/2009	<1.6	U		<1.3	U		<1.3	U		<1.3	U		<0.85	U		<0.85	U		<0.84	U	
		VMP-4-12-082510	8/25/2010	<9.7	U		<7.6	U		<7.6	U		<7.6	U		<5.1	U		<5.1	U		<5	U	
		VMP-4-12-112310	11/23/2010	<9.9	U		<7.8	U		<7.8	U		<7.8	U		<5.2	U		<5.2	U		<5.1	U	
		VMP-4-12-021411	2/14/2011	<2.5	U		<1.9	U		<1.9	U		<1.9	U		<1.3	U		<1.3	U		<1.3	U	
		VMP-4-12-041911	4/19/2011	<48	U		<38	U		<38	U		<38	U		<25	U		<25	U		<25	U	
		VMP-4-12-080311	8/3/2011	<5.5	U		<4.3	U		<4.3	U		<4.3	U		<2.9	U		<2.9	U		<2.8	U	
	23.5 ft	VMP-4-12-080311-Dup	8/3/2011	<11	U		<8.7	U		<8.7	U		<8.7	U		<5.8	U		<5.8	U		<5.7	U	
		VMP-4-23.5	11/5/2009	<74	U		<58	U		<58	U		<58	U		<39	U		<39	U		<38	U	
		VMP-4-23.5-083110	8/31/2010	<11	U		<8.7	U		<8.7	U		<8.7	U		<5.8	U		<5.8	U		<5.7	U	
		VMP-4-23.5-112310	11/23/2010	<110	U		<87	U		<87	U		<87	U		<59	U		<59	U		<58	U	
		VMP-4-23.5-021411	2/14/2011	<4.1	U		<3.2	U		<3.2	U		<3.2	U		<2.1	U		<2.1	U		<2.1	U	
		VMP-4-23.5-042011	4/20/2011	<260	U		<200	U		<200	U		<200	U		<140	U		<140	U		<130	U	
	39 ft	VMP-4-23.5-042011-Dup	4/20/2011	<260	U		<200	U		<200	U		<200	U		<140	U		<140	U		<130	U	
		VMP-4-23.5-080611	8/6/2011	<11	U		<8.4	U		<8.4	U		<8.4	U		<5.7	U		<5.7	U		<5.6	U	
		VMP-4-39	11/5/2009	<57	U		<45	U		<45	U		<45	U		<30	U		<30	U		<30	U	
		VMP-4-39-042111	4/21/2011	<320	U		<250	U		<250	U		<250	U		<170	U		<170	U		<170	U	
		VMP-5-5	11/5/2009	<1.7	U		<1.3	U		<1.3	U		<1.3	U		<0.91	U		<0.91	U		<0.89	U	
		VMP-5-5-090910	9/9/2010	<20	U		<16	U		<16	U		<16	U		<11	U		<11	U		<10	U	
VMP-5	5 ft	VMP-5-5-112210	11/22/2010	<5	U		<3.9	U		<3.9	U		<3.9	U		<2.6	U		<2.6	U		<2.6	U	
		VMP-5-5-021611	2/16/2011	<0.032	U		<0.025	U		<0.025	U		<0.025	U		<0.017	U		<0.017	U		<0.016	U	
		VMP-5-5-042111	4/21/2011	<0.1	U		<0.079	U		<0.079	U		<0.079	U		<0.053	U		<0.053	U		<0.052	U	
		VMP-5-5-080511	8/5/2011	<0.0097	U		<0.0076	U		<0.0076	U		<0.0076	U		<0.0051	U		<0.0051	U		<0.005	U	
		VMP-5-12.5	11/6/2009	<2	U		<1.6	U		<1.6	U		<1.6	U		<1	U		<1	U		<1	U	
		VMP-5-12.5-D	11/6/2009	<4.4	U		<3.5	U		<3.5	U		<3.5	U		<2.3	U		<2.3	U		<2.3	U	
	12.5 ft	VMP-5-12.5-090910	9/9/2010	<10	U		<7.9	U		<7.9	U		<7.9	U		<5.3	U		<5.3	U		<5.2	U	
		VMP-5-12.5-112310	11/23/2010	<0.51	U		<0.4	U		<0.4	U		<0.4	U		<0.27	U		<0.27	U		<0.26	U	
		VMP-5-12.5-021611	2/16/2011	<1.5	U		<1.2	U		<1.2	U		<1.2	U		<0.8	U		<0.8	U		<0.79	U	
		VMP-5-12.5-042111	4/21/2011	<0.11	U		<0.085	U		<0.085	U		<0.085	U		<0.057	U		<0.057	U		<0.056	U	
		VMP-5-12.5-080611	8/6/2011	<9.5	U		<7.4	U		<7.4	U		<7.4	U		<5	U		<5	U		<4.9	U	
		VMP-5-31	11/6/2009	<18	U		<14	U		<14	U		<14	U		<9.6	U		<9.6	U		<9.4	U	
	31 ft	VMP-5-31-090910	9/9/2010	<42	U		<33	U		<33	U		<33	U		<22	U		<22	U		<22	U	
		VMP-5-31-112310	11/23/2010	<26	U		<21	U		<21	U		<21	U		<14	U		<14	U		<14	U	
		VMP-5-31-021611	2/16/2011	<11	U		<8.3	U		<8.3	U		<8.3	U		<5.6	U		<5.6	U		<5.5	U	
		VMP-5-31-042111	4/21/2011	<160	U		<120	U		<120	U		<120	U		<83	U		<83	U		<82	U	
		VMP-5-31-080611	8/6/2011	<89	U		<70	U		<70	U		<70	U		<47	U		<47	U		<46	U	
		VMP-5-40	11/6/2009	<25	U		<20	U		<20	U		<20	U		<13	U		<13	U		<13	U	
	40 ft	VMP-5-40-042111	4/21/2011	<160	U		<130	U		<130	U		<130	U		<87	U		<87	U		<85	U	
		VMP-6-5	11/6/2009	<3	U		<2.4	U		<2.4	U		<2.4	U		<1.6	U		<1.6	U		<1.6	U	
VMP-6	5 ft	VMP-6-5-090810	9/8/2010	<1.7	U		<1.3	U		<1.3	U		<1.3	U		<0.89	U		<0.89	U		<0.87	U	
		VMP-6-5-111610	11/16/2010	<11	U		<8.3	U		<8.3	U		<8.3	U		<5.6	U		<5.6	U		<5.5	U	
		VMP-6-5-020711	2/7/2011	<0.0091	U		<0.0072	J	U	<0.0072	J	U	<0.0072	J	U	<0.0048	U		<0.0048	U		<0.0047	U	
		VMP-6-5-040811	4/8/2011	<0.02	U		<0.016	U		<0.016	J	U	<0.016	J	U	<0.01	U		<0.01	U		<0.01	U	
		VMP-6-5-080411	8/4/2011	<0.51	U		<0.4	U		<0.4	U		<0.4	U		<0.27	U		<0.27	U		<0.26	U	
		VMP-6-10	11/6/2009	<3.3	U		<2.6	U		<2.6	U		<2.6	U		<1.7	U		<1.7	U		<1.7	U	
	10 ft	VMP-6-10-090810	9/8/2010	<1.8	U		<1.4	U		<1.4	U		<1.4	U		<0.96	U		<0.96	U		<0.94	U	
		VMP-6-10-111710	11/17/2010	<0.0099	U		<0.0078	U		<0.0078	U		<0.0078	U		<0.0052	U		<0.0052	U		<0.0051	U	
		VMP-6-10-020711	2/7/2011	<0.0097	U		<0.0076	J	U	<0.0076	J	U	<0.0076	J	U	<0.0051	U		<0.0051	U		<0.005	U	
		VMP-6-10-040811	4/8/2011	<0.23	U		<0.18	U		<0														

See last page of table for notes.

TABLE 3																											
CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS																											
Location	Depth	Sample ID	Sample Date	Dichlorodifluoromethane			Dichloromethane (Methylene chloride)			1,1,1-Trichloroethane			Vapor Analytical			Ethylbenzene			4-Ethyltoluene								
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier						
VMP-4	5 ft	VMP-4-5	11/5/2009	<0.062	U		<0.044	U		<0.058	U		<0.057	U		<0.18	U		<0.095	U		<0.055	U		<0.062	U	
		VMP-4-5-082510	8/25/2010	<0.36	U		<0.25	U		<0.33	U		<0.33	U		<1	U		<0.54	U		<0.31	U		0.061	J	
		VMP-4-5-112210	11/22/2010	<13	U		<9.3	U		<12	U		<12	U		<39	U		<20	U		21			6.2	J	
		VMP-4-5-021411	2/14/2011	<0.78	U		<0.55	U		<0.73	U		<0.71	U		<2.3	U		<1.2	U		<0.68	U		<0.77	U	
		VMP-4-5-041911	4/19/2011	<36	U		<25	U		<34	U		<33	U		<100	U		<55	U		<31	U		<36	U	
	12 ft	VMP-4-5-080311	8/3/2011	<0.077	U		<0.054	U		<0.072	U		<0.07	U		<0.22	U		0.22			<0.068	U		<0.076	U	
		VMP-4-12	11/5/2009	<1	U		<0.73	U		<0.98	U		<0.96	U		<3	U		<1.6	U		<0.92	U		1.2		
		VMP-4-12-082510	8/25/2010	<6.2	U		<4.4	U		<5.8	U		<5.7	U		<18	U		<9.5	U		7.8			3.6	J	
		VMP-4-12-112310	11/23/2010	<6.4	U		<4.5	U		<6	U		<5.8	U		<18	U		<9.7	U		1.7	J		4.7	J	
		VMP-4-12-021411	2/14/2011	<1.6	U		<1.1	U		<1.5	U		<1.5	U		<4.7	U		<2.4	U		<1.4	U		0.97	J	
		VMP-4-12-041911	4/19/2011	<31	U		<22	U		<29	U		<28	U		<90	U		<47	U		33			11	J	
		VMP-4-12-080311	8/3/2011	<3.6	U		<2.5	U		<3.3	U		<3.3	U		<10	U		<5.4	U		<3.1	U		<3.5	U	
	23.5 ft	VMP-4-12-080311-Dup	8/3/2011	<7.1	U		<5	U		<6.7	U		<6.6	U		<21	U		<11	U		<6.3	U		<7.1	U	
		VMP-4-23.5	11/5/2009	<48	U		<34	U		<45	U		<44	U		<140	U		<73	U		720			110		
		VMP-4-23.5-083110	8/31/2010	<7.1	U		<5	U		<6.7	U		<6.6	U		<21	U		<11	U		960		J	230		J
		VMP-4-23.5-112310	11/23/2010	<72	U		<50	U		<67	U		<66	U		<210	U		<110	U		630			58	J	
		VMP-4-23.5-021411	2/14/2011	<2.6	U		<1.8	U		<2.4	U		<2.4	U		<7.6	U		<4	U		93		J	1.2	J	J
		VMP-4-23.5-042011	4/20/2011	<170	U		<120	U		<160	U		<150	U		<480	U		65	J		530			69	J	
		VMP-4-23.5-042011-Dup	4/20/2011	<170	U		53	J		<160	U		<150	U		<480	U		<250	U		490			69	J	
	39 ft	VMP-4-23.5-080611	8/6/2011	<6.9	U		<4.9	U		<6.5	U		<6.4	U		<20	U		<10	U		180			21		
		VMP-4-39	11/5/2009	<37	U		<26	U		<34	U		<34	U		<110	U		<56	U		620			120		
		VMP-4-39-042111	4/21/2011	<210	U		<140	U		<190	U		<190	U		<600	U		<320	U		420			51	J	
VMP-5	5 ft	VMP-5-5	11/5/2009	<1.1	U		<0.78	U		<1	U		<1	U		<3.2	U		<1.7	U		<0.97	U		<1.1	U	
		VMP-5-5-090910	9/9/2010	<13	U		<9.2	U		<12	U		<12	U		<38	U		<20	U		<11	U		20		
		VMP-5-5-112210	11/22/2010	<3.2	U		<2.2	U		<3	U		<2.9	U		<9.3	U		<4.9	U		<2.8	U		<3.2	U	
		VMP-5-5-021611	2/16/2011	<0.02	U		<0.014	U		<0.019	U		<0.019	U		<0.059	U		<0.031	U		0.0041	J	J	<0.02	U	
		VMP-5-5-042111	4/21/2011	<0.065	U		<0.046	U		<0.061	U		<0.06	U		<0.19	U		<0.099	U		<0.057	U		<0.065	U	
		VMP-5-5-080511	8/5/2011	0.0024	J		0.0075			<0.0058	U		<0.0057	U		<0.018	U		0.073			0.0032	J		0.0022	J	
	12.5 ft	VMP-5-12.5	11/6/2009	<1.3	U		<0.9	U		<1.2	U		<1.2	U		<3.7	U		<1.9	U		<1.1	U		<1.3	U	
		VMP-5-12.5-D	11/6/2009	<2.9	U		<2	U		<2.7	U		<2.6	U		<8.4	U		<4.4	U		<2.5	U		<2.8	U	
		VMP-5-12.5-090910	9/9/2010	<6.5	U		<4.6	U		<6.1	U		<6	U		<19	U		<9.9	U		<5.7	U		9.2		
		VMP-5-12.5-112310	11/23/2010	<0.33	U		<0.23	U		<0.3	U		<0.3	U		<0.95	U		<0.5	U		0.1	J		<0.32	U	
		VMP-5-12.5-021611	2/16/2011	<0.98	U		<0.69	U		<0.92	U		<0.9	U		<2.9	U		<1.5	U		<0.86	U		<0.98	U	
		VMP-5-12.5-042111	4/21/2011	<0.07	U		<0.049	U		<0.065	U		<0.064	U		<0.2	U		<0.11	U		<0.061	U		<0.069	U	
		VMP-5-12.5-080611	8/6/2011	<6.1	U		<4.3	U		<5.7	U		<5.6	U		<18	U		<9.3	U		<5.4	U		<6.1	U	
		VMP-5-31	11/6/2009	<12	U		<8.3	U		<11	U		<11	U		<34	U		<18	U		<10	U		<12	U	
	31 ft	VMP-5-31-090910	9/9/2010	<27	U		<19	U		<25	U		<25	U		<79	U		<41	U		<24	U		<27	U	
		VMP-5-31-112310	11/23/2010	<17	U		<12	U		<16	U		<16	U		<50	U		<26	U		<15	U		<17	U	
		VMP-5-31-021611	2/16/2011	<6.8	U		<4.8	U		<6.4	U		<6.3	U		<20	U		<10	U		<6	U		<6.8	U	
		VMP-5-31-042111	4/21/2011	<100	U		<72	U		<95	U		<93	U		<300	U		<160	U		<89	U		<100	U	
		VMP-5-31-080611	8/6/2011	<57	U		<40	U		<54	U		<53	U		<170	U		<87	U		<50	U		<57	U	
		VMP-5-40	11/6/2009	<16	U		<11	U		<15	U		<15	U		<47	U		<25	U		<14	U		<16	U	
	40 ft	VMP-5-40-042111	4/21/2011	<110	U		<75	U		<100	U		<98	U		<310	U		<160	U		<94	U		<100	U	
		VMP-6	VMP-6-5	11/6/2009	<2	U		<1.4	U		<1.8	U		<1.8	U		<5.7	U		<3	U		6.5		J	<1.9	U
VMP-6-5-090810	9/8/2010		<1.1	U		<0.76	U		<1	U		<1	U		<3.2	U		<1.6	U		<0.96	U		1	J		
VMP-6-5-111610	11/16/2010		<6.8	U		<4.8	U		<6.4	U		<6.3	U		<20	U		<10	U		5.5	J		<6.8	U		
VMP-6-5-020711	2/7/2011		0.0025	J		<0.0041	U		<0.0055	U		<0.0054	U		<0.017	U		0.0051	J		0.013			0.0071			
VMP-6-5-040811	4/8/2011		0.0029	J		0.0043	J		<0.012	U		<0.012	U		<0.037	U		0.02			<0.011	U		<0.013	U		
VMP-6-5-080411	8/4/2011		<0.33	U		<0.23	U		<0.31	U		<0.3	U		<0.96	U		<0.5									

See last page of table for notes.

		TABLE 3 ANALYTICAL DETECTIONS AND SCREENING RESULTS																									
Location	Depth	Sample ID	Sample Date	Freon 113			Heptane			CUMULATIVE SUMMARY OF SOIL			VAPOR ANALYSIS - VOCS			2-Hexanone (Methyl N-Butyl Ketone)			Pentane			Isopropylbenzene (Cumene)			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier
VMP-4	5 ft	VMP-4-5	11/5/2009	<0.097	U		<0.052	U		<0.54	U		0.54			<0.21	U					<0.062	U		<0.052	U	
		VMP-4-5-082510	8/25/2010	<0.55	U		1.7			<3.1	U		13			<1.2	U					0.048	J		<0.29	U	
		VMP-4-5-112210	11/22/2010	<21	U		580			<110	U		1300			<44	U					6.6	J		<11	U	
		VMP-4-5-021411	2/14/2011	<1.2	U		30			<6.7	U		88			<2.6	U					<0.77	U		<0.64	U	
		VMP-4-5-041911	4/19/2011	<56	U		380			<310	U		1200			<120	U		11000			<36	U		<30	U	
	12 ft	VMP-4-5-080311	8/3/2011	<0.12	U		0.054	J		<0.66	U		0.6			0.0083	J		19	E	J	0.072	J		<0.064	U	
		VMP-4-12	11/5/2009	<1.6	U		35			<9	U		130			<3.4	U					<1	U		<0.86	U	
		VMP-4-12-082510	8/25/2010	<9.6	U		420			<54	U		1200			<21	U					3.6	J		<5.2	U	
		VMP-4-12-112310	11/23/2010	<9.9	U		240			<55	U		690			<21	U					<6.3	U		<5.3	U	
		VMP-4-12-021411	2/14/2011	<2.5	U		24			<14	U		160			<5.3	U					<1.6	U		<1.3	U	
		VMP-4-12-041911	4/19/2011	<48	U		480			<270	U		1300			<100	U		11000			<31	U		<26	U	
		VMP-4-12-080311	8/3/2011	<5.5	U		41			<31	U		170			<12	U		3100			<3.5	U		<2.9	U	
	23.5 ft	VMP-4-12-080311-Dup	8/3/2011	<11	U		36			<62	U		150			<24	U		3400			<7.1	U		<5.9	U	
		VMP-4-23.5	11/5/2009	<74	U		3600			<410	U		14000			<160	U					<48	U		<40	U	
		VMP-4-23.5-083110	8/31/2010	<11	U		4100		J	<62	U		13000		J	<24	U					38		J	<5.9	U	
		VMP-4-23.5-112310	11/23/2010	<110	U		3900			<620	U		15000			<240	U					<72	U		<60	U	
		VMP-4-23.5-021411	2/14/2011	<4.1	U		1700		J	<23	U		12000			<8.7	U					<2.6	U		<2.2	U	
		VMP-4-23.5-042011	4/20/2011	<260	U		2900			<1400	U		13000			<1400	U		81000			<160	U		<1400	U	
		VMP-4-23.5-042011-Dup	4/20/2011	<260	U		2800			<1400	U		13000			<1400	U		78000			<160	U		<1400	U	
	39 ft	VMP-4-23.5-080611	8/6/2011	<11	U		2200			<60	U		11000			<23	U		69000			6.6	J		<5.8	U	
		VMP-4-39	11/5/2009	<57	U		3500			<320	U		14000			<120	U					<37	U		<30	U	
	VMP-4-39-042111	4/21/2011	<320	U		2700			<1800	U		13000			<1700	U		77000			<210	U		<1700	U		
VMP-5	5 ft	VMP-5-5	11/5/2009	<1.7	U		9.1			<9.6	U		170			<3.7	U					<1.1	U		<0.92	U	
		VMP-5-5-090910	9/9/2010	<20	U		140			<110	U		1500			<43	U					<13	U		<11	U	
		VMP-5-5-112210	11/22/2010	<4.9	U		120			<28	U		1400			<10	U					<3.2	U		<2.6	U	
		VMP-5-5-021611	2/16/2011	<0.032	U		<0.017	U		<0.18	U		<0.014	U		<0.067	U					<0.02	U		<0.017	U	
		VMP-5-5-042111	4/21/2011	<0.1	U		<0.054	U		<0.56	U		0.035	J		<0.54	U		0.25			<0.065	U		<0.54	U	
		VMP-5-5-080511	8/5/2011	<0.0096	U		0.047			<0.054	U		0.083			<0.021	U		0.32			0.01			0.072		
	12.5 ft	VMP-5-12.5	11/6/2009	<2	U		46			<11	U		650			<4.2	U					<1.3	U		<1	U	
		VMP-5-12.5-D	11/6/2009	<4.4	U		47			<25	U		640			<9.5	U					<2.8	U		<2.4	U	
		VMP-5-12.5-090910	9/9/2010	<10	U		120			<56	U		1300			<22	U					<6.5	U		<5.4	U	
		VMP-5-12.5-112310	11/23/2010	<0.5	U		<0.27	U		<2.8	U		15			<1.1	U					<0.32	U		<0.27	U	
		VMP-5-12.5-021611	2/16/2011	<1.5	U		5.8			<8.5	U		110			<3.2	U					<0.98	U		<0.81	U	
		VMP-5-12.5-042111	4/21/2011	<0.11	U		<0.058	U		<0.6	U		0.03	J		<0.58	U		0.2			<0.069	U		<0.58	U	
	31 ft	VMP-5-12.5-080611	8/6/2011	<9.5	U		27			<53	U		340			<20	U		10000			<6.1	U		<5.1	U	
		VMP-5-31	11/6/2009	<18	U		910			<100	U		4900			<39	U					<12	U		<9.7	U	
		VMP-5-31-090910	9/9/2010	<42	U		1300			<230	U		7700			<90	U					<27	U		<22	U	
		VMP-5-31-112310	11/23/2010	<26	U		1700			<150	U		8200			<57	U					<17	U		<14	U	
VMP-5-31-021611		2/16/2011	<10	U		950			<59	U		5600			<23	U					<6.8	U		<5.6	U		
VMP-5-31-042111		4/21/2011	<160	U		900			<880	U		6200			<840	U		44000			<100	U		<840	U		
40 ft	VMP-5-31-080611	8/6/2011	<89	U		780			<490	U		5800			<190	U		43000			<57	U		<48	U		
	VMP-5-40	11/6/2009	<25	U		810			<140	U		4400			<54	U					<16	U		<13	U		
	VMP-5-40-042111	4/21/2011	<160	U		730			<920	U		4900			<880	U		35000			<100	U		<880	U		
	VMP-6	5 ft	VMP-6-5	11/6/2009	<3	U		380		J	<17	U		720		J	<6.5	U					2.7		J	<1.6	U
VMP-6-5-090810			9/8/2010	<1.7	U		43			<9.4	U		130			<3.6	U					<1.1	U		<0.9	U	
VMP-6-5-111610			11/16/2010	<10	U		600			<59	U		1100			<23	U					4.2	J		<5.6	U	
VMP-6-5-020711			2/7/2011	<0.0091	U		0.03			<0.051	U		0.022			<0.019	U					0.0024	J		<0.0049	U	
VMP-6-5-040811			4/8/2011	<0.02	U		<0.011	U		<0.11	U		<0.0091	U		<0.042	U		0.44			<0.013	U		<0.011	U	
10 ft		VMP-6-5-080411	8/4/2011	<0.51	U		3.7			<2.8	U		32			<1.1	U		250			<0.33	U		<0.27	U	
		VMP-6-10	11/6/2009	<3.3	U		480			<18	U		900			<7	U					3.6			<1.8	U	
		VMP-6-10-090810	9/8/2010	<1.8	U		160		J	<10	U		400		J	<3.9	U					0.54	J	J	<0.97	U	
		VMP-6-10-111710	11/17/2010	<0.0099	U		0.004																				

See last page of table for notes.

		TABLE 3																										
Location	Depth	Sample ID	Sample Date	Methyl tert-Butyl Ether (MTBE)			2-Propanol			CUMULATIVE SUMMARY OF SOIL ANALYTICAL DETECTIONS AND SCREENING RESULTS			VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS			1,1-Dichloroethene			Hydrofuran			Toluene			1,2,4-Trichlorobenzene			
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	
VMP-4	5 ft	VMP-4-5	11/5/2009	<0.046	U		<0.12	U		<0.062	U		<0.054	U		<0.086	U		<0.037	U		<0.048	U		<0.38	U	UJ	
		VMP-4-5-082510	8/25/2010	<0.26	U		<0.71	U		0.058	J		<0.31	U		<0.49	U		<0.21	U		<0.27	U		<2.1	U		
		VMP-4-5-112210	11/22/2010	<9.7	U		<26	U		8.4	J		<11	U		<18	U		<7.9	U		2.8	J		<80	U		
		VMP-4-5-021411	2/14/2011	<0.57	U		<1.5	U		<0.77	U		<0.67	U		<1.1	U		<0.46	U		0.49	J		<4.7	U		
		VMP-4-5-041911	4/19/2011	<26	U		<71	UJ	UJ	<36	U		<31	U		<49	U		<21	U		<27	U		<220	U		
		VMP-4-5-080311	8/3/2011	<0.056	U		0.044	J		<0.076	U		<0.066	U		<0.1	U		<0.046	U		0.03	J		<0.46	U		
	12 ft	VMP-4-12	11/5/2009	<0.76	U		<2.1	U		<1	U		<0.9	U		<1.4	U		<0.62	U		<0.8	U		<6.3	U	UJ	
		VMP-4-12-082510	8/25/2010	<4.5	U		<12	U		4.2	J		<5.4	U		<8.5	U		<3.7	U		<4.7	U		<37	U		
		VMP-4-12-112310	11/23/2010	<4.6	U		<13	U		<6.3	U		<5.5	U		<8.8	U		<3.8	U		<4.9	U		<38	U		
		VMP-4-12-021411	2/14/2011	<1.2	U		<3.2	U		<1.6	U		<1.4	U		<2.2	U		<0.96	U		1.1	J		<9.6	U		
		VMP-4-12-041911	4/19/2011	<22	U		<61	UJ	UJ	<31	U		<27	U		<42	U		<18	U		20	J		<180	U		
		VMP-4-12-080311	8/3/2011	<2.6	U		<7.1	U		<3.5	U		<3.1	U		<4.9	U		<2.1	U		<2.7	U		<21	U		
	23.5 ft	VMP-4-12-080311-Dup	8/3/2011	<5.2	U		<14	U		<7.1	U		<6.2	U		<9.8	U		<4.3	U		<5.4	U		<43	U		
		VMP-4-23.5	11/5/2009	<35	U		<95	U		<48	U		<41	U		<66	U		<29	U		1400			<290	U		
		VMP-4-23.5-083110	8/31/2010	<5.2	U		<14	U		69		J	<6.2	U		<9.8	U		<4.3	U		2000		J	<43	U		
		VMP-4-23.5-112310	11/23/2010	<52	U		<140	U		22	J		<62	U		<99	U		<43	U		1600			<430	U		
		VMP-4-23.5-021411	2/14/2011	<1.9	U		<5.2	U		<2.6	U		<2.2	U		<3.6	U		<1.6	U		600		J	<16	U		
		VMP-4-23.5-042011	4/20/2011	<120	U		<330	U		<160	U		<1400	U		<230	U		<99	U		820			<1000	U		
	39 ft	VMP-4-23.5-042011-Dup	4/20/2011	<120	U		<330	U		<160	U		<1400	U		<230	U		<99	U		790			<1000	U		
		VMP-4-23.5-080611	8/6/2011	<5.1	U		<14	U		7.6			<6	U		<9.5	U		<4.1	U		390			<42	U		
		VMP-4-39	11/5/2009	<27	U		<73	U		39			<32	U		<50	U		<22	U		420			<220	U		
		VMP-4-39-042111	4/21/2011	<150	U		<410	U		<210	U		<1800	U		<280	U		<120	U		440			<1200	U		
VMP-5	5 ft	VMP-5-5	11/5/2009	<0.81	U		<2.2	U		<1.1	U		<0.95	U		<1.5	U		<0.66	U		<0.84	U		<6.6	U	UJ	
		VMP-5-5-090910	9/9/2010	<9.5	U		<26	U		4.8	J		<11	U		<18	U		<7.8	U		<9.9	U		<78	U		
		VMP-5-5-112210	11/22/2010	<2.3	U		<6.3	U		<3.2	U		<2.7	U		<4.4	U		<1.9	U		<2.4	U		<19	U		
		VMP-5-5-021611	2/16/2011	<0.015	U		0.3		J	<0.02	U		<0.018	U		<0.028	U		<0.012	U		0.0078	J	J	<0.12	U		
		VMP-5-5-042111	4/21/2011	<0.048	U		<0.13	U		<0.065	U		<0.56	U		0.078	J		<0.039	U		<0.05	U		<0.39	U		
		VMP-5-5-080511	8/5/2011	<0.0045	U		0.07			0.00075	J		0.0024	J		0.0031	J		<0.0037	U		1.3			<0.037	U		
	12.5 ft	VMP-5-12.5	11/6/2009	<0.93	U		<2.5	U		<1.3	U		<1.1	U		<1.8	U		<0.76	U		<0.97	U		<7.6	U		
		VMP-5-12.5-D	11/6/2009	<2.1	U		<5.7	U		<2.8	U		<2.5	U		<3.9	U		<1.7	U		<2.2	U		<17	U		
		VMP-5-12.5-090910	9/9/2010	<4.8	U		<13	U		2.1	J		<5.6	U		<9	U		<3.9	U		<5	U		<39	U		
		VMP-5-12.5-112310	11/23/2010	<0.24	U		<0.65	U		<0.32	U		<0.28	U		<0.45	U		<0.19	U		0.5			<2	U		
		VMP-5-12.5-021611	2/16/2011	<0.72	U		<2	U		<0.98	U		<0.84	U		<1.3	U		<0.58	U		<0.75	U		<5.9	U		
		VMP-5-12.5-042111	4/21/2011	<0.051	U		<0.14	U		<0.069	U		<0.6	U		<0.096	U		<0.042	U		<0.053	U		<0.42	U		
	31 ft	VMP-5-12.5-080611	8/6/2011	<4.5	U		<12	U		<6.1	U		<5.3	U		<8.4	U		<3.6	U		1	J		<37	U		
		VMP-5-31	11/6/2009	<8.6	U		<23	U		<12	U		<10	U		<16	U		<7	U		<9	U		<71	U		
		VMP-5-31-090910	9/9/2010	<20	U		<54	U		<27	U		<23	U		<37	U		<16	U		4.3	J		<160	U		
		VMP-5-31-112310	11/23/2010	<12	U		<34	U		<17	U		<15	U		<23	U		<10	U		8.2	J		<100	U		
		VMP-5-31-021611	2/16/2011	<5	U		<14	U		<6.8	U		<5.9	U		<9.4	U		<4.1	U		2.5	J		<41	U		
		VMP-5-31-042111	4/21/2011	<74	U		<200	U		<100	U		<880	U		<140	U		<61	U		<78	U		<610	U		
40 ft	VMP-5-31-080611	8/6/2011	<42	U		34	J		<57	U		<49	U		<79	U		<34	U		<44	U		<340	U			
	VMP-5-40	11/6/2009	<12	U		<32	U		<16	U		<14	U		<22	U		<9.7	U		<12	U		<97	U			
	VMP-5-40-042111	4/21/2011	<78	U		<210	U		<100	U		<920	U		<150	U		<64	U		<81	U		<640	U			
	VMP-6	5 ft	VMP-6-5	11/6/2009	<1.4	U		<3.9	U		5.8		J	<1.7	U		<2.7	U		<1.2	U		<1.5	U		<12	U	
			VMP-6-5-090810	9/8/2010	<0.79	U		<2.2	U		<1.1	U		<0.94	U		<1.5	U		<0.65	U		<0.83	U		<6.5	U	
			VMP-6-5-111610	11/16/2010	<5	U		<14	U		7.7			<5.9	U		<9.4	U		<4.1	U		<5.2	U		<41	U	
VMP-6-5-020711			2/7/2011	<0.0043	U		0.027			0.0034	J		<0.0051	U		<0.0081	U		<0.0035	U		0.015			<0.035	J	U	
VMP-6-5-040811			4/8/2011	<0.0093	U		0.054			<0.013	U		<0.011	U		<0.018	U		<0.0076	U		0.0037	J		<0.077	U		
VMP-6-5-080411			8/4/2011	<0.24	U		<0.66																					

See last page of table for notes.

TABLE 3																														
Location	Depth	Sample ID	Sample Date	1,1,1-Trichloroethane (Methyl chloroform)			1,1,2-Trichloroethane			SUMMARY OF SOIL			VAPOR ANALYTICAL			DETECTIONS AND SCREENING RESULTS			Ethylbenzene			2,2,4-Trimethylpentane			m,p-Xylene			o-Xylenes		
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier
VMP-4	5 ft	VMP-4-5	11/5/2009	<0.069	U		<0.069	U		<0.068	U		<0.071	U		<0.062	U		<0.062	U		20			<0.055	U		<0.055	U	
		VMP-4-5-082510	8/25/2010	<0.39	U		<0.39	U		<0.39	U		<0.4	U		0.054	J		<0.35	U		220			<0.31	U		<0.31	U	
		VMP-4-5-112210	11/22/2010	<15	U		<15	U		<14	U		<15	U		<13	U		<13	U		1800			11	J		<12	U	
		VMP-4-5-021411	2/14/2011	<0.86	U		<0.86	U		<0.85	U		<0.88	U		<0.77	U		<0.77	U		260			0.45	J		<0.68	U	
		VMP-4-5-041911	4/19/2011	<40	U		<40	U		<39	U		<41	U		<36	U		<36	U		1100			<31	U		<31	U	
	12 ft	VMP-4-5-080311	8/3/2011	<0.085	U		<0.085	U		<0.084	U		<0.087	U		0.016	J		<0.076	U		28			0.012	J		<0.068	U	
		VMP-4-12	11/5/2009	<1.2	U		<1.2	U		<1.1	U		<1.2	U		<1	U		<1	U		300			1.5			<0.92	U	
		VMP-4-12-082510	8/25/2010	<6.9	U		<6.9	U		<6.8	U		<7.1	U		1.8	J		1.5	J		1400			5.6			<5.5	U	
		VMP-4-12-112310	11/23/2010	<7	U		<7	U		<6.9	U		<7.2	U		3.5	J		2.6	J		1300			6.2			<5.6	U	
		VMP-4-12-021411	2/14/2011	<1.8	U		<1.8	U		<1.7	U		<1.8	U		<1.6	U		0.52	J		600			2.8			0.72	J	
		VMP-4-12-041911	4/19/2011	<34	U		<34	U		<34	U		<35	U		<31	U		<31	U		1200			51			7.6	J	
		VMP-4-12-080311	8/3/2011	<3.9	U		<3.9	U		<3.9	U		<4	U		<3.5	U		<3.5	U		440			0.77	J		<3.1	U	
	23.5 ft	VMP-4-12-080311-Dup	8/3/2011	<7.9	U		<7.9	U		<7.8	U		<8.1	U		<7.1	U		<7.1	U		390			<6.3	U		<6.3	U	
		VMP-4-23.5	11/5/2009	<53	U		<53	U		<52	U		<54	U		78			<48	U		4700			1300			410		
		VMP-4-23.5-083110	8/31/2010	<7.9	U		<7.9	U		<7.8	U		<8.1	U		190		J	66		J	5800		J	1800		J	600		J
		VMP-4-23.5-112310	11/23/2010	<79	U		<79	U		<78	U		<82	U		31	J		<72	U		4800			1100			310		
		VMP-4-23.5-021411	2/14/2011	<2.9	U		<2.9	U		<2.8	U		<3	U		<2.6	U		<2.6	U		2400		J	130		J	30		J
		VMP-4-23.5-042011	4/20/2011	<180	U		<180	U		<180	U		<190	U		<160	U		<160	U		5200			900			230		
		VMP-4-23.5-042011-Dup	4/20/2011	<180	U		<180	U		<180	U		<190	U		<160	U		<160	U		4800			830			230		
	39 ft	VMP-4-23.5-080611	8/6/2011	<7.7	U		<7.7	U		<7.6	U		<7.9	U		11			6.1	J		2800			320			91		
		VMP-4-39	11/5/2009	<41	U		<41	U		<40	U		<42	U		83			<37	U		4500			1100			320		
		VMP-4-39-042111	4/21/2011	<230	U		<230	U		<220	U		<240	U		<210	U		<210	U		4300			670			170	J	
VMP-5	5 ft	VMP-5-5	11/5/2009	<1.2	U		<1.2	U		<1.2	U		<1.2	U		<1.1	U		<1.1	U		370			<0.97	U		<0.97	U	
		VMP-5-5-090910	9/9/2010	<14	U		<14	U		<14	U		<15	U		13			6.9	J		1600			9	J		6.4	J	
		VMP-5-5-112210	11/22/2010	<3.5	U		<3.5	U		<3.5	U		<3.6	U		<3.2	U		<3.2	U		1700			<2.8	U		<2.8	U	
		VMP-5-5-021611	2/16/2011	<0.022	U		<0.022	U		<0.022	U		<0.023	U		<0.02	U		<0.02	U		24			0.0062	J	J	<0.018	U	
		VMP-5-5-042111	4/21/2011	<0.072	U		<0.072	U		<0.071	U		<0.074	U		<0.065	U		<0.065	U		0.097			<0.057	U		<0.057	U	
		VMP-5-5-080511	8/5/2011	<0.0069	J	U	<0.0069	U		<0.0068	J	U	0.0014	J		0.002	J		<0.0062	U		0.23			0.0083			0.0024	J	
	12.5 ft	VMP-5-12.5	11/6/2009	<1.4	U		<1.4	U		<1.4	U		<1.4	U		<1.3	U		<1.3	U		960			<1.1	U		<1.1	U	
		VMP-5-12.5-D	11/6/2009	<3.2	U		<3.2	U		<3.1	U		<3.2	U		<2.8	U		<2.8	U		1000			<2.5	U		<2.5	U	
		VMP-5-12.5-090910	9/9/2010	<7.2	U		<7.2	U		<7.1	U		<7.4	U		6.1	J		3	J		1500			3.2	J		2.2	J	
		VMP-5-12.5-112310	11/23/2010	<0.36	U		<0.36	U		<0.35	U		<0.37	U		<0.32	U		<0.32	U		110			0.2	J		<0.29	U	
		VMP-5-12.5-021611	2/16/2011	<1.1	U		<1.1	U		<1.1	U		<1.1	U		<0.98	U		<0.98	U		170			<0.86	U		<0.86	U	
		VMP-5-12.5-042111	4/21/2011	<0.077	U		<0.077	U		<0.076	U		<0.079	U		<0.069	U		<0.069	U		0.081			<0.061	U		<0.061	U	
		VMP-5-12.5-080611	8/6/2011	<6.8	U		<6.8	U		<6.7	U		<7	U		<6.1	U		<6.1	U		810			<5.4	U		<5.4	U	
		VMP-5-31	11/6/2009	<13	U		<13	U		<13	U		<13	U		<12	U		<12	U		4000			<10	U		<10	U	
	31 ft	VMP-5-31-090910	9/9/2010	<30	U		<30	U		<30	U		<31	U		<27	U		<27	U		4400			7.7	J		<24	U	
		VMP-5-31-112310	11/23/2010	<19	U		<19	U		<18	U		<19	U		<17	U		<17	U		4700			12	J		<15	U	
		VMP-5-31-021611	2/16/2011	<7.5	U		<7.5	U		<7.4	U		<7.8	U		<6.8	U		<6.8	U		3100			5.5	J		<6	U	
		VMP-5-31-042111	4/21/2011	<110	U		<110	U		<110	U		<120	U		<100	U		<100	U		3800			<89	U		<89	U	
VMP-5-31-080611		8/6/2011	<63	U		<63	U		<62	U		<65	U		<57	U		<57	U		3700			<50	U		<50	U		
VMP-5-40		11/6/2009	<18	U		<18	U		<18	U		<18	U		<16	U		<16	U		3400			<14	U		<14	U		
40 ft	VMP-5-40-042111	4/21/2011	<120	U		<120	U		<120	U		<120	U		<100	U		<100	U		3500			<94	U		<94	U		

See last page of table for notes.

TABLE 3

Location	Depth	Sample ID	Sample Date	Acetone			Benzene			CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS			Propane			Butane			2-Butanone			Carbon disulfide				
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier		
VMP-7	5 ft	VMP-7-5	11/9/2009	0.041			0.015			<0.007	U		<0.004	U		<0.002	U				<0.003	U				
		VMP-7-5-082610	8/26/2010	0.026			0.012			<0.0088	U		<0.0051	U		<0.0029	U				0.006		0.0028	J		
		VMP-7-5-111910	11/19/2010	0.014			0.001	J		<0.008	U		<0.0046	U		<0.0026	U				0.0022	J	<0.0037	U		
		VMP-7-5-020711	2/7/2011	0.027			0.041			<0.0086	U		<0.005	U		<0.0028	U				<0.0038	U		<0.004	U	
		VMP-7-5-040711	4/7/2011	0.0076	J		1.6			<0.012	U		<0.0071	U		<0.004	U		0.012	J	<0.021	U	<0.023	J	U	
		VMP-7-5-080211	8/2/2011	<1.7	U		1.3			<1.2	U		<0.7	U		<0.4	U		110		<2.1	U		<0.56	U	
	13.5 ft	VMP-7-13.5	11/9/2009	<0.085	U		<0.028	U		<0.06	U		<0.035	U		<0.02	U				<0.026	U		<0.028	U	
		VMP-7-13.5-082610	8/26/2010	<0.27	U		0.15			<0.19	U		<0.11	U		<0.064	U				<0.085	U		<0.09	U	
		VMP-7-13.5-111910	11/19/2010	<1.9	U		1.3		J	<1.4	U		<0.78	U		<0.44	U				<0.59	U		<0.63	U	
		VMP-7-13.5-020711	2/7/2011	0.011	J		0.027			<0.0083	U		<0.0048	U		<0.0027	U				<0.0036	U		<0.0038	U	
		VMP-7-13.5-040711	4/7/2011	0.012	J		1.7			<0.014	U		<0.0084	U		<0.0048	U		0.016	J	<0.025	U	<0.027	J	U	
		VMP-7-13.5-080311	8/3/2011	<2.3	U		1.1			<1.6	U		<0.94	U		<0.53	U		67		<2.8	U		<0.75	U	
	29.5 ft	VMP-7-29.5	11/9/2009	<1.8	U		120		J	<1.3	U		<0.74	U		<0.42	U				<0.56	U		<0.59	U	
		VMP-7-29.5-083110	8/31/2010	<3.9	U		86		J	<2.8	U		<1.6	U		<0.91	U				<1.2	U		<1.3	U	
		VMP-7-29.5-111910	11/19/2010	<5.9	U		62		J	<4.2	U		<2.4	U		<1.4	U				<1.8	U		<1.9	U	
		VMP-7-29.5-020711	2/7/2011	<6.1	U		60			<4.3	U		<2.5	U		<1.4	U				<1.9	U		<2	U	
		VMP-7-29.5-040711	4/7/2011	<1.5	U		40		J	<1	U		<0.61	U		<0.35	U		94		J	<1.8	U	<0.49	U	
		VMP-7-29.5-080311	8/3/2011	<3.5	U		40			<2.5	U		<1.4	U		<0.82	U		200			<4.4	U	<1.2	U	
	38 ft	VMP-7-38	11/9/2009	<0.63	U		54		J	<0.44	U		<0.26	U		<0.15	U				<0.19	U		<0.2	U	
		VMP-7-38-020711	2/7/2011	1.8	J		57			<5.8	U		<3.4	U		<1.9	U				<2.6	U		<2.7	U	
		VMP-7-38-040711	4/7/2011	<2.1	U		24		J	<1.5	U		<0.85	U		<0.49	U		120		J	<2.6	U	<0.68	U	
VMP-8	5 ft	VMP-8-5	11/10/2009	0.015			<0.003	U		<0.007	U		<0.004	U		<0.002	U				0.0043			<0.003	U	
		VMP-8-5-083010	8/30/2010	0.043			0.021			<0.009	U		0.008			<0.003	U				0.015			0.0032	J	
		VMP-8-5-111810	11/17/2010	0.012			<0.0037	U		0.0012	J		<0.0045	U		<0.0026	U				0.0017	J		0.0011	J	
		VMP-8-5-021011	2/10/2011	0.0072	J		0.014			<0.0083	U		<0.0048	U		<0.0027	U				<0.0036	U		0.0011	J	
		VMP-8-5-040711	4/7/2011	0.055			1.2			<0.0092	U		<0.0054	U		<0.003	U		<0.013	U	0.0024	J		<0.017	J	U
		VMP-8-5-072711	7/27/2011	0.037			0.11			<0.0099	U		<0.0057	U		<0.0033	U		<0.014	U		0.042			0.0036	J
	9.5 ft	VMP-8-9.5	11/10/2009	<0.011	U		<0.003	U		<0.007	U		<0.004	U		<0.002	U				<0.003	U		<0.003	U	
		VMP-8-9.5-083010	8/30/2010	0.04			0.015		J	<0.0081	U		0.0068			<0.0027	U				0.0061			0.0012	J	
		VMP-8-9.5-083010-Dup	8/30/2010	0.041			0.012		J	<0.0083	U		0.0079			<0.0027	U				0.0097			0.0012	J	
		VMP-8-9.5-111810	11/17/2010	0.0095	J		0.0025	J		0.0017	J		<0.0047	U		<0.0027	U				0.0013	J		<0.0038	U	
		VMP-8-9.5-021011	2/10/2011	0.015			<0.004	U		<0.0084	U		<0.0049	U		<0.0028	U				<0.0037	U		<0.0039	U	
		VMP-8-9.5-040711	4/7/2011	0.0089	J		0.93			<0.0092	U		<0.0054	U		<0.003	U		<0.013	U	0.0023	J		0.0015	J	
	23.5 ft	VMP-8-9.5-072711	7/27/2011	0.035			0.19			<0.0071	U		<0.0041	U		<0.0024	U		0.012			0.038			0.0032	J
		VMP-8-23.5	11/10/2009	<0.011	U		<0.003	U		<0.008	U		<0.004	U		<0.002	U				<0.003	U		<0.003	U	
		VMP-8-23.5-083010	8/30/2010	0.02			0.013			<0.0088	U		<0.0051	U		<0.0029	U				0.0044			0.0015	J	
		VMP-8-23.5-111910	11/19/2010	0.033			0.0029	J		<0.0084	U		<0.0049	U		<0.0028	U				0.0068			<0.0039	U	
		VMP-8-23.5-021011	2/10/2011	<0.013	U		0.0079			<0.009	U		<0.0052	U		<0.003	U				<0.004	U		<0.0042	U	
		VMP-8-23.5-040711	4/7/2011	0.01	J		1.2		J	<0.0084	U		<0.0049	U		<0.0028	U		<0.012	U	<0.015	U		0.0024	J	
		VMP-8-23.5-040711-Dup	4/7/2011	0.0093	J		0.73		J	<0.013	U		<0.0078	U		<0.0044	U		<0.019	U	<0.024	U		0.0025	J	
		VMP-8-23.5-081011	8/10/2011	0.043			0.18			<0.0088	U		<0.0051	U		<0.0029	U		0.02		0.012	J		<0.016	J	U
	VMP-9	5 ft	VMP-9-5	11/11/2009	0.012			<0.003	U		<0.007	U		<0.004	U		<0.002	U				0.0035			<0.003	U
VMP-9-5-082610			8/26/2010	0.029			0.0088			<0.0076	U		<0.0044	U		<0.0025	U				0.0053			0.0019	J	
VMP-9-5-111910			11/19/2010	0.014			<0.0038	U		<0.008	U		<0.0046	U		<0.0026	U				<0.0035	U		<0.0037	U	
VMP-9-5-020811			2/8/2011	0.013			<0.0035	U		<0.0074	U		<0.0043	U		<0.0024	U				0.0015	J		<0.0034	U	
VMP-9-5-040611			4/6/2011	0.026	J		0.11			<0.02	U		<0.012	U		<0.0067	U		<0.029	U	0.0029	J		<0.038	J	U
VMP-9-5-080211			8/2/2011	<0.56	U		<0.19	U		<0.4	U		<0.23	U		<0.13	U		0.23	J	<0.7	U		<0.73	U	
11.5 ft		VMP-9-11.5	11/11/2009	0.017			<0.004	U																		

See last page of table for notes.

TABLE 3

Location	Depth	Sample ID	Sample Date	Carbon tetrachloride			Chlorobenzene CUMULATIVE SUMMARY OF SOIL			ANALYTICAL DETECTIONS AND SCREENING RESULTS			Methane			alpha-Chlorotoluene			Cyclohexane								
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier						
VMP-7	5 ft	VMP-7-5	11/9/2009	<0.007	U		<0.005	U		<0.009	U		<0.003	U		<0.005	U		<0.009	U		<0.006	U		0.041		
		VMP-7-5-082610	8/26/2010	<0.0083	U		<0.0061	U		<0.011	U		<0.0035	U		<0.0064	U		<0.011	U		<0.0068	U		0.016		
		VMP-7-5-111910	11/19/2010	<0.0075	U		<0.0055	U		<0.01	U		<0.0031	U		<0.0058	U		<0.0098	U		<0.0062	U		0.0054		
		VMP-7-5-020711	2/7/2011	<0.0081	U		<0.0059	U		<0.011	U		<0.0034	U		<0.0063	U		<0.011	U		<0.0067	U		0.0018	J	
		VMP-7-5-040711	4/7/2011	<0.011	U		<0.0084	U		<0.016	U		<0.019	U		<0.0089	U		<0.015	U		<0.0094	U		0.0081		
	13.5 ft	VMP-7-5-080211	8/2/2011	<1.1	U		<0.83	U		<1.5	U		<1.9	U		<0.88	U		<1.5	U		<0.93	U		45		
		VMP-7-13.5	11/9/2009	<0.056	U		<0.041	U		<0.076	U		<0.024	U		<0.044	U		<0.074	U		<0.046	U		0.087		
		VMP-7-13.5-082610	8/26/2010	<0.18	U		<0.13	U		<0.25	U		<0.076	U		<0.14	U		<0.24	U		<0.15	U		<0.099	U	
		VMP-7-13.5-111910	11/19/2010	<1.3	U		<0.93	U		<1.7	U		<0.53	U		<0.98	U		<1.7	U		<1	U		26		J
		VMP-7-13.5-020711	2/7/2011	<0.0078	U		<0.0057	U		<0.01	U		<0.0032	U		<0.006	U		<0.01	U		<0.0064	U		0.0013	J	
	29.5 ft	VMP-7-13.5-040711	4/7/2011	<0.014	U		<0.0099	U		<0.018	U		<0.023	U		<0.01	U		<0.018	U		<0.011	U		0.0091		
		VMP-7-13.5-080311	8/3/2011	<1.5	U		<1.1	U		<2	U		<2.5	U		<1.2	U		<2	U		<1.2	U		9.4		
		VMP-7-29.5	11/9/2009	<1.2	U		<0.88	U		<1.6	U		<0.5	U		<0.93	U		<1.6	U		<0.99	U		610		J
		VMP-7-29.5-083110	8/31/2010	<2.6	U		<1.9	U		<3.5	U		<1.1	U		<2	U		<3.4	U		<2.1	U		540		J
		VMP-7-29.5-111910	11/19/2010	<3.9	U		<2.8	U		<5.3	U		<1.6	U		<3	U		<5.1	U		<3.2	U		410		J
	38 ft	VMP-7-29.5-020711	2/7/2011	<4	U		<3	U		<5.5	U		<1.7	U		<3.1	U		<5.3	U		<3.3	U		440		
VMP-7-29.5-040711		4/7/2011	<0.98	U		<0.72	U		<1.3	U		<1.6	U		<0.76	U		<1.3	U		<0.81	U		280		J	
VMP-7-29.5-080311		8/3/2011	<2.3	U		<1.7	U		<3.2	U		<3.9	U		<1.8	U		<3	U		<1.9	U		470			
VMP-7-38		11/9/2009	<0.42	U		<0.3	U		<0.56	U		<0.17	U		<0.32	U		<0.54	U		<0.34	U		220		J	
VMP-7-38-020711		2/7/2011	<5.4	U		<4	U		<7.4	U		<2.3	U		<4.2	U		<7.1	U		<4.5	U		390			
	VMP-7-38-040711	4/7/2011	<1.4	U		<1	U		<1.9	U		<2.3	U		<1.1	U		<1.8	U		<1.1	U		350		J	
VMP-8	5 ft	VMP-8-5	11/10/2009	<0.007	U		<0.005	U		<0.009	U		<0.003	U		<0.005	U		<0.009	U		<0.006	U		0.0083		
		VMP-8-5-083010	8/30/2010	<0.0085	U		0.0032	J		<0.011	U		<0.0035	U		0.0039	J		<0.011	U		0.0018	J	J	<0.0046	U	
		VMP-8-5-111810	11/17/2010	0.0014	J		<0.0054	U		<0.0099	U		<0.0031	U		0.001	J		<0.0096	U		<0.006	U		<0.004	U	
		VMP-8-5-021011	2/10/2011	<0.0078	U		<0.0057	U		<0.01	U		<0.0032	U		<0.006	U		<0.01	U		<0.0064	U		0.0012	J	
		VMP-8-5-040711	4/7/2011	<0.0087	U		<0.0064	U		0.0023	J		<0.014	U		0.00094	J		<0.011	U		<0.0071	U		0.0014	J	
	9.5 ft	VMP-8-5-072711	7/27/2011	<0.0093	U		<0.0068	U		<0.013	U		<0.016	U		<0.0072	U		<0.012	U		<0.0077	U		0.0014	J	
		VMP-8-9.5	11/10/2009	<0.007	U		<0.005	U		<0.009	U		<0.003	U		<0.005	U		<0.009	U		<0.005	U		<0.003	U	
		VMP-8-9.5-083010	8/30/2010	<0.0076	U		0.0027	J		<0.01	U		<0.0032	U		<0.0059	U		<0.01	U		<0.0063	U		<0.0042	U	
		VMP-8-9.5-083010-Dup	8/30/2010	<0.0078	U		0.0028	J		<0.01	U		<0.0032	U		0.00094	J		<0.01	U		<0.0064	U		<0.0042	U	
		VMP-8-9.5-111810	11/17/2010	0.0014	J		<0.0056	U		<0.01	U		<0.0032	U		<0.0059	U		<0.01	U		<0.0063	U		0.0011	J	
	23.5 ft	VMP-8-9.5-021011	2/10/2011	<0.0079	U		<0.0058	U		<0.011	U		<0.0033	U		<0.0062	U		<0.01	U		<0.0065	U		<0.0043	U	
		VMP-8-9.5-040711	4/7/2011	<0.0087	U		<0.0064	U		<0.012	U		<0.014	U		<0.0067	U		<0.011	U		<0.0071	U		0.00079	J	
		VMP-8-9.5-072711	7/27/2011	<0.0067	U		<0.0049	U		<0.0091	U		<0.011	U		<0.0052	U		<0.0088	U		<0.0055	U		0.0014	J	
		VMP-8-23.5	11/10/2009	<0.007	U		<0.005	U		<0.01	U		<0.003	U		<0.005	U		<0.009	U		<0.006	U		<0.004	U	
		VMP-8-23.5-083010	8/30/2010	0.0009	J		0.003	J		<0.011	U		<0.0035	U		<0.0064	U		<0.011	U		<0.0068	U		0.002	J	
	38 ft	VMP-8-23.5-111910	11/19/2010	<0.0079	U		<0.0058	U		<0.011	U		<0.0033	U		<0.0062	U		<0.01	U		<0.0065	U		0.0018	J	
VMP-8-23.5-021011		2/10/2011	<0.0085	U		<0.0062	U		<0.011	U		<0.0035	U		<0.0066	U		<0.011	U		<0.007	U		<0.0046	U		
VMP-8-23.5-040711		4/7/2011	<0.0079	U		<0.0058	U		0.0021	J		<0.013	U		<0.0062	U		<0.01	U		<0.0065	U		0.001	J		
VMP-8-23.5-040711-Dup		4/7/2011	<0.012	U		<0.0092	U		0.0033	J		<0.021	U		<0.0098	U		<0.016	U		<0.01	U		0.0027	J		
VMP-8-23.5-081011		8/10/2011	<0.0083	U		<0.0061	J	U	<0.011	U		<0.014	U		<0.0064	U		<0.011	U		<0.0068	J	U	0.012			
VMP-9	5 ft	VMP-9-5	11/11/2009	<0.007	U		<0.005	U		<0.009	U		<0.003	U		<0.005	U		<0.009	U		<0.005	U		<0.003	U	
		VMP-9-5-082610	8/26/2010	<0.0072	U		<0.0052	U		<0.0097	U		<0.003	U		<0.0056	U		<0.0094	U		<0.0059	U		0.011		
		VMP-																									

See last page of table for notes.

TABLE 3 ANALYTICAL DETECTION AND SCREENING RESULTS																										
Location	Depth	Sample ID	Sample Date	1,2-Dibromoethane			1,2-Dichlorobenzene			Cumulative Summary of Soil			Village Vocs			1,1-Dichloroethane			1,1-Dichloroethene			cis-1,2-Dichloroethene				
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier		
VMP-7	5 ft	VMP-7-5	11/9/2009	<0.009	U		<0.007	U		<0.007	U		<0.007	U		<0.004	U		<0.004	U		<0.004	U			
		VMP-7-5-082610	8/26/2010	<0.01	U		<0.0079	U		<0.0079	U		<0.0079	U		<0.0053	U		<0.0053	U		<0.0052	U			
		VMP-7-5-111910	11/19/2010	<0.0091	U		<0.0072	U		<0.0072	U		<0.0072	U		<0.0048	U		<0.0048	U		<0.0047	U			
		VMP-7-5-020711	2/7/2011	<0.0099	U		<0.0078	J	U	<0.0078	U		<0.0078	J	U	<0.0052	U		<0.0052	U		<0.0051	U			
		VMP-7-5-040711	4/7/2011	<0.014	U		<0.011	U		<0.011	U		<0.011	U		<0.0074	U		<0.0074	U		<0.0072	U			
		VMP-7-5-080211	8/2/2011	<1.4	U		<1.1	U		<1.1	U		<1.1	U		<0.73	U		<0.73	U		<0.72	U			
	13.5 ft	VMP-7-13.5	11/9/2009	<0.069	U		<0.054	U		<0.054	U		<0.054	U		<0.036	U		<0.036	U		<0.035	U			
		VMP-7-13.5-082610	8/26/2010	<0.22	U		<0.17	U		<0.17	U		<0.17	U		<0.12	U		<0.12	U		<0.11	U			
		VMP-7-13.5-111910	11/19/2010	<1.5	U		<1.2	U		<1.2	U		<1.2	U		<0.82	U		<0.82	U		<0.8	U			
		VMP-7-13.5-020711	2/7/2011	<0.0095	J	U	<0.0074	J	U	<0.0074	U		<0.0074	J	U	<0.005	U		<0.005	U		<0.0049	U			
		VMP-7-13.5-040711	4/7/2011	<0.016	U		<0.013	U		<0.013	U		<0.013	U		<0.0087	U		<0.0087	U		<0.0086	U			
		VMP-7-13.5-080311	8/3/2011	<1.8	U		<1.4	U		<1.4	U		<1.4	U		<0.98	U		<0.98	U		<0.96	U			
	29.5 ft	VMP-7-29.5	11/9/2009	<1.5	U		<1.1	U		<1.1	U		<1.1	U		<0.77	U		<0.77	U		<0.76	U			
		VMP-7-29.5-083110	8/31/2010	<3.2	U		<2.5	U		<2.5	U		<2.5	U		<1.7	U		<1.7	U		<1.6	U			
		VMP-7-29.5-111910	11/19/2010	<4.8	U		<3.7	U		<3.7	U		<3.7	U		<2.5	U		<2.5	U		<2.4	U			
		VMP-7-29.5-020711	2/7/2011	<5	U		<3.9	U		<3.9	U		<3.9	U		<2.6	U		<2.6	U		<2.6	U			
		VMP-7-29.5-040711	4/7/2011	<1.2	U		<0.94	U		<0.94	U		<0.94	U		<0.63	U		<0.63	U		<0.62	U			
		VMP-7-29.5-080311	8/3/2011	<2.8	U		<2.2	U		<2.2	U		<2.2	U		<1.5	U		<1.5	U		<1.5	U			
	38 ft	VMP-7-38	11/9/2009	<0.51	U		<0.4	U		<0.4	U		<0.4	U		<0.27	U		<0.27	U		<0.26	U			
		VMP-7-38-020711	2/7/2011	<6.6	U		<5.2	U		<5.2	U		<5.2	U		<3.5	U		<3.5	U		<3.4	U			
		VMP-7-38-040711	4/7/2011	<1.7	U		<1.3	U		<1.3	U		<1.3	U		<0.89	U		<0.89	U		<0.87	U			
VMP-8	5 ft	VMP-8-5	11/10/2009	<0.009	U		<0.007	U		<0.007	U		<0.007	U		<0.004	U		<0.004	U		<0.004	U			
		VMP-8-5-083010	8/30/2010	0.0015	J		0.0034	J		0.0038	J		0.0046	J		0.00069	J		0.00092	J		<0.0053	U			
		VMP-8-5-111810	11/17/2010	<0.009	U		<0.007	U		<0.007	U		<0.007	U		<0.0047	U		<0.0047	U		<0.0046	U			
		VMP-8-5-021011	2/10/2011	<0.0095	U		<0.0074	U		<0.0074	U		<0.0074	U		<0.005	U		<0.005	U		<0.0049	U			
		VMP-8-5-040711	4/7/2011	<0.011	U		<0.0083	J	U	<0.0083	U		<0.0083	J	U	<0.0056	U		<0.0056	U		<0.0055	U			
		VMP-8-5-072711	7/27/2011	<0.011	U		<0.0089	U		<0.0089	U		0.0013	J		<0.006	U		<0.006	U		<0.0059	U			
	9.5 ft	VMP-8-9.5	11/10/2009	<0.008	U		<0.006	U		<0.006	U		<0.006	U		<0.004	U		<0.004	U		<0.004	U			
		VMP-8-9.5-083010	8/30/2010	<0.0093	U		<0.0073	U		0.0025	J		0.0029	J		0.00048	J		<0.0049	U		<0.0048	U			
		VMP-8-9.5-083010-Dup	8/30/2010	<0.0095	U		<0.0074	U		0.0021	J		0.0026	J		0.00041	J		0.0007	J		<0.0049	U			
		VMP-8-9.5-111810	11/17/2010	<0.0093	U		<0.0073	U		<0.0073	U		<0.0073	U		<0.0049	U		<0.0049	U		<0.0048	U			
		VMP-8-9.5-021011	2/10/2011	<0.0097	U		<0.0076	U		<0.0076	U		<0.0076	U		<0.0051	U		<0.0051	U		<0.005	U			
		VMP-8-9.5-040711	4/7/2011	<0.011	U		<0.0083	U		<0.0083	U		0.00092	J		<0.0056	U		<0.0056	U		<0.0055	U			
	23.5 ft	VMP-8-9.5-072711	7/27/2011	<0.0082	U		<0.0064	U		<0.0064	U		0.0011	J		<0.0043	U		<0.0043	U		<0.0042	U			
		VMP-8-23.5	11/10/2009	<0.009	U		<0.007	U		<0.007	U		<0.007	U		<0.004	U		<0.004	U		<0.004	U			
		VMP-8-23.5-083010	8/30/2010	<0.01	U		<0.0079	U		0.0021	J		0.0026	J		<0.0053	U		0.00085	J		<0.0052	U			
VMP-8-23.5-111910		11/19/2010	<0.0097	U		<0.0076	U		<0.0076	U		<0.0076	U		<0.0051	U		<0.0051	U		<0.005	U				
VMP-8-23.5-021011		2/10/2011	<0.01	U		<0.0081	U		<0.0081	U		<0.0081	U		<0.0054	U		<0.0054	U		<0.0053	U				
VMP-8-23.5-040711		4/7/2011	<0.0097	U		<0.0076	U		<0.0076	U		<0.0076	U		<0.0051	U		<0.0051	U		<0.005	U				
VMP-9	5 ft	VMP-8-23.5-040711-Dup	4/7/2011	<0.015	U		<0.012	U		0.0016	J		0.0017	J		<0.0081	U		0.0014	J		<0.0079	U			
		VMP-8-23.5-081011	8/10/2011	<0.01	U		<0.0079	J	U	<0.0079	J	U	<0.0079	J	U	<0.0053	U		<0.0053	U		<0.0052	U			
		VMP-9-5	11/11/2009	<0.008	U		<0.006	U		<0.006	U		<0.006	U		<0.004	U		<0.004	U		<0.004	U			
		VMP-9-5-082610	8/26/2010	<0.0088	U		<0.0068	U		<0.0068	U		<0.0068	U		<0.0046	U		<0.0046	U		<0.0045	U			
		VMP-9-5-111910	11/19/2010	<0.0091	U		<0.0072	U		<0.0072	U		<0.0072	U		<0.0048	U		<0.0048	U		<0.0047	U			
		VMP-9-5-020811	2/8/2011	<0.0084	U		<0.0066	J	U	<0.0066	U		<0.0066	J	U	<0.0044	U		<0.0044	U		<0.0044	U			
	11.5 ft	VMP-9-5-040611	4/6/2011	<0.023	U		<0.018	J	U	<0.018	J	U	<0.018	J	U	<0.012	U		<0.012	U		<0.012	U			
		VMP-9-5-080211	8/2/2011	<0.45	U		<0.35	U		<0.35	U		<0.35	U		<0.24	U		<0.24	U		<0.23	U			
		VMP-9-11.5	11/11/2009																							

See last page of table for notes.

TABLE 3 ANALYTICAL DETECTIONS AND SCREENING RESULTS																												
Location	Depth	Sample ID	Sample Date	Dichlorodifluoromethane			Dichloromethane (Methylene chloride)			CUMULATIVE SUMMARY OF SOIL			VAPOR ANALYTICAL DETECTIONS			SCREENING RESULTS			Ethylbenzene			4-Ethyltoluene						
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier				
VMP-7	5 ft	VMP-7-5	11/9/2009	<0.005	U		<0.004	U		<0.005	U		<0.005	U		<0.017	U		0.11	J		0.012	U		<0.005	U		
		VMP-7-5-082610	8/26/2010	0.003	J		0.0023	J		<0.0061	U		<0.006	U		<0.019	U		0.007	J		<0.0057	U		<0.0065	U		
		VMP-7-5-111910	11/19/2010	<0.0059	U		<0.0041	U		<0.0055	U		<0.0054	U		0.0093	J		0.0031	J		0.00077	J		<0.0058	U		
		VMP-7-5-020711	2/7/2011	0.0025	J		0.0013	J		<0.006	U		<0.0058	U		<0.018	U		0.0087	J		<0.0056	U		<0.0063	U		
		VMP-7-5-040711	4/7/2011	0.0014	J		<0.0063	J	U	<0.0084	U		<0.0083	U		<0.026	U		0.0034	J		<0.0079	U		<0.0089	U		
	13.5 ft	VMP-7-5-080211	8/2/2011	<0.89	U		<0.63	U		<0.83	U		<0.82	U		<2.6	U		<1.4	U		<0.78	U		<0.89	U		
		VMP-7-13.5	11/9/2009	<0.044	U		<0.031	U		<0.041	U		<0.041	U		<0.13	U		<0.067	U		<0.039	U		<0.044	U		
		VMP-7-13.5-082610	8/26/2010	<0.14	U		<0.1	U		<0.13	U		<0.13	U		<0.42	U		<0.22	U		<0.12	U		<0.14	U		
		VMP-7-13.5-111910	11/19/2010	<1	U		0.91		J	<0.93	U		<0.91	U		<2.9	U		<1.5	U		<0.87	U		<0.99	U		
		VMP-7-13.5-020711	2/7/2011	0.0019	J		<0.0043	U		<0.0057	U		<0.0056	U		<0.018	U		<0.0093	U		<0.0054	U		<0.0061	U		
	29.5 ft	VMP-7-13.5-040711	4/7/2011	<0.011	U		<0.0075	J	U	<0.01	U		<0.0098	U		<0.031	U		<0.016	U		<0.0094	U		<0.011	U		
		VMP-7-13.5-080311	8/3/2011	<1.2	U		<0.84	U		<1.1	U		<1.1	U		<3.5	U		<1.8	U		<1	U		<1.2	U		
		VMP-7-29.5	11/9/2009	<0.94	U		<0.66	U		<0.88	U		<0.87	U		<2.8	U		<1.4	U		<0.83	U		<0.94	U		
		VMP-7-29.5-083110	8/31/2010	<2	U		<1.4	U		<1.9	U		<1.9	U		<5.9	U		<3.1	U		<1.8	U		<2	U		
		VMP-7-29.5-111910	11/19/2010	<3.1	U		<2.2	U		<2.9	U		<2.8	U		<8.9	U		<4.7	U		<2.7	U		<3	U		
	38 ft	VMP-7-29.5-020711	2/7/2011	<3.2	U		<2.2	U		<3	U		<2.9	U		<9.3	U		<4.9	U		<2.8	U		0.77	J		
		VMP-7-29.5-040711	4/7/2011	<0.77	U		<0.54	U		<0.72	U		<0.71	U		<2.2	U		<1.2	U		<0.68	U		0.23	J	J	
		VMP-7-29.5-080311	8/3/2011	<1.8	U		<1.3	U		<1.7	U		<1.7	U		<5.3	U		<2.8	U		<1.6	U		<1.8	U		
		VMP-7-38	11/9/2009	<0.33	U		<0.23	U		<0.3	U		<0.3	U		<0.95	U		<0.5	U		<0.29	U		<0.32	U		
		VMP-7-38-020711	2/7/2011	<4.3	U		<3	U		<4	U		<3.9	U		<12	U		<6.5	U		<3.8	U		<4.2	U		
		VMP-7-38-040711	4/7/2011	<1.1	U		<0.76	U		<1	U		<1	U		<3.2	U		<1.6	U		<0.96	U		<1.1	U		
VMP-8	5 ft	VMP-8-5	11/10/2009	<0.005	U		<0.004	U		<0.005	U		<0.005	U		<0.017	U		0.023	J		<0.005	U		<0.005	U		
		VMP-8-5-083010	8/30/2010	0.0026	J		0.0026	J		<0.0062	U		<0.0061	U		<0.019	U		<0.01	U		<0.0058	U		0.0014	J		
		VMP-8-5-111810	11/17/2010	0.0027	J		0.00071	J		<0.0054	U		<0.0053	U		<0.017	U		0.0073	J		<0.005	J	U	<0.0057	U		
		VMP-8-5-021011	2/10/2011	<0.0061	U		<0.0043	U		<0.0057	U		<0.0056	U		<0.018	U		<0.0093	U		<0.0054	U		<0.0061	U		
		VMP-8-5-040711	4/7/2011	0.0026	J		<0.0048	U		<0.0064	U		<0.0063	U		0.0057	J		<0.01	U		<0.006	U		<0.0068	U		
	9.5 ft	VMP-8-5-072711	7/27/2011	0.0023	J		<0.0051	U		<0.0068	U		<0.0067	U		<0.021	U		0.037			0.0026	J		0.0033	J		
		VMP-8-9.5	11/10/2009	<0.005	U		<0.003	U		<0.005	U		<0.005	U		<0.016	U		0.03		J	<0.004	U		<0.005	U		
		VMP-8-9.5-083010	8/30/2010	0.0024	J		0.005			<0.0056	U		<0.0055	U		<0.017	U		0.016			<0.0052	U		0.0011	J		
		VMP-8-9.5-083010-Dup	8/30/2010	0.0024	J		0.0013	J		0.00099	J		<0.0056	U		<0.018	U		0.013			<0.0054	U		<0.0061	U		
		VMP-8-9.5-111810	11/17/2010	0.0024	J		<0.0042	U		<0.0056	U		<0.0055	U		0.0021	J		0.01			<0.0052	J	U	<0.0059	U		
	23.5 ft	VMP-8-9.5-021011	2/10/2011	0.0019	J		<0.0044	U		<0.0058	U		<0.0057	U		<0.018	U		0.0028	J		<0.0055	U		<0.0062	U		
		VMP-8-9.5-040711	4/7/2011	0.0016	J		0.00097	J		<0.0064	U		<0.0063	U		<0.02	U		0.0074	J		<0.006	U		<0.0068	U		
		VMP-8-9.5-072711	7/27/2011	0.0019	J		0.0065			<0.0049	U		<0.0048	U		<0.015	U		0.082			0.0028	J		0.0032	J		
		VMP-8-23.5	11/10/2009	<0.005	U		<0.004	U		<0.005	U		<0.005	U		<0.017	U		0.023		J	<0.005	U		<0.005	U		
		VMP-8-23.5-083010	8/30/2010	0.0028	J		0.0015	J		<0.0061	U		<0.006	U		<0.019	U		0.0069	J		<0.0057	U		<0.0065	U		
	VMP-9	5 ft	VMP-8-23.5-111910	11/19/2010	<0.0062	U		<0.0044	U		<0.0058	U		<0.0057	U		<0.018	U		0.0076	J		0.0015	J		<0.0062	U	
			VMP-8-23.5-021011	2/10/2011	0.0022	J		<0.0047	U		<0.0062	U		<0.0061	U		<0.019	U		<0.01	U		<0.0058	U		<0.0066	U	
			VMP-8-23.5-040711	4/7/2011	0.0023	J		0.0066			<0.0058	U		<0.0057	U		<0.018	U		0.0075	J		0.00066	J		<0.0062	U	
			VMP-8-23.5-040711-Dup	4/7/2011	0.0017	J		0.0021	J		<0.0092	U		<0.0091	U		<0.029	U		0.0073	J		<0.0087	U		<0.0098	U	
			VMP-8-23.5-081011	8/10/2011	0.0027	J		0.0021	J		<0.0061	U		<0.006	J	U	<0.019	U		0.052			<0.0023	J		<0.0065	J	U
VMP-9	5 ft	VMP-9-5	11/11/2009	<0.005	U		<0.003	U		<0.005	U		<0.005	U		<0.016	U		0.018			<0.004	U		<0.005	U		
		VMP-9-5-082610	8/26/2010	0.003	J		0.0072			<0.0053	U		<0.0052	U		0.008	J		0.015			0.00048	J		<0.0056	U		
		VMP-9-5-111910	11/19/2010	<0.0059																								

See last page of table for notes.

TABLE 3				2-Hexanone (Methyl N-Butyl Ketone)																							
ANALYTICAL DETECTIONS AND SCREENING RESULTS				Freon 113			Heptane			CUMULATIVE SUMMARY OF SOIL ANALYSES			VAPOR ANALYSES			Pentane			Isopropylbenzene (Cumene)			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)					
Location	Depth	Sample ID	Sample Date	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier			
VMP-7	5 ft	VMP-7-5	11/9/2009	<0.008	U		0.091			<0.05	U		0.11			<0.019	U					<0.005	U		<0.004	U	
		VMP-7-5-082610	8/26/2010	<0.01	U		0.0044	J		<0.056	U		0.016			<0.022	U					<0.0065	U		<0.0054	U	
		VMP-7-5-111910	11/19/2010	<0.0091	U		0.0039	J		<0.051	U		0.0047			<0.019	U					<0.0058	U		<0.0049	U	
		VMP-7-5-020711	2/7/2011	<0.0099	U		0.0041	J		<0.055	U		0.0024	J		<0.021	U					<0.0063	U		<0.0053	U	
		VMP-7-5-040711	4/7/2011	<0.014	U		0.0074			<0.078	U		0.016			<0.03	U		0.019	J		<0.0089	U		<0.0074	U	
		VMP-7-5-080211	8/2/2011	<1.4	U		4.5			<7.7	U		12			<3	U		520			<0.89	U		<0.74	U	
	13.5 ft	VMP-7-13.5	11/9/2009	<0.068	U		<0.037	U		<0.38	U		0.052			<0.15	U					<0.044	U		<0.037	U	
		VMP-7-13.5-082610	8/26/2010	<0.22	U		<0.12	U		<1.2	U		0.035	J		<0.47	U					0.015	J		<0.12	U	
		VMP-7-13.5-111910	11/19/2010	<1.5	U		4.9		J	<8.6	U		8.9		J	<3.3	U					<0.99	U		<0.82	U	
		VMP-7-13.5-020711	2/7/2011	<0.0095	U		0.0011	J		<0.053	U		0.0013	J		<0.02	U					<0.0061	U		<0.005	U	
		VMP-7-13.5-040711	4/7/2011	<0.016	U		0.0064	J		<0.092	U		0.022			<0.035	U		0.024	J		<0.011	U		<0.0088	U	
		VMP-7-13.5-080311	8/3/2011	<1.8	U		<0.99	U		<10	U		2.7			<3.9	U		310			<1.2	U		<0.99	U	
	29.5 ft	VMP-7-29.5	11/9/2009	<1.5	U		460		J	<8.1	U		420		J	<3.1	U					7.5		J	<0.78	U	
		VMP-7-29.5-083110	8/31/2010	<3.2	U		420		J	<18	U		420		J	<6.7	U					6		J	<1.7	U	
		VMP-7-29.5-111910	11/19/2010	<4.8	U		300		J	<26	U		270			<10	U					4.8		J	<2.5	U	
		VMP-7-29.5-020711	2/7/2011	<4.9	U		350			<28	U		320			<10	U					10			<2.6	U	
		VMP-7-29.5-040711	4/7/2011	<1.2	U		220		J	<6.7	U		190		J	<2.6	U		380		J	3.4		J	<0.64	U	
		VMP-7-29.5-080311	8/3/2011	<2.8	U		350			<16	U		360			<6.1	U		850			1.6	J		<1.5	U	
	38 ft	VMP-7-38	11/9/2009	<0.5	U		170		J	<2.8	U		140		J	<1.1	U					4		J	<0.27	U	
		VMP-7-38-020711	2/7/2011	<6.6	U		210			<37	U		280			<14	U					6.8			<3.5	U	
		VMP-7-38-040711	4/7/2011	<1.7	U		110		J	<9.4	U		150		J	<3.6	U		500		J	0.56	J	J	<0.9	U	
VMP-8	5 ft	VMP-8-5	11/10/2009	<0.008	U		0.016			<0.05	U		0.016			<0.019	U					<0.005	U		<0.004	U	
		VMP-8-5-083010	8/30/2010	0.0019	J		0.0019	J		<0.057	U		0.0032	J		0.0029	J					<0.0066	U		<0.0055	U	
		VMP-8-5-111810	11/17/2010	0.0017	J		0.0025	J		<0.05	U		0.0019	J		<0.019	U					<0.0057	U		<0.0048	U	
		VMP-8-5-021011	2/10/2011	<0.0095	U		<0.0051	U		<0.053	U		0.0011	J		<0.02	U					<0.0061	U		<0.005	U	
		VMP-8-5-040711	4/7/2011	<0.01	U		<0.0056	U		<0.059	U		<0.0049	U		<0.023	U		0.0037	J		<0.0068	U		<0.0056	U	
		VMP-8-5-072711	7/27/2011	<0.011	U		0.0021	J		<0.063	U		0.0026	J		0.0054	J		<0.017	U		0.05			0.24		
	9.5 ft	VMP-8-9.5	11/10/2009	<0.008	U		0.0046			<0.048	U		0.0042			<0.018	U					<0.005	U		<0.004	U	
		VMP-8-9.5-083010	8/30/2010	0.0011	J		0.0017	J		<0.052	U		0.0055			0.0013	J					<0.0059	U		<0.005	U	
		VMP-8-9.5-083010-Dup	8/30/2010	0.001	J		0.0016	J		<0.053	U		0.0034	J		0.0017	J					<0.0061	U		<0.005	U	
		VMP-8-9.5-111810	11/17/2010	0.0018	J		<0.005	U		<0.052	U		0.0017	J		<0.02	U					<0.0059	U		<0.005	U	
		VMP-8-9.5-021011	2/10/2011	<0.0096	U		<0.0052	U		<0.054	U		<0.0044	U		<0.021	U					<0.0062	U		<0.0052	U	
		VMP-8-9.5-040711	4/7/2011	<0.01	U		<0.0056	U		<0.059	U		0.0012	J		<0.023	U		0.0031	J		<0.0068	U		<0.0056	U	
	23.5 ft	VMP-8-9.5-072711	7/27/2011	<0.0082	U		0.0039	J		<0.045	U		0.0048			0.0048	J		0.02			0.045			0.13		
		VMP-8-23.5	11/10/2009	<0.009	U		<0.004	U		<0.051	U		<0.004	U		<0.019	U					<0.005	U		<0.004	U	
		VMP-8-23.5-083010	8/30/2010	0.0014	J		0.0021	J		<0.056	U		0.0024	J		0.0011	J					<0.0065	U		<0.0054	U	
		VMP-8-23.5-111910	11/19/2010	<0.0096	U		0.0015	J		<0.054	U		0.0018	J		<0.021	U					<0.0062	U		<0.0052	U	
		VMP-8-23.5-021011	2/10/2011	<0.01	U		<0.0055	U		<0.057	U		<0.0047	U		<0.022	U					<0.0066	U		<0.0055	U	
		VMP-8-23.5-040711	4/7/2011	<0.0096	U		<0.0052	U		<0.054	U		0.0027	J		<0.021	U		0.003	J		<0.0062	U		<0.0052	U	
		VMP-8-23.5-040711-Dup	4/7/2011	<0.015	U		<0.0082	U		<0.085	U		0.0028	J		<0.033	U		0.0049	J		<0.0098	U		<0.0082	U	
		VMP-8-23.5-081011	8/10/2011	<0.01	U		0.012			<0.056	U		0.033			0.0022	J		0.069			0.019			0.1		
	VMP-9	5 ft	VMP-9-5	11/11/2009	<0.008	U		<0.004	U		<0.048	U		<0.003	U		<0.018	U					<0.005	U		<0.004	U
VMP-9-5-082610			8/26/2010	<0.0087	U		0.0055			<0.049	U		0.016			<0.019	U					<0.0056	U		<0.0047	U	
VMP-9-5-111910			11/19/2010	<0.0091	U		0.0016	J		<0.051	U		0.0014	J		<0.019	U					<0.0058	U		<0.0049	U	
VMP-9-5-020811			2/8/2011	<0.0084	U		<0.0045	U		<0.047	U		<0.0039	U		<0.018	U					<0.0054	U		<0.0045	U	
VMP-9-5-040611			4/6/2011	<0.023	U		<0.012	U		<0.13	U		0.0064	J		<0.05	U										

See last page of table for notes.

TABLE 3 ANALYTICAL DETECTIONS AND SCREENING RESULTS																												
Location	Depth	Sample ID	Sample Date	Methyl tert-Butyl Ether (MTBE)			2-Propanol			CUMULATIVE SUMMARY OF SOIL			VAPOR ANALYSIS			HYDROFURAN			Toluene			1,2,4-Trichlorobenzene						
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier				
VMP-7	5 ft	VMP-7-5	11/9/2009	<0.004	U		0.55			<0.005	U		<0.005	U		<0.007	U		<0.003	U		0.0071			<0.034	U		
		VMP-7-5-082610	8/26/2010	<0.0048	U		0.0064	J		<0.0065	U		<0.0056	U		<0.009	U		<0.0039	U		0.0012	J		<0.039	U		
		VMP-7-5-111910	11/19/2010	<0.0043	U		0.0053	J		<0.0058	U		<0.0051	U		<0.0081	U		<0.0035	U		<0.0045	U		<0.035	U		
		VMP-7-5-020711	2/7/2011	<0.0046	U		0.0059	J		<0.0063	U		<0.0055	U		<0.0088	U		<0.0038	U		0.001	J		<0.038	J	U	
		VMP-7-5-040711	4/7/2011	<0.0066	U		<0.018	U		<0.0089	U		<0.0078	U		<0.012	U		<0.0054	U		0.0025	J		<0.054	U		
	13.5 ft	VMP-7-5-080211	8/2/2011	<0.65	U		<1.8	U		<0.89	U		<0.77	U		<1.2	U		<0.53	U		<0.68	U		<5.4	U		
		VMP-7-13.5	11/9/2009	<0.032	U		<0.088	U		<0.044	U		<0.038	U		<0.061	U		<0.026	U		<0.034	U		<0.26	U		
		VMP-7-13.5-082610	8/26/2010	<0.1	U		<0.28	U		<0.14	U		<0.12	U		<0.2	U		<0.085	U		<0.11	U		<0.86	U		
		VMP-7-13.5-111910	11/19/2010	<0.73	U		<2	U		<0.99	U		<0.86	U		<1.4	U		<0.59	U		<0.76	U		<6	U		
		VMP-7-13.5-020711	2/7/2011	<0.0044	U		0.0086	J		<0.0061	U		<0.0053	U		<0.0084	U		<0.0036	U		<0.0046	U		<0.037	J	U	
	29.5 ft	VMP-7-13.5-040711	4/7/2011	<0.0078	U		<0.021	U		<0.011	U		<0.0092	U		<0.015	U		<0.0064	U		0.0016	J		<0.064	U		
		VMP-7-13.5-080311	8/3/2011	<0.87	U		<2.4	U		<1.2	U		<1	U		<1.6	U		<0.71	U		<0.91	U		<7.2	U		
		VMP-7-29.5	11/9/2009	<0.69	U		<1.9	U		6.5		J	<0.81	U		<1.3	U		<0.56	U		1.1		J	<5.7	U	UJ	
		VMP-7-29.5-083110	8/31/2010	<1.5	U		<4	U		5		J	<1.8	U		<2.8	U		<1.2	U		1	J	J	<12	U		
		VMP-7-29.5-111910	11/19/2010	<2.2	U		<6.1	U		3.9		J	<2.6	U		<4.2	U		<1.8	U		<2.3	U		<18	U		
	38 ft	VMP-7-29.5-020711	2/7/2011	<2.3	U		<6.3	U		9.8			<2.7	U		<4.4	U		<1.9	U		<2.4	U		<19	U		
		VMP-7-29.5-040711	4/7/2011	<0.56	U		<1.5	U		2.5		J	<0.67	U		<1.1	U		<0.46	U		<0.59	U		<4.6	U		
		VMP-7-29.5-080311	8/3/2011	<1.3	U		<3.6	U		1.1	J		<1.6	U		<2.5	U		<1.1	U		<1.4	U		<11	U		
		VMP-7-38	11/9/2009	<0.24	U		<0.65	U		3.5		J	<0.28	U		<0.45	U		<0.19	U		0.55		J	<2	U	UJ	
		VMP-7-38-020711	2/7/2011	<3.1	U		<8.5	U		4.6			<3.7	U		<5.9	U		<2.6	U		<3.2	U		<26	U		
	VMP-8	5 ft	VMP-7-38-040711	4/7/2011	<0.79	U		<2.2	U		0.43	J	J	<0.94	U		<1.5	U		<0.65	U		<0.83	U		<6.5	U	
			VMP-8-5	11/10/2009	<0.004	U		<0.011	U		<0.005	U		<0.005	U		<0.007	U		<0.003	U		<0.004	U		<0.034	U	
			VMP-8-5-083010	8/30/2010	0.00052	J		0.013	J		<0.0066	U		<0.0057	U		0.0048	J		<0.004	U		0.0011	J		0.015	J	
			VMP-8-5-111810	11/17/2010	0.00055	J		0.0026	J		<0.0057	U		0.0024	J		0.0026	J		<0.0034	U		0.00096	J		<0.034	U	
			VMP-8-5-021011	2/10/2011	<0.0044	U		0.008	J		<0.0061	U		<0.0053	U		<0.0084	U		<0.0036	U		<0.0046	U		<0.037	U	
9.5 ft		VMP-8-5-040711	4/7/2011	<0.005	U		<0.014	U		<0.0068	U		<0.0059	U		<0.0094	J	U	<0.0041	U		0.0016	J		<0.041	J	U	
		VMP-8-5-072711	7/27/2011	<0.0053	U		0.075			0.00084	J		0.0015	J		0.0028	J		<0.0044	U		0.023			<0.044	U		
		VMP-8-9.5	11/10/2009	<0.004	U		<0.011	U		<0.005	U		<0.004	U		<0.007	U		<0.003	U		<0.004	U		<0.033	U		
		VMP-8-9.5-083010	8/30/2010	0.00039	J		0.029			<0.0059	U		<0.0052	U		0.0045	J		<0.0036	U		0.0033	J		0.01	J		
		VMP-8-9.5-083010-Dup	8/30/2010	<0.0044	U		0.0068	J		<0.0061	U		0.0011	J		0.0043	J		<0.0036	U		0.0007	J		<0.037	U		
23.5 ft		VMP-8-9.5-111810	11/17/2010	0.00054	J		0.0073	J		<0.0059	U		0.0018	J		0.0098			<0.0036	U		0.001	J		<0.036	U		
		VMP-8-9.5-021011	2/10/2011	<0.0045	U		0.0036	J		<0.0062	U		<0.0054	U		0.0042	J		<0.0037	U		0.0011	J		<0.037	U		
		VMP-8-9.5-040711	4/7/2011	<0.005	U		0.0043	J		<0.0068	U		<0.0059	U		0.0046	J		<0.0041	U		0.0012	J		<0.041	U		
		VMP-8-9.5-072711	7/27/2011	<0.0038	U		0.04			0.00094	J		0.0022	J		0.0025	J		<0.0031	U		0.02			<0.032	U		
		VMP-8-23.5	11/10/2009	<0.004	U		<0.012	U		<0.005	U		<0.005	U		<0.008	U		<0.003	U		<0.004	U		<0.035	U		
38.5 ft		VMP-8-23.5-083010	8/30/2010	0.00037	J		0.0046	J		<0.0065	U		<0.0056	U		0.0038	J		<0.0039	U		0.00063	J		<0.039	U		
		VMP-8-23.5-111910	11/19/2010	<0.0045	U		0.0063	J		<0.0062	U		0.0024	J		0.0041	J		<0.0037	U		0.0013	J		<0.037	U		
		VMP-8-23.5-021011	2/10/2011	<0.0048	U		0.0076	J		<0.0066	U		<0.0057	U		0.0041	J		<0.004	U		<0.0051	U		<0.04	U		
		VMP-8-23.5-040711	4/7/2011	<0.0045	U		<0.012	U		<0.0062	U		<0.0054	U		0.0045	J		<0.0037	U		0.0015	J		0.002	J		
		VMP-8-23.5-040711-Dup	4/7/2011	0.00068	J		<0.02	U		<0.0098	U		<0.0085	U		0.0052	J		<0.0059	U		0.0014	J		0.0048	J		
VMP-9		5 ft	VMP-8-23.5-081011	8/10/2011	<0.0048	U		0.025			<0.0065	J	U	0.0012	J		0.0022	J		<0.0039	U		0.015			<0.039	J	U
			VMP-9-5	11/11/2009	<0.004	U		<0.011	U		<0.005	U		<0.004	U		<0.007	U		<0.003	U		<0.004	U		<0.033	U	
			VMP-9-5-082610	8/26/2010	<0.0041	U		0.012			<0.0056	U		<0.0048	U		0.0023	J		<0.0034	U		0.0036	J		<0.034	U	
			VMP-9-5-111910	11/19/2010	<0.0043	U																						

See last page of table for notes.

TABLE 3 ANALYTICAL DETECTIONS AND SCREENING RESULTS																											
Location	Depth	Sample ID	Sample Date	1,1,1-Trichloroethane (Methyl chloroform)			1,1,2-Trichloroethane			CUMULATIVE SUMMARY OF SOIL			VAPOR ANALYTICAL DETECTIONS AND SCREENING			Ethylbenzene			2,2,4-Trimethylpentane			m,p-Xylene			o-Xylenes		
				Result (mg/m ³)	Lab Qualifier	URS Qualifier	Result (mg/m ³)	Lab Qualifier	URS Qualifier	Result (mg/m ³)	Lab Qualifier	URS Qualifier	Result (mg/m ³)	Lab Qualifier	URS Qualifier	Result (mg/m ³)	Lab Qualifier	URS Qualifier	Result (mg/m ³)	Lab Qualifier	URS Qualifier	Result (mg/m ³)	Lab Qualifier	URS Qualifier	Result (mg/m ³)	Lab Qualifier	URS Qualifier
VMP-7	5 ft	VMP-7-5	11/9/2009	<0.006	U		<0.006	U		<0.006	U		<0.006	U		<0.005	U		<0.005	U		0.0079			<0.005	U	
		VMP-7-5-082610	8/26/2010	<0.0072	U		<0.0072	U		<0.0071	U		0.0016	J		<0.0065	U		<0.0065	U		0.00071	J		<0.0057	U	
		VMP-7-5-111910	11/19/2010	<0.0065	U		<0.0065	U		0.0036	J		<0.0067	U		<0.0058	U		<0.0058	U		<0.0052	U		<0.0052	U	
		VMP-7-5-020711	2/7/2011	<0.007	U		<0.007	U		0.0039	J		0.0018	J		<0.0063	U		<0.0063	U		0.00082	J		<0.0056	U	
		VMP-7-5-040711	4/7/2011	<0.0099	U		<0.0099	U		0.0032	J		<0.01	U		<0.0089	U		<0.0089	U		<0.0079	U		<0.0079	U	
	13.5 ft	VMP-7-5-080211	8/2/2011	<0.98	U		<0.98	U		<0.97	U		<1	U		<0.89	U		<0.89	U		710			<0.78	U	
		VMP-7-13.5	11/9/2009	<0.049	U		<0.049	U		<0.048	U		<0.05	U		<0.044	U		<0.044	U		22	E	J	<0.039	U	
		VMP-7-13.5-082610	8/26/2010	<0.16	U		<0.16	U		<0.16	U		<0.14	U		<0.14	U		<0.14	U		240	E	J	<0.12	U	
		VMP-7-13.5-111910	11/19/2010	<1.1	U		<1.1	U		1.9		J	<1.1	U		<0.99	U		<0.99	U		450			<0.87	U	
		VMP-7-13.5-020711	2/7/2011	<0.0067	U		<0.0067	U		0.0023	J		<0.0069	U		<0.0061	U		<0.0061	U		0.034			<0.0054	U	
	29.5 ft	VMP-7-13.5-040711	4/7/2011	<0.012	U		<0.012	U		0.0038	J		<0.012	U		<0.011	U		<0.011	U		0.017			<0.0094	U	
		VMP-7-13.5-080311	8/3/2011	<1.3	U		<1.3	U		<1.3	U		<1.4	U		<1.2	U		<1.2	U		610			<1	U	
		VMP-7-29.5	11/9/2009	<1	U		<1	U		<1	U		<1.1	U		<0.94	U		<0.94	U		1200	E	J	2.2		J
		VMP-7-29.5-083110	8/31/2010	<2.2	U		<2.2	U		<2.2	U		<2.3	U		<2	U		<2	U		1300		J	1.6	J	J
		VMP-7-29.5-111910	11/19/2010	<3.4	U		<3.4	U		<3.3	U		<3.5	U		<3	U		<3	U		1100		J	0.91	J	J
	38 ft	VMP-7-29.5-020711	2/7/2011	<3.5	U		<3.5	U		<3.5	U		<3.6	U		<3.2	U		<3.2	U		1100			1.8	J	
		VMP-7-29.5-040711	4/7/2011	<0.85	U		<0.85	U		<0.84	U		<0.88	U		<0.77	U		<0.77	U		550		J	0.77		J
		VMP-7-29.5-080311	8/3/2011	<2	U		<2	U		<2	U		<2.1	U		<1.8	U		<1.8	U		950			0.36	J	
		VMP-7-38	11/9/2009	<0.36	U		<0.36	U		<0.35	U		<0.37	U		<0.32	U		<0.32	U		410	E	J	1		J
		VMP-7-38-020711	2/7/2011	<4.7	U		<4.7	U		<4.6	U		<4.9	U		<4.2	U		<4.2	U		920			1.1	J	
VMP-8	5 ft	VMP-8-5	11/10/2009	<0.006	U		<0.006	U		<0.006	U		<0.006	U		<0.005	U		<0.005	U		0.031			<0.005	U	
		VMP-8-5-083010	8/30/2010	0.00087	J		0.0009	J		0.0027	J		0.0013	J		0.0015	J		<0.0066	U		0.011			0.0014	J	
		VMP-8-5-111810	11/17/2010	0.0009	J		<0.0064	U		<0.0063	J	U	0.0013	J		<0.0057	J	U	<0.0057	U		0.00032	J		<0.005	J	U
		VMP-8-5-021011	2/10/2011	<0.0067	U		<0.0067	U		<0.0066	U		<0.0069	U		<0.0061	U		<0.0061	U		0.027			<0.0054	U	
		VMP-8-5-040711	4/7/2011	<0.0075	U		<0.0075	U		0.003	J		<0.0011	J		<0.0068	U		<0.0068	U		0.003	J		0.0018	J	
	9.5 ft	VMP-8-5-072711	7/27/2011	<0.0081	U		<0.0081	U		<0.008	U		<0.0083	U		0.004	J		0.0013	J		0.011			0.0064		J
		VMP-8-9.5	11/10/2009	<0.006	U		<0.006	U		<0.006	U		<0.006	U		<0.005	U		<0.005	U		<0.005	U		<0.004	U	
		VMP-8-9.5-083010	8/30/2010	<0.0066	U		0.00075	J		0.0027	J		0.0014	J		0.00098	J		<0.0059	U		0.0024	J		0.0013	J	
		VMP-8-9.5-083010-Dup	8/30/2010	0.00072	J		0.00084	J		0.0019	J		0.0017	J		0.00079	J		<0.0061	U		0.0016	J		<0.0054	U	
		VMP-8-9.5-111810	11/17/2010	0.0015	J		<0.0066	U		<0.0065	J	U	0.0011	J		<0.0059	U		<0.0059	U		0.0034	J		<0.0052	U	
	23.5 ft	VMP-8-9.5-021011	2/10/2011	<0.0069	U		<0.0069	U		<0.0068	U		0.0013	J		<0.0062	U		<0.0062	U		0.0077			<0.0055	U	
		VMP-8-9.5-040711	4/7/2011	<0.0075	U		<0.0075	U		0.0036	J		<0.0078	U		<0.0068	U		<0.0068	U		0.0028	J		0.00063	J	
		VMP-8-9.5-072711	7/27/2011	<0.0058	U		<0.0058	U		<0.0057	U		0.0014	J		0.0035	J		0.0011	J		0.0083			0.0079		J
		VMP-8-23.5	11/10/2009	<0.006	U		<0.006	U		<0.006	U		<0.006	U		<0.005	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-8-23.5-083010	8/30/2010	0.00084	J		0.001	J		0.002	J		0.0017	J		<0.0065	U		<0.0065	U		0.0073			<0.0057	U	
VMP-9	5 ft	VMP-8-23.5-111910	11/19/2010	<0.0069	U		<0.0069	U		0.0064	J		<0.0071	U		<0.0062	U		<0.0062	U		0.0061			0.001	J	
		VMP-8-23.5-021011	2/10/2011	<0.0073	U		<0.0073	U		<0.0072	U		0.0013	J		<0.0066	U		<0.0066	U		0.018			<0.0058	U	
		VMP-8-23.5-040711	4/7/2011	<0.0069	U		<0.0069	U		0.003	J		0.00098	J		<0.0062	U		<0.0062	U		0.0023	J		0.0012	J	
		VMP-8-23.5-040711-Dup	4/7/2011	<0.011	U		0.0025	J		0.006	J		<0.011	U		<0.0098	U		<0.0098	U		0.0018	J		0.001	J	
		VMP-8-23.5-081011	8/10/2011	<0.0072	U		<0.0072	U		<0.0071	U		0.0014	J		<0.0024	J		<0.0065	J	U	0.031			0.0055	J	
	11.5 ft	VMP-9-5	11/11/2009	<0.006	U		<0.006	U		<0.006	U		<0.006	U		<0.005	U		<0.005	U		<0.005	U		<0.004	U	
		VMP-9-5-082610	8/26/2010	<0.0062	U		<0.0062	U		<0.0061	U		<0.0064	U		<0.0056	U		<0.0056	U		0.029			0.0013	J	
		VMP-9-5-111910	11/19/2010	<0.0065	U		<0.0065	U		0.0037	J		<0.0067	U		<0.0058	U		<0.0058	U		0.0075			<0.0052	U	
		VMP-9-5-020811	2/8/2011	<0.006	U		<0.006	U		0.0014	J		0.0011	J		<0.0054	U		<0.0054	U		0.002	J		<0.0048	U	
		VMP-9-5-040611	4/6/2011	<0.016	U		<0.016	U		0.0077	J		<0.017	U		<0.015	U		<0.015	U		0.022			<0.013	U	
	25.5 ft	VMP-9-5-080211	8/2/2011	<0.32	U		<0.32	U		<0.32	U		<0.33	U		<0.29	U		<0.29	U		150			<0.26	U	
		VMP-9-11.5	11/11/2009	<0.007	U		<0.007	U		<0.007	U		<0.007	U		<0.006	U		<0.006	U		<0.006	U		<0.006	U	
		VMP-9-11.5-082610	8/26/2010	<0.14	U		<0.14	U		<0.14	U		<0.14	U		<0.13	U		<0.13	U		98			<0.11	U	
		VMP-9-11.5-111910	11/19/2010	<0.41	U		<0.41	U		0.37	J		<0.42	U		<0.37	U		<0.37	U		150			<0.32	U	
		VMP-9-11.5-020911	2/9/2011	<0.0073	U		<0.0073	U		<0.0072	U		<0.0076	U		<0.0066	U		<0.0066	U		0.0073			<0.0058	U	
	38.5 ft	VMP-9-11.5-020911-Dup	2/9/2011	<0.0057	U		<0.0057	U		<0.0056	U		<0.0059	U		<0.0051	U		<0.0051	U		0.0074			<0.0045	U	

See last page of table for notes.

TABLE 3 ANALYTICAL DETECTIONS AND SCREENING RESULTS																											
Location	Depth	Sample ID	Sample Date	Acetone			Benzene			CUMULATIVE SUMMARY OF RESULTS			PROPANE			BUTANE			2-Butanone			Carbon disulfide					
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier			
VMP-19	5 ft	VMP-19-5	6/18/2010	0.042			0.02			<0.009	U		<0.005	U		<0.003	U				0.0054			<0.004	J	U	
		VMP-19-5-090110	9/1/2010	0.044			0.019			<0.0086	U		<0.005	U		<0.0028	U				0.013			<0.004	J	U	
		VMP-19-5-111510	11/15/2010	0.02			0.0092			<0.0092	U		<0.0054	J	U	<0.003	U				0.0013	J		<0.0013	J		
		VMP-19-5-020411	2/4/2011	0.0091	J		0.015			<0.0081	U		<0.0047	U		<0.0027	U				<0.0036	U		<0.0038	J	U	
		VMP-19-5-040711	4/7/2011	0.01	J		0.76			<0.009	U		<0.0052	U		<0.003	U		0.0052	J		0.0017	J		0.0013	J	
		VMP-19-5-080911	8/9/2011	0.07		J	0.48			<0.0099	U		<0.0057	U		<0.0033	U		0.068		J	0.017	J		<0.018	J	U
		VMP-19-5-080911-Dup	8/9/2011	0.054		J	0.41			<0.0094	U		<0.0055	U		<0.0031	U		0.043		J	0.018			<0.018	J	U
VMP-20	5 ft	VMP-20-5-031411	3/14/2011	0.032			0.27			<0.0081	U		<0.0047	U		<0.0027	U				0.0026	J		0.1			
		VMP-20-5-041511	4/15/2011	0.019	J		0.037	J		<0.089	U		<0.052	U		<0.029	U		17			<0.16	U		0.024	J	
		VMP-20-5-072511	7/25/2011	0.036			0.038			<0.0094	U		<0.0055	U		<0.0031	U		<0.013	U		0.016			0.011	J	
	10 ft	VMP-20-10-031411	3/14/2011	0.021			0.21			0.0023	J		<0.0047	U		<0.0027	U				0.0035	J		0.0041	J		
		VMP-20-10-041511	4/15/2011	0.015	J		0.046			<0.081	U		<0.047	U		<0.027	U		1.1			<0.14	U		<0.038	U	
		VMP-20-10-072511	7/25/2011	0.022			0.015			0.0015	J		<0.005	U		<0.0028	U		<0.012	U		0.018			<0.016	J	U
	25 ft	VMP-20-25-031411	3/14/2011	0.01	J		0.35			<0.008	U		<0.0046	U		<0.0026	U				0.0011	J		<0.015	J	U	
		VMP-20-25-041511	4/15/2011	<0.13	U		<0.044	U		<0.092	U		<0.054	U		<0.03	U		0.58			<0.16	U		<0.043	U	
VMP-21	5 ft	VMP-21-5-020911	2/9/2011	<4.4	U		<1.5	U		<3.1	U		<1.8	U		<1	U				<1.4	U		<1.4	U		
		VMP-21-5-020911-Dup	2/9/2011	<7.6	U		<2.5	U		<5.3	U		<3.1	U		<1.8	U				<2.3	U		<2.5	U		
		VMP-21-5-041311	4/13/2011	0.0092	J		0.84			<0.0088	U		<0.0051	U		<0.0029	U		0.41			0.0021	J		0.0064	J	
		VMP-21-5-072511	7/25/2011	0.029			0.019			<0.0092	U		<0.0054	U		<0.003	U		<0.013	U		0.02			<0.017	J	U
	10 ft	VMP-21-10-021011	2/10/2011	<4	U		<1.3	U		<2.8	U		<1.6	U		<0.93	U				<1.2	U		<1.3	U		
		VMP-21-10-041311	4/13/2011	0.14	J		0.066	J		<0.36	U		<0.2	U		<0.12	U		7.6			0.046	J		0.065	J	
		VMP-21-10-072511	7/25/2011	0.083			0.012			<0.02	U		<0.011	J	U	<0.0065	U		<0.028	U		0.01	J		<0.036	J	U
	25 ft	VMP-21-25-021011	2/10/2011	<11	U		1.7	J		<7.8	U		<4.5	U		<2.6	U				<3.4	U		<3.6	U		
		VMP-21-25-041411	4/14/2011	12	J		<13	U		<27	U		<16	U		<9	U		5400			<48	U		<13	U	
		VMP-21-25-041411-Dup	4/14/2011	5.2	J		<13	U		<27	U		<16	U		<9	U		5400			<48	U		<13	U	
	33 ft	VMP-21-25-072611	7/26/2011	<12	U		1.3	J		<8.8	U		<5.1	U		<2.9	U				<16	U		<4.1	U		
		VMP-21-33-021011	2/10/2011	<11	U		1.8	J		<7.8	U		<4.5	U		<2.6	U				<3.4	U		<3.6	U		
		VMP-21-33-041411	4/14/2011	8.8	J		<12	U		<26	U		<15	U		<8.7	U		5200			<46	U		<12	U	
VMP-22	5 ft	VMP-22-5-021111	2/11/2011	<0.24	U		0.029	J		<0.17	U		<0.1	U		<0.057	U				<0.076	U		<0.08	U		
		VMP-22-5-041811	4/18/2011	<0.12	U		0.024	J		<0.084	U		<0.049	U		<0.028	U		0.17			<0.15	U		<0.039	U	
		VMP-22-5-072611	7/26/2011	0.026			0.12			<0.0099	U		<0.0057	J	U	<0.0033	U		0.22			0.017	J		<0.018	J	U
	10 ft	VMP-22-10-021111	2/11/2011	<0.12	U		0.021	J		<0.082	U		<0.047	U		<0.027	U				<0.036	U		<0.038	U		
		VMP-22-10-041811	4/18/2011	<0.12	U		0.12			<0.087	U		<0.051	U		<0.029	U		0.086	J		<0.15	U		<0.041	U	
		VMP-22-10-072611	7/26/2011	0.015		J	0.03			<0.01	U		<0.0059	J	U	<0.0034	U		0.018		J	0.011	J		<0.019	J	U
	18 ft	VMP-22-10-072611-Dup	7/26/2011	0.052		J	0.03			<0.012	U		<0.0069	U		<0.0039	U		0.059		J	0.023			<0.022	J	U
		VMP-22-18-021111	2/11/2011	<2	U		0.67	J		<1.4	U		<0.82	U		<0.47	U				<0.63	U		<0.66	U		
		VMP-22-18-041811	4/18/2011	1.1	J		1	J		<6	U		<3.5	U		<2	U		620			<11	U		<2.8	U	
VMP-23	5 ft	VMP-22-18-072611	7/26/2011	<4.4	U		0.42	J		<3.1	U		<1.8	U		<1	U		470			<5.4	U		<1.4	U	
		VMP-22-38-041811	4/18/2011	<26	U		<8.8	U		<18	U		<11	U		<6.1	U		3900			<32	U		<8.6	U	
		VMP-23-5-021511	2/15/2011	0.01	J		0.023			<0.0088	U		<0.0051	U		<0.0029	U					0.0012	J		<0.0041	J	U
	10 ft	VMP-23-5-042111	4/21/2011	0.024	J		<0.036	U		<0.077	U		<0.044	U		<0.025	U		<0.11	U		<0.14	U		<0.036	U	
		VMP-23-5-072711	7/27/2011	0.062			0.18			<0.0088	U		<0.0051	U		<0.0029	U		0.024			0.072			0.0032	J	
		VMP-23-10-021511	2/15/2011	0.009	J		0.0014	J		<0.0023	J		<0.0053	U		<0.003	U				<0.004	U		<0.0042	U		
	25 ft	VMP-23-10-042111	4/21/2011	<0.13	U		0.28			<0.092	U		<0.054	U		<0.03	U		1.7			<0.16	U		<0.043	U	
		VMP-23-10-072711	7/27/2011	<0.012	U		<0.004	U		<0.0084	U		<0.0049	U		<0.0028	U		<0.012	U		<0.015	U		<0.016	U	
		VMP-23-25-021511	2/15/2011	0.011	J		0.018			<0.0084	U		<0.0049	U		<0.0028	U				<0.0037	U		<0.0039	U		
		VMP-23-25-042111	4/21/2011	0.035	J		1.6			<0.086	U		<0.05	U		<0.028	U		8.2			<0.15	U		<0.04	U	
VMP-24	5 ft	VMP-23-25-072711	7/27/2011	0.05			0.15			<0.0097	U		<0.0056	U		<0.0032	U		<0.014								

See last page of table for notes.

TABLE 3 ANALYTICAL DETECTIONS AND SCREENING RESULTS																											
Location	Depth	Sample ID	Sample Date	Carbon tetrachloride			Chlorobenzene CUMULATIVE SUMMARY OF SOIL			VAPOR SUMMARY OF SOIL			METHANE			alpha-Chlorotoluene			Cyclohexane								
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier						
VMP-19	5 ft	VMP-19-5	6/18/2010	<0.008	U		<0.006	U		<0.012	U		<0.003	U		0.00085	J		<0.011	U		<0.007	U		0.0025	J	
		VMP-19-5-090110	9/1/2010	<0.0081	U		<0.0059	J	U	<0.011	U		<0.0034	U		0.00094	J		<0.011	U		<0.0067	U		0.049		
		VMP-19-5-111510	11/15/2010	<0.0087	U		<0.0064	U		<0.012	U		<0.0036	U		<0.0067	U		<0.011	U		<0.0071	U		0.0012	J	
		VMP-19-5-020411	2/4/2011	<0.0076	U		<0.0056	U		<0.01	U		<0.0032	U		<0.0059	U		<0.01	U		<0.0063	J	U	0.0065		
		VMP-19-5-040711	4/7/2011	<0.0085	U		0.00072	J		<0.012	U		<0.014	U		<0.0066	U		<0.011	U		<0.007	U		0.0043	J	
		VMP-19-5-080911	8/9/2011	<0.0093	U		<0.0068	J	U	<0.013	U		<0.016	U		<0.0072	U		<0.012	U		<0.0077	J	U	0.05		J
		VMP-19-5-080911-Dup	8/9/2011	<0.0089	U		<0.0065	J	U	<0.012	U		<0.015	U		<0.0069	U		<0.012	U		<0.0073	J	U	0.035		J
VMP-20	5 ft	VMP-20-5-031411	3/14/2011	<0.0076	U		0.038			<0.01	U		<0.013	U		0.031			<0.01	U		<0.0063	U		0.052		
		VMP-20-5-041511	4/15/2011	<0.084	U		<0.061	U		<0.11	U		<0.14	U		<0.065	U		<0.11	U		<0.069	U		1.2		
		VMP-20-5-072511	7/25/2011	<0.0089	U		<0.0065	U		<0.012	U		<0.015	U		0.0012	J		0.0036	J		<0.0073	U	UJ	<0.0048	U	
	10 ft	VMP-20-10-031411	3/14/2011	<0.0076	U		<0.0056	U		<0.01	U		<0.013	U		0.0049	J		<0.01	U		<0.0063	U		0.0041		
		VMP-20-10-041511	4/15/2011	<0.076	U		<0.056	U		<0.1	U		<0.13	U		<0.059	U		<0.1	U		<0.063	U		0.27		
		VMP-20-10-072511	7/25/2011	<0.0081	U		0.00079	J		<0.011	U		<0.014	U		0.0033	J		<0.011	U		<0.0067	U	UJ	<0.0044	U	
	25 ft	VMP-20-25-031411	3/14/2011	<0.0075	U		<0.0055	U		<0.01	U		<0.013	U		<0.0058	U		<0.0099	U		<0.0062	U		0.0019	J	
		VMP-20-25-041511	4/15/2011	<0.087	U		<0.064	U		<0.12	U		<0.14	U		<0.067	U		<0.11	U		<0.071	U		0.23		
	VMP-20-25-072611	7/26/2011	<0.58	U		<0.42	U		<0.78	U		<0.97	U		<0.45	U		<0.76	U		<0.48	U	UJ	<0.32	U		
VMP-21	5 ft	VMP-21-5-020911	2/9/2011	<2.9	U		<2.1	U		<4	U		<1.2	U		<2.3	U		<3.8	U		<2.4	U		94		
		VMP-21-5-020911-Dup	2/9/2011	<5	U		<3.6	U		<6.8	U		<2.1	U		<3.9	U		<6.6	U		<4.1	U		77		
		VMP-21-5-041311	4/13/2011	<0.0083	U		<0.0061	J	U	<0.011	U		<0.014	U		<0.0064	U		<0.011	U		0.001	J		0.4		
	10 ft	VMP-21-5-072511	7/25/2011	<0.0087	U		<0.0064	J	U	<0.012	U		<0.014	U		<0.0067	U		<0.011	U		<0.0071	U	UJ	<0.0048	U	
		VMP-21-10-021011	2/10/2011	<2.6	U		<1.9	U		<3.6	U		<1.1	U		<2	U		<3.5	U		<2.2	U		72		
		VMP-21-10-041311	4/13/2011	<0.33	U		<0.24	U		<0.45	U		<0.56	U		<0.26	U		<0.44	U		<0.27	U		0.5		
	25 ft	VMP-21-10-072511	7/25/2011	<0.018	U		<0.013	J	U	<0.025	U		<0.031	U		<0.014	U		<0.024	U		<0.015	U	UJ	<0.01	U	
		VMP-21-25-021011	2/10/2011	<7.3	U		<5.4	U		<9.9	U		<3.1	U		<5.7	U		<9.6	U		<6	U		370		
		VMP-21-25-041411	4/14/2011	<26	U		<19	U		<35	U		<43	U		<20	U		<34	U		<21	U		300		
	33 ft	VMP-21-25-041411-Dup	4/14/2011	<26	U		<19	U		<35	U		<43	U		<20	U		<34	U		<21	U		300		
		VMP-21-25-072611	7/26/2011	<8.3	U		<6.1	U		<11	U		<14	U		<6.4	U		<11	U		<6.8	U	UJ	290		
		VMP-21-33-021011	2/10/2011	<7.3	U		<5.4	U		<9.9	U		<3.1	U		<5.7	U		<9.6	U		<6	U		410		
	VMP-21-33-041411	4/14/2011	<25	U		<18	U		<34	U		<42	U		<19	U		<32	U		<20	U		290			
VMP-22	5 ft	VMP-22-5-021111	2/11/2011	<0.16	U		<0.12	U		<0.22	U		<0.068	U		<0.12	U		<0.21	U		<0.13	U		<0.088	U	
		VMP-22-5-041811	4/18/2011	<0.079	U		<0.058	U		<0.11	U		<0.13	U		<0.062	U		<0.1	U		<0.065	U		<0.043	U	
		VMP-22-5-072611	7/26/2011	<0.0093	U		<0.0068	J	U	<0.013	U		<0.016	U		<0.0072	U		<0.012	U		<0.0077	U	UJ	0.021		
	10 ft	VMP-22-10-021111	2/11/2011	<0.077	U		<0.056	U		<0.1	U		<0.032	U		<0.06	U		<0.1	U		<0.063	U		0.19		
		VMP-22-10-041811	4/18/2011	<0.082	U		<0.06	U		<0.11	U		<0.14	U		<0.064	U		<0.11	U		<0.068	U		<0.045	U	
		VMP-22-10-072611	7/26/2011	<0.0095	U		<0.007	J	U	<0.013	U		<0.016	U		0.012			<0.012	U		<0.0078	U	UJ	0.0046	J	
		VMP-22-10-072611-Dup	7/26/2011	<0.011	U		<0.0082	J	U	<0.015	U		<0.019	U		0.012			<0.015	U		<0.0092	U	UJ	0.0063		
	18 ft	VMP-22-18-021111	2/11/2011	<1.3	U		<0.98	U		<1.8	U		<0.56	U		<1	U		<1.8	U		<1.1	U		65		
		VMP-22-18-041811	4/18/2011	<5.7	U		<4.1	U		<7.7	U		<9.5	U		<4.4	U		<7.4	U		<4.6	U		58		
38 ft	VMP-22-18-072611	7/26/2011	<2.9	U		<2.1	U		<3.9	U		<4.8	U		<2.2	U		<3.8	U		<2.4	U	UJ	39			
	VMP-22-38-041811	4/18/2011	<17	U		<13	U		<24	U		<29	U		<13	U		<23	U		<14	U		240			
VMP-23	5 ft	VMP-23-5-021511	2/15/2011	<0.0083	U		<0.0061	U		<0.011	U		<0.0035	U		0.0013	J		<0.011	U		<0.0068	U		0.0054		
		VMP-23-5-042111	4/21/2011	<0.072	U		<0.053	U		<0.098	U		<0.12	U		<0.056	U		<0.094	U		<0.059	U		<0.039	U	
		VMP-23-5-072711	7/27/2011	<0.0083	U		<0.0061	U		<0.011	U		<0.014	U		<0.0064	U		<0.011	U		<0.0068	U		0.0068		
	10 ft	VMP-23-10-021511	2/15/2011	<0.0086	U		<0.0063	J	U	<0.012	U		<0.0036	U		0.0015	J		<0.011	U		0.0012	J		0.0044	J	
		VMP-23-10-042111	4/21/2011	<0.087	U		<0.064	U		<0.12	U		<0.14	U		<0.067	U		<0.11	U		<0.071	U		0.94		
		VMP-23-10-072711	7/27/2011	<0.0079																							

See last page of table for notes.

TABLE 3 VILLAGE OF VOGES ENVIRONMENTAL DETECTION AND SCREENING RESULTS																										
Location	Depth	Sample ID	Sample Date	1,2-Dibromoethane			1,2-Dichlorobenzene			CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTION AND SCREENING RESULTS			1,1-Dibromoethane			1,1-Dichloroethene			cis-1,2-Dichloroethene							
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier		
VMP-19	5 ft	VMP-19-5	6/18/2010	<0.01	U		<0.008	U		<0.008	U		<0.008	U		<0.005	U		<0.005	U		<0.005	U			
		VMP-19-5-090110	9/1/2010	<0.0099	U		0.0019	J	U	<0.0078	J	U	<0.0078	J	U	<0.0052	U		<0.0051	U		<0.0051	U			
		VMP-19-5-111510	11/15/2010	<0.011	U		<0.0083	U		<0.0083	U		<0.0083	U		<0.0056	U		<0.0055	U		<0.0055	U			
		VMP-19-5-020411	2/4/2011	<0.0093	J	U	<0.0073	J	U	<0.0073	J	U	<0.0073	J	U	<0.0049	U		0.0009	J		<0.0048	U			
		VMP-19-5-040711	4/7/2011	0.0012	J		0.00068	J		<0.0081	U		0.00088	J		<0.0055	U		<0.0055	U		<0.0054	U			
		VMP-19-5-080911	8/9/2011	<0.011	J	U	<0.0089	J	U	<0.0089	J	U	<0.0089	J	U	<0.006	U		<0.006	J	U	<0.0059	U			
VMP-19-5-080911-Dup	8/9/2011	<0.011	J	U	<0.0085	J	U	<0.0085	J	U	<0.0085	J	U	<0.0057	U		<0.0057	J	U	<0.0056	U					
VMP-20	5 ft	VMP-20-5-031411	3/14/2011	<0.0093	U		<0.0073	U		<0.0073	U		<0.0073	U		<0.0049	U		<0.0049	U		<0.0048	U			
		VMP-20-5-041511	4/15/2011	<0.1	U		<0.08	U		<0.08	U		<0.08	U		<0.054	U		<0.054	U		<0.053	U			
		VMP-20-5-072511	7/25/2011	<0.011	J	U	<0.0085	U		0.0013	J		<0.0085	J	U	<0.0057	U		<0.0057	U		<0.0056	U			
	10 ft	VMP-20-10-031411	3/14/2011	<0.0093	U		<0.0073	U		<0.0073	U		<0.0073	U		<0.0049	U		<0.0049	U		<0.0048	U			
		VMP-20-10-041511	4/15/2011	<0.093	U		<0.073	U		<0.073	U		<0.073	U		<0.049	U		<0.049	U		<0.048	U			
		VMP-20-10-072511	7/25/2011	<0.0099	U		0.0014	J		0.0019	J		0.0018	J		<0.0052	U		<0.0052	U		<0.0051	U			
	25 ft	VMP-20-25-031411	3/14/2011	<0.0092	U		<0.0072	U		<0.0072	U		<0.0072	U		<0.0048	U		<0.0048	U		<0.0047	U			
		VMP-20-25-041511	4/15/2011	<0.11	U		<0.083	U		<0.083	U		<0.083	U		<0.056	U		<0.056	U		<0.055	U			
VMP-20-25-072611	7/26/2011	<0.71	U		<0.55	U		<0.55	U		<0.55	U		<0.37	U		<0.37	U		<0.36	U					
VMP-21	5 ft	VMP-21-5-020911	2/9/2011	<3.6	U		<2.8	U		<2.8	U		<2.8	U		<1.9	U		<1.9	U		<1.8	U			
		VMP-21-5-020911-Dup	2/9/2011	<6.1	U		<4.8	U		<4.8	U		<4.8	U		<3.2	U		<3.2	U		<3.2	U			
		VMP-21-5-041311	4/13/2011	<0.01	U		<0.0079	U		<0.0079	U		<0.0079	J	U	<0.0053	U		<0.0053	U		<0.0052	U			
	10 ft	VMP-21-5-072511	7/25/2011	<0.011	U		<0.0083	U		0.0013	J	U	<0.0083	J	U	<0.0056	U		<0.0056	U		<0.0055	U			
		VMP-21-10-021011	2/10/2011	<3.2	U		<2.5	U		<2.5	U		<2.5	U		<1.7	U		<1.7	U		<1.7	U			
		VMP-21-10-041311	4/13/2011	<0.41	U		<0.32	U		<0.32	U		<0.32	U		<0.21	U		<0.21	U		<0.21	U			
	VMP-21-10-072511	7/25/2011	<0.022	J	U	<0.018	J	U	0.0033	J		<0.018	J	U	<0.012	U		<0.012	U		<0.012	U				
	25 ft	VMP-21-25-021011	2/10/2011	<9	U		<7	U		<7	U		<7	U		<4.7	U		<4.7	U		<4.6	U			
		VMP-21-25-041411	4/14/2011	<31	U		<24	U		<24	U		<24	U		<16	U		<16	U		<16	U			
		VMP-21-25-041411-Dup	4/14/2011	<31	U		<24	U		<24	U		<24	U		<16	U		<16	U		<16	U			
33 ft	VMP-21-25-072611	7/26/2011	<10	U		<7.9	U		<7.9	U		<7.9	U		<5.3	U		<5.3	U		<5.2	U				
	VMP-21-33-021011	2/10/2011	<9	U		<7	U		<7	U		<7	U		<4.7	U		<4.7	U		<4.6	U				
	VMP-21-33-041411	4/14/2011	<30	U		<24	U		<24	U		<24	U		<16	U		<16	U		<16	U				
	VMP-22-5-021111	2/11/2011	<0.2	U		<0.15	U		<0.15	U		<0.15	U		<0.1	U		<0.1	U		<0.1	U				
VMP-22	5 ft	VMP-22-5-041811	4/18/2011	<0.097	U		<0.076	U		<0.076	U		<0.076	U		<0.051	U		<0.051	U		<0.05	U			
		VMP-22-5-072611	7/26/2011	<0.011	J	U	<0.0089	J	U	0.0033	J		<0.0089	J	U	<0.006	U		<0.006	J	U	<0.0059	U			
		VMP-22-10-021111	2/11/2011	<0.094	U		<0.073	U		<0.073	U		<0.073	U		<0.049	U		<0.049	U		<0.048	U			
	10 ft	VMP-22-10-041811	4/18/2011	<0.1	U		<0.078	U		<0.078	U		<0.078	U		<0.053	U		<0.053	U		<0.052	U			
		VMP-22-10-072611	7/26/2011	<0.012	J	U	<0.0091	J	U	0.0028	J		<0.0091	J	U	<0.0061	U		<0.0061	U		<0.006	U			
		VMP-22-10-072611-Dup	7/26/2011	<0.014	J	U	<0.011	J	U	0.0027	J		<0.011	J	U	<0.0072	U		<0.0072	U		<0.007	U			
	18 ft	VMP-22-18-021111	2/11/2011	<1.6	U		<1.3	U		<1.3	U		<1.3	U		<0.86	U		<0.86	U		<0.84	U			
		VMP-22-18-041811	4/18/2011	<6.9	U		<5.4	U		<5.4	U		<5.4	U		<3.6	U		<3.6	U		<3.6	U			
		VMP-22-18-072611	7/26/2011	<3.5	U		<2.8	U		<2.8	U		<2.8	U		<1.9	U		<1.9	U		<1.8	U			
VMP-22-38-041811	4/18/2011	<21	U		<16	U		<16	U		<16	U		<11	U		<11	U		<11	U					
VMP-23	5 ft	VMP-23-5-021511	2/15/2011	<0.01	U		<0.0079	U		<0.0079	U		<0.0079	J	U	<0.0053	U		<0.0053	U		<0.0052	U			
		VMP-23-5-042111	4/21/2011	<0.088	U		<0.069	U		<0.069	U		<0.069	U		<0.046	U		<0.046	U		<0.045	U			
		VMP-23-5-072711	7/27/2011	<0.01	U		<0.0079	U		<0.0079	U		<0.0079	U		<0.0053	U		<0.0053	U		<0.0052	U			
	10 ft	VMP-23-10-021511	2/15/2011	<0.01	U		0.0024	J	U	<0.0082	J	U	<0.0082	J	U	<0.0055	U		<0.0055	U		<0.0054	U			
		VMP-23-10-042111	4/21/2011	<0.11	U		<0.083	U		<0.083	U		<0.083	U		<0.056	U		<0.056	U		<0.055	U			
		VMP-23-10-072711	7/27/2011	<0.0097	U		<0.0076	U		<0.0076	U		<0.0076	U		<0.0051	U		<0.0051	U		<0.005	U			
25 ft	VMP-23-25-021511	2/15/2011	<0.0097	U		<0.0076	U		<0.0076	U		0.0012	J		<0.0051	U		<0.0051	U		<0.005	U				
	VMP-23-25-042111	4/21/2011	<0.099	U		<0.078	U		<0.078	U		<0.078	U		<0.052	U		<0.052	U		<0.051	U				
	VMP-23-25-072711	7/27/2011	0.0026	J		0.003	J		0.0035	J		0.0043	J		<0.0058	U		<0.0058	U		<0.0057	U				
VMP-24	5 ft	VMP-24-5-021611	2/16/2011	<0.011	U		<0.0085	J	U	<0.0085	J	U	<0.0085	J	U	<0.0057	U		<0.0057	U		<0.0056	U			
		VMP-24-5-040811	4/8/2011	<0.12	U		<0.09	U		&lt																

See last page of table for notes.

TABLE 3 VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS																																	
Location	Depth	Sample ID	Sample Date	Dichlorodifluoromethane			Dichloromethane (Methylene chloride)			CUMULATIVE SUMMARY OF SOIL			VILLAGE - VOGS			Result (mg/m³)			Lab Qualifier			URS Qualifier			Ethanol			Ethylbenzene			4-Ethyltoluene		
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier			
VMP-19	5 ft	VMP-19-5	6/18/2010	0.0021	J		0.0011	J		<0.006	U		<0.006	U		<0.02	U		0.0064	J		<0.005	U		<0.006	U		<0.006	U				
		VMP-19-5-090110	9/1/2010	0.0028	J		<0.0045	J	U	<0.006	U		<0.0058	U		<0.018	U		0.01			0.0086		J	<0.0063	U		<0.0063	U				
		VMP-19-5-111510	11/15/2010	0.0023	J		0.0012	J		<0.0064	U		<0.0063	U		<0.02	U		0.024			0.003	J		<0.0068	U		<0.0068	U				
		VMP-19-5-020411	2/4/2011	0.0028	J		<0.0042	U		<0.0056	U		<0.0055	U		<0.017	U		0.015			0.00074	J		<0.0059	U		<0.0059	U				
		VMP-19-5-040711	4/7/2011	0.0021	J		0.00093	J		<0.0062	U		<0.0061	U		<0.019	U		0.0058	J		0.00086	J		<0.0066	U		<0.0066	U				
		VMP-19-5-080911	8/9/2011	0.0027	J		<0.0051	U		<0.0068	U		<0.0067	J	U	<0.021	U		0.047		J	0.0051	J		<0.0073	J		U					
		VMP-19-5-080911-Dup	8/9/2011	0.0026	J		0.0016	J		<0.0065	U		<0.0064	J	U	<0.02	U		0.078		J	0.0051	J		<0.0069	U		<0.0069	U				
VMP-20	5 ft	VMP-20-5-031411	3/14/2011	0.003	J		<0.0042	J	U	<0.0056	U		<0.0055	U		<0.017	U		0.11	J	J	0.014			0.0028	J		0.0028	J				
		VMP-20-5-041511	4/15/2011	<0.066	U		<0.046	U	UJ	<0.061	U		<0.06	U		<0.19	U		<0.1	U		<0.058	U		<0.065	U		<0.065	U				
		VMP-20-5-072511	7/25/2011	0.0022	J		<0.0049	U		<0.0065	U		<0.0064	J	U	0.0052	J		0.018			0.0015	J		<0.0069	U		<0.0069	U				
	10 ft	VMP-20-10-031411	3/14/2011	0.0028	J		<0.0042	U		<0.0056	U		<0.0055	U		<0.017	U		0.0034	J	J	0.0089			0.0026	J		0.0026	J				
		VMP-20-10-041511	4/15/2011	<0.06	U		0.018	J	J	<0.056	U		<0.055	U		<0.17	U		0.012	J		<0.052	U		<0.059	U		<0.059	U				
		VMP-20-10-072511	7/25/2011	0.0025	J		<0.0045	J	U	<0.006	U		<0.0058	J	UJ	<0.018	U		0.013			0.0014	J		0.0023	J		0.0023	J				
	25 ft	VMP-20-25-031411	3/14/2011	0.0032	J		<0.0042	U		<0.0055	U		<0.0054	U		<0.017	U		0.0045	J	J	<0.0052	U		<0.0059	U		<0.0059	U				
		VMP-20-25-041511	4/15/2011	<0.068	U		<0.048	U	UJ	<0.064	U		<0.063	U		<0.2	U		<0.1	U		<0.06	U		<0.068	U		<0.068	U				
	VMP-20-25-072611	7/26/2011	<0.45	U		<0.32	U		<0.42	U		<0.42	U	UJ	<1.3	U		<0.69	U		<0.4	U		<0.45	U		<0.45	U					
VMP-21	5 ft	VMP-21-5-020911	2/9/2011	<2.3	U		<1.6	U		<2.2	U		<2.1	U		<6.7	U		<3.5	U		<2	U		<2.3	U		<2.3	U				
		VMP-21-5-020911-Dup	2/9/2011	<3.9	U		<2.8	U		<3.7	U		<3.6	U		<11	U		<6	U		<3.4	U		<3.9	U		<3.9	U				
		VMP-21-5-041311	4/13/2011	0.0025	J		0.00076	J		<0.0061	U		<0.006	U		<0.019	U		<0.0099	J	U	0.0099			0.0014	J		0.0014	J				
	10 ft	VMP-21-5-072511	7/25/2011	0.0023	J		<0.0048	J	U	<0.0064	U		<0.0063	J	UJ	0.0076	J		0.017			0.0017	J		0.0018	J		0.0018	J				
		VMP-21-10-021011	2/10/2011	<2.1	U		<1.4	U		<1.9	U		<1.9	U		<6	U		<3.2	U		<1.8	U		<2.1	U		<2.1	U				
		VMP-21-10-041311	4/13/2011	<0.26	U		0.072	J		<0.24	U		<0.24	U		<0.76	U		<0.4	U		<0.23	U		<0.26	U		<0.26	U				
	25 ft	VMP-21-10-072511	7/25/2011	0.0025	J		0.0093	J		<0.014	U		<0.013	J	UJ	<0.042	U		0.085			<0.013	U		<0.014	U		<0.014	U				
		VMP-21-25-021011	2/10/2011	<5.8	U		<4	U		<5.4	U		<5.3	U		<17	U		<8.8	U		<5	U		<5.7	U		<5.7	U				
		VMP-21-25-041411	4/14/2011	<20	U		<14	U	UJ	<19	U		<18	U		<59	U		<31	U		<18	U		<20	U		<20	U				
	33 ft	VMP-21-25-041411-Dup	4/14/2011	<20	U		<14	U	UJ	<19	U		<18	U		<59	U		<31	U		<18	U		<20	U		<20	U				
		VMP-21-25-072611	7/26/2011	<6.5	U		<4.6	U		<6.1	U		<6	U	UJ	<19	U		<9.9	U		<5.7	U		<6.5	U		<6.5	U				
		VMP-21-33-021011	2/10/2011	<5.8	U		<4	U		<5.4	U		<5.3	U		<17	U		<8.8	U		<5	U		<5.7	U		<5.7	U				
		VMP-21-33-041411	4/14/2011	<19	U		<14	U	UJ	<18	U		<18	U		<57	U		3.8	J		<17	U		<19	U		<19	U				
VMP-22	5 ft	VMP-22-5-021111	2/11/2011	<0.13	U		<0.089	U		<0.12	U		<0.12	U		<0.37	U		<0.19	U		<0.11	U		<0.13	U		<0.13	U				
		VMP-22-5-041811	4/18/2011	<0.062	U		<0.044	U	UJ	<0.058	U		<0.057	U		<0.18	U		<0.095	U		<0.055	U		<0.062	U		<0.062	U				
		VMP-22-5-072611	7/26/2011	0.0023	J		0.0022	J		<0.0068	U		<0.0067	J	UJ	<0.021	U		0.029			0.0022	J		<0.0073	U		<0.0073	U				
	10 ft	VMP-22-10-021111	2/11/2011	<0.06	U		<0.042	U		<0.056	U		<0.055	U		<0.18	U		<0.092	U		<0.053	U		<0.06	U		<0.06	U				
		VMP-22-10-041811	4/18/2011	<0.064	U		<0.045	U	UJ	<0.06	U		<0.059	U		<0.19	U		<0.098	U		<0.057	U		<0.064	U		<0.064	U				
		VMP-22-10-072611	7/26/2011	0.0023	J		<0.0053	J	U	<0.007	U		<0.0069	J	UJ	<0.022	U		0.056			0.0017	J		<0.0074	U		<0.0074	U				
	18 ft	VMP-22-10-072611-Dup	7/26/2011	0.0019	J		<0.0062	J	U	<0.0082	U		<0.0081	J	UJ	<0.026	U		0.039			0.0017	J		0.0027	J		0.0027	J				
		VMP-22-18-021111	2/11/2011	<1	U		<0.74	U		<0.98	U		<0.96	U		<3.1	U		<1.6	U		<0.92	U		<1	U		<1	U				
		VMP-22-18-041811	4/18/2011	<4.4	U		<3.1	U	UJ	<4.2	U		<4.1	U		<13	U		<6.8	U		<3.9	U		<4.4	U		<4.4	U				
	38 ft	VMP-22-18-072611	7/26/2011	<2.3	U		<1.6	U		<2.1	U		<2.1	U	UJ	<6.6	U		<3.5	U		<2	U		<2.3	U		<2.3	U				
VMP-22-38-041811		4/18/2011	<14	U		<9.6	U	UJ	<13	U		<12	U		<40	U		<21	U		<12	U		<14	U		<14	U					
VMP-23	5 ft	VMP-23-5-021511	2/15/2011	0.0021	J		<0.0046	U		<0.0061	U		<0.006	U		<0.019	U	</															

See last page of table for notes.

TABLE 3				ANALYTICAL DETECTIONS AND SCREENING RESULTS																							
Location	Depth	Sample ID	Sample Date	Freon 113			Heptane			CUMULATIVE SUMMARY OF SOIL			VAPOR ANALYSIS - VOCs			2-Hexanone (Methyl N-Butyl Ketone)			Pentane			Isopropylbenzene (Cumene)			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier
VMP-19	5 ft	VMP-19-5	6/18/2010	<0.01	U		0.0012	J		<0.058	U		0.0048			<0.022	U					<0.006	U		<0.005	U	
		VMP-19-5-090110	9/1/2010	<0.0099	U	U	0.088			<0.055	U	UJ	0.34			0.0038	J	J				<0.0063	U		<0.0053	U	
		VMP-19-5-111510	11/15/2010	<0.01	U		<0.0056	U		<0.059	U		0.0033	J		<0.023	U					<0.0068	U		<0.0056	U	
		VMP-19-5-020411	2/4/2011	<0.0093	U		<0.005	U		<0.052	J	U	0.0093			<0.02	U					<0.0059	U		<0.005	U	
		VMP-19-5-040711	4/7/2011	<0.01	U		<0.0055	U		<0.058	U		<0.0048	U		<0.022	U		0.025			<0.0066	U		<0.0055	U	
		VMP-19-5-080911	8/9/2011	<0.011	U		0.036			<0.063	U		0.12		J	<0.024	U		0.21		J	0.045			0.16		
		VMP-19-5-080911-Dup	8/9/2011	<0.011	U		0.032			<0.06	U		0.085		J	<0.023	U		0.14		J	0.044			0.16		
VMP-20	5 ft	VMP-20-5-031411	3/14/2011	<0.0093	U		0.01			<0.052	U		0.016			<0.02	U					0.0032	J		<0.005	U	
		VMP-20-5-041511	4/15/2011	<0.1	U		0.24			<0.57	U		2.4			<0.22	U		22			<0.065	U		<0.054	U	
		VMP-20-5-072511	7/25/2011	<0.011	U		0.00085	J		<0.06	U		0.0013	J		<0.023	U	UJ	<0.017	U		0.026			0.11		
	10 ft	VMP-20-10-031411	3/14/2011	<0.0093	U		0.0034	J		<0.052	U		0.0049			<0.02	U					0.0025	J		<0.005	U	
		VMP-20-10-041511	4/15/2011	<0.093	U		0.14			<0.52	U		0.81			<0.2	U		1.6			<0.059	U		<0.05	U	
		VMP-20-10-072511	7/25/2011	<0.0099	U		0.00069	J		<0.055	U		<0.0045	U		<0.021	U	UJ	<0.015	U		0.025			0.12		
	25 ft	VMP-20-25-031411	3/14/2011	<0.0092	U		0.0022	J		<0.051	U		0.0017	J		<0.02	U					<0.0059	U		<0.0049	U	
		VMP-20-25-041511	4/15/2011	<0.1	U		0.12			<0.59	U		0.84			<0.23	U		1			<0.068	U		<0.056	U	
		VMP-20-25-072611	7/26/2011	<0.7	U		<0.38	U		<3.9	U		<0.32	U		<1.5	U	UJ	0.38	J		<0.45	U		<0.38	U	
VMP-21	5 ft	VMP-21-5-020911	2/9/2011	<3.6	U		16			<20	U		150			<7.6	U					<2.3	U		<1.9	U	
		VMP-21-5-020911-Dup	2/9/2011	<6.1	U		12			<34	U		120			<13	U					<3.9	U		<3.2	U	
		VMP-21-5-041311	4/13/2011	<0.01	U		0.63			<0.056	U		1.4			<0.022	U		0.74			0.0014	J		<0.0054	U	
	10 ft	VMP-21-5-072511	7/25/2011	<0.01	U		0.0025	J		<0.059	U		0.0019	J		0.0034	J	J	<0.016	U		0.04			0.17		
		VMP-21-10-021011	2/10/2011	<3.2	U		14			<18	U		130			<6.9	U					<2.1	U		<1.7	U	
		VMP-21-10-041311	4/13/2011	<0.41	U		<0.22	U		<2.3	U		0.16	J		<0.87	U		50			<0.26	U		<0.22	U	
	25 ft	VMP-21-10-072511	7/25/2011	<0.022	U		0.008	J		<0.12	U		0.0041	J		<0.048	U	UJ	0.087			0.027			0.045		
		VMP-21-25-021011	2/10/2011	<8.9	U		380			<50	U		1200			<19	U					<5.7	U		<4.8	U	
		VMP-21-25-041411	4/14/2011	<31	U		310			<170	U		820			<67	U		9200			<20	U		<17	U	
		VMP-21-25-041411-Dup	4/14/2011	<31	U		320			<170	U		820			<67	U		9200			<20	U		<17	U	
		VMP-21-25-072611	7/26/2011	<10	U		230			<56	U		680			<22	U	UJ				<6.5	U		<5.4	U	
	33 ft	VMP-21-33-021011	2/10/2011	<8.9	U		530			<50	U		1400			<19	U					<5.7	U		<4.8	U	
		VMP-21-33-041411	4/14/2011	<30	U		330			<170	U		880			<64	U		9500			<19	U		<16	U	
VMP-22	5 ft	VMP-22-5-021111	2/11/2011	<0.2	U		<0.1	U		<1.1	U		<0.09	U		<0.42	U					<0.13	U		<0.1	U	
		VMP-22-5-041811	4/18/2011	<0.096	U		<0.052	U		<0.54	U		<0.044	U		<0.21	U		0.13	J		<0.062	U		<0.052	U	
		VMP-22-5-072611	7/26/2011	<0.011	U		0.017			<0.063	J	U	0.059			<0.024	U	UJ	0.67			0.023			0.12		
	10 ft	VMP-22-10-021111	2/11/2011	<0.094	U		<0.05	U		<0.52	U		0.084			<0.2	U					<0.06	U		<0.05	U	
		VMP-22-10-041811	4/18/2011	<0.1	U		<0.053	U		<0.56	U		<0.046	U		<0.21	U		0.12	J		<0.064	U		<0.053	U	
		VMP-22-10-072611	7/26/2011	<0.012	U		0.0051	J		<0.065	U		<0.0053	U	UJ	<0.025	U	UJ	0.053			0.027			0.079		
	18 ft	VMP-22-10-072611-Dup	7/26/2011	<0.014	U		<0.0073	U		<0.076	U		0.022		J	0.0057	J	J	0.17			0.025			0.084		
		VMP-22-18-021111	2/11/2011	<1.6	U		<0.87	U		<9.1	U		17			<3.5	U					<1	U		<0.87	U	
		VMP-22-18-041811	4/18/2011	<6.9	U		3.9			<38	U		31			<15	U		1900			<4.4	U		<3.7	U	
	38 ft	VMP-22-18-072611	7/26/2011	<3.5	U		<1.9	U		<20	U		26			<7.5	U	UJ	1300			<2.3	U		<1.9	U	
VMP-22-38-041811		4/18/2011	<21	U		55			<120	U		390			<45	U		6100			<14	U		<11	U		
VMP-23	5 ft	VMP-23-5-021511	2/15/2011	<0.01	U		0.0049	J		<0.056	U		0.0087			<0.022	U					<0.0065	U		<0.0054	U	
		VMP-23-5-042111	4/21/2011	<0.088	U		<0.047	U		<0.49	U		0.013	J		<0.47	U		0.044	J		<0.056	U		<0.47	U	
		VMP-23-5-072711	7/27/2011	<0.01	U		0.0083			<0.056	U		0.011			0.006	J		0.14			0.037			0.25		
	10 ft	VMP-23-10-021511	2/15/2011	<0.01	U		0.0088			<0.058	J	U	0.013			<0.022	U					<0.0067	U		<0.0056	U	
		VMP-23-10-042111	4/21/2011	<0.1	U		1.5			<0.59	U		3.4			<0.56	U		3.5			<0.068	U		<0.56	U	
		VMP-23-10-072711	7/27/2011	<0.0096	U		<0.0052	U		<0.054	U		<0.0044	U		<0.021	U		<0.015	U		<0.0062	U		<0.0052	U	
	25 ft	VMP-23-25-021511	2/15/2011	<0.0096	U		0.0021	J		<0.054	U		0.0035	J		<0.021	U					<0.0062	U		<0.0052	U	
		VMP-23-25-042111	4/21/2011	<0.099	U		0.68			<0.55	U		4.2														

See last page of table for notes.

TABLE 3																											
Location	Depth	Sample ID	Sample Date	Methyl tert-Butyl Ether (MTBE)			2-Propanol			CUMULATIVE SUMMARY OF SOIL			VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS			1,1-Dichloroethane			Toluene			1,2,4-Trichlorobenzene					
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier			
VMP-19	5 ft	VMP-19-5	6/18/2010	<0.004	U		0.024			<0.006	U		<0.005	U		<0.009	J	U	<0.004	U		<0.005	U		<0.04	U	
		VMP-19-5-090110	9/1/2010	<0.0046	U		0.58			<0.0063	J	U	<0.0055	U		<0.0088	J	U	<0.0038	U		<0.0049	U		<0.038	J	UJ
		VMP-19-5-111510	11/15/2010	0.0007	J		0.0034	J		<0.0068	U		0.0065			0.0013	J		<0.0041	U		0.0014	J		<0.041	U	
		VMP-19-5-020411	2/4/2011	<0.0044	U		0.0076	J		<0.0059	U		<0.0052	U		<0.0082	U		<0.0036	U		0.0018	J		<0.036	J	U
		VMP-19-5-040711	4/7/2011	<0.0049	U		<0.013	U		<0.0066	U		<0.0058	U		0.0015	J		<0.004	U		0.0014	J		0.0031	J	
		VMP-19-5-080911	8/9/2011	<0.0053	U		0.026			<0.0073	J	U	<0.0063	J	U	<0.01	J	U	<0.0044	U		0.032			<0.044	J	U
		VMP-19-5-080911-Dup	8/9/2011	<0.0051	U		0.028			<0.0069	J	U	<0.006	J	U	<0.0096	J	U	<0.0042	U		0.027			<0.042	J	U
VMP-20	5 ft	VMP-20-5-031411	3/14/2011	<0.0044	U		<0.012	U		0.0024	J		<0.0052	U		0.055			<0.0036	U		0.046			<0.036	U	UJ
		VMP-20-5-041511	4/15/2011	<0.048	U		<0.13	UJ	UJ	<0.065	U		<0.057	U		<0.09	U		<0.039	U	UJ	<0.05	U		<0.39	U	
		VMP-20-5-072511	7/25/2011	<0.0051	U		0.032			<0.0069	U		<0.006	J	U	<0.0096	U	UJ	<0.0042	U		0.014			<0.042	U	
	10 ft	VMP-20-10-031411	3/14/2011	<0.0044	U		<0.012	U		0.0023	J		<0.0052	U		0.0089			0.0018	J		0.0084			<0.036	U	UJ
		VMP-20-10-041511	4/15/2011	<0.044	U		<0.12	UJ	UJ	0.023	J		<0.052	U		<0.082	U		<0.036	U	UJ	<0.046	U		<0.36	U	
		VMP-20-10-072511	7/25/2011	<0.0046	U		0.026			<0.0063	U		0.0017	J		<0.0088	U	UJ	<0.0038	U		0.015			0.0043	J	
	25 ft	VMP-20-25-031411	3/14/2011	<0.0043	U		<0.012	U		<0.0059	U		<0.0051	U		0.0068	J		<0.0035	U		0.0015	J		<0.035	U	UJ
		VMP-20-25-041511	4/15/2011	<0.05	U		<0.14	UJ	UJ	<0.068	U		<0.059	U		<0.094	U		<0.041	U	UJ	<0.052	U		<0.41	U	
VMP-20-25-072611	7/26/2011	<0.33	U		<0.9	U		<0.45	U		<0.39	U		<0.62	U	UJ	<0.27	U		<0.35	U		<2.7	U			
VMP-21	5 ft	VMP-21-5-020911	2/9/2011	<1.7	U		<4.6	U		<2.3	U		<2	U		<3.2	U		<1.4	U		<1.8	U		<14	U	
		VMP-21-5-020911-Dup	2/9/2011	<2.9	U		<7.8	U		<3.9	U		<3.4	U		<5.4	U		<2.3	U		<3	U		<24	U	
		VMP-21-5-041311	4/13/2011	<0.0048	U		<0.013	U		0.0016	J		<0.0056	U		0.011			<0.0039	U		0.0027	J		<0.039	J	U
	10 ft	VMP-21-5-072511	7/25/2011	<0.005	U		0.026			<0.0068	J	U	0.0023	J		0.0058	J	J	<0.0041	U		0.026			<0.041	U	
		VMP-21-10-021011	2/10/2011	<1.5	U		<4.1	U		<2.1	U		<1.8	U		<2.8	U		<1.2	U		<1.6	U		<12	U	
		VMP-21-10-041311	4/13/2011	<0.19	U		0.16	J		<0.26	U		0.051	J		<0.36	U		<0.16	U		<0.2	U		<1.6	U	
	25 ft	VMP-21-10-072511	7/25/2011	<0.01	U		0.013	J		<0.014	U		<0.012	J	U	0.0087	J	J	<0.0086	U		0.031			<0.087	U	
		VMP-21-25-021011	2/10/2011	<4.2	U		<11	U		<5.7	U		<5	U		<7.9	U		<3.4	U		<4.4	U		<34	U	
		VMP-21-25-041411	4/14/2011	<15	U		<40	UJ	UJ	<20	U		<17	U		<28	U		<12	U	UJ	<15	U		<120	U	
	33 ft	VMP-21-25-041411-Dup	4/14/2011	<15	U		<40	UJ	UJ	<20	U		<17	U		<28	U		<12	U	UJ	<15	U		<120	U	
		VMP-21-25-072611	7/26/2011	<4.8	U		<13	U		<6.5	U		<5.6	U		<9	U	UJ	<3.9	U		<5	U		<39	U	
		VMP-21-33-021011	2/10/2011	<4.2	U		<11	U		<5.7	U		<5	U		<7.9	U		<3.4	U		<4.4	U		<34	U	
VMP-21-33-041411	4/14/2011	<14	U		<39	UJ	UJ	<19	U		<17	U		<27	U		<12	U	UJ	8.9	J		<120	U			
VMP-22	5 ft	VMP-22-5-021111	2/11/2011	<0.093	U		<0.25	U		<0.13	U		<0.11	U		<0.17	U		<0.076	U		<0.097	U		<0.76	U	
		VMP-22-5-041811	4/18/2011	<0.045	U		<0.12	UJ	UJ	<0.062	U		<0.054	U		<0.085	U		<0.037	U	UJ	<0.047	U		<0.37	U	
		VMP-22-5-072611	7/26/2011	<0.0053	U		0.04			0.0016	J		<0.0063	J	U	<0.01	J	UJ	<0.0044	U		0.016			<0.044	J	U
	10 ft	VMP-22-10-021111	2/11/2011	<0.044	U		<0.12	U		<0.06	U		<0.052	U		<0.083	U		<0.036	U		<0.046	U		<0.36	U	
		VMP-22-10-041811	4/18/2011	<0.047	U		<0.13	UJ	UJ	<0.064	U		<0.056	U		<0.088	U		<0.038	U	UJ	<0.049	U		<0.39	U	
		VMP-22-10-072611	7/26/2011	<0.0055	U		0.016			0.001	J		0.0029	J		<0.01	J	UJ	<0.0045	U		0.013			<0.045	J	U
	18 ft	VMP-22-10-072611-Dup	7/26/2011	<0.0064	U		0.018			0.0012	J		0.0028	J		<0.012	U	UJ	<0.0052	U		0.012			<0.053	J	U
		VMP-22-18-021111	2/11/2011	<0.77	U		<2.1	U		<1	U		<0.9	U		<1.4	U		<0.63	U		0.34	J		<6.3	U	
		VMP-22-18-041811	4/18/2011	<3.2	U		<8.8	UJ	UJ	<4.4	U		<3.8	U		<6.1	U		<2.6	U	UJ	<3.4	U		<27	U	
VMP-22-18-072611	7/26/2011	<1.6	U		<4.5	U		<2.3	U		<2	U		<3.1	U	UJ	<1.4	U		<1.7	U		<14	U			
VMP-22-38-041811	4/18/2011	<10	U		<27	UJ	UJ	<14	U		<12	U		<19	U		<8.1	U	UJ	<10	U		<82	U			
VMP-23	5 ft	VMP-23-5-021511	2/15/2011	<0.0048	U		0.0033	J		<0.0065	U		<0.0056	U		<0.009	U		<0.0039	U		0.013			<0.039	U	
		VMP-23-5-042111	4/21/2011	<0.041	U		0.015	J		<0.056	U		<0.49	U		<0.078	U		<0.034	U		<0.043	U		<0.34	U	
		VMP-23-5-072711	7/27/2011	<0.0048	U		0.14			0.00076	J		0.0013	J		<0.009	U		<0.0039	U		0.037			<0.039	U	
	10 ft	VMP-23-10-021511	2/15/2011	<0.0049	U		0.0045	J		<0.0067	J	U	<0.0058	U		0.0015	J		<0.004	U		0.0062			0.0094	J	
		VMP-23-10-042111	4/21/2011	<0.05	U		0.012	J		<0.068	U		<0.59	U		<0.094	U		<0.041	U		0.25			<0.41	U	
		V																									

See last page of table for notes.

TABLE 3 ANALYTICAL DETECTIONS AND SCREENING RESULTS																														
Location	Depth	Sample ID	Sample Date	1,1,1-Trichloroethane (Methyl chloroform)			1,1,2-Trichloroethane			SUMMARY OF SOIL			VAPOR ANALYTICAL			DETECTIONS AND SCREENING			Ethylbenzene			2,2,4-Trimethylpentane			m,p-Xylene			o-Xylenes		
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier
VMP-19	5 ft	VMP-19-5	6/18/2010	<0.007	U		<0.007	U		<0.007	U		0.00091	J		<0.006	U		<0.006	U		0.013			<0.005	U		<0.005	U	
		VMP-19-5-090110	9/1/2010	<0.007	U		<0.007	U		<0.0069	U		0.0013	J		<0.0063	J	U	<0.0063	U		0.22	J	J	0.014	J	J	0.0047	J	J
		VMP-19-5-111510	11/15/2010	0.0014	J		<0.0075	U		0.0024	J		0.0011	J		<0.0068	U		<0.0068	U		0.0054	J		<0.006	J	U	<0.006	U	
		VMP-19-5-020411	2/4/2011	<0.0066	U		<0.0066	U		0.0032	J		0.001	J		<0.0059	U		<0.0059	U		0.046			0.00044	J		<0.0052	U	
		VMP-19-5-040711	4/7/2011	<0.0074	U		<0.0074	U		0.0034	J		0.00094	J		<0.0066	U		<0.0066	U		0.054			0.0015	J		<0.0059	U	
		VMP-19-5-080911	8/9/2011	<0.0081	U		<0.0081	U		<0.008	J	U	<0.0083	J	U	<0.0073	J	U	<0.0073	J	U	0.1		J	0.011			<0.0064	J	U
		VMP-19-5-080911-Dup	8/9/2011	<0.0077	U		<0.0077	U		<0.0076	U		<0.0079	J	U	<0.0069	J	U	<0.0069	J	U	0.078		J	0.011			<0.0061	J	U
VMP-20	5 ft	VMP-20-5-031411	3/14/2011	<0.0066	U		<0.0066	U		<0.0065	U		0.0015	J		0.0039	J		0.001	J		1.4			0.023			0.0066		
		VMP-20-5-041511	4/15/2011	<0.072	U		<0.072	U		<0.071	U		<0.075	U		<0.065	U		<0.065	U		4			<0.058	U		<0.058	U	
		VMP-20-5-072511	7/25/2011	<0.0077	U		<0.0077	U		<0.0076	U		0.0017	J		<0.0069	J	U	<0.0069	U		0.0043	J		<0.0061	J	U	<0.0061	U	
	10 ft	VMP-20-10-031411	3/14/2011	<0.0066	U		<0.0066	U		<0.0065	U		0.0011	J		0.0046	J		0.0024	J		0.23			0.016			0.006		
		VMP-20-10-041511	4/15/2011	<0.066	U		<0.066	U		<0.065	U		<0.068	U		<0.059	U		<0.059	U		1.1			<0.052	U		<0.052	U	
		VMP-20-10-072511	7/25/2011	<0.007	U		<0.007	U		<0.0069	U		<0.0072	U		0.0025	J		<0.0063	U		<0.006	U		0.0038	J		<0.0056	U	
	25 ft	VMP-20-25-031411	3/14/2011	<0.0065	U		<0.0065	U		<0.0064	U		<0.0067	U		<0.0059	U		<0.0059	U		0.16			0.0011	J		0.00095	J	
		VMP-20-25-041511	4/15/2011	<0.075	U		<0.075	U		<0.074	U		<0.078	U		<0.068	U		<0.068	U		1			<0.06	U		<0.06	U	
		VMP-20-25-072611	7/26/2011	<0.5	U		<0.5	U		<0.49	U		<0.52	U		<0.45	U		<0.45	U		340			<0.4	U		<0.4	U	
VMP-21	5 ft	VMP-21-5-020911	2/9/2011	<2.5	U		<2.5	U		<2.5	U		<2.6	U		<2.3	U		<2.3	U		830			<2	U		<2	U	
		VMP-21-5-020911-Dup	2/9/2011	<4.3	U		<4.3	U		<4.3	U		<4.5	U		<3.9	U		<3.9	U		660			<3.4	U		<3.4	U	
		VMP-21-5-041311	4/13/2011	<0.0072	U		<0.0072	U		<0.0071	U		0.0012	J		0.0014	J		<0.0065	U		1.6			0.0035	J		<0.0057	U	
	10 ft	VMP-21-5-072511	7/25/2011	<0.0075	U		<0.0075	U		<0.0074	U		0.0013	J		<0.0068	J	U	<0.0068	U		0.0035	J		0.0045	J		0.0014	J	
		VMP-21-10-021011	2/10/2011	<2.3	U		<2.3	U		<2.2	U		<2.4	U		<2.1	U		<2.1	U		480			<1.8	U		<1.8	U	
		VMP-21-10-041311	4/13/2011	<0.29	U		<0.29	U		0.17	J		<0.3	U		<0.26	U		<0.26	U		42			<0.23	U		<0.23	U	
	25 ft	VMP-21-10-072511	7/25/2011	<0.016	U		<0.016	U		<0.016	U		0.0029	J		<0.014	J	U	<0.014	U		<0.014	U		0.0033	J		<0.013	U	
		VMP-21-25-021011	2/10/2011	<6.4	U		<6.4	U		<6.3	U		<6.5	U		<5.7	U		<5.7	U		1700			<5	U		<5	U	
		VMP-21-25-041411	4/14/2011	<22	U		<22	U		<22	U		<23	U		<20	U		<20	U		1200			<18	U		<18	U	
	33 ft	VMP-21-25-041411-Dup	4/14/2011	<22	U		<22	U		<22	U		<23	U		<20	U		<20	U		1200			<18	U		<18	U	
		VMP-21-25-072611	7/26/2011	<7.2	U		<7.2	U		<7.1	U		<7.4	U		<6.5	U		<6.5	U		1500			<5.7	U		<5.7	U	
VMP-21-33-021011		2/10/2011	<6.4	U		<6.4	U		<6.3	U		<6.5	U		<5.7	U		<5.7	U		1800			<5	U		<5	U		
VMP-22	5 ft	VMP-21-33-041411	4/14/2011	<21	U		<21	U		<21	U		<22	U		<19	U		<19	U		1300			6.1	J		<17	U	
		VMP-22-5-021111	2/11/2011	<0.14	U		<0.14	U		<0.14	U		<0.14	U		<0.13	U		<0.13	U		81			<0.11	U		<0.11	U	
		VMP-22-5-041811	4/18/2011	<0.069	U		<0.069	U		<0.068	U		<0.071	U		<0.062	U		<0.062	U		0.22			<0.055	U		<0.055	U	
	10 ft	VMP-22-5-072611	7/26/2011	<0.0081	U		<0.0081	U		<0.008	U		<0.0083	U		<0.0073	J	U	<0.0073	J	U	0.13			0.0056	J		0.002	J	
		VMP-22-10-021111	2/11/2011	<0.066	U		<0.066	U		<0.066	U		<0.068	U		<0.06	U		<0.06	U		25			<0.053	U		<0.053	U	
		VMP-22-10-041811	4/18/2011	<0.071	U		<0.071	U		<0.07	U		<0.073	U		<0.064	U		<0.064	U		0.016	J		<0.057	U		<0.057	U	
	18 ft	VMP-22-10-072611	7/26/2011	<0.0083	U		<0.0083	U		<0.0081	U		<0.0085	U		<0.0074	J	U	<0.0074	J	U	0.022		J	0.0039	J		<0.0066	U	
		VMP-22-10-072611-Dup	7/26/2011	<0.0097	U		<0.0097	U		<0.0096	U		<0.01	U		<0.0088	J	U	<0.0088	U		0.051		J	0.0034	J		<0.0077	U	
		VMP-22-18-021111	2/11/2011	<1.2	U		<1.2	U		<1.1	U		<1.2	U		<1	U		<1	U		480			<0.92	U		<0.92	U	
	38 ft	VMP-22-18-041811	4/18/2011	<4.9	U		<4.9	U		<4.8	U		<5	U		<4.4	U		<4.4	U		390			<3.9	U		<3.9	U	
		VMP-22-18-072611	7/26/2011	<2.5	U		<2.5	U		<2.5	U		<2.6	U		<2.3	U		<2.3	U		340			<2	U		<2	U	
VMP-23	5 ft	VMP-22-38-041811	4/18/2011	<15	U		<15	U																						

See last page of table for notes.

TABLE 4

Location	Depth	Sample ID	Sample Date	Acetone			Benzene			Cumulative			Toluene			Xylenes			Ethylbenzene			Styrene			n-Butane			2-Butanone			Carbon disulfide		
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier			
VMP-10	5 ft	VMP-10-5	11/11/2009	0.033			0.02			<0.007	U		<0.004	U		<0.002	U					0.0032			<0.003	U							
		VMP-10-5-090710	9/7/2010	0.024			0.1			<0.0088	U		<0.0024	J		<0.0029	U					0.004			0.01								
		VMP-10-5-111810	11/17/2010	0.0074	J		0.00098	J		0.0015	J		<0.0047	U		<0.0027	U					0.002	J		<0.0038	U							
		VMP-10-5-021011	2/10/2011	<0.011	U		<0.0038	U		<0.008	U		<0.0046	U		<0.0026	U					<0.0035	U		<0.0037	U							
		VMP-10-5-040511	4/5/2011	0.035			0.38			<0.0074	U		<0.0043	U		<0.0024	U		0.013			0.0082	J		<0.014	U							
		VMP-10-5-072911	7/29/2011	0.13			0.07			<0.009	U		<0.0052	U		<0.003	U		<0.013	U		0.016	J		0.0079	J							
	10 ft	VMP-10-10	11/11/2009	<0.011	U		<0.003	U		<0.007	U		<0.004	U		<0.002	U					<0.003	U		<0.003	U							
		VMP-10-10-090710	9/7/2010	0.023			0.075			<0.0088	U		<0.0051	U		<0.0029	U					0.0033	J		0.04								
		VMP-10-10-111810	11/17/2010	0.01	J		0.001	J		0.0023	J		<0.005	U		<0.0028	U					0.0018	J		<0.004	U							
		VMP-10-10-021111	2/11/2011	0.011			0.0011	J		<0.0068	U		<0.0039	U		<0.0022	U					0.0081			<0.0031	U							
		VMP-10-10-040611	4/6/2011	0.0084	J		0.067			<0.0088	U		<0.0051	U		<0.0029	U		0.0086	J		0.0015	J		0.0014	J							
		VMP-10-10-072911	7/29/2011	0.061			0.072			<0.0092	U		<0.0054	U		<0.003	U		<0.013	U		0.023			0.0088	J							
	20 ft	VMP-10-20	11/11/2009	0.014			<0.003	U		<0.007	U		<0.004	U		<0.002	U					<0.003	U		<0.003	U							
		VMP-10-20-D	11/11/2009	0.026			<0.003	U		<0.008	U		<0.004	U		<0.002	U					0.0058			<0.003	U							
		VMP-10-20-090710	9/7/2010	0.036			0.039		J	<0.0092	U		<0.0054	U		<0.003	U					0.0058			0.0021	J							
		VMP-10-20-090710-Dup	9/7/2010	0.029			0.019		J	<0.0086	U		<0.005	U		<0.0028	U					0.0046			0.0034	J							
		VMP-10-20-111810	11/17/2010	0.0093	J	J	<0.0078	U		0.0042	J		<0.0095	U		<0.0054	U					<0.0072	U		<0.0076	U							
		VMP-10-20-111810-Dup	11/17/2010	0.14		J	0.0017	J		0.0017	J		<0.0048	U		<0.0027	U					0.0014	J		<0.0038	U							
		VMP-10-20-021111	2/11/2011	0.0092	J		0.02			<0.0082	U		<0.0047	U		<0.0027	U					<0.0036	U		<0.0038	U							
		VMP-10-20-040611	4/6/2011	0.05			0.18			<0.0098	U		<0.0057	U		<0.0032	U		0.022			0.096			<0.018	J	U						
		VMP-10-20-072911	7/29/2011	0.055			0.12			<0.0091	U		<0.0053	U		<0.003	U		<0.013	U		0.016			<0.017	U							
	30 ft	VMP-10-30	11/13/2009	<0.012	U		0.19			<0.008	U		<0.004	U		<0.002	U					<0.003	U		<0.003	U							
VMP-11	5 ft	VMP-11-5	11/17/2009	<0.085	U		4.9			<0.06	U		<0.035	U		<0.02	U					<0.026	U		<0.028	U							
		VMP-11-5-090710	9/7/2010	0.036			0.014			<0.0083	U		<0.0048	U		<0.0027	U					0.0048			0.0021	J							
		VMP-11-5-112210	11/22/2010	0.015			0.00089	J		<0.0086	U		<0.005	U		<0.0028	U					0.0034	J		<0.004	J	U						
		VMP-11-5-021111	2/11/2011	0.018			0.0023	J		<0.0076	U		<0.0044	U		<0.0025	U					0.0028	J		<0.0036	U							
		VMP-11-5-040611	4/6/2011	0.02	J		8.9			<0.072	U		<0.042	U		<0.024	U		0.86			<0.13	U		0.0088	J							
		VMP-11-5-080711	8/7/2011	0.065	J		0.1			<0.1	U		<0.058	U		<0.033	U		<0.14	U		<0.18	U		<0.046	U							
	8 ft	VMP-11-8	11/17/2009	0.04			0.46			<0.008	U		<0.004	U		<0.002	U					0.0069			<0.003	U							
		VMP-11-8-080910	9/8/2010	0.017			0.024			<0.0086	U		<0.005	U		<0.0028	U					0.0023	J		<0.0049		U						
		VMP-11-8-112210	11/22/2010	0.014			0.0017	J		<0.0086	U		<0.005	U		<0.0028	U					<0.0038	U		<0.004	J	U						
		VMP-11-8-021111	2/11/2011	0.0085	J		0.03			<0.0084	U		<0.0048	U		<0.0028	U					<0.0037	U		<0.0039	U							
		VMP-11-8-021111-Dup	2/11/2011	0.0066	J		0.014			<0.0079	U		<0.0046	U		<0.0026	U					<0.0035	U		<0.0036	U							
		VMP-11-8-040611	4/6/2011	<0.053	U		6.2			<0.037	U		<0.022	U		<0.012	U		0.23			<0.065	U		<0.069	U							
		VMP-11-8-040611-Dup	4/6/2011	0.018	J		5.5			<0.032	U		<0.019	U		<0.011	U		0.17			<0.057	U		0.0041	J							
		VMP-11-8-080711	8/7/2011	0.057	J		0.33			<0.1	U		<0.058	U		<0.033	U		<0.14	U		0.028	J		<0.046	U							
	29 ft	VMP-11-29	11/18/2009	<81	U		8600			<57	U		<33	U		<19	U					<25	U		<26	U							
		VMP-11-29-090810	9/8/2010	<0.31	U		120			<0.22	U		<0.12	U		<0.071	U					<0.095	U		<0.1	U							
		VMP-11-29-112210	11/22/2010	<4.4	U		460			<3.1	U		<1.8	U		<1	U					<1.4	U		<1.4	U							
		VMP-11-29-112210-Dup	11/22/2010	<3	U		440			<2.1	U		<1.2	U		<0.71	U					<0.94	U		<1	U							
		VMP-11-29-021411	2/14/2011	0.01	J		0.0042			<0.0084	U		<0.0048	U		<0.0028	U					<0.0037	U		<0.0039	U							
		VMP-11-29-040611	4/6/2011	0.023	J		9.4			<0.063	U		<0.037	U		<0.021	U		0.26			<0.11	U		0.0075	J							
		VMP-11-29-082511	8/25/2011	0.018			0.0039	J		<0.0092	U		<0.0054	U		<0.003	U		<0.013	U		0.0069	J		<0.017	U							
		VMP-11-29-082511-Dup	8/25/2011	0.023			0.0039	J		<0.0092	U		<0.0054	U		<0.003	U		<0.013	U		0.0062	J		<0.017	U							
38 ft	VMP-11-38	11/18/2009	<230	U		31000			<160	U		<96	U		<54	U					<73	U		<77	U								
VMP-12	5 ft	VMP-12-5	11/13/2009	<30	U		7500			<21	U		<12	U		<7	U					<9.3	U		<9.8	U							
		VMP-12-5-090310	9/3/2010	<13	U		230			<9	U		<5.2	U		<3	U																

See last page of table for notes.

TABLE 4 ANALYTICAL DETECTIONS AND SCREENING RESULTS				Carbon tetrachloride			Chlorobenzene CUMULATIVE SUMMARY OF SOIL			Chlorobenzene SUBSURFACE WORKS YARD AND WORK AREA			Ethylbenzene CUMULATIVE SUMMARY OF SOIL			Ethylbenzene SUBSURFACE WORKS YARD AND WORK AREA			Toluene CUMULATIVE SUMMARY OF SOIL			Toluene SUBSURFACE WORKS YARD AND WORK AREA			Xylenes CUMULATIVE SUMMARY OF SOIL			Xylenes SUBSURFACE WORKS YARD AND WORK AREA			
Location	Depth	Sample ID	Sample Date	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	
VMP-10	5 ft	VMP-10-5	11/11/2009	<0.006	U		<0.005	U		<0.009	U		<0.002	U		<0.005	U		<0.009	U		<0.005	U		<0.003	U					
		VMP-10-5-090710	9/7/2010	<0.0083	U		<0.0061	U		<0.011	U		<0.0035	U		<0.0064	U		<0.011	U		<0.0068	U		0.0092						
		VMP-10-5-111810	11/17/2010	0.001	J		<0.0056	U		<0.01	U		<0.0032	U		<0.0059	U		<0.01	U		<0.0063	U		0.0048						
		VMP-10-5-021011	2/10/2011	<0.0075	U		<0.0055	U		<0.01	U		<0.0031	U		<0.0058	U		<0.0098	U		<0.0062	U		0.023						
		VMP-10-5-040511	4/5/2011	<0.0069	U		<0.0051	U		<0.0094	U		<0.012	U		<0.0054	U		<0.0091	U		<0.0057	U		0.0053						
		VMP-10-5-072911	7/29/2011	<0.0084	U		<0.0062	U		<0.011	U		<0.014	U		<0.0065	U		<0.011	U		<0.0069	U		<0.0046	U					
	10 ft	VMP-10-10	11/11/2009	<0.007	U		<0.005	U		<0.009	U		<0.003	U		<0.005	U		<0.009	U		<0.005	U		<0.003	U					
		VMP-10-10-090710	9/7/2010	<0.0083	U		<0.0061	U		<0.011	U		<0.0035	U		<0.0064	U		<0.011	U		<0.0068	U		0.0052						
		VMP-10-10-111810	11/17/2010	0.0012	J		<0.0059	U		<0.011	U		<0.0034	U		<0.0063	U		<0.011	U		<0.0067	U		0.0053						
		VMP-10-10-021111	2/11/2011	<0.0064	U		<0.0046	U		<0.0086	U		<0.0027	U		<0.0049	U		<0.0083	U		<0.0052	U		0.0034	J					
		VMP-10-10-040611	4/6/2011	<0.0083	U		<0.0061	J	U	0.0024	J		<0.014	U		<0.0064	U		<0.011	U		<0.0068	J	U	0.0021	J					
		VMP-10-10-072911	7/29/2011	<0.0087	U		<0.0064	U		<0.012	U		<0.014	U		<0.0067	U		0.0018	J		<0.0071	U		0.0019	J					
	20 ft	VMP-10-20	11/11/2009	<0.007	U		<0.005	U		<0.009	U		<0.003	U		<0.005	U		<0.009	U		<0.005	U		<0.003	U					
		VMP-10-20-D	11/11/2009	<0.007	U		<0.005	U		<0.01	U		<0.003	U		<0.006	U		<0.01	U		<0.006	U		<0.004	U					
		VMP-10-20-090710	9/7/2010	<0.0087	U		<0.0064	U		<0.012	U		<0.0036	U		<0.0067	U		<0.011	U		<0.0071	U		0.0035	J					
		VMP-10-20-090710-Dup	9/7/2010	<0.0081	U		<0.0059	U		<0.011	U		<0.0034	U		<0.0063	U		<0.011	U		<0.0067	U		0.002	J					
		VMP-10-20-111810	11/17/2010	<0.015	U		<0.011	U		<0.021	U		<0.0064	U		0.0017	J		<0.02	U		<0.013	U		0.0025	J					
		VMP-10-20-111810-Dup	11/17/2010	<0.0078	U		<0.0057	U		<0.01	U		<0.0032	U		0.0014	J		<0.01	U		<0.0064	U		0.0056						
		VMP-10-20-021111	2/11/2011	<0.0077	U		<0.0056	U		<0.01	U		<0.0032	U		<0.006	U		<0.01	U		<0.0063	U		0.0027	J					
		VMP-10-20-040611	4/6/2011	<0.0092	U		<0.0068	J	U	<0.012	U		<0.016	U		<0.0072	U		<0.012	U		<0.0076	J	U	0.0034	J					
	30 ft	VMP-10-20-072911	7/29/2011	<0.0086	U		<0.0063	U		<0.012	U		<0.014	U		<0.0067	U		<0.011	U		<0.0071	U		<0.0047	U					
		VMP-10-30	11/13/2009	<0.007	U		<0.005	U		<0.01	U		<0.003	U		0.016			<0.01	U		<0.006	U		<0.004	U					
VMP-11	5 ft	VMP-11-5	11/17/2009	<0.056	U		<0.041	U		<0.076	U		<0.024	U		<0.044	U		<0.074	U		<0.046	U		<0.031	U					
		VMP-11-5-090710	9/7/2010	<0.0078	U		<0.0057	U		<0.01	U		<0.0032	U		0.0019	J		<0.01	U		<0.0064	U		0.0012	J					
		VMP-11-5-112210	11/22/2010	<0.0081	U		<0.0059	U		<0.011	U		<0.0034	U		0.0039	J		<0.011	U		<0.0067	U		<0.0044	U					
		VMP-11-5-021111	2/11/2011	<0.0072	U		<0.0052	U		<0.0097	U		<0.003	U		0.0025	J		<0.0094	U		<0.0059	U		0.0089						
		VMP-11-5-040611	4/6/2011	<0.068	U		<0.05	U		<0.092	U		<0.11	U		<0.053	U		0.055	J		<0.056	U		0.082						
		VMP-11-5-080711	8/7/2011	<0.093	U		<0.068	U		<0.13	U		<0.16	U		<0.072	U		<0.12	U		<0.077	U		<0.051	U					
	8 ft	VMP-11-8	11/17/2009	<0.007	U		<0.005	U		<0.01	U		<0.003	U		<0.006	U		<0.01	U		<0.006	U		<0.004	U					
		VMP-11-8-080910	9/8/2010	<0.0081	U		<0.0059	U		<0.011	U		<0.0034	U		0.0014	J		<0.011	U		<0.0067	U		0.00085	J					
		VMP-11-8-112210	11/22/2010	<0.0081	U		<0.0059	U		<0.011	U		<0.0034	U		<0.0063	U		<0.011	U		<0.0067	U		<0.0044	U					
		VMP-11-8-021111	2/11/2011	<0.0079	U		<0.0058	U		<0.011	U		<0.0033	U		0.0018	J		<0.01	U		<0.0065	U		0.0013	J					
		VMP-11-8-021111-Dup	2/11/2011	<0.0074	U		<0.0054	U		<0.01	U		<0.0031	U		0.0019	J		<0.0097	U		<0.0061	U		0.001	J					
		VMP-11-8-040611	4/6/2011	<0.035	U		<0.026	U		<0.047	U		<0.058	U		<0.027	U		<0.046	U		<0.029	U		0.042						
		VMP-11-8-040611-Dup	4/6/2011	<0.03	U		<0.022	U		<0.041	U		<0.051	U		0.0029	J		<0.04	U		<0.025	U		0.047						
		VMP-11-8-080711	8/7/2011	<0.093	U		<0.068	U		<0.13	U		<0.16	U		<0.072	U		<0.12	U		<0.077	U		<0.051	U					
	29 ft	VMP-11-29	11/18/2009	<53	U		<39	U		<72	U		<22	U		<42	U		<70	U		<44	U		<29	U					
		VMP-11-29-090810	9/8/2010	<0.2	U		<0.15	U		<0.27	U		<0.085	U		<0.16	U		<0.27	U		<0.17	U		0.068	J					
		VMP-11-29-112210	11/22/2010	<2.9	U		<2.1	U		<3.9	U		<1.2	U		<2.2	U		<3.8	U		<2.4	U		<1.6	U					
		VMP-11-29-112210-Dup	11/22/2010	<2	U		<1.5	U		<2.7	U		<0.84	U		<1.6	U		<2.6	U		<1.6	U		<1.1	U					
		VMP-11-29-021411	2/14/2011	<0.0079	U		<0.0058	U		<0.011	U		<0.0033	U		0.0069			<0												

See last page of table for notes.

Location				Depth		Sample ID		Sample Date		1,2-Dibromoethane			1,2-Dichlorobenzene			1,2,4-Trichlorobenzene			1,1,1-Trichloroethene			1,1,2-Trichloroethene			1,1-Dichloroethane			cis-1,2-Dichloroethene		
Result (mg/m³)		Lab Qualifier		URS Qualifier		Result (mg/m³)		Lab Qualifier		URS Qualifier		Result (mg/m³)		Lab Qualifier		URS Qualifier		Result (mg/m³)		Lab Qualifier		URS Qualifier		Result (mg/m³)		Lab Qualifier		URS Qualifier		
VMP-10	5 ft	VMP-10-5	11/11/2009	<0.008	U		<0.006	U		<0.006	U		<0.006	U		<0.004	U		<0.004	U		<0.004	U		<0.004	U		<0.004	U	
		VMP-10-5-090710	9/7/2010	<0.01	U		<0.0079	U		<0.0079	U		<0.0079	U		<0.0053	U		<0.0053	U		<0.0052	U		<0.0052	U		<0.0052	U	
		VMP-10-5-111810	11/17/2010	<0.0093	U		<0.0073	U		<0.0073	U		<0.0073	U		<0.0049	U		<0.0049	U		<0.0048	U		<0.0048	U		<0.0048	U	
		VMP-10-5-021011	2/10/2011	<0.0091	U		<0.0072	U		<0.0072	U		<0.0072	U		<0.0048	U		<0.0048	U		<0.0047	U		<0.0047	U		<0.0047	U	
		VMP-10-5-040511	4/5/2011	<0.0084	U		<0.0066	J	U	<0.0066	U		<0.0066	J	U	<0.0044	U		<0.0044	U		<0.0044	U		<0.0044	U		<0.0044	U	
	10 ft	VMP-10-5-072911	7/29/2011	<0.01	U		<0.008	U		<0.008	U		<0.008	U		<0.0054	U		<0.0054	U		<0.0053	U		<0.0053	U		<0.0053	U	
		VMP-10-10	11/11/2009	<0.008	U		<0.006	U		<0.006	U		<0.006	U		<0.004	U		<0.004	U		<0.004	U		<0.004	U		<0.004	U	
		VMP-10-10-090710	9/7/2010	<0.01	U		<0.0079	U		<0.0079	U		<0.0079	U		<0.0053	U		<0.0053	U		<0.0052	U		<0.0052	U		<0.0052	U	
		VMP-10-10-111810	11/17/2010	<0.0099	U		<0.0078	U		<0.0078	U		<0.0078	U		<0.0052	U		<0.0052	U		<0.0051	U		<0.0051	U		<0.0051	U	
		VMP-10-10-021111	2/11/2011	<0.0078	U		<0.0061	U		<0.0061	U		<0.0061	J	U	<0.0041	U		<0.0041	U		<0.004	U		<0.004	U		<0.004	U	
	20 ft	VMP-10-10-040611	4/6/2011	<0.01	J	U	<0.0079	J	U	<0.0079	J	U	<0.0079	J	U	<0.0053	U		<0.0053	U		<0.0052	U		<0.0052	J	U	<0.0052	J	U
		VMP-10-10-072911	7/29/2011	<0.011	U		<0.0083	U		<0.0083	U		<0.0083	U		<0.0056	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.0055	U	
		VMP-10-20	11/11/2009	<0.008	U		<0.006	U		<0.006	U		<0.006	U		<0.004	U		<0.004	U		<0.004	U		<0.004	U		<0.004	U	
		VMP-10-20-D	11/11/2009	<0.009	U		<0.007	U		<0.007	U		<0.007	U		<0.005	U		<0.005	U		<0.004	U		<0.004	U		<0.004	U	
		VMP-10-20-090710	9/7/2010	<0.011	U		<0.0083	U		<0.0083	U		<0.0083	U		<0.0056	U		<0.0056	U		<0.0055	U		<0.0055	U		<0.0055	U	
	30 ft	VMP-10-20-090710-Dup	9/7/2010	<0.0099	U		<0.0078	U		<0.0078	U		<0.0078	U		<0.0052	U		<0.0052	U		<0.0051	U		<0.0051	U		<0.0051	U	
		VMP-10-20-111810	11/17/2010	<0.019	U		<0.015	U		<0.015	U		<0.015	U		<0.0099	U		<0.0099	U		<0.0097	U		<0.0097	U		<0.0097	U	
		VMP-10-20-111810-Dup	11/17/2010	<0.0095	U		<0.0074	U		<0.0074	U		<0.0074	U		<0.005	U		<0.005	U		<0.0049	U		<0.0049	U		<0.0049	U	
		VMP-10-20-021111	2/11/2011	<0.0094	U		<0.0073	U		<0.0073	U		<0.0073	U		<0.0049	U		<0.0049	U		<0.0048	U		<0.0048	U		<0.0048	U	
		VMP-10-20-040611	4/6/2011	<0.011	U		<0.0088	J	U	<0.0088	J	U	<0.0088	J	U	<0.006	U		<0.0059	U		<0.0058	U		<0.0058	U		<0.0058	U	
VMP-11	5 ft	VMP-10-20-072911	7/29/2011	<0.01	U		<0.0082	U		<0.0082	U		<0.0082	U		<0.0055	U		<0.0055	U		<0.0054	U		<0.0054	U		<0.0054	U	
		VMP-10-30	11/13/2009	<0.009	U		<0.007	U		<0.007	U		<0.007	U		<0.005	U		<0.005	U		<0.004	U		<0.004	U		<0.004	U	
		VMP-11-5	11/17/2009	<0.069	U		<0.054	U		<0.054	U		<0.054	U		<0.036	U		<0.036	U		<0.035	U		<0.035	U		<0.035	U	
		VMP-11-5-090710	9/7/2010	<0.0095	U		<0.0074	U		<0.0074	U		<0.0074	U		<0.005	U		<0.005	U		<0.0049	U		<0.0049	U		<0.0049	U	
		VMP-11-5-112210	11/22/2010	<0.0099	U		<0.0078	U		0.0011	J		<0.0078	U		<0.0052	U		<0.0052	U		<0.0051	U		<0.0051	U		<0.0051	U	
	8 ft	VMP-11-5-021111	2/11/2011	<0.0088	U		<0.0068	U		<0.0068	U		<0.0068	U		<0.0046	U		<0.0046	U		<0.0045	U		<0.0045	U		<0.0045	U	
		VMP-11-5-040611	4/6/2011	<0.083	U		<0.065	U		<0.065	U		<0.065	U		<0.044	U		<0.044	U		<0.043	U		<0.043	U		<0.043	U	
		VMP-11-5-080711	8/7/2011	<0.11	U		<0.089	U		<0.089	U		<0.089	U		<0.06	U		<0.06	U		<0.059	U		<0.059	U		<0.059	U	
		VMP-11-8	11/17/2009	<0.009	U		<0.007	U		<0.007	U		<0.007	U		<0.005	U		<0.005	U		<0.004	U		<0.004	U		<0.004	U	
		VMP-11-8-080910	9/8/2010	<0.0099	U		<0.0078	U		<0.0078	U		<0.0078	U		<0.0052	U		<0.0052	U		<0.0051	U		<0.0051	U		<0.0051	U	
	29 ft	VMP-11-8-112210	11/22/2010	<0.0099	U		<0.0078	U		<0.0078	U		<0.0078	U		<0.0052	U		<0.0052	U		<0.0051	U		<0.0051	U		<0.0051	U	
		VMP-11-8-021111	2/11/2011	<0.0096	U		<0.0075	U		<0.0075	U		<0.0075	U		<0.005	U		<0.005	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-11-8-021111-Dup	2/11/2011	<0.009	U		<0.0071	U		<0.0071	U		<0.0071	U		<0.0048	U		<0.0048	U		<0.0046	U		<0.0046	U		<0.0046	U	
		VMP-11-8-040611	4/6/2011	<0.043	U		<0.033	U		<0.033	U		<0.033	U		<0.022	U		<0.022	U		<0.022	U		<0.022	U		<0.022	U	
		VMP-11-8-040611-Dup	4/6/2011	<0.037	U		<0.029	U		<0.029	U		<0.029	U		<0.019	U		<0.019	U		<0.019	U		<0.019	U		<0.019	U	
	38 ft	VMP-11-8-080711	8/7/2011	<0.11	U		<0.089	U		<0.089	U		<0.089	U		<0.06	U		<0.06	U		<0.059	U		<0.059	U		<0.059	U	
		VMP-11-29	11/18/2009	<65	U		<51	U		<51	U		<51	U		<34	U		<34	U		<34	U		<34	U		<34	U	
		VMP-11-29-090810	9/8/2010	<0.25	U		<0.19	U		<0.19	U		<0.19	U		<0.13	U		<0.13	U		<0.13	U		<0.13	U		<0.13	U	
		VMP-11-29-112210	11/22/2010	<3.5	U		<2.8	U		<2.8	U		<2.8	U		<1.9	U		<1.9	U										

See last page of table for notes.

TABLE 4 ANALYTICAL DETECTIONS AND SCREENING RESULTS																											
Location	Depth	Sample ID	Sample Date	Dichlorodifluoromethane			Dichloromethane (Methylene chloride)			Cumulative Summary of Soil			Subsurface Vapor			Analytical Detection			Screening Results			Ethylbenzene			4-Ethyltoluene		
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier
VMP-10	5 ft	VMP-10-5	11/11/2009	<0.005	U		<0.003	U		<0.005	U		<0.005	U		<0.016	U		0.18		J	<0.004	U		<0.005	U	
		VMP-10-5-090710	9/7/2010	0.0024	J		<0.0046	U		<0.0061	U		<0.006	U		<0.019	U		0.015			<0.005	U		0.0072		
		VMP-10-5-111810	11/17/2010	0.0017	J		<0.0042	U		<0.0056	U		<0.0055	U		<0.017	U		0.004	J		0.0014	J		<0.0059	U	
		VMP-10-5-021011	2/10/2011	0.0024	J		<0.0041	U		<0.0055	U		<0.0054	U		<0.017	U		<0.009	U		0.0029	J		0.0013	J	
		VMP-10-5-040511	4/5/2011	0.0021	J		<0.0038	J	U	<0.0051	U		<0.005	U		<0.016	U		0.028			0.0018	J		0.005	J	
		VMP-10-5-072911	7/29/2011	0.002	J		0.00098	J		<0.0062	U		<0.0061	U		0.041			0.05			0.0012	J		<0.0066	J	U
	10 ft	VMP-10-10	11/11/2009	<0.005	U		<0.004	U		<0.005	U		<0.005	U		<0.016	U		0.046		J	<0.005	U		<0.005	U	
		VMP-10-10-090710	9/7/2010	0.0025	J		<0.0046	U		<0.0061	U		<0.006	U		0.0077	J		0.0079	J		<0.0057	U		<0.0065	U	
		VMP-10-10-111810	11/17/2010	0.0022	J		0.001	J		<0.006	U		<0.0058	U		0.0042	J		0.0096	J		0.0014	J		<0.0063	U	
		VMP-10-10-021111	2/11/2011	0.0015	J		<0.0035	U		<0.0047	U		<0.0046	U		<0.014	U		0.1			0.0017	J		<0.005	J	U
		VMP-10-10-040611	4/6/2011	0.0023	J		0.016			<0.0061	U		<0.006	J	U	<0.019	U		0.013			0.00094	J		<0.0065	J	U
		VMP-10-10-072911	7/29/2011	0.0021	J		<0.0048	J	U	<0.0064	U		<0.0063	U		0.017	J		0.029			0.0024	J		<0.0068	J	U
	20 ft	VMP-10-20	11/11/2009	<0.005	U		<0.003	U		<0.005	U		<0.005	U		<0.016	U		0.036		J	<0.004	U		<0.005	U	
		VMP-10-20-D	11/11/2009	<0.006	U		<0.004	U		<0.005	U		<0.005	U		<0.018	U		0.22		J	<0.005	U		<0.006	U	
		VMP-10-20-090710	9/7/2010	0.0027	J		<0.0048	J	U	<0.0064	U		<0.0063	U		<0.02	U		0.012		J	0.002	J		<0.0068	U	
		VMP-10-20-090710-Dup	9/7/2010	0.0033	J		<0.026		U	<0.006	U		<0.0058	U		<0.018	U		0.048		J	0.0017	J		<0.0063	U	
		VMP-10-20-111810	11/17/2010	0.0028	J		<0.0085	U		<0.011	U		<0.011	U		<0.035	U		0.0097	J		<0.011	U		<0.012	U	
		VMP-10-20-111810-Dup	11/17/2010	0.0019	J		0.0026	J		<0.0057	U		<0.0056	U		<0.018	U		0.017			0.0015	J		<0.0061	U	
		VMP-10-20-021111	2/11/2011	0.002	J		<0.0042	U		<0.0056	U		<0.0055	U		<0.018	U		0.018			<0.0053	U		<0.006	U	
		VMP-10-20-040611	4/6/2011	0.0021	J		0.0068			<0.0068	U		<0.0067	J	U	<0.021	U		0.05			0.0026	J		<0.0072	J	U
VMP-10-20-072911	7/29/2011	0.0023	J		<0.0047	U		<0.0063	U		<0.0062	U		<0.02	U		0.062			0.0014	J		0.0013	J			
30 ft	VMP-10-30	11/13/2009	<0.006	U		<0.004	U		<0.005	U		<0.005	U		<0.018	U		<0.009	U		<0.005	U		<0.006	U		
VMP-11	5 ft	VMP-11-5	11/17/2009	<0.044	U		<0.031	U		<0.041	U		<0.041	U		<0.13	U		<0.067	U		<0.039	U		<0.044	U	
		VMP-11-5-090710	9/7/2010	0.0025	J		<0.0043	U		<0.0057	U		<0.0056	U		<0.018	U		0.0099			0.0019	J		<0.0061	U	
		VMP-11-5-112210	11/22/2010	0.0019	J		<0.0045	U		<0.006	U		<0.0058	U		<0.018	U		0.011			0.0021	J		<0.0063	U	
		VMP-11-5-021111	2/11/2011	0.0029	J		<0.0011	J		<0.0053	U		<0.0052	U		<0.016	U		0.017			0.0055			<0.0056	J	U
		VMP-11-5-040611	4/6/2011	<0.053	U		0.0086	J		<0.05	U		<0.049	U		<0.16	U		<0.081	U		<0.047	U		<0.053	U	
		VMP-11-5-080711	8/7/2011	<0.073	U		<0.052	U		<0.069	U		<0.067	U		<0.21	U		0.046	J		<0.064	U		<0.073	U	
	8 ft	VMP-11-8	11/17/2009	<0.006	U		<0.004	U		<0.005	U		<0.005	U		<0.018	U		0.14		J	<0.005	U		<0.006	U	
		VMP-11-8-080910	9/8/2010	0.0038	J		0.047			<0.006	U		<0.0058	U		<0.018	U		0.013			<0.0056	U		<0.0063	U	
		VMP-11-8-112210	11/22/2010	0.0022	J		<0.0045	U		<0.006	U		<0.0058	U		<0.018	U		0.0056	J		0.0016	J		<0.0063	U	
		VMP-11-8-021111	2/11/2011	0.0035	J		<0.0043	U		<0.0058	U		<0.0057	U		<0.018	U		0.036			<0.0054	U		<0.0061	U	
		VMP-11-8-021111-Dup	2/11/2011	0.0033	J		<0.0041	U		<0.0054	U		<0.0053	U		<0.017	U		0.016			<0.0051	U		<0.0058	U	
		VMP-11-8-040611	4/6/2011	<0.027	U		<0.019	U		<0.026	U		<0.025	U		<0.08	U		<0.042	U		<0.024	U		<0.027	U	
		VMP-11-8-040611-Dup	4/6/2011	<0.024	U		0.0027	J		<0.022	U		<0.022	U		<0.069	U		<0.036	U		<0.021	U		<0.024	U	
		VMP-11-8-080711	8/7/2011	<0.073	U		<0.052	U		<0.069	U		<0.067	U		<0.21	U		0.14			<0.064	U		<0.073	U	
29 ft	VMP-11-29	11/18/2009	<42	U		<30	U		<39	U		<38	U		<120	U		<64	U		<37	U		<42	U		
	VMP-11-29-090810	9/8/2010	<0.16	U		<0.11	U		<0.15	U		<0.15	U		<0.46	U		<0.24	U		0.033	J		0.26			
	VMP-11-29-112210	11/22/2010	<2.3	U		<1.6	U		<2.1	U		<2.1	U		<6.6	U		<3.5	U		<2	U		<2.3	U		
	VMP-11-29-112210-Dup	11/22/2010	<1.6	U		<1.1	U		<1.5	U		<1.4	U		<4.6	U		<2.4	U		<1.4	U		<1.6	U		
	VMP-11-29-021411	2/14/2011	0.0041	J		<0.0043	U		<0.0058	U		<0.0057	U		<0.018	U		0.018			0.0015	J		<0.0061	J	U	
	VMP-11-29-040611	4/6/2011	<0.047	U		<0.033	U		<0.044	U		<0.043	U		<0.14	U		<0.071	U		<0.041	U		<0.046	U		
VMP-12	5 ft	VMP-11-29-082511	8/25/2011	0.0023	J		0.0021	J		<0.0064	U		<0.0063	U		<0.02	U		0.013			0.0014	J		0.0017	J	J
		VMP-11-29-082511-Dup	8/25/2011	0.0023	J		<0.0048	J	U	<0.0064	U		<0.0063	U		<0.02	U		0.016			0.0012	J		0.0018	J	J
		VMP-11-38	11/18/2009	<120	U		<86	U		<110	U		<11														

See last page of table for notes.

TABLE 4

Location	Depth	Sample ID	Sample Date	Freon 113			Heptane			Cumulative Summary of Soil			Benzene			2-Hexanone (Methyl N-Butyl Ketone)			Pentane			Isopropylbenzene (Cumene)			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier
VMP-10	5 ft	VMP-10-5	11/11/2009	<0.008	U		<0.004	U		<0.047	U		<0.003	U		<0.018	U					<0.005	U		<0.004	U	
		VMP-10-5-090710	9/7/2010	<0.01	U		<0.0071			<0.056	U		0.015			<0.022	U					0.002	J		0.0016	J	
		VMP-10-5-111810	11/17/2010	<0.0093	U		0.012			<0.052	U		0.0072			<0.02	U					<0.0059	U		<0.005	U	
		VMP-10-5-021011	2/10/2011	<0.0091	U		0.044			<0.051	U		0.11			<0.019	U					<0.0058	U		<0.0049	U	
		VMP-10-5-040511	4/5/2011	<0.0084	U		0.0051			<0.047	U		0.0066			<0.018	U		0.017			0.013			0.039		
		VMP-10-5-072911	7/29/2011	<0.01	U		<0.0055	U		<0.057	U		0.0036	J		<0.022	J	U	<0.016	U		0.013			0.066		
	10 ft	VMP-10-10	11/11/2009	<0.008	U		<0.004	U		<0.049	U		<0.004	U		<0.019	U					<0.005	U		<0.004	U	
		VMP-10-10-090710	9/7/2010	<0.01	U		0.0017	J		<0.056	U		0.0016	J		<0.022	U					<0.0065	U		0.0012	J	
		VMP-10-10-111810	11/17/2010	<0.0099	U		0.01			<0.055	U		0.0096			<0.021	U					<0.0063	U		<0.0053	U	
		VMP-10-10-021111	2/11/2011	<0.0077	U		0.006			<0.043	U		0.0049			<0.016	U					<0.005	U		<0.0041	U	
		VMP-10-10-040611	4/6/2011	<0.01	U		0.0022	J		<0.056	J	U	0.0068			<0.022	U		0.014	J		<0.0065	U		<0.0054	U	
		VMP-10-10-072911	7/29/2011	<0.01	U		0.0027	J		<0.059	U		0.0025	J		0.0032	J		<0.016	U		0.023			0.13		
	20 ft	VMP-10-20	11/11/2009	<0.008	U		0.0049			<0.048	U		0.0068			<0.018	U					<0.005	U		<0.004	U	
		VMP-10-20-D	11/11/2009	<0.009	U		<0.005	U		<0.053	U		<0.004	U		<0.02	U					<0.006	U		<0.005	U	
		VMP-10-20-090710	9/7/2010	<0.01	U		0.0037	J		<0.059	U		0.0061			<0.023	U					<0.0068	U		0.00098	J	
		VMP-10-20-090710-Dup	9/7/2010	<0.0099	U		0.0025	J		<0.055	U		0.0043	J		<0.021	U					<0.0063	U		0.00096	J	
		VMP-10-20-111810	11/17/2010	<0.019	U		0.0048	J		<0.1	U		0.0049	J		<0.04	U					<0.012	U		<0.01	U	
		VMP-10-20-111810-Dup	11/17/2010	<0.0095	U		0.013			<0.053	U		0.0097			<0.02	U					<0.0061	U		<0.005	U	
		VMP-10-20-021111	2/11/2011	<0.0094	U		0.0056			<0.052	U		0.0043			<0.02	U					<0.006	U		<0.005	U	
		VMP-10-20-040611	4/6/2011	<0.011	U		0.0036	J		<0.063	J	U	0.0084			<0.024	U		0.027			0.029			0.1		
30 ft	VMP-10-20-072911	7/29/2011	<0.01	U		<0.0056	U		<0.058	U		0.003	J		<0.022	J	U	<0.016	U		0.023			0.075			
	VMP-10-30	11/13/2009	<0.009	U		<0.005	U		<0.053	U		0.0052			<0.02	U					<0.006	U		<0.005	U		
VMP-11	5 ft	VMP-11-5	11/17/2009	<0.068	U		<0.037	U		<0.38	U		<0.032	U		<0.15	U					<0.044	U		<0.037	U	
		VMP-11-5-090710	9/7/2010	<0.0095	U		0.001	J		<0.053	U		<0.0044	U		<0.02	U					<0.0061	U		0.00085	J	
		VMP-11-5-112210	11/22/2010	<0.0099	U		0.0013	J		<0.055	U		0.0018	J		<0.021	U					<0.0063	U		<0.0053	U	
		VMP-11-5-021111	2/11/2011	<0.0087	U		0.018			<0.049	U		0.028			<0.019	U					<0.0056	U		0.0015	J	
		VMP-11-5-040611	4/6/2011	<0.083	U		0.042	J		<0.46	U		0.28			<0.18	U		1.1			<0.053	U		<0.044	U	
		VMP-11-5-080711	8/7/2011	<0.11	U		<0.061	U		<0.63	U		<0.052	U		<0.24	U		0.019	J		0.06	J		0.16		
	8 ft	VMP-11-8	11/17/2009	<0.009	U		<0.005	U		<0.053	U		<0.004	U		<0.02	U					<0.006	U		<0.005	U	
		VMP-11-8-080910	9/8/2010	<0.0099	U		0.0016	J		<0.055	U		0.0034	J		<0.021	U					<0.0063	U		<0.0053	U	
		VMP-11-8-112210	11/22/2010	<0.0099	U		0.00074	J		<0.055	U		<0.0045	U		<0.021	U					<0.0063	U		<0.0053	U	
		VMP-11-8-021111	2/11/2011	<0.0096	U		0.0033	J		<0.053	U		0.003	J		<0.02	U					<0.0061	U		<0.0051	U	
		VMP-11-8-021111-Dup	2/11/2011	<0.009	U		0.0017	J		<0.05	U		0.0016	J		<0.019	U					<0.0058	U		<0.0048	U	
		VMP-11-8-040611	4/6/2011	<0.042	U		0.035			<0.24	U		<0.02	U	UJ	<0.091	U		0.38			<0.027	U		<0.023	U	
		VMP-11-8-040611-Dup	4/6/2011	<0.037	U		0.025			<0.2	U		0.12		J	<0.079	U		0.29			<0.024	U		<0.02	U	
		VMP-11-8-080711	8/7/2011	<0.11	U		<0.061	U		<0.63	U		<0.052	U		<0.24	U		<0.18	U		0.046	J		0.14		
	29 ft	VMP-11-29	11/18/2009	<65	U		<35	U		<360	U		<30	U		<140	U					<42	U		<35	U	
		VMP-11-29-090810	9/8/2010	<0.25	U		<0.13	U		<1.4	U		0.1	J		<0.53	U					<0.16	U		<0.13	U	
		VMP-11-29-112210	11/22/2010	<3.5	U		<1.9	U		<20	U		<1.6	U		<7.5	U					<2.3	U		<1.9	U	
		VMP-11-29-112210-Dup	11/22/2010	<2.4	U		<1.3	U		<14	U		<1.1	U		<5.2	U					<1.6	U		<1.3	U	
		VMP-11-29-021411	2/14/2011	<0.0096	U		0.0062			<0.053	U		0.042			<0.02	U					<0.0061	U		0.0013	J	
		VMP-11-29-040611	4/6/2011	<0.072	U		0.052			<0.4	U		0.25			<0.15	U		0.44			<0.046	U		<0.039	U	
VMP-11-29-082511		8/25/2011	<0.01	U		<0.0056	U		<0.059	U		0.002	J		0.00092	J		0.004	J		0.0088			0.056			
VMP-11-29-082511-Dup		8/25/2011	<0.01	U		<0.0056	U		<0.059	U		0.0032	J		0.00098	J		0.004	J		0.0086			0.052			
38 ft	VMP-11-38	11/18/2009	<190	U		<100	U		<1000	U		<87	U		<400	U					<120	U		<100	U		
VMP-12	5 ft	VMP-12-5	11/13/2009	<24	U		17			<130	U		200			<52	U					<16	U		<13	U	
		VMP-12-5-090310	9/3/2010	<10	U		<5.5	U		<57	U		11														

See last page of table for notes.

TABLE 4

Location	Depth	Sample ID	Sample Date	Methyl tert-Butyl Ether (MTBE)			2-Propanol			Cumulative Summary of Soil			Vapor Analytical Detection and Screening Results			1,2-Dichloroethane			Toluene			1,2,4-Trichlorobenzene					
				Result (mg/m ³)	Lab Qualifier	URS Qualifier	Result (mg/m ³)	Lab Qualifier	URS Qualifier	Result (mg/m ³)	Lab Qualifier	URS Qualifier	Result (mg/m ³)	Lab Qualifier	URS Qualifier	Result (mg/m ³)	Lab Qualifier	URS Qualifier	Result (mg/m ³)	Lab Qualifier	URS Qualifier	Result (mg/m ³)	Lab Qualifier	URS Qualifier			
VMP-10	5 ft	VMP-10-5	11/11/2009	<0.004	U		0.87			<0.005	U		<0.004	U		<0.007	U		<0.003	U		0.0046			<0.033	U	
		VMP-10-5-090710	9/7/2010	<0.0048	U		0.02			0.0035	J		0.0029	J		0.0017	J		<0.0039	U		0.014			<0.039	U	
		VMP-10-5-111810	11/17/2010	0.00036	J		<0.012	U		<0.0059	U		0.0024	J		<0.0082	J	U	<0.0036	U		<0.0046	U		<0.036	U	
		VMP-10-5-021011	2/10/2011	<0.0043	U		0.0058	J		<0.0058	U		<0.0051	U		<0.0081	U		<0.0035	U		0.0028	J		<0.035	U	
		VMP-10-5-040511	4/5/2011	0.00036	J		0.065			<0.0054	J	U	<0.0047	U		<0.0075	J	U	0.0062			0.0082			<0.033	J	U
		VMP-10-5-072911	7/29/2011	<0.0048	U		0.023			<0.0066	U		0.00097	J		<0.0091	U		0.0014	J		0.009			<0.04	U	
	10 ft	VMP-10-10	11/11/2009	<0.004	U		<0.011	U		<0.005	U		<0.004	U		<0.007	U		<0.003	U		<0.004	U		<0.034	U	
		VMP-10-10-090710	9/7/2010	<0.0048	U		0.01	J		<0.0065	U		<0.0056	U		0.0024	J		<0.0039	U		0.0014	J		<0.039	U	
		VMP-10-10-111810	11/17/2010	0.00046	J		0.018			<0.0063	U		0.0022	J		0.0026	J		0.0023	J		0.0019	J		<0.038	U	
		VMP-10-10-021111	2/11/2011	<0.0036	U		0.11			<0.005	J	U	<0.0043	U		0.00083	J		0.0023	J		0.0035	J		<0.03	U	
		VMP-10-10-040611	4/6/2011	<0.0048	U		<0.013	U		<0.0065	J	U	<0.0056	U		<0.009	J	U	<0.0039	U		0.0018	J		<0.039	J	U
		VMP-10-10-072911	7/29/2011	<0.005	U		0.036			<0.0068	U		0.0015	J		<0.0094	U		0.002	J		0.024			<0.041	U	
	20 ft	VMP-10-20	11/11/2009	<0.004	U		<0.011	U		<0.005	U		<0.004	U		<0.007	U		<0.003	U		0.0052			<0.033	U	
		VMP-10-20-D	11/11/2009	<0.004	U		<0.012	U		<0.006	U		<0.005	U		<0.008	U		<0.003	U		0.0058			<0.037	U	
		VMP-10-20-090710	9/7/2010	<0.005	U		0.023			<0.0068	U		<0.0059	U		<0.0094	U		0.0036	J		0.005	J		<0.041	U	
		VMP-10-20-090710-Dup	9/7/2010	<0.0046	U		0.033			<0.0063	U		<0.0055	U		0.0007	J		0.0042			0.0098			<0.038	U	
		VMP-10-20-111810	11/17/2010	0.0012	J		<0.024	U		<0.012	U		<0.01	U		<0.016	J	U	<0.0072	U		<0.0092	U		<0.072	U	
		VMP-10-20-111810-Dup	11/17/2010	0.00047	J		0.037			<0.0061	U		0.0025	J		<0.0084	J	U	<0.0036	U		0.0012	J		<0.037	U	
		VMP-10-20-021111	2/11/2011	<0.0044	U		0.0048	J		<0.006	U		<0.0052	U		0.002	J		<0.0036	U		0.0064			<0.036	U	
		VMP-10-20-040611	4/6/2011	<0.0053	U		0.054			<0.0072	U		<0.0063	U		<0.01	J	U	<0.0043	U		0.026			<0.044	J	U
30 ft	VMP-10-20-072911	7/29/2011	<0.0049	U		0.024			<0.0067	U		0.0016	J		<0.0092	U		0.0014	J		0.014			<0.04	U		
	VMP-10-30	11/13/2009	<0.004	U		<0.012	U		<0.006	U		<0.005	U		<0.008	U		<0.003	U		<0.004	U		<0.037	U		
VMP-11	5 ft	VMP-11-5	11/17/2009	<0.032	U		<0.088	U		<0.044	U		<0.038	U		<0.061	U		<0.026	U		<0.034	U		<0.26	U	
		VMP-11-5-090710	9/7/2010	<0.0044	U		<0.013		U	0.00087	J		<0.0053	U		<0.0084	U		<0.0036	U		0.003	J		<0.037	U	
		VMP-11-5-112210	11/22/2010	<0.0046	U		0.078			<0.0063	U		0.006			<0.0088	U		<0.0038	U		0.0024	J		<0.038	U	
		VMP-11-5-021111	2/11/2011	<0.0041	U		0.0096	J		<0.0056	J	U	<0.0048	U		<0.0077	U		<0.0034	U		0.0069			<0.034	U	
		VMP-11-5-040611	4/6/2011	<0.039	U		<0.11	U		<0.053	U		<0.046	U		<0.073	U		<0.032	U		0.0087	J		<0.32	U	
		VMP-11-5-080711	8/7/2011	<0.054	U		0.068	J		<0.073	U		<0.063	U		<0.1	U		<0.044	U		0.021	J		<0.44	U	
	8 ft	VMP-11-8	11/17/2009	<0.004	U		0.032			<0.006	U		<0.005	U		<0.008	U		<0.003	U		<0.004	U		<0.037	U	
		VMP-11-8-080910	9/8/2010	<0.0046	U		<0.013	J	U	<0.0063	U		<0.0055	U		<0.0088	U		<0.0038	U		0.0025	J		<0.038	U	
		VMP-11-8-112210	11/22/2010	<0.0046	U		0.033			<0.0063	U		0.0035	J		<0.0088	U		<0.0038	U		<0.0049	J	U	<0.038	U	
		VMP-11-8-021111	2/11/2011	<0.0045	U		0.0044	J		<0.0061	U		<0.0053	U		<0.0085	U		<0.0037	U		<0.0047	U		<0.037	U	
		VMP-11-8-021111-Dup	2/11/2011	<0.0042	U		0.0062	J		<0.0058	U		<0.005	U		<0.008	U		<0.0035	U		<0.0044	U		<0.035	U	
		VMP-11-8-040611	4/6/2011	<0.02	U		<0.054	U		<0.027	U		<0.024	U		<0.038	U		<0.016	U		<0.021	U		<0.16	U	
		VMP-11-8-040611-Dup	4/6/2011	<0.017	U		<0.047	U		<0.024	U		<0.02	U		<0.033	U		<0.014	U		0.0034	J		<0.14	U	
		VMP-11-8-080711	8/7/2011	<0.054	U		0.11	J		<0.073	U		<0.063	U		<0.1	U		<0.044	U		0.019	J		<0.44	U	
	29 ft	VMP-11-29	11/18/2009	<31	U		<84	U		<42	U		<36	U		<58	U		<25	U		<32	U		<250	U	
		VMP-11-29-090810	9/8/2010	0.053	J		<0.32	U		0.059	J		<0.14	U		<0.22	U		<0.095	U		<0.12	U		<0.96	U	
		VMP-11-29-112210	11/22/2010	<1.6	U		<4.5	U		<2.3	U		<2	U		<3.1	U		<1.4	U		<1.7	U		<14	U	
		VMP-11-29-112210-Dup	11/22/2010	<1.2	U		<3.2	U		<1.6	U		<1.4	U		0.69	J		<0.94	U		<1.2	U		<9.5	U	
		VMP-11-29-021411	2/14/2011	0.0011	J		0.023			<0.0061	U		<0.0053	U		0.0014	J		<0.0037	U		0.0027	J		<0.037	U	
		VMP-11-29-040611	4/6/2011	0.0031	J		<0.093	U		<0.046	U		<0.04	U		<0.064	U		<0.028	U		<0.036	U		<0.28	U	
VMP-11-29-082511		8/25/2011	0.0012	J		0.033			<0.0068	U		0.00098	J		<0.0094	U		<0.0041	U		0.0079			<0.041	U		
VMP-11-29-082511-Dup		8/25/2011	0.00088	J		0.034			<0.0068	U		0.00091	J		<0.0094	U		0.001	J		0.0071			<0.041	U		
38 ft	VMP-11-38	11/18/2009	<89	U																							

See last page of table for notes.

Location				1,1,1-Trichloroethane (Methyl chloroform)			1,1,2-Trichloroethane			1,1,1,2-Tetrachloroethane			1,1,2,2-Tetrachloroethane			1,1,1,2,2-Pentachloroethane			Ethylbenzene			2,2,4-Trimethylpentane			m,p-Xylene			o-Xylenes		
Sample ID	Sample Date	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier		
VMP-10-5	11/11/2009	<0.006	U		<0.006	U		<0.005	U		<0.006	U		<0.005	U		<0.005	U		<0.005	U		<0.004	U		<0.004	U			
VMP-10-5-090710	9/7/2010	<0.0072	U		<0.0072	U		<0.0071	U		0.001	J		0.007	J		0.0023	J		0.093			0.014			0.0065				
VMP-10-5-111810	11/17/2010	0.00085	J		<0.0066	U		<0.0065	J	U	0.00082	J		<0.0059	U		<0.0059	U		0.025			<0.0052	J	U	<0.0052	U			
VMP-10-5-021011	2/10/2011	<0.0065	U		<0.0065	U		<0.0064	U		<0.0067	U		0.0013	J		<0.0058	U		0.2			0.0046	J		0.0011	J			
VMP-10-5-040511	4/5/2011	<0.006	U		<0.006	U		<0.0059	J	U	0.00085	J		0.0054	J	U	<0.0054	J	U	0.011			0.0058			<0.0048	J	U		
VMP-10-5-072911	7/29/2011	<0.0073	U		<0.0073	U		<0.0072	U		<0.0075	U		<0.0066	J	U	<0.0066	U		0.003	J		0.0033	J		0.00096	J			
VMP-10-10	11/11/2009	<0.006	U		<0.006	U		<0.006	U		<0.006	U		<0.005	U		<0.005	U		<0.005	U		<0.005	U		<0.005	U			
VMP-10-10-090710	9/7/2010	<0.0072	U		<0.0072	U		<0.0071	U		0.00097	J		<0.0065	U		<0.0065	U		0.048			0.0011	J		<0.0057	U			
VMP-10-10-111810	11/17/2010	0.0013	J		<0.007	U		<0.0069	J	U	0.00098	J		<0.0063	U		<0.0063	U		0.026			<0.0056	J	U	<0.0056	U			
VMP-10-10-021111	2/11/2011	<0.0055	U		<0.0055	U		0.002	J		0.00063	J		<0.005	J	U	<0.005	U		0.018			0.0034	J		0.0011	J			
VMP-10-10-040611	4/6/2011	<0.0072	U		<0.0072	U		<0.0071	J	U	0.0012	J		<0.0065	J	U	<0.0065	U		0.0088			<0.0057	J	U	<0.0057	U			
VMP-10-10-072911	7/29/2011	<0.0075	U		<0.0075	U		<0.0074	U		<0.0078	U		0.0047	J		<0.0068	J	U	0.0094			0.0072			0.0018	J			
VMP-10-20	11/11/2009	<0.006	U		<0.006	U		<0.006	U		<0.006	U		<0.005	U		<0.005	U		<0.005	U		<0.004	U		<0.004	U			
VMP-10-20-D	11/11/2009	<0.006	U		<0.006	U		<0.006	U		<0.006	U		<0.006	U		<0.006	U		<0.005	U		<0.005	U		<0.005	U			
VMP-10-20-090710	9/7/2010	<0.0075	U		<0.0075	U		<0.0074	U		0.0013	J		<0.0068	U		<0.0068	U		0.027		J	0.0043	J		0.0015	J			
VMP-10-20-090710-Dup	9/7/2010	<0.007	U		<0.007	U		<0.0069	U		0.0018	J		0.0013	J		<0.0063	U		0.011		J	0.0037	J		0.0013	J			
VMP-10-20-111810	11/17/2010	0.0024	J		<0.013	U		0.0042	J		<0.014	U		<0.012	U		<0.012	U		0.01	J	J	<0.011	U		<0.011	U			
VMP-10-20-111810-Dup	11/17/2010	0.0011	J		<0.0067	U		0.002	J		0.00085	J		<0.0061	U		<0.0061	U		0.03		J	<0.0054	J	U	<0.0054	U			
VMP-10-20-021111	2/11/2011	<0.0066	U		<0.0066	U		0.0033	J		<0.0068	U		<0.006	U		<0.006	U		0.014			0.00059	J		<0.0053	U			
VMP-10-20-040611	4/6/2011	<0.008	U		<0.008	U		<0.0079	J	U	0.0014	J		<0.0072	J	U	<0.0072	U		0.031			<0.0068		U	0.0016	J			
VMP-10-20-072911	7/29/2011	<0.0074	U		<0.0074	U		<0.0073	U		<0.0077	U		0.005	J		<0.0067	J	U	0.0054	J		0.0053	J		0.0018	J			
VMP-10-30	11/13/2009	<0.006	U		<0.006	U		<0.006	U		<0.007	U		<0.006	U		<0.006	U		<0.005	U		<0.005	U		<0.005	U			
VMP-11-5	11/17/2009	<0.049	U		<0.049	U		<0.048	U		<0.05	U		<0.044	U		<0.044	U		<0.042	U		<0.039	U		<0.039	U			
VMP-11-5-090710	9/7/2010	<0.0067	U		<0.0067	U		<0.0066	U		0.0012	J		<0.0061	U		<0.0061	U		0.041			0.0015	J		<0.0054	U			
VMP-11-5-112210	11/22/2010	<0.007	U		<0.007	U		<0.0069	U		<0.0072	U		<0.0063	U		<0.0063	U		0.0019	J		<0.0056	J	U	<0.0056	U			
VMP-11-5-021111	2/11/2011	<0.0062	U		<0.0062	U		0.0024	J		0.001	J		<0.0056	J	U	<0.0056	U		0.065			0.0089			0.0029	J			
VMP-11-5-040611	4/6/2011	<0.059	U		<0.059	U		<0.058	U		<0.061	U		<0.053	U		<0.053	U		0.11			<0.047	U		<0.047	U			
VMP-11-5-080711	8/7/2011	<0.081	U		<0.081	U		<0.08	U		<0.083	U		<0.073	U		<0.073	U		<0.069	U		0.012	J		<0.064	U			
VMP-11-8	11/17/2009	<0.006	U		<0.006	U		<0.006	U		<0.006	U		<0.006	U		<0.006	U		<0.005	U		<0.005	U		<0.005	U			
VMP-11-8-080910	9/8/2010	<0.007	U		<0.007	U		<0.0069	U		0.002	J		<0.0063	U		<0.0063	U		0.01			<0.0056	J	U	<0.0056	U			
VMP-11-8-112210	11/22/2010	<0.007	U		<0.007	U		<0.0069	U		<0.0072	U		<0.0063	U		<0.0063	U		0.0024	J		<0.0056	J	U	<0.0056	U			
VMP-11-8-021111	2/11/2011	<0.0068	U		<0.0068	U		0.0034	J		<0.007	U		<0.0061	U		<0.0061	U		0.012			<0.0054	U		<0.0054	U			
VMP-11-8-021111-Dup	2/11/2011	<0.0064	U		<0.0064	U		0.0031	J		0.001	J		<0.0058	U		<0.0058	U		0.0085			<0.0051	U		<0.0051	U			
VMP-11-8-040611	4/6/2011	<0.03	U		<0.03	U		<0.03	U		<0.031	U		<0.027	U		<0.027	U		0.062			<0.024	U		<0.024	U			
VMP-11-8-040611-Dup	4/6/2011	<0.026	U		<0.026	U		0.0028	J		<0.027	U		<0.024	U		<0.024	U		0.048			<0.021	U		<0.021	U			
VMP-11-8-080711	8/7/2011	<0.081	U		<0.081	U		<0.08	U		<0.083	U		<0.073	U		<0.073	U		<0.069	U		0.01	J		<0.064	U			
VMP-11-29	11/18/2009	<46	U		<46	U		<46	U		<48	U		<42	U		<42	U		<40	U		<37	U		<37	U			
VMP-11-29-090810	9/8/2010	<0.18	U		<0.18	U		<0.17	U		<0.18	U		0.17			0.088	J		1.1			0.1	J		0.072	J			
VMP-11-29-112210	11/22/2010	<2.5	U		<2.5	U		<2.5																						

See last page of table for notes.

TABLE 4

Location	Depth	Sample ID	Sample Date	Acetone			Benzene			CUMULATIVE SUMMARY OF SOIL PUBLIC WORKS YARD AND WRR VOCS			VAPOR ANALYTICAL DETECTION AND SCREENING RESULTS			Butane			2-Butanone			Carbon disulfide					
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier			
VMP-13	5 ft	VMP-13-5	11/16/2009	<23	U		5900			<16	U		<9.4	U		<5.4	U					<7.1	U		<7.5	U	
		VMP 13-5-091310	9/13/2010	0.032	J		9			<0.059	U		<0.034	U		<0.019	U					0.0055	J		0.018	J	
		VMP-13-5-120110	12/1/2010	0.013			0.0049			<0.0078	U		<0.0045	U		<0.0026	U					<0.0034	J	U	<0.0036	U	
		VMP-13-5-021811	2/18/2011	0.013	J		0.0023	J		<0.0092	U		<0.0054	U		<0.003	U					0.0019	J		<0.0043	U	
		VMP-13-5-040511	4/5/2011	0.017	J		0.048			<0.018	U		<0.011	U		<0.0061	U	0.018	J			<0.032	U		<0.034	U	
		VMP-13-5-080911	8/9/2011	0.061		J	0.026		J	<0.02	U		<0.011	U		<0.0065	U	1.7		J		0.013	J		<0.037	U	
	10.5 ft	VMP-13-5-080911-Dup	8/9/2011	0.095		J	0.018		J	<0.018	U		<0.01	U		<0.0058	U	1.2		J		0.015	J		<0.033	J	U
		VMP-13-10.5	11/17/2009	<2.8	U		500			<2	U		<1.2	U		<0.66	U					<0.88	U		<0.93	U	
		VMP-13-10.5-D	11/17/2009	<2.9	U		570			<2.1	U		<1.2	U		<0.68	U					<0.91	U		<0.96	U	
		VMP 13-10.5-091310	9/13/2010	0.017	J		3.3			<0.022	U		<0.013	U		<0.0072	U					<0.0096	U		0.0056	J	
		VMP 13-10.5-091310-Dup	9/13/2010	0.07			3.4			<0.021	U		<0.012	U		<0.007	U					0.0036	J		0.02		
		VMP-13-10.5-120110	12/1/2010	0.012			0.0045			<0.0087	U		<0.005	U		<0.0029	U					<0.0038	J	U	<0.004	U	
		VMP-13-10.5-120110-Dup	12/1/2010	<0.013	J	U	0.0066			<0.009	U		<0.0052	U		<0.003	U					<0.004	J	U	<0.0042	U	
		VMP-13-10.5-021811	2/18/2011	2.8	J		420			<3.6	U		<2.1	U		<1.2	U					<1.6	U		<1.7	U	
		VMP-13-10.5-021811-Dup	2/18/2011	<4.9	U		420			<3.4	U		<2	U		<1.1	U					<1.5	U		<1.6	U	
		VMP-13-10.5-040511	4/5/2011	0.012	J		0.017			<0.0092	U		<0.0054	U		<0.003	U	0.012	J			<0.016	U		<0.017	U	
	VMP-13-10.5-080911	8/9/2011	<0.29	U		51			<0.2	U		<0.12	U		<0.067	U	33				<0.36	U		<0.094	U		
	21.5 ft	VMP-13-21.5	11/17/2009	<140	U		24000			<100	U		<59	U		<34	U					<45	U		<47	U	
		VMP 13-21.5-091310	9/13/2010	<23	U		5800			<16	U		<9.4	U		<5.4	U					<7.1	U		<7.5	U	
		VMP-13-21.5-120110	12/1/2010	<44	U		5400			<31	U		<18	U		<10	U					<14	U		<15	U	
		VMP-13-21.5-021811	2/18/2011	<6.6	U		640			<4.7	U		<2.7	U		<1.5	U					<2.1	U		0.36	J	
		VMP-13-21.5-040511	4/5/2011	<9.6	U		1400			<6.8	U		<3.9	U		<2.2	U	35				<12	U		<3.1	U	
		VMP-13-21.5-080911	8/9/2011	<1.2	U		830			<0.84	U		<0.49	U		<0.28	U	59				<1.5	U		<0.39	U	
	29.5 ft	VMP-13-29.5	11/17/2009	<280	U		90000			<200	U		<120	U		<66	U					<88	U		<93	U	
		VMP-13-29.5-021811	2/18/2011	<200	U		17000			<140	U		<84	U		<48	U					<64	U		<67	U	
	VMP-13-29.5-040511	4/5/2011	<130	U		23000			<94	U		<54	U		<31	U	94	J			<160	U		<44	U		
VMP-14	5 ft	VMP-14-5	11/20/2009	<0.024	U		0.021			<0.017	U		<0.01	U		<0.005	U					<0.007	U		<0.008	U	
		VMP 14-5-091010	9/10/2010	<0.59	U		0.71			<0.42	U		<0.24	U		<0.14	U					<0.18	U		<0.19	U	
		VMP-14-5-120110	12/1/2010	0.017			0.008			0.0012	J		<0.0047	U		<0.0026	U					0.0028	J		<0.0037	U	
		VMP-14-5-021711	2/17/2011	0.0069	J		1.2			<0.0088	U		<0.0051	U		<0.0029	U					<0.0039	U		<0.0041	J	U
		VMP-14-5-040511	4/5/2011	0.012	J		0.011			<0.009	U		<0.0052	J	U	<0.003	U	1.5	E	J		<0.016	U		<0.017	J	U
		VMP-14-5-080811	8/8/2011	<13	U		13			<9.4	U		<5.4	U		<3.1	U	2600				<16	U		<4.4	U	
	11.5 ft	VMP-14-11.5	11/16/2009	<2.9	U		550			<2.1	U		<1.2	U		<0.68	U					<0.91	U		<0.96	U	
		VMP 14-11.5-091010	9/10/2010	<9.1	U		52			<6.4	U		<3.7	U		<2.1	U					<2.8	U		<3	U	
		VMP-14-11.5-120110	12/2/2010	<0.8	U		0.28			<0.56	U		<0.33	U		<0.18	U					<0.25	U		<0.26	U	
		VMP-14-11.5-120110-Dup	12/2/2010	<0.72	U		0.28			<0.51	U		<0.3	U		<0.17	U					<0.22	U		<0.24	U	
		VMP-14-11.5-021711	2/17/2011	<0.26	U		0.86			<0.18	U		<0.11	U		<0.061	U					<0.081	U		0.052	J	
		VMP-14-11.5-021711-Dup	2/17/2011	<0.26	U		1			<0.18	U		<0.11	U		<0.061	U					<0.081	U		0.041	J	
		VMP-14-11.5-040511	4/5/2011	<0.043	U		0.079			<0.03	U		<0.017	U		<0.0099	U	18	E	J		0.014	J		<0.056	J	U
		VMP-14-11.5-080811	8/8/2011	<1.3	U		0.18	J		<0.93	U		<0.54	U		<0.31	U	320				<1.6	U		<0.43	U	
	20 ft	VMP-14-20	11/16/2009	<110	U		26000			<80	U		<46	U		<26	U					<35	U		<37	U	
		VMP 14-20-091010	9/10/2010	<140	U		37000			<97	U		<56	U		<32	U					<43	U		<45	U	
		VMP 14-20-091010-Dup	9/10/2010	<140	U		35000			<100	U		<59	U		<33	U					<44	U		<47	U	
		VMP-14-20-120110	12/2/2010	<370	U		47000			<260	U		<150	U		<87	U					<120	U		<120	U	
		VMP-14-20-021811	2/18/2011	<210	U		20000			<150	U		<86	U		<49	U					<65	U		<69	U	
		VMP-14-20-040511	4/5/2011	18	J		22000			<64	U		<37	U		<21	U	3400				<110	U		<30	U	
	29 ft	VMP-14-20-080811	8/8/2011	<33	U		17000			<23	U		<13	U		<7.6	U	6000				<41	U		<11	U	
		VMP-14-29	11/16/2009	&lt																							

See last page of table for notes.

TABLE 4

Location	Depth	Sample ID	Sample Date	Carbon tetrachloride			Chlorobenzene CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS			Chlorobenzene CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS			Chlorobenzene CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS			Ethylbenzene			alpha-Chlorotoluene			Cyclohexane					
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier			
VMP-13	5 ft	VMP-13-5	11/16/2009	<15	U		<11	U		<21	U		<6.4	U		<12	U		<20	U		<12	U		<8.3	U	
		VMP 13-5-091310	9/13/2010	<0.055	U		<0.04	U		<0.075	U		<0.023	U		<0.043	U		<0.073	U		<0.046	U		0.014	J	
		VMP-13-5-120110	12/1/2010	<0.0073	U		<0.0054	U		<0.0099	U		<0.0031	U		<0.0057	U		<0.0096	U		<0.006	U		0.031		
		VMP-13-5-021811	2/18/2011	<0.0087	U		<0.0064	U		<0.012	U		<0.0036	U		<0.0067	U		<0.011	U		<0.0071	U		0.003	J	
		VMP-13-5-040511	4/5/2011	<0.017	U		<0.013	U		<0.024	U		<0.029	U		<0.013	U		<0.023	U		<0.014	U		0.0021	J	
		VMP-13-5-080911	8/9/2011	<0.019	U		0.0046	J		<0.025	U		<0.031	U		<0.014	U		<0.024	U		<0.015	J	U	0.0068	J	
	10.5 ft	VMP-13-5-080911-Dup	8/9/2011	<0.017	U		0.0044	J		<0.022	U		<0.028	U		<0.013	U		<0.022	U		<0.014	U		0.0048	J	
		VMP-13-10.5	11/17/2009	<1.9	U		<1.4	U		<2.5	U		<0.78	U		<1.4	U		<2.4	U		<1.5	U		<1	U	
		VMP-13-10.5-D	11/17/2009	<1.9	U		<1.4	U		<2.6	U		<0.82	U		<1.5	U		<2.6	U		<1.6	U		<1.1	U	
		VMP 13-10.5-091310	9/13/2010	<0.02	U		<0.015	U		<0.028	U		<0.0086	U		<0.016	U		<0.027	U		<0.017	U		0.014		
		VMP 13-10.5-091310-Dup	9/13/2010	<0.02	U		<0.015	U		<0.027	U		<0.0084	U		<0.016	U		<0.026	U		<0.016	U		0.015		
		VMP-13-10.5-120110	12/1/2010	<0.0081	U		<0.006	U		<0.011	U		<0.0034	U		0.0012	J		<0.011	U		<0.0067	U		0.0029	J	
		VMP-13-10.5-120110-Dup	12/1/2010	<0.0085	U		<0.0062	U		<0.012	U		<0.0036	U		0.00098	J		<0.011	U		<0.007	U		0.0048		
		VMP-13-10.5-021811	2/18/2011	<3.4	U		<2.5	U		<4.6	U		<1.4	U		<2.6	U		<4.4	U		<2.8	U		0.78	J	
		VMP-13-10.5-021811-Dup	2/18/2011	<3.2	U		<2.4	U		<4.4	U		<1.4	U		<2.5	U		<4.2	U		<2.7	U		0.9	J	
		VMP-13-10.5-040511	4/5/2011	<0.0087	U		<0.0064	U		<0.012	J	U	<0.014	U		<0.0067	U		<0.011	U		<0.0071	U		0.0039	J	
	21.5 ft	VMP-13-10.5-080911	8/9/2011	<0.19	U		<0.14	U		<0.26	U		<0.32	U		<0.15	U		<0.25	U		<0.16	U		<0.1	U	
		VMP-13-21.5	11/17/2009	<96	U		<70	U		<130	U		<40	U		<74	U		<120	U		<79	U		<52	U	
		VMP 13-21.5-091310	9/13/2010	<15	U		<11	U		<21	U		<6.4	U		<12	U		<20	U		<12	U		2.5	J	
		VMP-13-21.5-120110	12/1/2010	<30	U		<22	U		<40	U		<12	U		<23	U		<39	U		<24	U		<16	U	
		VMP-13-21.5-021811	2/18/2011	<4.4	U		<3.2	U		<6	U		<1.8	U		<3.4	U		<5.8	U		<3.6	U		0.7	J	
		VMP-13-21.5-040511	4/5/2011	<6.4	U		<4.6	U		<8.6	U		<11	U		<4.9	U		<8.3	U		<5.2	U		1	J	
	29.5 ft	VMP-13-21.5-080911	8/9/2011	<0.79	U		<0.58	U		<1.1	U		<1.3	U		<0.62	U		<1	U		<0.65	U		<0.43	U	
		VMP-13-29.5	11/17/2009	<190	U		<140	U		<250	U		<78	U		<140	U		<240	U		<150	U		<100	U	
		VMP-13-29.5-021811	2/18/2011	<140	U		<99	U		<180	U		<57	U		<100	U		<180	U		<110	U		<74	U	
VMP-14	5 ft	VMP-13-29.5-040511	4/5/2011	<88	U		<64	U		<120	U		<150	U		<68	U		<120	U		<72	U		<48	U	
		VMP-14-5	11/20/2009	<0.016	U		<0.012	U		<0.022	U		<0.006	U		<0.012	U		<0.021	U		<0.013	U		<0.008	U	
		VMP 14-5-091010	9/10/2010	<0.39	U		<0.28	U		<0.53	U		<0.16	U		<0.3	U		<0.51	U		<0.32	U		0.85		
		VMP-14-5-120110	12/1/2010	<0.0076	U		<0.0055	U		<0.01	U		<0.0032	U		0.00067	J		<0.0099	U		<0.0062	U		0.001	J	
		VMP-14-5-021711	2/17/2011	<0.0083	U		<0.0061	U		<0.011	U		<0.0035	U		<0.0064	U		<0.011	U		<0.0068	U		0.069		
		VMP-14-5-040511	4/5/2011	<0.0085	U		<0.0062	U		<0.011	U		<0.014	U		<0.0066	U		<0.011	U		<0.007	U		0.0013	J	
	11.5 ft	VMP-14-5-080811	8/8/2011	<8.8	U		<6.5	U		<12	U		<15	U		<6.9	U		<12	U		<7.3	U		91		
		VMP-14-11.5	11/16/2009	<1.9	U		<1.4	U		<2.6	U		<0.81	U		<1.5	U		<2.5	U		<1.6	U		180		
		VMP 14-11.5-091010	9/10/2010	<6	U		<4.4	U		<8.1	U		<2.5	U		<4.7	U		<7.9	U		<4.9	U		140		
		VMP-14-11.5-120110	12/2/2010	<0.53	U		<0.39	U		<0.72	U		<0.22	U		<0.41	U		<0.69	U		<0.43	U		3.6		
		VMP-14-11.5-120110-Dup	12/2/2010	<0.48	U		<0.35	U		<0.65	U		<0.2	U		<0.37	U		<0.63	U		<0.39	U		3.7		
		VMP-14-11.5-021711	2/17/2011	<0.17	U		<0.13	U		<0.24	U		<0.073	U		<0.13	U		<0.23	U		<0.14	U		2.7		
		VMP-14-11.5-021711-Dup	2/17/2011	<0.17	U		<0.13	U		<0.24	U		<0.073	U		<0.13	U		<0.23	U		<0.14	U		3		
		VMP-14-11.5-040511	4/5/2011	<0.028	U		<0.021	U		<0.038	U		0.037	J		<0.022	U		<0.037	U		<0.023	U		1.2		
	20 ft	VMP-14-11.5-080811	8/8/2011	<0.87	U		<0.64	U		<1.2	U		0.24	J		<0.68	U		<1.1	U		<0.72	U		1.6		
		VMP-14-20	11/16/2009	<75	U		<55	U		<100	U		<31	U		<58	U		<98	U		<62	U		160		
		VMP 14-20-091010	9/10/2010	<92	U		<67	U		<120	U		<38	U		<71	U		<120	U		<75	U		250		
		VMP 14-20-091010-Dup	9/10/2010	<95	U		<70	U		<130	U		<40	U		<74	U		<120	U		<78	U		240		
		VMP-14-20-120110	12/2/2010	<250	U		<180	U		<330	U		<100	U		<190	U		<320	U		<200	U		310		
		VMP-14-20-021811	2/18/2011	<140	U																						

See last page of table for notes.

TABLE 4

Location	Depth	Sample ID	Sample Date	1,2-Dibromoethane			1,2-Dichlorobenzene			1,4-Dichlorobenzene			1,1,1-Trichloroethane			1,1,2,2-Tetrachloroethane			1,1-Dichloroethene			cis-1,2-Dichloroethene		
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier
VMP-13	5 ft	VMP-13-5	11/16/2009	<18	U		<14	U		<14	U		<14	U		<9.8	U		<9.8	U		<9.6	U	
		VMP 13-5-091310	9/13/2010	<0.068	U		<0.053	U		<0.053	U		<0.053	U		<0.036	U		<0.036	U		<0.035	U	
		VMP-13-5-120110	12/1/2010	<0.009	U		<0.007	U		<0.007	U		<0.007	U		<0.0047	U		<0.0047	U		<0.0046	U	
		VMP-13-5-021811	2/18/2011	<0.011	U		<0.0083	U		<0.0083	U		<0.0083	U		<0.0056	U		<0.0056	U		<0.0055	U	
		VMP-13-5-040511	4/5/2011	<0.021	U		<0.016	J	U	<0.016	J		<0.016	J	U	<0.011	U		<0.011	U		<0.011	U	
		VMP-13-5-080911	8/9/2011	<0.023	U		<0.018	U		<0.018	J	U	<0.018	J	U	<0.012	U		<0.012	U		<0.012	U	
	10.5 ft	VMP-13-5-080911-Dup	8/9/2011	<0.02	U		<0.016	U		<0.016	U		<0.016	U		<0.011	U		<0.011	U		<0.01	U	
		VMP-13-10.5	11/17/2009	<2.3	U		<1.8	U		<1.8	U		<1.8	U		<1.2	U		<1.2	U		<1.2	U	
		VMP-13-10.5-D	11/17/2009	<2.4	U		<1.8	U		<1.8	U		<1.8	U		<1.2	U		<1.2	U		<1.2	U	
		VMP 13-10.5-091310	9/13/2010	<0.025	U		<0.02	U		<0.02	U		<0.02	U		<0.013	U		<0.013	U		<0.013	U	
		VMP 13-10.5-091310-Dup	9/13/2010	<0.024	U		<0.019	U		<0.019	U		<0.019	U		<0.013	U		<0.013	U		<0.012	U	
		VMP-13-10.5-120110	12/1/2010	<0.01	U		<0.0078	U		<0.0078	U		<0.0078	U		<0.0052	U		<0.0052	U		<0.0051	U	
		VMP-13-10.5-120110-Dup	12/1/2010	<0.01	U		<0.0081	U		<0.0081	U		<0.0081	U		<0.0055	U		<0.0055	U		<0.0054	U	
		VMP-13-10.5-021811	2/18/2011	<4.1	U		<3.2	U		<3.2	U		<3.2	U		<2.2	U		<2.2	U		<2.1	U	
		VMP-13-10.5-021811-Dup	2/18/2011	<4	U		<3.1	U		<3.1	U		<3.1	U		<2.1	U		<2.1	U		<2	U	
		VMP-13-10.5-040511	4/5/2011	<0.011	J	U	<0.0083	U		<0.0083	U		<0.0083	J	U	<0.0056	U		<0.0056	U		<0.0055	U	
	21.5 ft	VMP-13-10.5-080911	8/9/2011	<0.23	U		<0.18	U		<0.18	U		<0.18	U		<0.12	U		<0.12	U		<0.12	U	
		VMP-13-21.5	11/17/2009	<120	U		<91	U		<91	U		<91	U		<62	U		<62	U		<60	U	
		VMP 13-21.5-091310	9/13/2010	<18	U		<14	U		<14	U		<14	U		<9.8	U		<9.8	U		<9.6	U	
		VMP-13-21.5-120110	12/1/2010	<36	U		<28	U		<28	U		<28	U		<19	U		<19	U		<18	U	
		VMP-13-21.5-021811	2/18/2011	<5.4	U		<4.2	U		<4.2	U		<4.2	U		<2.8	U		<2.8	U		<2.8	U	
		VMP-13-21.5-040511	4/5/2011	<7.8	U		<6.1	U		<6.1	U		<6.1	U		<4.1	U		<4.1	U		<4	U	
	29.5 ft	VMP-13-21.5-080911	8/9/2011	<0.97	U		<0.76	U		<0.76	U		<0.76	U		<0.51	U		<0.51	U		<0.5	U	
		VMP-13-29.5	11/17/2009	<230	U		<180	U		<180	U		<180	U		<120	U		<120	U		<120	U	
		VMP-13-29.5-021811	2/18/2011	<160	U		<130	U		<130	U		<130	U		<87	U		<87	U		<86	U	
		VMP-13-29.5-040511	4/5/2011	<110	U		<84	U		<84	U		<84	U		<57	U		<57	U		<56	U	
VMP-14	5 ft	VMP-14-5	11/20/2009	<0.02	U		<0.016	U		<0.016	U		<0.016	U		<0.01	U		<0.01	U		<0.01	U	
		VMP 14-5-091010	9/10/2010	<0.48	U		<0.37	U		<0.37	U		<0.37	U		<0.25	U		<0.25	U		<0.24	U	
		VMP-14-5-120110	12/1/2010	<0.0092	U		<0.0072	U		<0.0072	U		<0.0072	U		<0.0048	U		<0.0048	U		<0.0048	U	
		VMP-14-5-021711	2/17/2011	<0.01	U		<0.0079	U		<0.0079	U		<0.0079	U		<0.0053	U		<0.0053	U		<0.0052	U	
		VMP-14-5-040511	4/5/2011	<0.01	U		<0.0081	J	U	<0.0081	J	U	<0.0081	J	U	<0.0054	U		<0.0054	U		<0.0053	U	
		VMP-14-5-080811	8/8/2011	<11	U		<8.4	U		<8.4	U		<8.4	U		<5.7	U		<5.7	U		<5.6	U	
	11.5 ft	VMP-14-11.5	11/16/2009	<2.4	U		<1.8	U		<1.8	U		<1.8	U		<1.2	U		<1.2	U		<1.2	U	
		VMP 14-11.5-091010	9/10/2010	<7.3	U		<5.7	U		<5.7	U		<5.7	U		<3.9	U		<3.9	U		<3.8	U	
		VMP-14-11.5-120110	12/2/2010	<0.64	U		<0.5	U		<0.5	U		<0.5	U		<0.34	U		<0.34	U		<0.33	U	
		VMP-14-11.5-120110-Dup	12/2/2010	<0.58	U		<0.46	U		<0.46	U		<0.46	U		<0.31	U		<0.31	U		<0.3	U	
		VMP-14-11.5-021711	2/17/2011	<0.21	U		<0.16	U		<0.16	U		<0.16	U		<0.11	U		<0.11	U		<0.11	U	
		VMP-14-11.5-021711-Dup	2/17/2011	<0.21	U		<0.16	U		<0.16	U		<0.16	U		<0.11	U		<0.11	U		<0.11	U	
		VMP-14-11.5-040511	4/5/2011	<0.034	U		<0.027	U		<0.027	U		<0.027	U		<0.018	U		<0.018	U		<0.018	U	
		VMP-14-11.5-080811	8/8/2011	<1.1	U		<0.84	U		<0.84	U		<0.84	U		<0.56	U		<0.56	U		<0.55	U	
	20 ft	VMP-14-20	11/16/2009	<91	U		<72	U		<72	U		<72	U		<48	U		<48	U		<47	U	
		VMP 14-20-091010	9/10/2010	<110	U		<87	U		<87	U		<87	U		<59	U		<59	U		<58	U	
		VMP 14-20-091010-Dup	9/10/2010	<120	U		<91	U		<91	U		<91	U		<61	U		<61	U		<60	U	
		VMP-14-20-120110	12/2/2010	<300	U		<240	U		<240	U		<240	U		<160	U		<160	U		<160	U	
		VMP-14-20-021811	2/18/2011	<170	U		<130	U		<130	U		<130	U		<90	U		<90	U		<88	U	
		VMP-14-20-040511	4/5/2011	<73	U		<57	U		<57	U		<57	U		<38	U		<38	U		<38	U	
	29 ft	VMP-14-20-080811	8/8/2011	<26	U		<21	U		<21	U		<21	U		<14	U		<14	U		<14	U	
		VMP-14-29	11/16/2009	<360	U		<280	U		<280	U		<280	U		<190	U		<190	U		<180	U	
		VMP-14-29-021811	2/18/2011	<250	U		<190	U		<190	U		<190	U		<130	U		<130	U		<130	U	
		VMP-14-29-040511	4/5/2011	&																				

See last page of table for notes.

TABLE 4 ANALYTICAL DETECTIONS AND SCREENING RESULTS																											
Location	Depth	Sample ID	Sample Date	Dichlorodifluoromethane			Dichloromethane (Methylene chloride)			CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS			SUBSURFACE WORKS YARD AND WORKS VAPORS			RESULTS			Ethanol			Ethylbenzene			4-Ethyltoluene		
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier
VMP-13	5 ft	VMP-13-5	11/16/2009	<12	U		<8.4	U		<11	U		<11	U		<35	U		<18	U		<10	U		<12	U	
		VMP 13-5-091310	9/13/2010	<0.044	U		<0.03	U		<0.041	U		<0.04	U		<0.13	U		0.24			<0.038	U		<0.043	U	
		VMP-13-5-120110	12/1/2010	0.0032	J		<0.004	U		<0.0054	U		<0.0053	U		<0.017	U		0.007	J		0.047			0.032		
		VMP-13-5-021811	2/18/2011	0.0024	J		<0.0048	U		<0.0064	U		<0.0063	U		<0.02	U		0.024			<0.006	U		<0.0068	U	
		VMP-13-5-040511	4/5/2011	<0.014	U		0.0082	J		<0.013	U		<0.012	U		<0.04	U		0.0054	J		<0.012	U		<0.014	U	
		VMP-13-5-080911	8/9/2011	0.0027	J		0.0085	J		<0.014	U		<0.013	U		<0.043	U		0.063		J	0.0025	J		0.0019	J	
	10.5 ft	VMP-13-5-080911-Dup	8/9/2011	0.003	J		0.004	J		<0.012	U		<0.012	U		<0.038	U		0.14		J	0.0021	J		<0.013	U	
		VMP-13-10.5	11/17/2009	<1.5	U		<1	U		<1.4	U		<1.4	U		<4.3	U		<2.2	U		<1.3	U		<1.5	U	
		VMP-13-10.5-D	11/17/2009	<1.5	U		<1.1	U		<1.4	U		<1.4	U		<4.4	U		<2.3	U		<1.3	U		<1.5	U	
		VMP 13-10.5-091310	9/13/2010	0.0032	J		<0.011	U		<0.015	U		<0.015	U		<0.047	U		<0.024	U		<0.014	U		<0.016	U	
		VMP 13-10.5-091310-Dup	9/13/2010	0.0034	J		<0.011	U		<0.015	U		<0.014	J		0.041	J		0.014	J		<0.014	U		<0.016	U	
		VMP-13-10.5-120110	12/1/2010	0.003	J		<0.0045	U		<0.006	U		<0.0059	U		<0.019	U		<0.0098	U		<0.0056	J	U	<0.0064	U	
		VMP-13-10.5-120110-Dup	12/1/2010	0.0032	J		<0.0047	U		<0.0062	U		<0.0061	U		<0.019	U		0.016			<0.0059	U		<0.0066	U	
		VMP-13-10.5-021811	2/18/2011	<2.6	U		<1.8	U		<2.5	U		<2.4	U		<7.7	U		<4	U		<2.3	U		<2.6	U	
		VMP-13-10.5-021811-Dup	2/18/2011	<2.5	U		<1.8	U		<2.4	U		<2.3	U		<7.4	U		<3.9	U		<2.2	U		<2.5	U	
		VMP-13-10.5-040511	4/5/2011	0.0021	J		<0.0048	J	U	<0.0064	U		<0.0063	U		<0.02	U		0.0077	J		<0.006	U		<0.0068	U	
	VMP-13-10.5-080911	8/9/2011	<0.15	U		<0.1	U		<0.14	U		<0.14	U		<0.44	U		<0.23	U		<0.13	U		<0.15	U		
	21.5 ft	VMP-13-21.5	11/17/2009	<75	U		<53	U		<70	U		<69	U		<220	U		<110	U		<66	U		<75	U	
		VMP 13-21.5-091310	9/13/2010	<12	U		9.2			<11	U		<11	U		<35	U		<18	U		<10	U		<12	U	
		VMP-13-21.5-120110	12/1/2010	<23	U		28			<22	U		<21	U		<68	U		<35	U		<20	U		<23	U	
		VMP-13-21.5-021811	2/18/2011	<3.5	U		0.51	J		<3.2	U		<3.2	U		<10	U		<5.3	U		<3	U		<3.4	U	
		VMP-13-21.5-040511	4/5/2011	<5	U		2.3	J		<4.7	U		<4.6	U		<14	U		<7.6	U		<4.4	U		<5	U	
		VMP-13-21.5-080911	8/9/2011	<0.62	U		<0.44	U		<0.58	U		<0.57	U		<1.8	U		<0.95	U		0.38	J		<0.62	U	
	29.5 ft	VMP-13-29.5	11/17/2009	<150	U		<100	U		<140	U		<140	U		<430	U		<220	U		<130	U		<150	U	
		VMP-13-29.5-021811	2/18/2011	<110	U		<75	U		<100	U		<98	U		<310	U		<160	U		<94	U		<110	U	
		VMP-13-29.5-040511	4/5/2011	<69	U		<49	U		<65	U		<64	U		<200	U		<100	U		20	J		<69	U	
VMP-14	5 ft	VMP-14-5	11/20/2009	<0.013	U		<0.009	U		<0.012	U		<0.012	U		<0.037	U		<0.019	U		<0.011	U		<0.013	U	
		VMP 14-5-091010	9/10/2010	<0.31	U		<0.22	U		<0.29	U		<0.28	U		<0.89	U		<0.47	U		<0.27	U		<0.3	U	
		VMP-14-5-120110	12/1/2010	0.0025	J		<0.0042	U		<0.0055	U		<0.0054	U		<0.017	U		0.0085	J		<0.0052	U		<0.0059	U	
		VMP-14-5-021711	2/17/2011	0.0023	J		<0.0046	U		<0.0061	U		<0.006	U		<0.019	U		0.026	J	J	0.0029	J		<0.0065	U	
		VMP-14-5-040511	4/5/2011	0.0023	J		0.0022	J		<0.0062	U		<0.0061	U		<0.019	U		0.012			<0.0058	U		<0.0066	U	
		VMP-14-5-080811	8/8/2011	<6.9	U		<4.9	U		<6.5	U		<6.4	U		<20	U		<10	U		<6.1	U		<6.9	U	
	11.5 ft	VMP-14-11.5	11/16/2009	<1.5	U		<1.1	U		<1.4	U		<1.4	U		<4.4	U		<2.3	U		<1.3	U		<1.5	U	
		VMP 14-11.5-091010	9/10/2010	<4.7	U		<3.3	U		<4.4	U		<4.3	U		<14	U		<7.2	U		<4.1	U		<4.7	U	
		VMP-14-11.5-120110	12/2/2010	<0.42	U		1.2			<0.39	U		<0.38	U		<1.2	U		<0.63	U		<0.36	U		<0.41	U	
		VMP-14-11.5-120110-Dup	12/2/2010	<0.38	U		1.9			<0.35	U		<0.34	U		<1.1	U		<0.57	U		0.08	J		<0.37	U	
		VMP-14-11.5-021711	2/17/2011	<0.14	U		<0.096	U		<0.13	U		<0.12	U		<0.4	U		<0.21	U		<0.12	U		<0.14	U	
		VMP-14-11.5-021711-Dup	2/17/2011	<0.14	U		<0.096	U		<0.13	U		<0.12	U		<0.4	U		<0.21	U		<0.12	U		<0.14	U	
		VMP-14-11.5-040511	4/5/2011	<0.022	U		<0.016	U		<0.021	U		<0.02	U		<0.065	U		<0.034	U		0.0054	J		<0.022	U	
		VMP-14-11.5-080811	8/8/2011	<0.69	U		<0.48	U		<0.64	U		<0.63	U		<2	U		<1	U		<0.6	U		<0.68	U	
		VMP-14-20	11/16/2009	<59	U		<41	U		<55	U		<54	U		<170	U		<90	U		<52	U		<58	U	
	20 ft	VMP 14-20-091010	9/10/2010	<72	U		18	J		<67	U		<66	U		<210	U		<110	U		<63	U		<72	U	
		VMP 14-20-091010-Dup	9/10/2010	<75	U		<52	U		<70	U		<68	U		<220	U		<110	U		<66	U		<74	U	
		VMP-14-20-120110	12/2/2010	<190	U		160			<180	U		<180	U		<560	U		<300	U		<170	U		<190	U	
		VMP-14-20-021811	2/18/2011	<110	U		<77	U		<100	U		<100	U		<320	U		<170	U		<96	U		<110	U	

See last page of table for notes.

TABLE 4

Location	Depth	Sample ID	Sample Date	Freon 113			Heptane			Cumulative			2-Hexanone (Methyl N-Butyl Ketone)			Pentane			Isopropylbenzene (Cumene)			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)					
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier			
VMP-13	5 ft	VMP-13-5	11/16/2009	<18	U		<9.9	U		<100	U		<8.5	U		<40	U				<12	U		<9.9	U		
		VMP 13-5-091310	9/13/2010	<0.067	U		0.0094	J		<0.38	U		0.015	J		<0.14	U				<0.043	U		<0.036	U		
		VMP-13-5-120110	12/1/2010	<0.0089	U		0.084	J		<0.05	U		0.14			<0.019	U				0.0037	J		<0.0048	U		
		VMP-13-5-021811	2/18/2011	<0.01	U		0.0016	J		<0.059	U		0.0022	J		0.00065	J				<0.0068	U		<0.0056	U		
		VMP-13-5-040511	4/5/2011	<0.021	U		0.007	J		<0.12	U		0.0088	J		<0.045	U		0.021	J		<0.014	U		<0.011	U	
		VMP-13-5-080911	8/9/2011	<0.023	U		<0.012	U		<0.13	U		0.0065	J		<0.048	U		3		J	0.039		J	0.12		J
	10.5 ft	VMP-13-5-080911-Dup	8/9/2011	<0.02	U		<0.011	U		<0.11	U		0.0098			0.0024	J		2		J	0.026		J	0.081		J
		VMP-13-10.5	11/17/2009	<2.3	U		<1.2	U		<13	U		<1	U		<4.9	U					<1.5	U		<1.2	U	
		VMP-13-10.5-D	11/17/2009	<2.4	U		<1.3	U		<13	U		<1.1	U		<5.1	U					<1.5	U		<1.3	U	
		VMP 13-10.5-091310	9/13/2010	<0.025	U		0.0052	J		<0.14	U		0.028		J	<0.053	U					<0.016	U		<0.013	U	
		VMP 13-10.5-091310-Dup	9/13/2010	<0.024	U		0.0072	J		<0.14	U		0.043		J	<0.052	U					<0.016	U		<0.013	U	
		VMP-13-10.5-120110	12/1/2010	<0.0099	U		0.0029	J		<0.055	U		0.0076			<0.021	U					<0.0064	U		<0.0053	U	
		VMP-13-10.5-120110-Dup	12/1/2010	<0.01	U		0.0036	J		<0.058	U		0.01			<0.022	U					<0.0066	U		<0.0055	U	
		VMP-13-10.5-021811	2/18/2011	<4.1	U		<2.2	U		<23	U		<1.9	U		<8.8	U					<2.6	U		<2.2	U	
		VMP-13-10.5-021811-Dup	2/18/2011	<3.9	U		<2.1	U		<22	U		<1.8	U		<8.4	U					<2.5	U		<2.1	U	
		VMP-13-10.5-040511	4/5/2011	<0.01	U		0.003	J		<0.059	U		0.0063			<0.023	U		0.017			<0.0068	U		<0.0056	U	
	VMP-13-10.5-080911	8/9/2011	<0.23	U		<0.12	U		<1.3	U		0.3			<0.5	U		48			0.027	J		<0.12	U		
	21.5 ft	VMP-13-21.5	11/17/2009	<120	U		<62	U		<650	U		<54	U		<250	U					<75	U		<62	U	
		VMP 13-21.5-091310	9/13/2010	<18	U		<9.9	U		<100	U		2.1	J		<40	U					<12	U		<9.9	U	
		VMP-13-21.5-120110	12/1/2010	<36	U		<19	U		<200	U		<16	U		<77	U					<23	U		<19	U	
		VMP-13-21.5-021811	2/18/2011	<5.4	U		<2.9	U		<30	U		<2.5	U		<11	U					<3.4	U		<2.9	U	
		VMP-13-21.5-040511	4/5/2011	<7.7	U		<4.1	U		<43	U		<3.6	U		<16	U		40			<5	U		<4.1	U	
		VMP-13-21.5-080911	8/9/2011	<0.96	U		<0.52	U		<5.4	U		1			<2.1	U		100			<0.62	U		<0.52	U	
	29.5 ft	VMP-13-29.5	11/17/2009	<230	U		<120	U		<1300	U		<100	U		<490	U					<150	U		<120	U	
		VMP-13-29.5-021811	2/18/2011	<160	U		<88	U		<920	U		<76	U		<350	U					<110	U		<88	U	
		VMP-13-29.5-040511	4/5/2011	<110	U		<57	U		<600	U		<49	U		<230	U		100	J		<69	U		<57	U	
VMP-14	5 ft	VMP-14-5	11/20/2009	<0.02	U		<0.01	U		<0.11	U		0.015			<0.042	U				<0.013	U		<0.01	U		
		VMP 14-5-091010	9/10/2010	<0.48	U		<0.25	U		<2.6	U		0.55			<1	U				<0.3	U		<0.25	U		
		VMP-14-5-120110	12/1/2010	<0.0092	U		0.0011	J		<0.051	U		0.0017	J		<0.02	U				<0.0059	U		<0.0049	U		
		VMP-14-5-021711	2/17/2011	<0.01	U		0.059			<0.056	U		0.1			<0.022	U				<0.0065	J	U	<0.0054	U		
		VMP-14-5-040511	4/5/2011	<0.01	U		<0.0055	U		<0.057	U		0.0076			<0.022	U		1.7	E	J	<0.0066	U		<0.0055	U	
		VMP-14-5-080811	8/8/2011	<11	U		10			<60	U		120			<23	U		4700			<6.9	U		<5.8	U	
	11.5 ft	VMP-14-11.5	11/16/2009	<2.4	U		43			<13	U		380			<5	U					<1.5	U		<1.2	U	
		VMP 14-11.5-091010	9/10/2010	<7.3	U		<3.9	U		<41	U		4.6			<16	U					0.97	J		<3.9	U	
		VMP-14-11.5-120110	12/2/2010	<0.64	U		<0.34	U		<3.6	U		0.27	J		<1.4	U					<0.41	U		<0.34	U	
		VMP-14-11.5-120110-Dup	12/2/2010	<0.58	U		<0.31	U		<3.2	U		0.32			<1.2	U					<0.37	U		<0.31	U	
		VMP-14-11.5-021711	2/17/2011	<0.21	U		<0.11	U		<1.2	U		<0.097	U		<0.45	U					<0.14	U		<0.11	U	
		VMP-14-11.5-021711-Dup	2/17/2011	<0.21	U		<0.11	U		<1.2	U		<0.097	U		<0.45	U					<0.14	U		<0.11	U	
		VMP-14-11.5-040511	4/5/2011	<0.034	U		<0.018	U		<0.19	U		0.15			<0.073	U		43	E	J	<0.022	U		<0.018	U	
		VMP-14-11.5-080811	8/8/2011	<1.1	U		<0.57	U		<5.9	U		1.2			<2.3	U		490			<0.68	U		<0.57	U	
	20 ft	VMP-14-20	11/16/2009	<91	U		67			<510	U		350			<190	U					<58	U		<49	U	
		VMP 14-20-091010	9/10/2010	<110	U		100			<620	U		700			<240	U					6.4	J		<60	U	
		VMP 14-20-091010-Dup	9/10/2010	<120	U		98			<640	U		750			<250	U					<74	U		<62	U	
		VMP-14-20-120110	12/2/2010	<300	U		130	J		<1700	U		800			<640	U					<190	U		<160	U	
		VMP-14-20-021811	2/18/2011	<170	U		47	J		<940	U		320			<360	U					<110	U		<91	U	
		VMP-14-20-040511	4/5/2011	<73	U		51			<400	U		350			<160	U		3200			<47	U		<39	U	
		VMP-14-20-080811	8/8/2011	<26	U		70			<150	U		590			<56	U		6100			<17	U		<14	U	

See last page of table for notes.

TABLE 4

Location	Depth	Sample ID	Sample Date	Methyl tert-Butyl Ether (MTBE)			2-Propanol			Cumulative Summary of Soil			Vapor Analytical Detection and Screening Results			1,2-Dichloroethane			Hydrofuran			Toluene			1,2,4-Trichlorobenzene		
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier
VMP-13	5 ft	VMP-13-5	11/16/2009	<8.7	U		<24	U		<12	U		<10	U		<16	U		<7.1	U		<9.1	U		<72	UJ	UJ
		VMP 13-5-091310	9/13/2010	<0.032	U		<0.086	U		<0.043	U		<0.037	U		<0.06	U		<0.026	U		0.025	J		<0.26	U	
		VMP-13-5-120110	12/1/2010	<0.0042	J	U	0.049			0.008			<0.005	U		<0.0079	J	U	<0.0034	U		0.036			<0.034	U	
		VMP-13-5-021811	2/18/2011	<0.005	U		0.0066	J		<0.0068	U		<0.0059	U		<0.0094	U		<0.0041	U		0.011			<0.041	U	
		VMP-13-5-040511	4/5/2011	<0.01	U		<0.027	U		<0.014	U		<0.012	U		<0.019	J	U	<0.0081	U		0.0026	J		<0.082	J	U
		VMP-13-5-080911	8/9/2011	<0.011	U		0.021	J		<0.014	J	U	0.0025	J		<0.02	U		<0.0087	U		0.023			<0.088	J	U
	10.5 ft	VMP-13-5-080911-Dup	8/9/2011	<0.0095	U		0.048			<0.013	U		0.0013	J		<0.018	U		<0.0078	U		0.022			<0.078	U	
		VMP-13-10.5	11/17/2009	<1.1	U		<2.9	U		<1.5	U		<1.3	U		<2	U		<8.8	U		<1.1	U		<8.8	UJ	UJ
		VMP-13-10.5-D	11/17/2009	<1.1	U		<3	U		<1.5	U		<1.3	U		<2.1	U		<9.1	U		<1.2	U		<9.2	U	UJ
		VMP 13-10.5-091310	9/13/2010	<0.012	U		0.013	J		<0.016	U		<0.014	U		0.0073	J		<0.0096	U		0.0075	J		<0.097	U	
		VMP 13-10.5-091310-Dup	9/13/2010	<0.011	U		0.012	J		<0.016	U		<0.014	U		0.0034	J		<0.0094	U		0.0074	J		<0.094	U	
		VMP-13-10.5-120110	12/1/2010	<0.0047	J	U	0.1			<0.0064	U		<0.0055	U		<0.0088	J	U	<0.0038	U		0.0011	J		<0.038	U	
		VMP-13-10.5-120110-Dup	12/1/2010	<0.0049	J	U	0.13			<0.0066	U		<0.0058	U		<0.0092	J	U	<0.004	U		0.00092	J		<0.04	U	
		VMP-13-10.5-021811	2/18/2011	<1.9	U		<5.2	U		<2.6	U		<3.6	U		<3.6	U		<1.6	U		<2	U		<16	U	
		VMP-13-10.5-021811-Dup	2/18/2011	<1.8	U		<5.1	U		<2.5	U		<2.2	U		<3.5	U		<1.5	U		<1.9	U		<15	U	
		VMP-13-10.5-040511	4/5/2011	<0.005	U		0.0022	J		<0.0068	U		<0.0059	U		<0.0094	J	U	<0.0041	U		0.0011	J		<0.041	J	U
	VMP-13-10.5-080911	8/9/2011	<0.11	U		<0.3	U		<0.15	U		<0.13	U		<0.2	U		<0.089	U		<0.11	U		<0.9	U		
	21.5 ft	VMP-13-21.5	11/17/2009	<55	U		<150	U		<75	U		<65	U		<100	U		<45	U		<57	U		<450	U	UJ
		VMP 13-21.5-091310	9/13/2010	<8.7	U		<24	U		<12	U		<10	U		<16	U		<7.1	U		3.7	J		<72	U	
		VMP-13-21.5-120110	12/1/2010	<17	U		<46	U		<23	U		<20	U		<32	U		<14	U		<18	U		<140	U	
		VMP-13-21.5-021811	2/18/2011	<2.5	U		1.7	J		<3.4	U		0.53	J		<4.7	U		<2.1	U		0.54	J		<21	U	
		VMP-13-21.5-040511	4/5/2011	<3.6	U		<9.9	U		<5	U		<4.3	U		<6.8	U		<3	U		<3.8	U		<30	U	
		VMP-13-21.5-080911	8/9/2011	<0.45	U		<1.2	U		<0.62	U		<0.54	U		<0.85	U		<0.37	U		0.18	J		<3.7	U	
	29.5 ft	VMP-13-29.5	11/17/2009	<110	U		<290	U		<150	U		<130	U		<200	U		<88	U		120			<880	U	UJ
		VMP-13-29.5-021811	2/18/2011	<78	U		<210	U		<110	U		<92	U		<150	U		<64	U		16	J		<640	U	
		VMP-13-29.5-040511	4/5/2011	<50	U		<140	U		<69	U		<60	U		<95	U		<41	U		19	J		<420	U	
VMP-14	5 ft	VMP-14-5	11/20/2009	<0.009	U		<0.025	U		<0.013	U		<0.011	U		<0.018	U		<0.007	U		<0.009	U		<0.076	U	
		VMP 14-5-091010	9/10/2010	<0.22	U		<0.61	U		<0.3	U		<0.26	U		<0.42	U		<0.18	U		<0.23	U		<1.8	U	
		VMP-14-5-120110	12/1/2010	0.00061	J		0.15			<0.0059	U		<0.0051	U		<0.0081	U		0.0025	J		<0.0045	U		<0.036	U	
		VMP-14-5-021711	2/17/2011	<0.0048	U		0.0053	J		<0.0065	J	U	<0.0056	U		<0.009	U		<0.0039	U		<0.005	J	U	<0.039	U	
		VMP-14-5-040511	4/5/2011	0.00051	J		0.004	J		<0.0066	U		<0.0057	U		<0.0091	J	U	<0.004	U		0.0032	J		<0.04	J	U
		VMP-14-5-080811	8/8/2011	<5.1	U		<14	U		<6.9	U		<6	U		<9.5	U		<4.1	U		<5.3	U		<42	U	
	11.5 ft	VMP-14-11.5	11/16/2009	<1.1	U		<3	U		<1.5	U		<1.3	U		<2.1	U		<0.91	U		<1.2	U		<9.1	UJ	UJ
		VMP 14-11.5-091010	9/10/2010	<3.4	U		<9.4	U		<4.7	U		<4.1	U		<6.5	U		<2.8	U		<3.6	U		<28	U	
		VMP-14-11.5-120110	12/2/2010	<0.3	U		0.39	J		<0.41	U		<0.36	U		<0.57	U		<0.25	U		<0.32	U		<2.5	U	
		VMP-14-11.5-120110-Dup	12/2/2010	<0.27	U		0.42	J		<0.37	U		<0.32	U		<0.52	U		<0.22	U		0.15	J		<2.2	U	
		VMP-14-11.5-021711	2/17/2011	<0.1	U		<0.27	U		<0.14	U		<0.12	U		<0.19	U		<0.081	U		<0.1	U		<0.82	U	
		VMP-14-11.5-021711-Dup	2/17/2011	<0.1	U		<0.27	U		<0.14	U		<0.12	U		<0.19	U		<0.081	U		<0.1	U		<0.82	U	
		VMP-14-11.5-040511	4/5/2011	<0.016	U		<0.044	U		0.02	J		<0.019	U		<0.03	U		<0.013	U		0.035			<0.13	U	
		VMP-14-11.5-080811	8/8/2011	<0.5	U		<1.4	U		<0.68	U		<0.59	U		<0.94	U		<0.41	U		<0.52	U		<4.1	U	
	20 ft	VMP-14-20	11/16/2009	<43	U		<120	U		<58	U		<51	U		<81	U		<35	U		<45	U		<350	UJ	UJ
		VMP 14-20-091010	9/10/2010	<52	U		<140	U		<72	U		<62	U		<99	U		<43	U		<55	U		<430	U	
		VMP 14-20-091010-Dup	9/10/2010	<54	U		<150	U		<74	U		<64	U		<100	U		<44	U		<57	U		<450	U	
		VMP-14-20-120110	12/2/2010	<140	U		<380	U		<190	U		<170	U		<260	U		<120	U		<150	U		<1200	U	
		VMP-14-20-021811	2/18/2011																								

See last page of table for notes.

TABLE 4

Location	Depth	Sample ID	Sample Date	1,1,1-Trichloroethane (Methyl chloroform)			1,1,2-Trichloroethane			Cumulative Summary of Soil			Subsurface Vapor Analytical Detection			Ethylbenzene			2,2,4-Trimethylpentane			m,p-Xylene			o-Xylenes				
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier		
VMP-13	5 ft	VMP-13-5	11/16/2009	<13	U		<13	U		<13	U		<14	U		<12	U		<12	U		28			<10	U		<10	U
		VMP 13-5-091310	9/13/2010	<0.048	U		<0.048	U		<0.047	U		<0.049	U		<0.043	U		<0.043	U		0.073			0.0064	J		<0.038	U
		VMP-13-5-120110	12/1/2010	<0.0064	U		<0.0064	U		<0.0063	J	U	0.0015	J		0.037			0.0091			0.13			0.11			0.037	
		VMP-13-5-021811	2/18/2011	<0.0075	U		<0.0075	U		<0.0074	U		<0.0078	U		<0.0068	U		<0.0068	U		0.0028	J		<0.006	U		<0.006	U
		VMP-13-5-040511	4/5/2011	<0.015	U		<0.015	U		0.006	J		<0.016	U		<0.014	U		<0.014	U		0.012	J		<0.012	U		<0.012	U
		VMP-13-5-080911	8/9/2011	<0.016	U		<0.016	U		<0.016	U		<0.017	U		0.0049	J		0.0018	J		2.9		J	0.0073	J		0.0018	J
		VMP-13-5-080911-Dup	8/9/2011	<0.014	U		<0.014	U		<0.014	U		<0.015	U		0.0028	J		<0.013	U		1.8		J	0.005	J		0.0016	J
	10.5 ft	VMP-13-10.5	11/17/2009	<1.6	U		<1.6	U		<1.6	U		<1.7	U		<1.5	U		<1.5	U		2.6			<1.3	U		<1.3	U
		VMP-13-10.5-D	11/17/2009	<1.7	U		<1.7	U		<1.7	U		<1.7	U		<1.5	U		<1.5	U		2.8			<1.3	U		<1.3	U
		VMP 13-10.5-091310	9/13/2010	<0.018	U		<0.018	U		<0.018	U		<0.018	U		<0.016	U		<0.016	U		0.38			<0.014	U		<0.014	U
		VMP 13-10.5-091310-Dup	9/13/2010	<0.017	U		<0.017	U		<0.017	U		<0.018	U		<0.016	U		<0.016	U		0.4			0.0025	J		<0.014	U
		VMP-13-10.5-120110	12/1/2010	0.001	J		<0.0071	U		<0.007	J	U	0.0015	J		<0.0064	U		<0.0064	U		0.081			<0.0056	J	U	<0.0056	U
		VMP-13-10.5-120110-Dup	12/1/2010	0.0011	J		<0.0074	U		<0.0072	J	U	0.0013	J		<0.0066	U		<0.0066	U		0.097			<0.0059	J	U	<0.0059	U
		VMP-13-10.5-021811	2/18/2011	<2.9	U		<2.9	U		<2.9	U		<3	U		<2.6	U		<2.6	U		17			<2.3	U		<2.3	U
		VMP-13-10.5-021811-Dup	2/18/2011	<2.8	U		<2.8	U		<2.8	U		<2.9	U		<2.5	U		<2.5	U		18			<2.2	U		<2.2	U
	21.5 ft	VMP-13-10.5-040511	4/5/2011	<0.0075	U		<0.0075	U		<0.0074	J	U	0.00087	J		<0.0068	U		<0.0068	U		0.0012	J		0.00081	J		<0.006	U
		VMP-13-10.5-080911	8/9/2011	<0.16	U		<0.16	U		<0.16	U		<0.17	U		<0.15	U		<0.15	U		34			<0.13	U		<0.13	U
		VMP-13-21.5	11/17/2009	<83	U		<83	U		<82	U		<85	U		<75	U		<75	U		<71	U		<66	U		<66	U
		VMP 13-21.5-091310	9/13/2010	<13	U		<13	U		<13	U		<14	U		<12	U		<12	U		43			<10	U		<10	U
		VMP-13-21.5-120110	12/1/2010	<26	U		<26	U		<25	U		<26	U		<23	U		<23	U		57			<20	U		<20	U
		VMP-13-21.5-021811	2/18/2011	<3.8	U		<3.8	U		<3.8	U		<3.9	U		<3.4	U		<3.4	U		15			<3	U		<3	U
		VMP-13-21.5-040511	4/5/2011	<5.5	U		<5.5	U		<5.4	U		<5.7	U		<5	U		<5	U		16			<4.4	U		<4.4	U
	29.5 ft	VMP-13-21.5-080911	8/9/2011	<0.69	U		<0.69	U		<0.68	U		<0.71	U		<0.62	U		<0.62	U		55			0.18	J		<0.55	U
		VMP-13-29.5	11/17/2009	<160	U		<160	U		<160	U		<170	U		<150	U		<150	U		<140	U		<130	U		<130	U
		VMP-13-29.5-021811	2/18/2011	<120	U		<120	U		<120	U		<120	U		<110	U		<110	U		<100	U		<94	U		<94	U
			VMP-13-29.5-040511	4/5/2011	<76	U		<76	U		<75	U		<79	U		<69	U		<69	U		41	J		23	J		<61
VMP-14	5 ft	VMP-14-5	11/20/2009	<0.014	U		<0.014	U		<0.014	U		<0.014	U		<0.013	U		<0.013	U		0.88			<0.011	U		<0.011	U
		VMP 14-5-091010	9/10/2010	<0.34	U		<0.34	U		<0.33	U		<0.35	U		<0.3	U		<0.3	U		19			<0.27	U		<0.27	U
		VMP-14-5-120110	12/1/2010	<0.0065	U		<0.0065	U		0.0016	J		0.0008	J		<0.0059	U		<0.0059	U		0.014			0.0005	J		<0.0052	U
		VMP-14-5-021711	2/17/2011	<0.0072	U		<0.0072	U		<0.0071	U		<0.0074	U		<0.0065	J	U	<0.0065	U		0.62			<0.0057	J	U	<0.0057	U
		VMP-14-5-040511	4/5/2011	<0.0073	U		<0.0073	U		<0.0072	J	U	0.0018	J		<0.0066	U		<0.0066	U		0.0042	J		<0.0058	U		<0.0058	U
		VMP-14-5-080811	8/8/2011	<7.7	U		<7.7	U		<7.6	U		<7.9	U		<6.9	U		<6.9	U		120			<6.1	U		<6.1	U
	11.5 ft	VMP-14-11.5	11/16/2009	<1.7	U		<1.7	U		<1.6	U		<1.7	U		<1.5	U		<1.5	U		200			<1.3	U		<1.3	U
		VMP 14-11.5-091010	9/10/2010	<5.2	U		<5.2	U		<5.1	U		<5.4	U		<4.7	U		<4.7	U		230			<4.1	U		<4.1	U
		VMP-14-11.5-120110	12/2/2010	<0.46	U		<0.46	U		<0.45	U		<0.47	U		<0.41	U		<0.41	U		36			0.094	J		<0.36	U
		VMP-14-11.5-120110-Dup	12/2/2010	<0.41	U		<0.41	U		<0.41	U		<0.43	U		<0.37	U		<0.37	U		36			0.14	J		<0.33	U
		VMP-14-11.5-021711	2/17/2011	<0.15	U		<0.15	U		<0.15	U		<0.16	U		<0.14	U		<0.14	U		17			<0.12	U		<0.12	U
		VMP-14-11.5-021711-Dup	2/17/2011	<0.15	U		<0.15	U		<0.15	U		<0.16	U		<0.14	U		<0.14	U		19			<0.12	U		<0.12	U
		VMP-14-11.5-040511	4/5/2011	<0.024	U		<0.024	U		<0.024	U		<0.025	U		0.0036	J		<0.022	U		21			0.0041	J		<0.019	U
		VMP-14-11.5-080811	8/8/2																										

See last page of table for notes.

				TABLE 4 ANALYTICAL DETECTIONS AND SCREENING RESULTS																							
Location	Depth	Sample ID	Sample Date	Acetone			Benzene			Cumulative Summary of Soil Vapor Analytical Detections and Screening Results			Toluene			Xylenes			Ethylbenzene			2-Butanone			Carbon disulfide		
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier
VMP-16	5 ft	VMP-16-5	11/20/2009	<0.16	U		0.13			<0.11	U		<0.065	U		<0.037	U				<0.05	U		<0.052	U		
		VMP-16-5-090210	9/2/2010	<23	U		17			<16	U		<9.2	U		<5.3	U				<7	U		<7.4	U		
		VMP-16-5-112910	11/29/2010	<10	U		16		J	<7.3	U		<4.2	U		<2.4	U				<3.2	U		<3.4	U		
		VMP-16-5-021511	2/15/2011	<6.3	U		10		J	<4.4	U		<2.6	U		<1.5	U				<1.9	U		<2	U		
		VMP-16-5-042211	4/22/2011	<8.4	U		7			<5.9	U		<3.4	U		<1.9	U		260		<10	U		<2.7	U		
		VMP-16-5-080511	8/5/2011	0.5	J		2.9			<1.9	U		<1.1	U		<0.62	U		39		<3.3	U		<0.88	U		
	13.5 ft	VMP-16-13.5	11/19/2009	<0.71	U		0.69			<0.5	U		<0.29	U		<0.16	U				<0.22	U		<0.23	U		
		VMP-16-13.5-090210	9/2/2010	3.6	J		17			<16	U		<9.6	U		<5.5	U				<7.3	U		<7.7	U		
		VMP-16-13.5-090210-Dup	9/2/2010	<23	U		16			<16	U		<9.6	U		<5.5	U				<7.3	U		<7.7	U		
		VMP-16-13.5-112910	11/29/2010	<66	U		21	J		<47	U		<27	U		<15	U				<21	U		<22	U		
		VMP-16-13.5-021611	2/16/2011	<13	U		7.1			<9	U		<5.2	U		<3	U				<4	U		<4.2	U		
		VMP-16-13.5-021611-Dup	2/16/2011	<12	U		9.3			<8.8	U		<5.1	U		<2.9	U				<3.9	U		<4.1	U		
		VMP-16-13.5-042211	4/22/2011	<13	U		8.3			<9.5	U		<5.5	U		<3.1	U		320		<17	U		<4.4	U		
		VMP-16-13.5-080511	8/5/2011	<1.3	U	UJ	0.54		J	<0.92	U	UJ	<0.54	U	UJ	<0.3	U	UJ	14		J	<1.6	U	UJ	<0.43	U	UJ
	19 ft	VMP-16-19	11/19/2009	<6.1	U		4.6			<4.3	U		<2.5	U		<1.4	U				<1.9	U		<2	U		
		VMP-16-19-090210	9/2/2010	<23	U		27			<16	U		<9.6	U		<5.5	U				<7.3	U		<7.7	U		
		VMP-16-19-112910	11/29/2010	<51	U		20			<36	U		<21	U		<12	U				<16	U		<17	U		
		VMP-16-19-021611	2/16/2011	<12	U		7.7			<8.6	U		<5	U		<2.8	U				<3.8	U		<4	U		
		VMP-16-19-042711	4/27/2011	<12	U		3.7	J		<8.8	U		<5.1	U		<2.9	U		150		<16	U		<4.1	U		
		VMP-16-19-042711-Dup	4/27/2011	<12	U		3.1	J		<8.6	U		<5	U		<2.8	U		160		<15	U		<4	U		
	31 ft	VMP-16-31	11/19/2009	<9.2	U		<3.1	U		<6.5	U		<3.8	U		<2.1	U				<2.9	U		<3	U		
		VMP-16-31-D	11/19/2009	<9.2	U		<3.1	U		<6.5	U		<3.8	U		<2.1	U				<2.9	U		<3	U		
		VMP-16-31-090310	9/3/2010	0.033			0.0064			<0.0097	U		0.0019	J		<0.0032	U				0.0056			0.0036	J		
		VMP-16-31-112910	11/29/2010	<52	U		20			<36	U		<21	U		<12	U				<16	U		<17	U		
VMP-17	5 ft	VMP-17-5	6/21/2010	0.06		J	0.0051			<0.009	U		<0.005	U		<0.003	U				0.018		J	<0.004	U		
		VMP-17-5-DUP	6/21/2010	0.027		J	0.0044	J		<0.01	U		<0.005	U		<0.003	U				0.0028	J	J	<0.004	J	U	
		VMP-17-5-090110	9/1/2010	0.25			0.0086			<0.009	U		<0.0052	U		<0.003	U				0.096			<0.0042	J	U	
		VMP-17-5-112210	11/22/2010	0.03			0.0044			<0.009	U		<0.0052	U		<0.003	U				0.0048			<0.0042	J	U	
		VMP-17-5-020711	2/7/2011	0.012	J		0.0061			<0.0084	U		<0.0049	U		<0.0028	U				<0.0037	U		<0.0039	U		
		VMP-17-5-040611	4/6/2011	0.039	J		5.8			<0.034	U		<0.02	U		<0.011	U		0.13		0.005	J		0.0058	J		
		VMP-17-5-080111	8/1/2011	<0.18	U		0.17			<0.13	U		<0.075	U		<0.042	U		14		<0.23	U		<0.24	U		
VMP-25	5 ft	VMP-25-5-031511	3/15/2011	3.6			0.82			<0.081	U		<0.047	U		<0.027	U				<0.14	U		0.0047	J		
		VMP-25-5-040811	4/8/2011	0.043	J		5.2			<0.037	U		<0.021	U		<0.012	U		0.12		<0.065	U		0.019	J		
		VMP-25-5-080911	8/9/2011	0.16			0.31			<0.0078	U		<0.0045	U		<0.0026	U		0.094		0.058			0.0095	J		
	21 ft	VMP-25-21-031511	3/15/2011	1200		J	97		J	<16	U		<9.2	U		<5.2	U				<28	U		6.3	J		
		VMP-25-21-031511-Dup	3/15/2011	1800		J	140		J	<20	U		<12	U		<6.7	U				<36	U		9	J		
		VMP-25-21-040811	4/8/2011	<240	U		130			<170	U		<98	U		<56	U		14000		<300	U		61	J		
		VMP-25-21-040811-Dup	4/8/2011	<240	U		120			<170	U		<99	U		<56	U		13000		<300	U		57	J		
VMP-25-21-080911	8/9/2011	<78	U		1100			<55	U		<32	U		<18	U		15000		<97	U		<26	U				

See last page of table for notes.

TABLE 4																											
Location	Depth	Sample ID	Sample Date	Carbon tetrachloride			Chlorobenzene CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS			Ethane methane			alpha-Chlorotoluene			Cyclohexane											
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier						
VMP-16	5 ft	VMP-16-5	11/20/2009	<0.11	U		<0.078	U		<0.14	U		<0.044	U		<0.082	U		<0.14	U		<0.087	U		<0.058	U	
		VMP-16-5-090210	9/2/2010	<15	U		<11	U		<20	U		<6.3	U		<12	U		<20	U		<12	U		160		
		VMP-16-5-112910	11/29/2010	<6.8	U		<5	U		<9.3	U		2.4	J	J	<5.3	U		<9	UJ	UJ	<5.6	U		150		J
		VMP-16-5-021511	2/15/2011	<4.2	U		<3	U		<5.6	U		<1.7	U		<3.2	U		<5.4	U		<3.4	U		99		J
		VMP-16-5-042211	4/22/2011	<5.5	U		<4	U		<7.5	U		<9.3	U		<4.3	U		<7.3	U		<4.6	U		100		
		VMP-16-5-080511	8/5/2011	<1.8	U		<1.3	U		<2.4	U		<3	U		<1.4	U		<2.3	U		<1.4	U		22		
	13.5 ft	VMP-16-13.5	11/19/2009	<0.47	U		<0.34	U		<0.63	U		<0.2	U		<0.36	U		<0.62	U		<0.38	U		1		
		VMP-16-13.5-090210	9/2/2010	<16	U		<11	U		<21	U		<6.5	U		<12	U		<20	U		<13	U		150		
		VMP-16-13.5-090210-Dup	9/2/2010	<16	U		<11	U		<21	U		<6.5	U		<12	U		<20	U		<13	U		140		
		VMP-16-13.5-112910	11/29/2010	<44	U		<32	U		<60	U		<18	U		<34	U		<58	UJ	UJ	<36	U		180		
		VMP-16-13.5-021611	2/16/2011	<8.5	U		<6.2	U		<11	U		<3.5	U		<6.6	U		<11	U		<7	U		78		
		VMP-16-13.5-021611-Dup	2/16/2011	<8.3	U		<6.1	U		<11	U		<3.5	U		<6.4	U		<11	U		<6.8	U		84		
		VMP-16-13.5-042211	4/22/2011	<8.9	U		<6.5	U		<12	U		<15	U		<6.9	U		<12	U		<7.4	U		120		
		VMP-16-13.5-080511	8/5/2011	<0.87	U	UJ	<0.64	U	UJ	<1.2	U	UJ	<1.4	U	UJ	<0.67	U	UJ	<1.1	U	UJ	<0.71	U	UJ	6.4		J
	19 ft	VMP-16-19	11/19/2009	<4	U		<3	U		<5.5	U		<1.7	U		<3.1	U		<5.3	U		<3.3	U		8.2		
		VMP-16-19-090210	9/2/2010	<16	U		<11	U		<21	U		<6.5	U		<12	U		<20	U		<13	U		190		
		VMP-16-19-112910	11/29/2010	<34	U		<25	U		<46	U		<14	U		<26	U		<45	UJ	UJ	<28	U		170		
		VMP-16-19-021611	2/16/2011	<8.1	U		<5.9	U		<11	U		<3.4	U		<6.3	U		<11	U		<6.7	U		80		
		VMP-16-19-042711	4/27/2011	<8.3	U		<6.1	U		<11	U		<14	U		<6.4	U		<11	U		<6.8	U		64		
		VMP-16-19-042711-Dup	4/27/2011	<8.1	U		<5.9	U		<11	U		<14	U		<6.3	U		<11	U		<6.7	U		64		
	31 ft	VMP-16-31	11/19/2009	<6.1	U		<4.5	U		<8.3	U		<2.6	U		<4.7	U		<8	U		<5	U		15		J
		VMP-16-31-D	11/19/2009	<6.1	U		<4.5	U		<8.3	U		<2.6	U		<4.7	U		<8	U		<5	U		<3.3	U	UJ
		VMP-16-31-090310	9/3/2010	<0.0091	U		<0.0066	U		<0.012	U		<0.0038	U		<0.007	U		<0.012	U		<0.0075	U		0.049		
		VMP-16-31-112910	11/29/2010	<34	U		<25	U		<46	U		<14	U		<27	U		<45	UJ	UJ	<28	U		170		
VMP-17	5 ft	VMP-17-5	6/21/2010	<0.009	U		<0.006	U		<0.012	U		<0.003	U		<0.007	U		<0.012	U		<0.007	U		0.36		
		VMP-17-5-DUP	6/21/2010	<0.009	U		<0.006	U		<0.013	U		<0.004	U		<0.007	U		<0.012	U		<0.007	U		0.32		
		VMP-17-5-090110	9/1/2010	<0.0085	U		<0.0062	J	U	<0.011	U		<0.0035	U		<0.0066	U		0.0045	J		<0.007	U		0.02		
		VMP-17-5-112210	11/22/2010	<0.0085	U		<0.0062	U		<0.011	U		<0.0035	U		<0.0066	U		0.0035	J		<0.007	U		<0.0046	U	
		VMP-17-5-020711	2/7/2011	<0.0079	U		<0.0058	U		<0.011	U		<0.0033	U		<0.0062	U		<0.01	U		<0.0065	U		0.029		
		VMP-17-5-040611	4/6/2011	<0.032	U		<0.023	U		<0.043	U		<0.053	U		<0.025	U		<0.042	U		<0.026	U		0.034		
		VMP-17-5-080111	8/1/2011	<0.12	U		<0.089	U		<0.16	U		<0.2	U		<0.094	U		<0.16	U		<0.1	U		0.054	J	
VMP-25	5 ft	VMP-25-5-031511	3/15/2011	<0.076	U		1			<0.1	U		<0.13	U		0.048	J		<0.1	U		<0.063	U		6		
		VMP-25-5-040811	4/8/2011	<0.035	U		0.0043	J		<0.047	U		<0.058	U		<0.027	U		<0.045	U		<0.028	U		0.12		
		VMP-25-5-080911	8/9/2011	<0.0073	U		<0.0054	J	U	<0.0099	U		<0.012	U		0.0021	J		<0.0096	U		<0.006	J	U	0.039		
	21 ft	VMP-25-21-031511	3/15/2011	<15	U		29		J	<20	U		3.7	J		<12	U		<20	U		<12	U		1400		J
		VMP-25-21-031511-Dup	3/15/2011	<19	U		44		J	<26	U		<32	U		<15	U		<25	U		<16	U		2200		J
		VMP-25-21-040811	4/8/2011	<160	U		<120	U		<210	U		<260	U		<120	U		<210	U		<130	U		1800		
		VMP-25-21-040811-Dup	4/8/2011	<160	U		<120	U		<220	U		<270	U		<120	U		<210	U		<130	U		1700		
VMP-25-21-080911	8/9/2011	<52	U		<38	U		<70	U		<87	U		<40	U		<68	U		<43	U		<28	U			

See last page of table for notes.

				TABLE 4 RELATIVE SUMMARY OF SOIL, VAPOR, AND SUBSURFACE WATER ANALYTICAL DETECTIONS AND SCREENING RESULTS																							
Location	Depth	Sample ID	Sample Date	1,2-Dibromoethane			1,2-Dichlorobenzene			Cumulative			1,1-Dibromoethane			1,1-Dichloroethane			cis-1,2-Dichloroethene								
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier			
VMP-16	5 ft	VMP-16-5	11/20/2009	<0.13	U		<0.1	U		<0.1	U		<0.1	U		<0.068	U		<0.068	U		<0.067	U		<0.067	U	
		VMP-16-5-090210	9/2/2010	<18	U		<14	U		<14	U		<14	U		<9.6	U		<9.6	U		<9.4	U		<9.4	U	
		VMP-16-5-112910	11/29/2010	<8.4	U		<6.6	U		<6.6	U		<6.6	U		<4.4	U		<4.4	U		<4.3	U		<4.3	U	
		VMP-16-5-021511	2/15/2011	<5.1	U		<4	U		<4	U		<4	U		<2.7	U		<2.7	U		<2.6	U		<2.6	U	
		VMP-16-5-042211	4/22/2011	<6.8	U		<5.3	U		<5.3	U		<5.3	U		<3.6	U		<3.6	U		<3.5	U		<3.5	U	
		VMP-16-5-080511	8/5/2011	<2.2	U		<1.7	U		<1.7	U		<1.7	U		<1.1	U		<1.1	U		<1.1	U		<1.1	U	
	13.5 ft	VMP-16-13.5	11/19/2009	<0.57	U		<0.45	U		<0.45	U		<0.45	U		<0.3	U		<0.3	U		<0.3	U		<0.3	U	
		VMP-16-13.5-090210	9/2/2010	<19	U		<15	U		<15	U		<15	U		<10	U		<10	U		<9.8	U		<9.8	U	
		VMP-16-13.5-090210-Dup	9/2/2010	<19	U		<15	U		<15	U		<15	U		<10	U		<10	U		<9.8	U		<9.8	U	
		VMP-16-13.5-112910	11/29/2010	<54	U		<42	U		<42	U		<42	U		<28	U		<28	U		<28	U		<28	U	
		VMP-16-13.5-021611	2/16/2011	<10	U		<8.1	U		<8.1	U		<8.1	U		<5.4	U		<5.4	U		<5.3	U		<5.3	U	
		VMP-16-13.5-021611-Dup	2/16/2011	<10	U		<7.9	U		<7.9	U		<7.9	U		<5.3	U		<5.3	U		<5.2	U		<5.2	U	
		VMP-16-13.5-042211	4/22/2011	<11	U		<8.5	U		<8.5	U		<8.5	U		<5.7	U		<5.7	U		<5.6	U		<5.6	U	
		VMP-16-13.5-080511	8/5/2011	<1.1	U	UJ	<0.83	U	UJ	<0.83	U	UJ	<0.83	U	UJ	<0.56	U	UJ	<0.56	U	UJ	<0.55	U	UJ	<0.55	U	UJ
	19 ft	VMP-16-19	11/19/2009	<5	U		<3.9	U		<3.9	U		<3.9	U		<2.6	U		<2.6	U		<2.6	U		<2.6	U	
		VMP-16-19-090210	9/2/2010	<19	U		<15	U		<15	U		<15	U		<10	U		<10	U		<9.8	U		<9.8	U	
		VMP-16-19-112910	11/29/2010	<41	U		<32	U		<32	U		<32	U		<22	U		<22	U		<21	U		<21	U	
		VMP-16-19-021611	2/16/2011	<9.9	U		<7.8	U		<7.8	U		<7.8	U		<5.2	U		<5.2	U		<5.1	U		<5.1	U	
		VMP-16-19-042711	4/27/2011	<10	U		<7.9	U		<7.9	U		<7.9	U		<5.3	U		<5.3	U		<5.2	U		<5.2	U	
		VMP-16-19-042711-Dup	4/27/2011	<9.9	U		<7.8	U		<7.8	U		<7.8	U		<5.2	U		<5.2	U		<5.1	U		<5.1	U	
	31 ft	VMP-16-31	11/19/2009	<7.4	U		<5.8	U		<5.8	U		<5.8	U		<3.9	U		<3.9	U		<3.8	U		<3.8	U	
		VMP-16-31-D	11/19/2009	<7.4	U		<5.8	U		<5.8	U		<5.8	U		<3.9	U		<3.9	U		<3.8	U		<3.8	U	
		VMP-16-31-090310	9/3/2010	<0.011	U		<0.0087	U		<0.0087	U		<0.0087	U		<0.0058	U		<0.0058	U		<0.0057	U		<0.0057	U	
		VMP-16-31-112910	11/29/2010	<42	U		<33	U		<33	U		<33	U		<22	U		<22	U		<22	U		<22	U	
VMP-17	5 ft	VMP-17-5	6/21/2010	<0.011	U		<0.008	U		<0.008	U		<0.008	U		<0.005	U		<0.005	U		<0.005	U		<0.005	U	
		VMP-17-5-DUP	6/21/2010	<0.012	U		<0.009	U		<0.009	U		<0.009	U		<0.006	U		<0.006	U		<0.005	U		<0.005	U	
		VMP-17-5-090110	9/1/2010	<0.01	U		0.002	J		<0.0081	U		<0.0081	U		<0.0054	U		<0.0054	U		<0.0053	U		<0.0053	U	
		VMP-17-5-112210	11/22/2010	<0.01	U		<0.0081	U		<0.0081	U		<0.0081	U		<0.0054	U		<0.0054	U		<0.0053	U		<0.0053	U	
		VMP-17-5-020711	2/7/2011	<0.0097	U		<0.0076	J	U	<0.0076	J	U	<0.0076	J	U	<0.0051	U		<0.0051	U		<0.005	U		<0.005	U	
		VMP-17-5-040611	4/6/2011	<0.039	U		<0.03	U		<0.03	U		<0.03	U		<0.02	U		<0.02	U		<0.02	U		<0.02	U	
		VMP-17-5-080111	8/1/2011	<0.15	U		<0.12	U		<0.12	U		<0.12	U		<0.078	U		<0.078	U		<0.076	U		<0.076	U	
VMP-25	5 ft	VMP-25-5-031511	3/15/2011	<0.093	U		<0.073	U		<0.073	U		<0.073	U		<0.049	U		<0.049	U		<0.048	U		<0.048	U	
		VMP-25-5-040811	4/8/2011	<0.042	U		<0.033	J	U	<0.033	U		<0.033	U		<0.022	U		<0.022	U		<0.022	U		<0.022	U	
		VMP-25-5-080911	8/9/2011	<0.009	J	U	<0.007	J	U	<0.007	J	U	<0.007	J	U	<0.0047	U		0.0022	J		<0.0046	U		<0.0046	U	
	21 ft	VMP-25-21-031511	3/15/2011	<18	U		<14	U		<14	U		<14	U		<9.6	U		<9.6	U		<9.4	U		<9.4	U	
		VMP-25-21-031511-Dup	3/15/2011	<23	U		<18	U		<18	U		<18	U		<12	U		<12	U		<12	U		<12	U	
		VMP-25-21-040811	4/8/2011	<190	U		22	J		<150	U		<150	U		<100	U		<100	U		<100	U		<100	U	
	VMP-25-21-040811-Dup	4/8/2011	<200	U		<150	U		<150	U		<150	U		<100	U		<100	U		<100	U		<100	U		
	VMP-25-21-080911	8/9/2011	<63	U		<50	U		<50	U		<50	U		<33	U		<33	U		22	J		11	J		

See last page of table for notes.

TABLE 4 PUBLIC WORKS YARD AND WRR - VOCs																											
Location	Depth	Sample ID	Sample Date	Dichlorodifluoromethane			Dichloromethane (Methylene chloride)			Cumulative Summary of Soil Vapor Analytical Detections and Screening Results			Ethylbenzene			4-Ethyltoluene											
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier						
VMP-16	5 ft	VMP-16-5	11/20/2009	<0.083	U		<0.058	U		<0.078	U		<0.076	U		<0.24	U		<0.13	U		<0.073	U		<0.083	U	
		VMP-16-5-090210	9/2/2010	<12	U		<8.3	U		<11	U		<11	U		<34	U		<18	U		12			2.5	J	
		VMP-16-5-112910	11/29/2010	<5.4	U		<3.8	U		<5	U		<4.9	U		<16	U		<8.2	U		7.5		J	<5.4	U	
		VMP-16-5-021511	2/15/2011	<3.3	U		<2.3	U		<3	U		<3	U		<9.5	U		<5	U		<2.9	U		<3.2	U	
		VMP-16-5-042211	4/22/2011	<4.4	U		<3	U		<4.1	U		<4	U		<13	U		<6.6	U		<3.8	U		<4.3	U	
		VMP-16-5-080511	8/5/2011	<1.4	U		<0.98	U		<1.3	U		<1.3	U		<4	U		<2.1	U		<1.2	U		<1.4	U	
	13.5 ft	VMP-16-13.5	11/19/2009	<0.37	U		<0.26	U		<0.34	U		<0.34	U		<1.1	U		<0.56	U		<0.32	U		<0.37	U	
		VMP-16-13.5-090210	9/2/2010	<12	U		2.1	J		<11	U		<11	U		<36	U		<19	U		15			3.4	J	
		VMP-16-13.5-090210-Dup	9/2/2010	<12	U		<8.6	U		<11	U		<11	U		<36	U		<19	U		15			2.9	J	
		VMP-16-13.5-112910	11/29/2010	<35	U		<24	U		<32	U		<32	U		<100	U		<53	U		9.9	J		<34	U	
		VMP-16-13.5-021611	2/16/2011	<6.6	U		<4.7	U		<6.2	U		<6.1	U		<19	U		<10	U		<5.8	U		<6.6	U	
		VMP-16-13.5-021611-Dup	2/16/2011	<6.5	U		<4.6	U		<6.1	U		<6	U		<19	U		<9.9	U		<5.7	U		<6.5	U	
		VMP-16-13.5-042211	4/22/2011	<7	U		<4.9	U		<6.6	U		<6.4	U		<20	U		<11	U		<6.2	U		<7	U	
		VMP-16-13.5-080511	8/5/2011	<0.68	U	UJ	<0.48	U	UJ	<0.64	U	UJ	<0.63	U	UJ	<2	U	UJ	<1	U	UJ	<0.6	U	UJ	<0.68	U	UJ
	19 ft	VMP-16-19	11/19/2009	<3.2	U		<2.2	U		<3	U		<2.9	U		<9.3	U		<4.9	U		<2.8	U		<3.2	U	
		VMP-16-19-090210	9/2/2010	<12	U		<8.6	U		<11	U		<11	U		<36	U		<19	U		23			3.2	J	
		VMP-16-19-112910	11/29/2010	<27	U		<19	U		<25	U		<24	U		<78	U		<41	U		14	J		<26	U	
		VMP-16-19-021611	2/16/2011	<6.4	U		<4.5	U		<6	U		<5.8	U		<18	U		<9.7	U		<5.6	U		<6.3	U	
		VMP-16-19-042711	4/27/2011	<6.5	U		1	J		<6.1	U		<6	U		<19	U		<9.9	U		<5.7	U		<6.5	U	
		VMP-16-19-042711-Dup	4/27/2011	<6.4	U		0.54	J		<6	U		<5.8	U		<18	U		<9.7	U		<5.6	U		<6.3	U	
	31 ft	VMP-16-31	11/19/2009	<4.8	U		<3.4	U		<4.5	U		<4.4	U		<14	U		<7.3	U		<4.2	U		<4.8	U	
		VMP-16-31-D	11/19/2009	<4.8	U		<3.4	U		<4.5	U		<4.4	U		<14	U		<7.3	U		<4.2	U		<4.8	U	
		VMP-16-31-090310	9/3/2010	0.0018	J		<0.005	U		<0.0067	U		<0.0066	U		<0.021	U		0.014			0.002	J		<0.0071	U	
		VMP-16-31-112910	11/29/2010	<27	U		<19	U		<25	U		<25	U		<78	U		<41	U		15	J		<27	U	
VMP-17	5 ft	VMP-17-5	6/21/2010	0.0022	J		<0.005	U		<0.006	U		<0.006	U		<0.021	U		<0.011	U		<0.006	U		<0.007	U	
		VMP-17-5-DUP	6/21/2010	0.002	J		<0.005	U		<0.006	U		<0.006	U		<0.022	U		<0.011	U		<0.006	U		<0.007	U	
		VMP-17-5-090110	9/1/2010	0.0026	J		<0.0047	U		<0.0062	U		<0.0061	U		0.0033	J		0.022			0.0039	J	J	<0.0066	U	
		VMP-17-5-112210	11/22/2010	0.0022	J		<0.0047	U		<0.0062	U		<0.0061	U		0.0036	J		0.011			<0.0058	U		<0.0066	U	
		VMP-17-5-020711	2/7/2011	0.0013	J		0.001	J		<0.0058	U		<0.0057	U		0.0034	J		<0.0095	U		<0.0055	U		<0.0062	U	
		VMP-17-5-040611	4/6/2011	<0.025	U		<0.018	U		<0.023	U		<0.023	U		<0.073	U		<0.038	U		<0.022	U		<0.025	U	
		VMP-17-5-080111	8/1/2011	<0.095	U		<0.067	U		<0.089	U		<0.087	U		<0.28	U		0.17			<0.084	U		<0.095	U	
VMP-25	5 ft	VMP-25-5-031511	3/15/2011	<0.06	U		<0.042	U		<0.056	U		<0.055	U		<0.17	U		<0.091	U		0.07			0.12		
		VMP-25-5-040811	4/8/2011	<0.027	U		0.0095	J		<0.025	U		<0.025	U		<0.079	U		0.033	J		<0.024	U		<0.027	U	
		VMP-25-5-080911	8/9/2011	0.0025	J		0.026			0.0029	J		<0.0053	J	U	<0.017	U		0.1			0.01			<0.0057	J	U
	21 ft	VMP-25-21-031511	3/15/2011	<12	U		2.7	J		<11	U		<11	U		<34	U		12	J		11			1.7	J	
		VMP-25-21-031511-Dup	3/15/2011	<15	U		<10	U		<14	U		<14	U		<44	U		14	J		11	J		<15	U	
		VMP-25-21-040811	4/8/2011	<120	U		<88	U		<120	U		<110	U		<360	U		<190	U		<110	U		<120	U	
VMP-25-21-040811-Dup	4/8/2011	<130	U		<88	U		<120	U		<120	U		<370	U		<190	U		<110	U		<120	U			
VMP-25-21-080911	8/9/2011	<41	U		<29	U		<38	U		<37	U		<120	U		<62	U		210			190				

See last page of table for notes.

				TABLE 4 ANALYTICAL DETECTIONS AND SCREENING RESULTS																							
Location	Depth	Sample ID	Sample Date	Freon 113			Heptane			Cumulative Summary of Soil Vapor Analysis			2-Hexanone (Methyl N-Butyl Ketone)			Pentane			Isopropylbenzene (Cumene)			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)					
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier			
VMP-16	5 ft	VMP-16-5	11/20/2009	<0.13	U		<0.069	U		<0.72	U		<0.059	U		<0.28	U				<0.083	U		<0.069	U		
		VMP-16-5-090210	9/2/2010	<18	U		14			<100	U		6.3	J		<39	U				14			<9.7	U		
		VMP-16-5-112910	11/29/2010	<8.4	U		<4.5	U		<46	U		<3.8	U		<18	U				4.2	J	J	<4.5	U		
		VMP-16-5-021511	2/15/2011	<5	U		<2.7	U		<28	U		45		J	<11	U				<3.2	U		<2.7	U		
		VMP-16-5-042211	4/22/2011	<6.7	U		<3.6	U		<38	U		4.8			<36	U		4800		<4.3	U		<36	U		
		VMP-16-5-080511	8/5/2011	<2.2	U		<1.2	U		<12	U		1.4			<4.6	U		760		<1.4	U		<1.2	U		
	13.5 ft	VMP-16-13.5	11/19/2009	<0.57	U		<0.3	U		<3.2	U		<0.26	U		<1.2	U				<0.37	U		<0.3	U		
		VMP-16-13.5-090210	9/2/2010	<19	U		13			<100	U		6.6	J	J	<40	U				15			<10	U		
		VMP-16-13.5-090210-Dup	9/2/2010	<19	U		12			<100	U		9.7		J	<40	U				16			<10	U		
		VMP-16-13.5-112910	11/29/2010	<54	U		<29	U		<300	U		<25	U		<110	U				<34	U		<29	U		
		VMP-16-13.5-021611	2/16/2011	<10	U		<5.5	U		<57	U		12			<22	U				<6.6	U		<5.5	U		
		VMP-16-13.5-021611-Dup	2/16/2011	<10	U		<5.4	U		<56	U		10			<22	U				<6.5	U		<5.4	U		
		VMP-16-13.5-042211	4/22/2011	<11	U		<5.8	U		<60	U		5			<58	U		4800		<7	U		<58	U		
		VMP-16-13.5-080511	8/5/2011	<1	U	UJ	<0.56	U	UJ	<5.9	U	UJ	5.8		J	<2.3	U	UJ	190		J	<0.68	U	UJ	<0.56	U	UJ
	19 ft	VMP-16-19	11/19/2009	<4.9	U		<2.6	U		<28	U		<2.3	U		<10	U				<3.2	U		<2.6	U		
		VMP-16-19-090210	9/2/2010	<19	U		14			<100	U		7.5	J		<40	U				24			<10	U		
		VMP-16-19-112910	11/29/2010	<41	U		<22	U		<230	U		<19	U		<88	U				9.4	J		<22	U		
		VMP-16-19-021611	2/16/2011	<9.9	U		<5.3	U		<55	U		7.4			<21	U				<6.3	U		<5.3	U		
		VMP-16-19-042711	4/27/2011	<10	U		<5.4	U		<56	U		1.8	J		<54	U		2800		<6.5	U		<54	U		
		VMP-16-19-042711-Dup	4/27/2011	<9.9	U		<5.3	U		<55	U		1.7	J		<53	U		2800		<6.3	U		<53	U		
	31 ft	VMP-16-31	11/19/2009	<7.4	U		<4	U		<41	U		<3.4	U		<16	U				<4.8	U		<4	U		
		VMP-16-31-D	11/19/2009	<7.4	U		<4	U		<41	U		<3.4	U		<16	U				<4.8	U		<4	U		
		VMP-16-31-090310	9/3/2010	<0.011	U		<0.0059	U		<0.062	U		0.0028	J		<0.024	U				0.0037	J		<0.0059	U		
		VMP-16-31-112910	11/29/2010	<42	U		<22	U		<230	U		<19	U		<89	U				12	J		<22	U		
VMP-17	5 ft	VMP-17-5	6/21/2010	<0.011	U		0.023			<0.062	U		0.41			<0.024	U				<0.007	U		<0.006	U		
		VMP-17-5-DUP	6/21/2010	<0.011	U		0.019			<0.064	U		0.35			<0.024	U				<0.007	U		<0.006	U		
		VMP-17-5-090110	9/1/2010	<0.01	U	U	0.043			<0.057	U	UJ	0.088			<0.022	U				<0.0066	U		<0.0055	U		
		VMP-17-5-112210	11/22/2010	<0.01	U		<0.0055	U		<0.057	U		0.0013	J		<0.022	U				<0.0066	U		<0.0055	U		
		VMP-17-5-020711	2/7/2011	<0.0096	U		0.016			<0.054	U		0.02			<0.021	U				<0.0062	U		<0.0052	U		
		VMP-17-5-040611	4/6/2011	<0.039	U		0.025			<0.22	U		0.11			<0.083	U		0.18		<0.025	U		<0.021	U		
		VMP-17-5-080111	8/1/2011	<0.15	U		0.028	J		<0.82	U		0.24			<0.32	U		12		0.035	J		0.088			
VMP-25	5 ft	VMP-25-5-031511	3/15/2011	<0.093	U		0.6			<0.52	U		1.3			<0.2	U				0.28			<0.05	U		
		VMP-25-5-040811	4/8/2011	<0.042	U		<0.022	U		<0.23	U		0.093			<0.09	U		0.27		<0.027	U		<0.022	U		
		VMP-25-5-080911	8/9/2011	<0.0089	U		0.034			<0.05	U		0.1			<0.019	U		0.53		0.0083			0.039			
	21 ft	VMP-25-21-031511	3/15/2011	<18	U		420		J	<100	U		1700		J	<39	U				4.3	J		<9.7	U		
		VMP-25-21-031511-Dup	3/15/2011	<23	U		650		J	<130	U		2700		J	<50	U				6.7	J		<12	U		
		VMP-25-21-040811	4/8/2011	<190	U		480			<1100	U		2100			<410	U		23000		<120	U		<100	U		
		VMP-25-21-040811-Dup	4/8/2011	<200	U		510			<1100	U		2100			<420	U		23000		<120	U		<100	U		
VMP-25-21-080911	8/9/2011	<63	U		700			<350	U		2800			<140	U		19000		9.7	J		<34	U				

See last page of table for notes.

TABLE 4

Location	Depth	Sample ID	Sample Date	Methyl tert-Butyl Ether (MTBE)			2-Propanol			Cumulative Summary of Soil			Vapor Analytical Detection and Screening Results			1,2-Dichloroethane			Tetrahydrofuran			Toluene			1,2,4-Trichlorobenzene		
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier
VMP-16	5 ft	VMP-16-5	11/20/2009	<0.061	U		<0.16	U		<0.083	U		<0.072	U		<0.11	U		<0.05	U		0.12			<0.5	U	
		VMP-16-5-090210	9/2/2010	2.7	J		<23	U		20			<10	U		<16	U		<7	U		<9	U		<71	U	
		VMP-16-5-112910	11/29/2010	1.2	J	J	<11	U		4.4	J	J	<4.6	U		<7.4	U		<3.2	U		<4.1	U		<32	U	
		VMP-16-5-021511	2/15/2011	<2.4	U		<6.5	U		1.4	J	J	<2.8	U		<4.5	U		<1.9	U		2.4	J	J	<20	U	
		VMP-16-5-042211	4/22/2011	1.9	J		<8.6	U		<4.3	U		<37	U		<6	U		<2.6	U		<3.3	U		<26	U	
		VMP-16-5-080511	8/5/2011	0.29	J		<2.8	U		<1.4	U		<1.2	U		<1.9	U		<0.83	U		<1	U		<8.3	U	
	13.5 ft	VMP-16-13.5	11/19/2009	<0.27	U		<0.73	U		<0.37	U		<0.32	U		<0.5	U		<0.22	U		0.46			<2.2	U	
		VMP-16-13.5-090210	9/2/2010	2.9	J		<24	U		24			<10	U		<17	U		<7.3	U		1.4	J		<73	U	
		VMP-16-13.5-090210-Dup	9/2/2010	3.1	J		<24	U		23			<10	U		<17	U		<7.3	U		1.6	J		<73	U	
		VMP-16-13.5-112910	11/29/2010	<25	U		<69	U		<34	U		<30	U		<47	U		<21	U		<26	U		<210	U	
		VMP-16-13.5-021611	2/16/2011	<4.8	U		<13	U		<6.6	U		<5.7	U		<9.1	U		<4	U		<5.1	U		<40	U	
		VMP-16-13.5-021611-Dup	2/16/2011	<4.8	U		<13	U		<6.5	U		<5.6	U		<9	U		<3.9	U		<5	U		<39	U	
		VMP-16-13.5-042211	4/22/2011	2.6	J		<14	U		<7	U		<60	U		<9.6	U		<4.2	U		<5.4	U		<42	U	
		VMP-16-13.5-080511	8/5/2011	0.29	J	J	<1.4	U	UJ	<0.68	U	UJ	<0.59	U	UJ	<0.94	U	UJ	<0.41	U	UJ	0.12	J	J	<4.1	U	UJ
	19 ft	VMP-16-19	11/19/2009	<2.3	U		<6.3	U		<3.2	U		<2.7	U		<4.4	U		<1.9	U		<2.4	U		<19	U	
		VMP-16-19-090210	9/2/2010	3.1	J		<24	U		35			<10	U		<17	U		<7.3	U		<9.3	U		<73	U	
		VMP-16-19-112910	11/29/2010	<19	U		<53	U		12	J		<23	U		<37	U		<16	U		<20	U		<160	U	
		VMP-16-19-021611	2/16/2011	<4.6	U		<13	U		<6.3	U		<5.5	U		<8.8	U		<3.8	U		<4.9	U		<38	U	
		VMP-16-19-042711	4/27/2011	1.2	J		<13	U		<6.5	U		<56	U		<9	U		<3.9	U		<5	U		<39	U	
		VMP-16-19-042711-Dup	4/27/2011	1.3	J		<13	U		<6.3	U		<55	U		<8.8	U		<3.8	U		<4.9	U		<38	U	
	31 ft	VMP-16-31	11/19/2009	<3.5	U		<9.5	U		<4.8	U		<4.1	U		<6.6	U		<2.9	U		<3.6	U		<29	U	
		VMP-16-31-D	11/19/2009	<3.5	U		<9.5	U		<4.8	U		<4.1	U		<6.6	U		<2.9	U		<3.6	U		<29	U	
		VMP-16-31-090310	9/3/2010	0.014			0.041			0.0047	J		<0.0062	U		<0.0098	U		<0.0043	U		0.0016	J		<0.043	U	
		VMP-16-31-112910	11/29/2010	<20	U		<54	U		14	J		<23	U		<37	U		<16	U		<20	U		<160	U	
VMP-17	5 ft	VMP-17-5	6/21/2010	<0.005	U		2.1	E	J	<0.007	U		<0.006	U		<0.009	J	U	<0.004	U		0.001	J		<0.043	U	
		VMP-17-5-DUP	6/21/2010	<0.005	U		1.6	E	J	<0.007	U		<0.006	U		<0.01	J	U	<0.004	U		<0.005	U		<0.044	U	
		VMP-17-5-090110	9/1/2010	<0.0048	U		0.027			<0.0066	U		<0.0057	U		<0.0091	J	U	0.0034	J		0.0078			<0.04	J	UJ
		VMP-17-5-112210	11/22/2010	<0.0048	U		0.022			<0.0066	U		0.0027	J		<0.0091	J	U	<0.004	U		<0.0051	J	U	<0.04	U	
		VMP-17-5-020711	2/7/2011	<0.0045	U		0.004	J		<0.0062	J	U	<0.0054	U		<0.0085	U		<0.0037	U		0.0021	J		<0.037	J	U
		VMP-17-5-040611	4/6/2011	<0.018	U		<0.05	U		<0.025	U		<0.022	U		<0.034	U		<0.015	U		<0.019	U		<0.15	U	
		VMP-17-5-080111	8/1/2011	<0.069	U		<0.19	U		<0.095	U		<0.082	U		<0.13	U		<0.057	U		0.052	J		<0.57	U	
VMP-25	5 ft	VMP-25-5-031511	3/15/2011	<0.044	U		<0.12	U		0.46			<0.052	U		<0.082	U		<0.036	U		0.042	J		<0.36	U	UJ
		VMP-25-5-040811	4/8/2011	0.019	J		<0.054	U		<0.027	U		<0.023	U		<0.037	U		<0.016	U		0.0071	J		<0.16	U	
		VMP-25-5-080911	8/9/2011	0.0023	J		0.12			<0.0057	J	U	0.0052			0.0057	J		<0.0034	U		1			<0.034	J	U
	21 ft	VMP-25-21-031511	3/15/2011	<8.5	U		15	J		6.7	J		1.4	J		<16	U		<7	U		27			<70	U	
		VMP-25-21-031511-Dup	3/15/2011	<11	U		27	J		9.3	J		<13	U		<20	U		<8.9	U		16			<90	U	
		VMP-25-21-040811	4/8/2011	<91	U		38	J		17	J		<110	U		<170	U		<74	U		12	J		<750	U	
		VMP-25-21-040811-Dup	4/8/2011	<92	U		<250	U		<120	U		<110	U		<170	U		<75	U		<96	U		<760	U	
		VMP-25-21-080911	8/9/2011	<30	U		<81	U		36	J		<35	U		270			<24	U		1200			<240	U	

See last page of table for notes.

Location	Depth	Sample ID	Sample Date	1,1,1-Trichloroethane (Methyl chloroform)			1,1,2-Trichloroethane			SUMMARY OF SOIL ANALYTICAL DETECTIONS AND BOREHOLE DETECTIONS			VAPOR ANALYTICAL DETECTIONS			Toluene			2,2,4-Trimethylpentane			m,p-Xylene			o-Xylenes					
				Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier	Result (mg/m³)	Lab Qualifier	URS Qualifier			
VMP-16	5 ft	VMP-16-5	11/20/2009	<0.092	U		<0.092	U		<0.09	U		<0.095	U		<0.083	U		<0.083	U		16			<0.073	U		<0.073	U	
		VMP-16-5-090210	9/2/2010	<13	U		<13	U		<13	U		<13	U		2.3	J		<12	U		9300			5.4	J		<10	U	
		VMP-16-5-112910	11/29/2010	<5.9	U		<5.9	U		<5.8	U		<6.1	U		<5.4	U		<5.4	U		7600			2.6	J	J	<4.7	U	
		VMP-16-5-021511	2/15/2011	<3.6	U		<3.6	U		<3.5	U		<3.7	U		<3.2	U		<3.2	U		5500			0.98	J	J	<2.9	U	
		VMP-16-5-042211	4/22/2011	<4.8	U		<4.8	U		<4.7	U		<4.9	U		<4.3	U		<4.3	U		7900			1	J		<3.8	U	
		VMP-16-5-080511	8/5/2011	<1.5	U		<1.5	U		<1.5	U		<1.6	U		<1.4	U		<1.4	U		2100			<1.2	U		<1.2	U	
	13.5 ft	VMP-16-13.5	11/19/2009	<0.41	U		<0.41	U		<0.4	U		<0.42	U		<0.37	U		<0.37	U		82			<0.32	U		<0.32	U	
		VMP-16-13.5-090210	9/2/2010	<13	U		<13	U		<13	U		<14	U		3.6	J		1.7	J		8200			6.6	J		<11	U	
		VMP-16-13.5-090210-Dup	9/2/2010	<13	U		<13	U		<13	U		<14	U		3	J		<12	U		8000			6.1	J		<11	U	
		VMP-16-13.5-112910	11/29/2010	<38	U		<38	U		<38	U		<39	U		<34	U		<34	U		11000			<30	U		<30	U	
		VMP-16-13.5-021611	2/16/2011	<7.3	U		<7.3	U		<7.2	U		<7.6	U		<6.6	U		<6.6	U		5600			<5.8	U		<5.8	U	
		VMP-16-13.5-021611-Dup	2/16/2011	<7.2	U		<7.2	U		<7.1	U		<7.4	U		<6.5	U		<6.5	U		6100			<5.7	U		<5.7	U	
		VMP-16-13.5-042211	4/22/2011	<7.7	U		<7.7	U		<7.6	U		<8	U		<7	U		<7	U		7600			<6.2	U		<6.2	U	
		VMP-16-13.5-080511	8/5/2011	<0.75	U		<0.75	U	UJ	<0.74	U	UJ	<0.78	U	UJ	<0.68	U	UJ	<0.68	U	UJ	610		J	<0.6	U	UJ	<0.6	U	UJ
	19 ft	VMP-16-19	11/19/2009	<3.5	U		<3.5	U		<3.5	U		<3.6	U		<3.2	U		<3.2	U		910			<2.8	U		<2.8	U	
		VMP-16-19-090210	9/2/2010	<13	U		<13	U		<13	U		<14	U		3.8	J		<12	U		10000			8.2	J		<11	U	
		VMP-16-19-112910	11/29/2010	<29	U		<29	U		<29	U		<30	U		<26	U		<26	U		10000			<23	U		<23	U	
		VMP-16-19-021611	2/16/2011	<7	U		<7	U		<6.9	U		<7.2	U		<6.3	U		<6.3	U		5900			<5.6	U		<5.6	U	
		VMP-16-19-042711	4/27/2011	<7.2	U		<7.2	U		3.3	J		<7.4	U		<6.5	U		<6.5	U		5100			<5.7	U		<5.7	U	
		VMP-16-19-042711-Dup	4/27/2011	<7	U		<7	U		<6.9	U		<7.2	U		<6.3	U		<6.3	U		5000			<5.6	U		<5.6	U	
	31 ft	VMP-16-31	11/19/2009	<5.3	U		<5.3	U		<5.2	U		<5.4	U		<4.8	U		<4.8	U		2400	E	J	<4.2	U		<4.2	U	
		VMP-16-31-D	11/19/2009	<5.3	U		<5.3	U		<5.2	U		<5.4	U		<4.8	U		<4.8	U		2300	E	J	<4.2	U		<4.2	U	
		VMP-16-31-090310	9/3/2010	<0.0079	U		<0.0079	U		<0.0078	U		0.0013	J		0.0028	J		0.0027	J		7.4			0.0024	J		<0.0063	U	
		VMP-16-31-112910	11/29/2010	<30	U		<30	U		<29	U		<31	U		<27	U		<27	U		11000			<24	U		<24	U	
VMP-17	5 ft	VMP-17-5	6/21/2010	<0.007	U		<0.007	U		<0.007	U		0.0013	J		<0.007	U		<0.007	U		1.2			<0.006	U		<0.006	U	
		VMP-17-5-DUP	6/21/2010	<0.008	U		<0.008	U		<0.008	U		0.00099	J		<0.007	U		<0.007	U		1			<0.006	U		<0.006	U	
		VMP-17-5-090110	9/1/2010	<0.0073	U		<0.0073	U		<0.0072	U		0.0015	J		<0.0066	U		<0.0066	U		0.12	J	J	0.0053	J	J	0.0016	J	J
		VMP-17-5-112210	11/22/2010	<0.0073	U		<0.0073	U		<0.0072	U		<0.0076	U		<0.0066	U		<0.0066	U		0.0032	J		<0.0058	J	U	<0.0058	U	
		VMP-17-5-020711	2/7/2011	<0.0069	U		<0.0069	U		0.0028	J		0.001	J		<0.0062	U		<0.0062	U		0.083			<0.0055	U		<0.0055	U	
		VMP-17-5-040611	4/6/2011	<0.028	U		<0.028	U		0.0071	J		<0.028	U		<0.025	U		<0.025	U		0.047			<0.022	U		<0.022	U	
		VMP-17-5-080111	8/1/2011	<0.1	U		<0.1	U		<0.1	U		<0.11	U		<0.095	U		<0.095	U		0.95			<0.084	U		<0.084	U	
VMP-25	5 ft	VMP-25-5-031511	3/15/2011	<0.066	U		<0.066	U		<0.065	U		<0.068	U		0.14			0.13			30			0.26			0.15		
		VMP-25-5-040811	4/8/2011	<0.03	U		<0.03	U		<0.03	U		<0.031	U		<0.027	U		<0.027	U		0.73			<0.024	U		<0.024	U	
		VMP-25-5-080911	8/9/2011	<0.0064	U		<0.0064	U		0.0019	J		0.0015	J		0.0041	J		0.0015	J		0.076			0.027			0.0078		
	21 ft	VMP-25-21-031511	3/15/2011	<13	U		<13	U		<13	U		<13	U		1.9	J		<12	U		<11	U		18			4.6	J	
		VMP-25-21-031511-Dup	3/15/2011	<16	U		<16	U		<16	U		<17	U		<15	U		<15	U		<14	U		18			5.3	J	
		VMP-25-21-040811	4/8/2011	<140	U		<140	U		<140	U		<140	U		<120	U		<120	U		<120	U		16	J		<110	U	
		VMP-25-21-040811-Dup	4/8/2011	<140	U		<140	U		<140	U		<140	U		<120	U		<120	U		<120	U		14	J		<110	U	
VMP-25-21-080911	8/9/2011	80			<45	U		54			<46	U		190			73			2400			1000			280				

Notes
Lab Qualifiers
J = Estimated value; results between the MDL and RL
U = Compound analyzed for but not detected above the RL
E = Exceeds instrument calibration range
URS Qualifiers
J = Estimated detection
UJ = Estimated non-detect
U = Non-detect due to blank contamination
= Values highlighted in yellow reflect exceedances of the screening criteria presented in Table 2

See last page of table for notes

TABLE 5 ANALYTICAL DETECTIONS - NATURAL GASES																											
Location	Depth	Sample ID	Sample Date	Carbon Dioxide			Carbon Monoxide			Ethane			Ethene			Helium			Methane			Nitrogen			Oxygen		
				Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier
VMP-1	5 ft	VMP-1-5	11/2/2009	4.5			<0.024	U		<0.0024	U		<0.0024	U		1.6			1.4			81			11		
		VMP-1-5-082510	8/25/2010	3			<0.026	U		<0.0026	U		<0.0026	U		0.95			0.0032			79			17		
		VMP-1-5-111710	11/17/2010	1			<0.026	U		<0.0026	U		<0.0026	U		3.3			0.0013			76			20		
		VMP-1-5-020411	2/4/2011	8			<0.02	U		0.00015	J		<0.002	U		0.036	J		0.26			84			7.5		
		VMP-1-5-041211	4/12/2011	1.8			<0.026	U		<0.0026	U		<0.0026	U		0.54			0.000064	J		78			20		
		VMP-1-5-080111	8/1/2011	7.8			<0.026	U		<0.0026	U		<0.0026	U		0.59			0.00007	J		80			12		
	8.5 ft	VMP-1-8.5	11/2/2009	12			<0.023	U		<0.0023	U		<0.0023	U		<0.11	U		1.5			85			1.5		
		VMP-1-8.5-082510	8/25/2010	4.8			<0.026	U		<0.0026	U		<0.0026	U		4.1			0.0032			78			13		
		VMP-1-8.5-111710	11/17/2010	4.8			<0.025	U		<0.0025	U		<0.0025	U		1.9			0.0012			81			12		
		VMP-1-8.5-111710-Dup	11/17/2010	4.6			<0.025	U		<0.0025	U		<0.0025	U		1.9			0.00088			80			13		
		VMP-1-8.5-020411	2/4/2011	11			<0.024	U		0.00031	J		<0.0024	U		0.025	J		0.56			87			1.6		
		VMP-1-8.5-041211	4/12/2011	4.2			<0.026	U		<0.0026	U		<0.0026	U		0.057	J		0.00019	J		83			13		
		VMP-1-8.5-080111	8/1/2011	13			<0.029	U		0.00067	J		<0.0029	U		0.017	J		1.8			84			1.5		
		VMP-1-8.5-080111-Dup	8/1/2011	13			<0.028	U		0.00065	J		<0.0028	U		0.015	J		1.8			83			1.7		
	23.5 ft	VMP-1-23.5	11/2/2009	9.8			<0.024	U		0.0038			<0.0024	U		<0.12	U		7.4			80			1.3		
		VMP-1-23.5-083010	8/30/2010	8.1			<0.027	U		0.0052			<0.0027	U		0.032	J		9.7			78			1.6		
		VMP-1-23.5-111810	11/17/2010	1.6			<0.025	U		<0.0025	U		<0.0025	U		0.86			0.000052	J		78			19		
		VMP-1-23.5-020411	2/4/2011	8.9			<0.023	U		0.0052			<0.0023	U		0.016	J		12			76			1.3		
		VMP-1-23.5-041211	4/12/2011	7.4		J	<0.027	U		0.00072	J		<0.0027	U		0.15			2.2		J	88			2.2		J
		VMP-1-23.5-041211-Dup	4/12/2011	10		J	<0.024	U		0.0011	J		<0.0024	U		0.023	J		2.9		J	85			1.6		J
		VMP-1-23.5-080111	8/1/2011	9.3			<0.026	U		0.0057			<0.0026	U		0.16			10			76			2.2		
	38.5 ft	VMP-1-38.5	11/2/2009	5.6			<0.022	U		0.017			<0.0022	U		0.23			33			54			1.4		
VMP-2	5 ft	VMP-2-5	11/2/2009	7.8			<0.023	U		<0.0023	U		<0.0023	U		2.4			0.0078			79			11		
		VMP-2-5-083110	8/31/2010	10			<0.027	U		0.00086	J		<0.0027	U		0.039	J		1.6			85			3.2		
		VMP-2-5-111610	11/16/2010	11			<0.026	U		0.0021	J		<0.0026	U		0.32			3.6			80			4.6		
		VMP-2-5-020411	2/4/2011	10			<0.028	U		0.00055	J		<0.0028	U		0.013	J		1.7			85			3.2		
		VMP-2-5-041311	4/13/2011	3.3			<0.028	U		<0.0028	U		<0.0028	U		0.04	J		0.00014	J		79			18		
		VMP-2-5-080211	8/2/2011	12			<0.029	U		0.0018	J		<0.0029	U		0.0082	J		2.7			83			1.5		
	8.5 ft	VMP-2-8.5	11/3/2009	2.5			<0.02	U		<0.002	U		<0.002	U		1.2			<0.0002	U		78			18		
		VMP-2-8.5-D	11/3/2009	2.7			<0.022	U		<0.0022	U		<0.0022	U		1.3			<0.00022	U		78			18		
		VMP-2-8.5-083110	8/31/2010	11			<0.028	U		0.0025	J		<0.0028	U		0.025	J		4.5			82			1.4		
		VMP-2-8.5-111610	11/16/2010	11			<0.025	U		0.0032			<0.0025	U		0.011	J		6.3			80			1.6		
		VMP-2-8.5-020411	2/4/2011	11			<0.026	U		0.0011	J		<0.0026	U		0.86			3.8			82			1.7		
		VMP-2-8.5-041311	4/13/2011	10			<0.024	U		<0.0024	U		<0.0024	U		0.028	J		0.0027			84			5.4		
		VMP-2-8.5-080211	8/2/2011	9.8			<0.021	U		0.0029			<0.0021	U		0.0091	J		4.8			80			4		
	22 ft	VMP-2-22	11/3/2009	10			<0.022	U		<0.0022	U		<0.0022	U		<0.11	U		0.54			85			4		
		VMP-2-22-083110	8/31/2010	10			<0.028	U		0.004			<0.0028	U		0.041	J		8			79			1.4		
		VMP-2-22-111610	11/16/2010	11			<0.026	U		0.0038			<0.0026	U		<0.13	U		8.2			78			1.5		
		VMP-2-22-020411	2/4/2011	11			<0.024	U		0.0016	J		<0.0024	U		0.01	J		5.1			82			1.5		
		VMP-2-22-041311	4/13/2011	11			<0.026	U		0.0013	J		<0.0026	U		0.049	J		4.3			83			1.7		
		VMP-2-22-080211	8/2/2011	9.7			<0.028	U		0.0041			<0.0028	U		0.021	J		8.2			79			1.9		
	42 ft	VMP-2-42	11/3/2009	5			<0.022	U		0.02			<0.0022	U		<0.11	U		64			16			0.92		
VMP-3	5 ft	VMP-3-5	11/3/2009	8.5			<0.027	U		<0.0027	U		<0.0027	U		0.18			0.037			86			5		
		VMP-3-5-090910	9/9/2010	12			<0.021	U		0.0018	J		<0.0021	U		0.5			7.5			76			2.7		
		VMP-3-5-112210	11/22/2010	8			<0.027	U		0.0028			<0.0027	U		1.5			10			72			6.9		
		VMP-3-5-020911	2/9/2011	4.2			<0.024	U		0																	

See last page of table for notes

TABLE 5 ANALYTICAL DETECTIONS - NATURAL GASES																											
Location	Depth	Sample ID	Sample Date	Carbon Dioxide			Carbon Monoxide			Ethane			Ethene			Helium			Methane			Nitrogen			Oxygen		
				Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier
VMP-4	5 ft	VMP-4-5	11/5/2009	0.69			<0.025	U		<0.0025	U		<0.0025	U		34			0.029			51			14		
		VMP-4-5-082510	8/25/2010	13			<0.029	U		0.0005	J		<0.0029	U		0.026	J		1.7			83			2.1		
		VMP-4-5-112210	11/22/2010	13			<0.027	U		0.0052			<0.0027	U		0.024	J		14			69			1.9		
		VMP-4-5-021411	2/14/2011	4.8			<0.025	U		0.00027	J		<0.0025	U		2.9			0.7			79			12		
		VMP-4-5-041911	4/19/2011	12			<0.026	U		0.0044			<0.0026	U		0.031	J		12			72			1.3		
		VMP-4-5-080311	8/3/2011	11			<0.031	U		<0.0031	U		<0.0031	U		0.012	J		0.01			80			8.4		
	12 ft	VMP-4-12	11/5/2009	9.6			<0.025	U		<0.0025	U		<0.0025	U		0.26			2.2			84			3.8		
		VMP-4-12-082510	8/25/2010	14			<0.025	U		0.0039			<0.0025	U		0.042	J		17			66			1.2		
		VMP-4-12-112310	11/23/2010	13			<0.026	U		0.0036			<0.0026	U		<0.13	U		12			72			1.3		
		VMP-4-12-021411	2/14/2011	9			<0.026	U		0.0016	J		<0.0026	U		0.35			4.7			80			5.3		
		VMP-4-12-041911	4/19/2011	11			<0.025	U		0.0046			<0.0025	U		0.035	J		13			72			1.5		
		VMP-4-12-080311	8/3/2011	15			<0.029	U		0.0018	J		<0.0029	U		1			6.9			75			1.6		
	23.5 ft	VMP-4-12-080311-Dup	8/3/2011	15			<0.029	U		0.0018	J		<0.0029	U		1			6.9			75			1.7		
		VMP-4-23.5	11/5/2009	6.7			<0.023	U		0.021			<0.0023	U		<0.12	U		46			32			0.75		
		VMP-4-23.5-083110	8/31/2010	6.1			<0.029	U		0.018			<0.0029	U		<0.14	J	U	43			38			0.81		
		VMP-4-23.5-112310	11/23/2010	6.7			<0.023	U		0.021			<0.0023	U		0.01	J		50			28			0.77		
		VMP-4-23.5-021411	2/14/2011	6.5			<0.021	U		0.021			<0.0021	U		0.022	J		51			28			0.91		
		VMP-4-23.5-042011	4/20/2011	6			<0.023	U		0.019			<0.0023	U		0.85		J	46			33			1.4		
	39 ft	VMP-4-23.5-042011-Dup	4/20/2011	6			<0.023	U		0.02			<0.0023	U		0.06	J	J	49			31			1.2		
		VMP-4-23.5-080611	8/6/2011	5.9			<0.028	U		0.02			<0.0028	U		0.01	J		45			35			1		
		VMP-4-39	11/5/2009	6.6			<0.024	U		0.02			<0.0024	U		<0.12	U		44			34			1.1		
		VMP-4-39-042111	4/21/2011	6.1			<0.025	U		0.021			<0.0025	U		0.018	J		51			29			0.9		
VMP-5	5 ft	VMP-5-5	11/5/2009	14			<0.022	U		<0.0022	U		<0.0022	U		<0.11	U		2.8			81			1.3		
		VMP-5-5-090910	9/9/2010	12			<0.026	U		0.0036			<0.0026	U		1.6			3.9			78			2.4		
		VMP-5-5-112210	11/22/2010	13			<0.026	U		0.0046			<0.0026	U		0.01	J		7			76			1.6		
		VMP-5-5-021611	2/16/2011	8			<0.025	U		<0.0025	U		<0.0025	U		0.47			0.064			76			15		
		VMP-5-5-042111	4/21/2011	2			<0.026	U		<0.0026	U		<0.0026	U		0.1	J		<0.00026	U		78			20		
		VMP-5-5-080511	8/5/2011	7.9			<0.025	U		<0.0025	U		<0.0025	U		0.2			0.0013			81			11		
	12.5 ft	VMP-5-12.5	11/6/2009	13			<0.026	U		0.004			<0.0026	U		<0.13	U		6.3			78			1.3		
		VMP-5-12.5-D	11/6/2009	13			<0.023	U		0.004			<0.0023	U		<0.12	U		6.3			77			1.6		
		VMP-5-12.5-090910	9/9/2010	14			<0.026	U		0.0032			<0.0026	U		0.039	J		3.7			79			1.3		
		VMP-5-12.5-112310	11/23/2010	12			<0.026	U		<0.0026	U		<0.0026	U		0.026	J		0.025			83			5.2		
		VMP-5-12.5-021611	2/16/2011	13			<0.024	U		0.00031	J		<0.0024	U		0.04	J		0.68			83			2.9		
		VMP-5-12.5-042111	4/21/2011	6.9			<0.028	U		<0.0028	U		<0.0028	U		0.089	J		0.00015	J		80			13		
	31 ft	VMP-5-12.5-080611	8/6/2011	12			<0.025	U		0.0034			<0.0025	U		0.013	J		6.6			76			3.7		
		VMP-5-31	11/6/2009	10			<0.024	U		0.014			<0.0024	U		<0.12	U		24			58			1		
		VMP-5-31-090910	9/9/2010	9			<0.022	U		0.015			<0.0022	U		<0.11	J	U	26			55			1.5		
		VMP-5-31-112310	11/23/2010	9.2			<0.024	U		0.012			<0.0024	U		0.012	J		28			53			1.2		
		VMP-5-31-021611	2/16/2011	9.2			<0.028	U		0.015			<0.0028	U		0.022	J		24			58			1.3		
		VMP-5-31-042111	4/21/2011	9			<0.026	U		0.012			<0.0026	U		0.015	J		22			60			1.6		
	40 ft	VMP-5-31-080611	8/6/2011	9.2			<0.028	U		0.013			<0.0028	U		0.01	J		24			58			1.2		
		VMP-5-40	11/6/2009	9.2			<0.033	U		0.012			<0.0033	U		<0.16	U		22			60			2.7		
		VMP-5-40-042111	4/21/2011	8.3			<0.028	U		0.011			<0.0028	U		1.4			19			62			2.6		
		VMP-6	5 ft	VMP-6-5	11/6/2009	13			<0.024	U		<0.0024	U		<0.0024	U		<0.12	U		3.7			79			3.3
VMP-6-5-090810	9/8/2010			15			<0.026	U		0.00049	J		<0.0026	U		<0.13	J	U	1.4			82			1.4		
VMP-6-5-111610	11/16/2010			14			<0.028	U		0.0012	J		<0.0028	U		0.074	J		2.7			81			1.5		
VMP-6-5-020711	2/7/2011			1.7			<0.024	U		<0.0024	U		<0.0024	U		0.42			0.000049	J		79			19		
VMP-6-5-040811	4/8/2011			2			<0.026	U		<0.0026	U		<0.0026	U		0.44			0.0011			78			19		
VMP-6-5-080411	8/4/2011			3.4			<0.027	U																			

See last page of table for notes

TABLE 5 CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS - NATURAL GASES																											
Location	Depth	Sample ID	Sample Date	Carbon Dioxide			Carbon Monoxide			Ethane			Ethene			Helium			Methane			Nitrogen			Oxygen		
				Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier
VMP-7	5 ft	VMP-7-5	11/9/2009	1.7			<0.023	U		<0.0023	U		<0.0023	U		2.7			<0.00023	U		78			18		
		VMP-7-5-082610	8/26/2010	2.7			<0.026	U		<0.0026	U		<0.0026	U		1.9			0.0002	J		79			16		
		VMP-7-5-111910	11/19/2010	14			<0.024	U		<0.0024	U		<0.0024	U		0.76			0.0052			80			5.1		
		VMP-7-5-020711	2/7/2011	2.6			<0.026	U		<0.0026	U		<0.0026	U		0.082	J		0.000048	J		80			17		
		VMP-7-5-040711	4/7/2011	5.3			<0.027	U		<0.0027	U		<0.0027	U		0.025	J		<0.00027	U		80			15		
		VMP-7-5-080211	8/2/2011	16			<0.029	U		0.00035	J		<0.0029	U		0.014	J		2.3			80			1.5		
	13.5 ft	VMP-7-13.5	11/9/2009	16			<0.022	U		<0.0022	U		<0.0022	U		<0.11	U		0.1			82			2.1		
		VMP-7-13.5-082610	8/26/2010	16			<0.029	U		0.000083	J		<0.0029	U		0.041	J		0.57			82			1.5		
		VMP-7-13.5-111910	11/19/2010	16			<0.024	U		0.00025	J		<0.0024	U		0.014	J		1.8			80			1.6		
		VMP-7-13.5-020711	2/7/2011	9.5			<0.025	U		<0.0025	U		<0.0025	U		0.0099	J		0.00016	J		82			8.6		
		VMP-7-13.5-040711	4/7/2011	11			<0.026	U		<0.0026	U		<0.0026	U		0.033	J		<0.00026	U		81			7.6		
		VMP-7-13.5-080311	8/3/2011	17			<0.029	U		0.00029	J		<0.0029	U		0.012	J		1.9			79			1.6		
	29.5 ft	VMP-7-29.5	11/9/2009	17			<0.023	U		<0.0023	U		<0.0023	U		<0.11	U		4.4			77			1.3		
		VMP-7-29.5-083110	8/31/2010	15			<0.025	U		0.00058	J		<0.0025	U		<0.12	J	U	4.1			79			1.3		
		VMP-7-29.5-111910	11/19/2010	16			<0.025	U		0.00068	J		<0.0025	U		0.011	J		3.4			79			1.5		
		VMP-7-29.5-020711	2/7/2011	15			<0.026	U		0.00032	J		<0.0026	U		0.2			2			81			1.5		
		VMP-7-29.5-040711	4/7/2011	13			<0.025	U		0.00022	J		<0.0025	U		0.016	J		1.4			81			4.7		
		VMP-7-29.5-080311	8/3/2011	15			<0.03	U		0.00071	J		<0.003	U		0.0071	J		3.6			80			1.4		
	38 ft	VMP-7-38	11/9/2009	3.2			<0.024	U		<0.0024	U		<0.0024	U		<0.12	U		0.95			79			17		
		VMP-7-38-020711	2/7/2011	16			<0.022	U		0.00063	J		<0.0022	U		0.0087	J		2.2			80			1.5		
		VMP-7-38-040711	4/7/2011	15			<0.026	U		0.00028	J		<0.0026	U		0.013	J		1.8			81			1.9		
VMP-8	5 ft	VMP-8-5	11/10/2009	5.1			<0.023	U		<0.0023	U		<0.0023	U		<0.12	U		<0.00023	U		79			16		
		VMP-8-5-083010	8/30/2010	7.3			<0.027	U		<0.0027	U		<0.0027	U		0.039	J		0.00032			80			13		
		VMP-8-5-111810	11/17/2010	2			<0.023	U		<0.0023	U		<0.0023	U		0.14			0.0002	J		78			20		
		VMP-8-5-021011	2/10/2011	4			<0.025	U		<0.0025	U		<0.0025	U		0.018	J		0.00015	J		81			15		
		VMP-8-5-040711	4/7/2011	2.9			<0.028	U		<0.0028	U		<0.0028	U		0.032	J		0.00017	J		77			20		
		VMP-8-5-072711	7/27/2011	8.8			<0.03	U		<0.003	U		<0.003	U		0.018	J		0.000085	J		79			12		
	9.5 ft	VMP-8-9.5	11/10/2009	9			<0.022	U		<0.0022	U		<0.0022	U		0.79			<0.00022	U		78			12		
		VMP-8-9.5-083010	8/30/2010	8.4			<0.051	U		<0.0051	U		<0.0051	U		<0.25	J	U	0.000048	J		80			12		
		VMP-8-9.5-083010-Dup	8/30/2010	9.1			<0.025	U		<0.0025	U		<0.0025	U		0.024	J		0.000026	J		81			9.8		
		VMP-8-9.5-111810	11/17/2010	8.5			<0.024	U		<0.0024	U		<0.0024	U		0.026	J		0.000053	J		78			13		
		VMP-8-9.5-021011	2/10/2011	7.9			<0.025	U		<0.0025	U		<0.0025	U		0.015	J		<0.00025	U		79			13		
		VMP-8-9.5-040711	4/7/2011	7.4			<0.028	U		<0.0028	U		<0.0028	U		0.043	J		<0.00028	U		79			14		
	23.5 ft	VMP-8-9.5-072711	7/27/2011	7.2			<0.04	U		<0.004	U		<0.004	U		0.0098	J		<0.0004	U		78			15		
		VMP-8-23.5	11/10/2009	10			<0.024	U		<0.0024	U		<0.0024	U		<0.12	U		<0.00024	U		79			11		
		VMP-8-23.5-083010	8/30/2010	9.3			<0.026	U		<0.0026	U		<0.0026	U		0.036	J		0.000032	J		81			9.9		
		VMP-8-23.5-111910	11/19/2010	9.9			<0.025	U		<0.0025	U		<0.0025	U		0.028	J		0.000069	J		79			11		
		VMP-8-23.5-021011	2/10/2011	9.3			<0.027	U		<0.0027	U		<0.0027	U		0.02	J		<0.00027	U		79			12		
		VMP-8-23.5-040711	4/7/2011	8.3			<0.025	U		<0.0025	U		<0.0025	U		0.029	J		<0.00025	U		79			13		
VMP-9	5 ft	VMP-8-23.5-040711-Dup	4/7/2011	11			<0.06	U		<0.006	U		<0.006	U		1.2			<0.0006	U		72			16		
		VMP-8-23.5-081011	8/10/2011	8.8			<0.026	U		<0.0026	U		<0.0026	U		0.0086	J		<0.00026	U		79			12		
		VMP-9-5	11/11/2009	3.8			<0.022	U		<0.0022	U		<0.0022	U		11			<0.00022	U		69			16		
		VMP-9-5-082610	8/26/2010	10			<0.023	U		<0.0023	U		<0.0023	U		0.012	J		0.000061	J		81			9.1		
		VMP-9-5-111910	11/19/2010	14			<0.024	U		<0.0024	U		<0.0024	U		0.042	J		0.00036			82			3.8		
		VMP-9-5-020811	2/8/2011	1.5			<0.022	U		<0.0022	U		<0.0022	U		0.01	J		<0.00022	U		78			20		
	11.5 ft	VMP-9-5-040611	4/6/2011	10			<0.061	U		<0.0061	U		<0.0061	U		0.034	J</										

See last page of table for notes

TABLE 5 CUMULATIVE SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS - NATURAL GASES																											
Location	Depth	Sample ID	Sample Date	Carbon Dioxide			Carbon Monoxide			Ethane			Ethene			Helium			Methane			Nitrogen			Oxygen		
				Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier
VMP-10	5 ft	VMP-10-5	11/11/2009	3.9			<0.022	U		<0.0022	U		<0.0022	U		<0.11	U		<0.00022	U		78			18		
		VMP-10-5-090710	9/7/2010	5.2			<0.026	U		<0.0026	U		<0.0026	U		<0.13	J	U	0.00017	J		80			15		
		VMP-10-5-111810	11/17/2010	3.2			<0.024	U		<0.0024	U		<0.0024	U		0.024	J		<0.00024	U		79			18		
		VMP-10-5-021011	2/10/2011	3.8			<0.024	U		<0.0024	U		<0.0024	U		0.0094	J		0.00014	J		79			17		
		VMP-10-5-040511	4/5/2011	0.38			<0.022	U		<0.0022	U		<0.0022	U		0.29			0.00017	J		78			21		
		VMP-10-5-072911	7/29/2011	3.8			<0.052	U		<0.0052	U		<0.0052	U		0.16	J		<0.00052	U		79			17		
	10 ft	VMP-10-10	11/11/2009	9.9			<0.023	U		<0.0023	U		<0.0023	U		<0.11	U		<0.00023	U		79			11		
		VMP-10-10-090710	9/7/2010	7.6			<0.026	U		<0.0026	U		<0.0026	U		<0.13	J	U	0.00013	J		79			13		
		VMP-10-10-111810	11/17/2010	5.3			<0.026	U		<0.0026	U		<0.0026	U		0.0082	J		<0.00026	U		79			16		
		VMP-10-10-021111	2/11/2011	4			<0.02	U		<0.002	U		<0.002	U		0.016	J		0.00009	J		79			17		
		VMP-10-10-040611	4/6/2011	2.2			<0.026	U		<0.0026	U		<0.0026	U		0.026	J		0.000048	J		79			19		
		VMP-10-10-072911	7/29/2011	5.5			<0.028	U		<0.0028	U		<0.0028	U		0.6			<0.00028	U		80			14		
	20 ft	VMP-10-20	11/11/2009	0.15		J	<0.022	U		<0.0022	U		<0.0022	U		<0.11	U		<0.00022	U		78			22		
		VMP-10-20-D	11/11/2009	0.23		J	<0.025	U		<0.0025	U		<0.0025	U		0.58			<0.00025	U		78			21		
		VMP-10-20-090710	9/7/2010	0.22			<0.056	U		<0.0056	U		<0.0056	U		<0.28	J	U	0.00019	J		80			20		
		VMP-10-20-090710-Dup	9/7/2010	0.16			<0.052	U		<0.0052	U		<0.0052	U		0.076	J		0.00025	J		74			26		
		VMP-10-20-111810	11/17/2010	8.3			<0.049	U		<0.0049	U		<0.0049	U		0.0098	J		<0.00049	U		79			13		
		VMP-10-20-111810-Dup	11/17/2010	7.4			<0.025	U		<0.0025	U		<0.0025	U		0.0043	J		0.000045	J		78			14		
		VMP-10-20-021111	2/11/2011	6.4			<0.051	U		<0.0051	U		<0.0051	U		0.012	J		<0.00051	U		78			16		
		VMP-10-20-040611	4/6/2011	0.58			<0.029	U		<0.0029	U		<0.0029	U		0.028	J		0.00019	J		78			21		
		VMP-10-20-072911	7/29/2011	7.1			<0.027	U		<0.0027	U		<0.0027	U		<0.14	U		<0.00027	U		80			13		
	30 ft	VMP-10-30	11/13/2009	16			<0.025	U		<0.0025	U		<0.0025	U		<0.12	U		<0.00025	U		81			3.4		
VMP-11	5 ft	VMP-11-5	11/17/2009	7.8			<0.022	U		<0.0022	U		<0.0022	U		<0.11	U		1			87			4.4		
		VMP-11-5-090710	9/7/2010	8			<0.025	U		<0.0025	U		<0.0025	U		<0.12	J	U	0.00072			80			12		
		VMP-11-5-112210	11/22/2010	10			<0.026	U		<0.0026	U		<0.0026	U		0.016	J		0.000096	J		80			9.4		
		VMP-11-5-021111	2/11/2011	8.5			<0.023	U		<0.0023	U		<0.0023	U		0.018	J		0.00004	J		80			11		
		VMP-11-5-040611	4/6/2011	8			<0.027	U		<0.0027	U		<0.0027	U		0.022	J		0.002			80			12		
		VMP-11-5-080711	8/7/2011	7.1			<0.03	U		<0.003	U		<0.003	U		0.01	J		<0.0003	U		79			14		
	8 ft	VMP-11-8	11/17/2009	11			<0.025	U		<0.0025	U		<0.0025	U		0.21			0.01			84			5.1		
		VMP-11-8-080910	9/8/2010	7.8			<0.053	U		<0.0053	U		<0.0053	U		0.018	J		0.0011			76			16		
		VMP-11-8-112210	11/22/2010	11			<0.026	U		<0.0026	U		<0.0026	U		0.031	J		<0.00026	U		80			8.8		
		VMP-11-8-021111	2/11/2011	9.4			<0.025	U		<0.0025	U		<0.0025	U		<0.12	U		<0.00025	U		81			9.7		
		VMP-11-8-021111-Dup	2/11/2011	9.4			<0.024	U		<0.0024	U		<0.0024	U		0.014	J		<0.00024	U		81			9.9		
		VMP-11-8-040611	4/6/2011	8.2			<0.028	U		<0.0028	U		<0.0028	U		0.017	J		0.00007	J		81			11		
		VMP-11-8-040611-Dup	4/6/2011	8.1			<0.029	U		<0.0029	U		<0.0029	U		0.034	J		0.000058	J		80			12		
		VMP-11-8-080711	8/7/2011	10			<0.03	U		<0.003	U		<0.003	U		0.015	J		<0.0003	U		81			9		
	29 ft	VMP-11-29	11/18/2009	17			<0.024	U		<0.0024	U		<0.0024	U		<0.12	U		0.14			80			2.4		
		VMP-11-29-090810	9/8/2010	14			<0.026	U		<0.0026	U		<0.0026	U		1			0.048			83			1.6		
		VMP-11-29-112210	11/22/2010	14			<0.028	U		<0.0028	U		<0.0028	U		0.0073	J		0.071			84			1.9		
		VMP-11-29-112210-Dup	11/22/2010	14			<0.028	U		<0.0028	U		<0.0028	U		0.013	J		0.071			84			1.5		
		VMP-11-29-021411	2/14/2011	14			<0.025	U		<0.0025	U		<0.0025	U		0.013	J		0.00048			82			3.6		
		VMP-11-29-040611	4/6/2011	15			<0.028	U		<0.0028	U		<0.0028	U		0.031	J		0.00062			83			1.8		
		VMP-11-29-082511	8/25/2011	14			<0.028	U		<0.0028	U		<0.0028	U		0.0056	J		0.0025			84			2		
		VMP-11-29-082511-Dup	8/25/2011	14			<0.028	U		<0.0028	U		<0.0028	U		0.0044	J		0.00013	J		84			2		
	38 ft	VMP-11-38	11/18/2009	16			<0.03	U		<0.003	U		<0.003	U		<0.15	U		0.35			81					

See last page of table for notes

TABLE 5 ANALYTICAL DETECTIONS - NATURAL GASES																											
Location	Depth	Sample ID	Sample Date	Carbon Dioxide			Carbon Monoxide			Ethane			Ethene			Helium			Methane			Nitrogen			Oxygen		
				Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier
VMP-13	5 ft	VMP-13-5	11/16/2009	14			<0.024	U		<0.0024	U		<0.0024	U		<0.12	U		0.82			82			2.5		
		VMP 13-5-091310	9/13/2010	8.4			<0.026	U		<0.0026	U		<0.0026	U		<0.13	U		0.00088			84			7		
		VMP-13-5-120110	12/1/2010	6.1			<0.023	U		<0.0023	U		<0.0023	U		0.047	J		<0.00023	U		81			13		
		VMP-13-5-021811	2/18/2011	3.6			<0.073	U		<0.0073	U		<0.0073	U		0.017	J		0.0048			80			16		
		VMP-13-5-040511	4/5/2011	3.4			<0.055	U		<0.0055	U		<0.0055	U		0.079	J		<0.00055	U		81			16		
		VMP-13-5-080911	8/9/2011	9.1			<0.03	U		<0.003	U		<0.003	U		0.24			0.0095			84			6.5		
		VMP-13-5-080911-Dup	8/9/2011	6.2			<0.026	U		<0.0026	U		<0.0026	U		0.17			0.0061			83			11		
	10.5 ft	VMP-13-10.5	11/17/2009	0.14		J	<0.024	U		<0.0024	U		<0.0024	U		<0.12	U		0.0079		J	80			20		
		VMP-13-10.5-D	11/17/2009	0.23		J	<0.025	U		<0.0025	U		<0.0025	U		<0.12	U		0.015		J	79			21		
		VMP 13-10.5-091310	9/13/2010	11			<0.049	U		<0.0049	U		<0.0049	U		<0.24	U		0.068			86			3.4		
		VMP 13-10.5-091310-Dup	9/13/2010	11			<0.048	U		<0.0048	U		<0.0048	U		<0.24	U		0.076			85			3.6		
		VMP-13-10.5-120110	12/1/2010	8.6			<0.026	U		<0.0026	U		<0.0026	U		0.028	J		0.00032			82			8.8		
		VMP-13-10.5-120110-Dup	12/1/2010	8.6			<0.027	U		<0.0027	U		<0.0027	U		<0.14	U		0.0003			83			8.7		
		VMP-13-10.5-021811	2/18/2011	12			<0.027	U		0.00022	J		<0.0027	U		<0.13	U		1.1			84			2.5		
		VMP-13-10.5-021811-Dup	2/18/2011	12			<0.026	U		0.00023	J		<0.0026	U		0.021	J		1.1			85			1.9		
		VMP-13-10.5-040511	4/5/2011	5.9			<0.028	U		<0.0028	U		<0.0028	U		0.023	J		<0.00028	U		83			11		
	21.5 ft	VMP-13-10.5-080911	8/9/2011	11			<0.03	U		0.00012	J		<0.003	U		0.0088	J		0.59			87			1.7		
		VMP-13-21.5	11/17/2009	15			<0.021	U		<0.0021	U		<0.0021	U		<0.11	U		1.6			81			1.3		
		VMP 13-21.5-091310	9/13/2010	12			<0.024	U		0.00034	J		<0.0024	U		<0.12	U		2			83			2.5		
		VMP-13-21.5-120110	12/1/2010	13			<0.024	U		0.00037	J		<0.0024	U		0.02	J		1.8			83			1.8		
		VMP-13-21.5-021811	2/18/2011	12			<0.025	U		0.00026	J		<0.0025	U		0.027	J		1.2			85			1.9		
		VMP-13-21.5-040511	4/5/2011	7.5			<0.024	U		0.0002	J		<0.0024	U		0.029	J		0.88			83			8.2		
		VMP-13-21.5-080911	8/9/2011	11			<0.03	U		0.00038	J		<0.003	U		0.0062	J		1.9			85			1.6		
	29.5 ft	VMP-13-29.5	11/17/2009	13			<0.024	U		<0.0024	U		<0.0024	U		<0.12	U		1.6			81			1.7		
		VMP-13-29.5-021811	2/18/2011	13			<0.022	U		0.00052	J		<0.0022	U		0.01	J		1.8			83			1.6		
		VMP-13-29.5-040511	4/5/2011	12			<0.022	U		0.00047	J		<0.0022	U		0.0083	J		2			84			1.7		
VMP-14	5 ft	VMP-14-5	11/20/2009	2			<0.026	U		<0.0026	U		<0.0026	U		0.13			0.0013			87			11		
		VMP 14-5-091010	9/10/2010	19			<0.025	U		0.0063			<0.0025	U		0.01	J		10			69			1.8		
		VMP-14-5-120110	12/1/2010	2.6			<0.024	U		<0.0024	U		<0.0024	U		0.025	J		0.00007	J		85			12		
		VMP-14-5-021711	2/17/2011	1.9			<0.026	U		<0.0026	U		<0.0026	U		0.031	J		0.016			93			5		
		VMP-14-5-040511	4/5/2011	2.6			<0.027	U		<0.0027	U		<0.0027	U		0.025	J		0.0022			78			19		
		VMP-14-5-080811	8/8/2011	16			<0.028	U		0.0081			<0.0028	U		0.0098	J		19			62			1.8		
	11.5 ft	VMP-14-11.5	11/16/2009	12			<0.025	U		0.005			<0.0025	U		<0.12	U		15			71			1.4		
		VMP 14-11.5-091010	9/10/2010	16			<0.023	U		0.01			<0.0023	U		0.0087	J		20			62			1.1		
		VMP-14-11.5-120110	12/2/2010	3.6			<0.025	U		0.001	J		<0.0025	U		0.029	J		2.8			92			1.6		
		VMP-14-11.5-120110-Dup	12/2/2010	3.6			<0.024	U		0.001	J		<0.0024	U		0.0068	J		2.8			92			1.6		
		VMP-14-11.5-021711	2/17/2011	3.6			<0.028	U		<0.0028	U		<0.0028	U		0.0073	J		0.15			93			3		
		VMP-14-11.5-021711-Dup	2/17/2011	3.7			<0.028	U		<0.0028	U		<0.0028	U		0.039	J		0.16			93			2.8		
		VMP-14-11.5-040511	4/5/2011	11			<0.027	U		<0.0027	U		<0.0027	U		0.028	J		0.0024			79			10		
		VMP-14-11.5-080811	8/8/2011	18			<0.028	U		0.0021	J		<0.0028	U		0.01	J		4.5			76			1.6		
	20 ft	VMP-14-20	11/16/2009	18			<0.024	U		0.0062			<0.0024	U		<0.12	U		18			60			1.3		
		VMP 14-20-091010	9/10/2010	17			<0.023	U		0.012			<0.0023	U		<0.12	U		22			57			0.97		
		VMP 14-20-091010-Dup	9/10/2010	17			<0.024	U		0.011			<0.0024	U		<0.12	U		22			57			1.1		
		VMP-14-20-120110	12/2/2010	18			<0.024	U		0.0047			<0.0024	U		0.0053	J		19			59			1.2		
		VMP-14-20-021811	2/18/2011	16			<0.027	U		0.0058			<0.0027	U		0.025	J		13			67			1.7		

See last page of table for notes

TABLE 5 ANALYTICAL DETECTIONS - NATURAL GASES																											
Location	Depth	Sample ID	Sample Date	Carbon Dioxide			Carbon Monoxide			Ethane			Ethene			Helium			Methane			Nitrogen			Oxygen		
				Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier
VMP-16	5 ft	VMP-16-5	11/20/2009	0.12			<0.025	U		<0.0025	U		<0.0025	U		38			<0.00025	U		49			13		
		VMP-16-5-090210	9/2/2010	18			<0.024	U		0.0014	J		<0.0024	U		0.032	J		43			38			1		
		VMP-16-5-112910	11/29/2010	12			<0.022	U		0.0008	J		<0.0022	U		0.1	J		32			48			7.3		
		VMP-16-5-021511	2/15/2011	15			<0.026	U		0.00093	J		<0.0026	U		0.03	J		43			40			1		
		VMP-16-5-042211	4/22/2011	17			<0.026	U		0.001	J		<0.0026	U		0.04	J		48			33			1.1		
		VMP-16-5-080511	8/5/2011	13			<0.028	U		0.00012	J		<0.0028	U		0.69			4.2			78			3.9		
	13.5 ft	VMP-16-13.5	11/19/2009	0.79			<0.024	U		<0.0024	U		<0.0024	U		24			0.1			58			17		
		VMP-16-13.5-090210	9/2/2010	19			<0.025	U		0.0014	J		<0.0025	U		<0.12	J	U	46			34			0.78		J
		VMP-16-13.5-090210-Dup	9/2/2010	18			<0.025	U		0.0014	J		<0.0025	U		<0.12	J	U	45			35			2		J
		VMP-16-13.5-112910	11/29/2010	17			<0.022	U		0.0012	J		<0.0022	U		0.011	J		50			31			0.84		
		VMP-16-13.5-021611	2/16/2011	15			<0.027	U		0.00087	J		<0.0027	U		0.013	J		37			46			1.1		
		VMP-16-13.5-021611-Dup	2/16/2011	14			<0.026	U		0.00084	J		<0.0026	U		0.039	J		36			49			1.1		
		VMP-16-13.5-042211	4/22/2011	16			<0.028	U		0.00099	J		<0.0028	U		0.064	J		48			33			0.93		
		VMP-16-13.5-080511	8/5/2011	8.4		J	<0.028	U	UJ	<0.0028	U	UJ	<0.0028	U	UJ	6.4		J	1.1		J	74		J	9.6		J
	19 ft	VMP-16-19	11/19/2009	2.2			<0.026	U		<0.0026	U		<0.0026	U		14			3.9			65			15		
		VMP-16-19-090210	9/2/2010	19			<0.025	U		0.0014	J		<0.0025	U		<0.12	U		51			28			0.73		
		VMP-16-19-112910	11/29/2010	17			<0.022	U		0.0012	J		<0.0022	U		0.014	J		51			29			1.5		
		VMP-16-19-021611	2/16/2011	14			<0.026	U		0.0009	J		<0.0026	U		0.016	J		40			44			1.3		
		VMP-16-19-042711	4/27/2011	16			<0.026	U		0.00071	J		<0.0026	U		3.4			33			46			1.2		
		VMP-16-19-042711-Dup	4/27/2011	15			<0.026	U		0.00071	J		<0.0026	U		3.6			31			48			1.9		
	31 ft	VMP-16-31	11/19/2009	4			<0.023	U		<0.0023	U		<0.0023	U		8.7			12			66			9.2		
		VMP-16-31-D	11/19/2009	3.7			<0.023	U		<0.0023	U		<0.0023	U		8.4			11			67			9.4		
		VMP-16-31-090310	9/3/2010	0.09			<0.061	U		<0.0061	U		<0.0061	U		22			0.00046	J		62			16		
		VMP-16-31-112910	11/29/2010	17			<0.022	U		0.0012	J		<0.0022	U		0.034	J		51			29			1.2		
VMP-17	5 ft	VMP-17-5	6/21/2010	6.7			<0.029	U		<0.0029	U		<0.0029	U		<0.14	U		0.00014	J		81			12		
		VMP-17-5-DUP	6/21/2010	6.8			<0.03	U		<0.003	U		<0.003	U		<0.15	U		0.00018	J		81			12		
		VMP-17-5-090110	9/1/2010	7.8			<0.054	U		<0.0054	U		<0.0054	U		0.089	J		<0.00054	J	U	80			12		
		VMP-17-5-112210	11/22/2010	5			<0.027	U		<0.0027	U		<0.0027	U		0.011	J		<0.00027	U		79			16		
		VMP-17-5-020711	2/7/2011	2			<0.051	U		<0.0051	U		<0.0051	U		<0.25	U		0.00017	J		73			25		
		VMP-17-5-040611	4/6/2011	3.2			<0.03	U		<0.003	U		<0.003	U		0.02	J		<0.0003	U		79			18		
		VMP-17-5-080111	8/1/2011	6.2			<0.029	U		<0.0029	U		<0.0029	U		0.012	J		0.0018			81			13		
VMP-18	8.5 ft	VMP-18-8.5	6/18/2010	7.7			<0.029	U		<0.0029	U		<0.0029	U		<0.14	U		0.000026	J		81			11		
		VMP-18-8.5-090710	9/7/2010	9.3			<0.026	U		<0.0026	U		<0.0026	U		0.021	J		0.00011	J		80			11		
		VMP-18-8.5-111910	11/19/2010	8.2			<0.022	U		<0.0022	U		<0.0022	U		0.015	J		0.000054	J		80			12		
		VMP-18-8.5-020711	2/7/2011	5.6			<0.047	U		<0.0047	U		<0.0047	U		<0.23	U		<0.00047	U		79			15		
		VMP-18-8.5-020711-Dup	2/7/2011	5.8			<0.023	U		<0.0023	U		<0.0023	U		0.029	J		<0.00023	U		80			14		
		VMP-18-8.5-040711	4/7/2011	6.4			<0.026	U		<0.0026	U		<0.0026	U		0.037	J		0.000047	J		80			14		
		VMP-18-8.5-072811	7/28/2011	8.2			<0.028	U		<0.0028	U		<0.0028	U		0.21			<0.00028	U		80			12		
VMP-19	5 ft	VMP-19-5	6/18/2010	8.7			<0.027	U		<0.0027	U		<0.0027	U		0.03			<0.00027	U		79			12		
		VMP-19-5-090110	9/1/2010	10			<0.053	U		<0.0053	U		<0.0053	U		0.049	J		0.00099			81			9.1		
		VMP-19-5-111510	11/15/2010	8.5			<0.028	U		<0.0028	U		<0.0028	U		<0.14	U		<0.00028	U		80			12		
		VMP-19-5-020411	2/4/2011	5.8			<0.024	U		<0.0024	U		<0.0024	U		0.018	J		0.00014	J		79			15		
		VMP-19-5-040711	4/7/2011	5.8			<0.027	U		<0.0027	U		<0.0027	U		0.047	J		<0.00027	U		78			16		
		VMP-19-5-080911	8/9/2011	9.1			<0.03	U		<0.003	U		<0.003	U		0.012	J		<0.0003	U		80			11		
		VMP-19-5-080911-Dup	8/9/2011	8.7			<0.028	U		<0.0028	U		<0.0028	U		0.01	J		<0.00028	U		80			11		
VMP-20	5 ft	VMP-20-5-031411	3/tr																								

See last page of table for notes

TABLE 5 ANALYTICAL DETECTIONS – NATURAL GASES																											
Location	Depth	Sample ID	Sample Date	Carbon Dioxide			Carbon Monoxide			Ethane			Ethene			Helium			Methane			Nitrogen			Oxygen		
				Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier	Result (%)	Lab Qualifier	URS Qualifier
VMP-22	5 ft	VMP-22-5-021111	2/11/2011	8.4			<0.026	U		<0.0026	U		<0.0026	U		0.06	J		0.0078			84			8		
		VMP-22-5-041811	4/18/2011	7.1			<0.025	U		<0.0025	U		<0.0025	U		0.092	J		<0.00025	U		83			9.9		
		VMP-22-5-072611	7/26/2011	7.4			<0.055	U		<0.0055	U		<0.0055	U		0.015	J		<0.00055	U		80			12		
	10 ft	VMP-22-10-021111	2/11/2011	10			<0.024	U		<0.0024	U		<0.0024	U		0.031	J		0.0034			84			5.5		
		VMP-22-10-041811	4/18/2011	8.9			<0.026	U		<0.0026	U		<0.0026	U		0.044	J		<0.00026	U		82			9.3		
		VMP-22-10-072611	7/26/2011	10			<0.03	U		<0.003	U		<0.003	U		<0.15	U		0.00016	J		85			4.9		
		VMP-22-10-072611-Dup	7/26/2011	10			<0.036	U		<0.0036	U		<0.0036	U		<0.18	U		0.00015	J		85			5		
	18 ft	VMP-22-18-021111	2/11/2011	11			<0.026	U		0.0008	J		<0.0026	U		0.014	J		1.5			85			1.7		
		VMP-22-18-041811	4/18/2011	11			<0.027	U		0.0007	J		<0.0027	U		0.027	J		1.5			86			1.6		
		VMP-22-18-072611	7/26/2011	10			<0.056	U		0.00046	J		<0.0056	U		0.019	J		0.9			84			5.3		
	38 ft	VMP-22-38-041811	4/18/2011	11			<0.028	U		0.0011	J		<0.0028	U		0.023	J		2.1			84			1.9		
VMP-23	5 ft	VMP-23-5-021511	2/15/2011	1.8			<0.026	U		<0.0026	U		<0.0026	U		0.1	J		0.00015	J		79			19		
		VMP-23-5-042111	4/21/2011	4.2			<0.023	U		<0.0023	U		<0.0023	U		0.063	J		0.000072	J		79			17		
		VMP-23-5-072711	7/27/2011	7.7			<0.026	U		<0.0026	U		<0.0026	U		0.018	J		0.00018	J		82			10		
	10 ft	VMP-23-10-021511	2/15/2011	8.1			<0.027	U		<0.0027	U		<0.0027	U		0.022	J		<0.00027	U		82			10		
		VMP-23-10-042111	4/21/2011	6.2			<0.028	U		<0.0028	U		<0.0028	U		1.5			<0.00028	U		79			13		
		VMP-23-10-072711	7/27/2011	9.4			<0.025	U		<0.0025	U		<0.0025	U		0.045	J		<0.00025	U		84			6.6		
	25 ft	VMP-23-25-021511	2/15/2011	14			<0.025	U		<0.0025	U		<0.0025	U		0.02	J		0.000065	J		84			1.9		
		VMP-23-25-042111	4/21/2011	13			<0.026	U		<0.0026	U		<0.0026	U		0.08	J		0.00036			84			3.1		
		VMP-23-25-072711	7/27/2011	12			<0.029	U		<0.0029	U		<0.0029	U		0.0063	J		0.0011			86			1.9		
VMP-24	5 ft	VMP-24-5-021611	2/16/2011	6.5			<0.028	U		<0.0028	U		<0.0028	U		0.016	J		0.00015	J		79			14		
		VMP-24-5-040811	4/8/2011	4.7			<0.023	U		<0.0023	U		<0.0023	U		0.013	J		0.0024			78			17		
		VMP-24-5-072811	7/28/2011	6.6			<0.028	U		<0.0028	U		<0.0028	U		0.71			0.00016	J		77			16		
	10 ft	VMP-24-10-021711	2/17/2011	9			<0.027	U		<0.0027	U		<0.0027	U		0.02	J		0.000078	J		79			12		
		VMP-24-10-041111	4/11/2011	6.8			<0.025	U		<0.0025	U		<0.0025	U		0.051	J		0.00015	J		77			16		
		VMP-24-10-072811	7/28/2011	8.9			<0.028	U		<0.0028	U		<0.0028	U		0.0098	J		0.00013	J		79			12		
	22 ft	VMP-24-22-021711	2/17/2011	9.7			<0.027	U		<0.0027	U		<0.0027	U		0.16			0.00031			78			12		
		VMP-24-22-041111	4/11/2011	9.3			<0.025	U		<0.0025	U		<0.0025	U		0.021	J		<0.00025	U		78			13		
		VMP-24-22-072811	7/28/2011	9.6			<0.025	U		<0.0025	U		<0.0025	U		0.0046	J		0.00016	J		78			12		
		VMP-24-22-072811-Dup	7/28/2011	9.7			<0.029	U		<0.0029	U		<0.0029	U		<0.14	U		0.00017	J		78			12		
	34 ft	VMP-24-34-021711	2/17/2011	10			<0.027	U		<0.0027	U		<0.0027	U		0.15			0.000049	J		79			11		
		VMP-24-34-041111	4/11/2011	9.4			<0.024	U		<0.0024	U		<0.0024	U		0.085	J		<0.00024	U		78			13		
		VMP-24-34-072811	7/28/2011	7.5			<0.021	U		<0.0021	U		<0.0021	U		0.024	J		0.00014	J		78			14		
VMP-25	5 ft	VMP-25-5-031511	3/15/2011	4.5			<0.024	U		<0.0024	U		<0.0024	U		<0.12	U		0.044			93			2.9		
		VMP-25-5-040811	4/8/2011	6.9			<0.028	U		<0.0028	U		<0.0028	U		0.024	J		0.0036			90			3.4		
		VMP-25-5-080911	8/9/2011	5.3			<0.023	U		<0.0023	U		<0.0023	U		0.012	J		0.00094			81			14		
		VMP-25-5-080911-Dup	8/9/2011	7.8			<0.02	U		<0.002	U		<0.002	U		0.25			0.0013			180			11		
	21 ft	VMP-25-21-031511	3/15/2011	15			<0.024	U		0.029			<0.0024	U		<0.12	U		30			50			1.1		
		VMP-25-21-031511-Dup	3/15/2011	14			<0.024	U		0.029			<0.0024	U		<0.12	U		29			52			1.2		
		VMP-25-21-040811	4/8/2011	14			<0.025	U		0.02			<0.0025	U		0.009	J		26			54			2.8		
		VMP-25-21-040811-Dup	4/8/2011	13			<0.026	U		0.02			<0.0026	U		0.026	J		25			56			3.3		
VMP-25-21-080911	8/9/2011	9.2			<0.026	U		0.016			<0.0026	U		0.0086	J		22			61			7.3				

Notes
Lab Qualifiers
J = Estimated value; results between the MDL and RL
U = Compound analyzed for but not detected above the RL
URS Qualifiers
J = Estimated detection
UJ = Estimated non-detect
U = Non-detect due to blank contamination

The following EVS descriptions and assumptions apply to **Figures 9** through **12**:

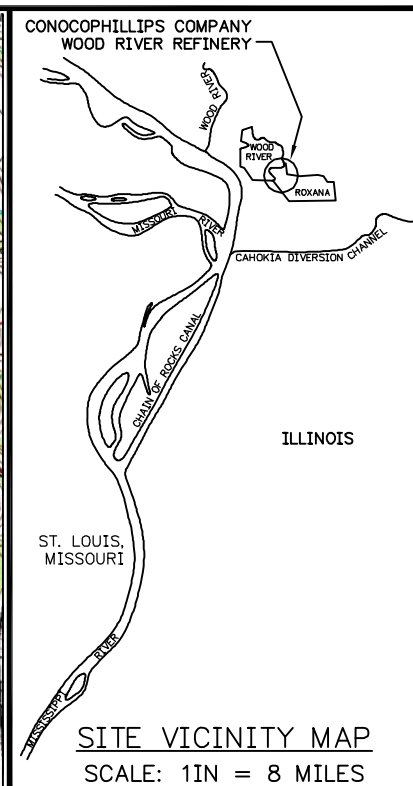
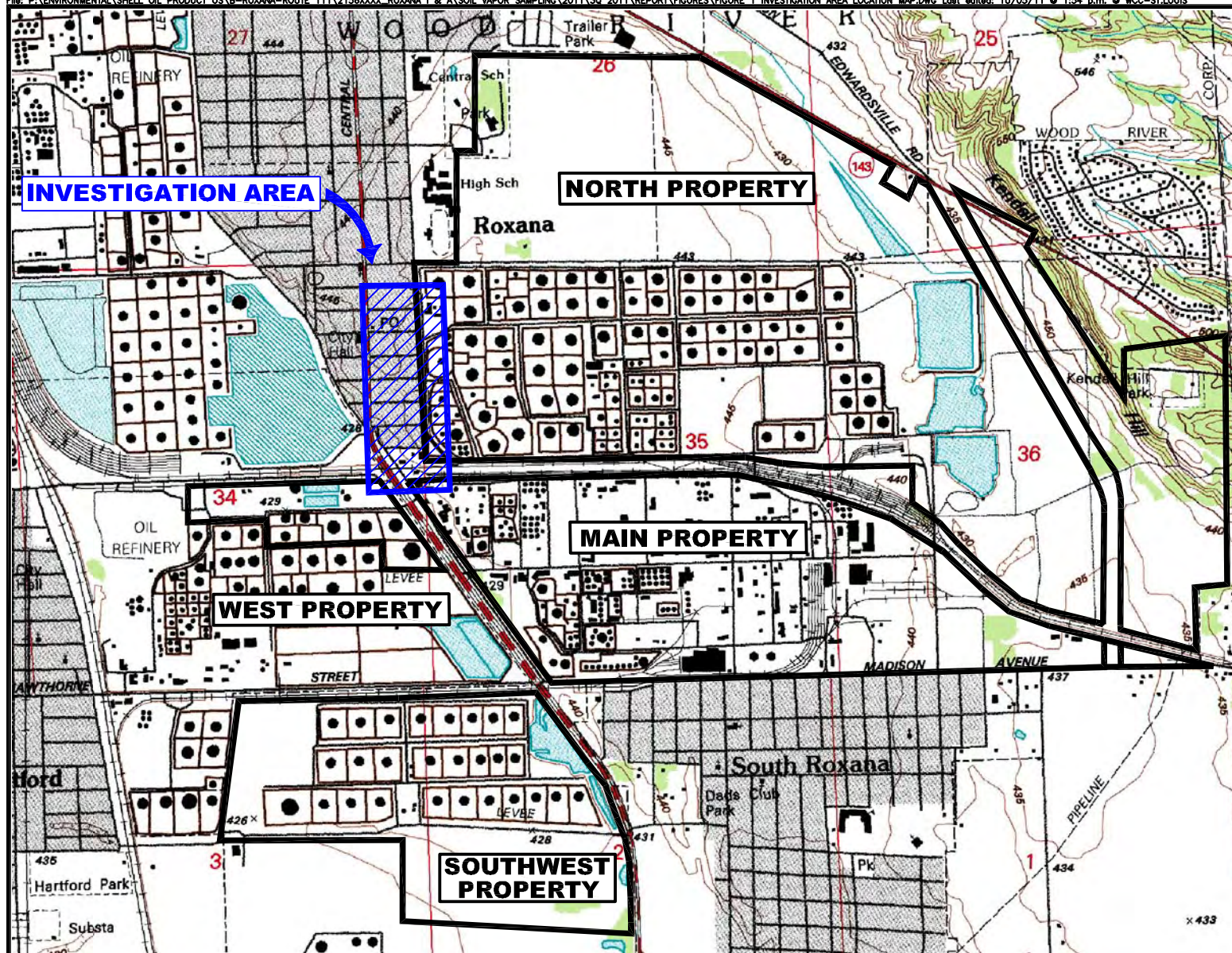
Plan View Model Output – The data input for the plan view model was not limited by depth and was modeled in three dimensions (3D). The bottom surface of the resulting model was limited to the potentiometric groundwater surface elevation. The two dimensional (2D) appearance of the figures created from the 3D model was achieved by displaying an aerial view of horizontal slices through the model. The horizontal slices were taken parallel to the ground surface that was created from GPS survey data, rather than at single elevation plane. The result of this is a surface that accurately represents soil vapor concentrations at discrete depths measured from ground surface.

Inward Kriging / Boundary Cut-off – This method of kriging limits the horizontal extent of data modeling to the extent of the data on the x/y plane in a convex hull. The model is bounded by the VMPs.

Vertical Cut-off – The bottom surface of this model is based on the 3Q11 groundwater gauging data collected in Roxana. The groundwater gauging data was used to model a 2D surface that represents the interface between the top surface of groundwater and the bottom surface of soil vapor.

Duplicate Samples – Analytical concentrations from duplicate samples collected at the same location and depth were averaged.

Detection Limits – In cases where the lab reported a non-detect, half the value of the lab detection limit was used in the model. This conservative method is based on the assumption that the soil is likely not free of benzene but the quantity contained is lower than detectable at the analyzed dilution. Data are posted where non-detect.



LEGEND

- WOOD RIVER REFINERY PROPERTY BOUNDARY
- INVESTIGATION AREA

SOURCE:
MAP TAKEN FROM ELECTRONIC USGS DIGITAL
RASTER GRAPHIC 7.5 MINUTE TOPOGRAPHIC MAP
OF WOOD RIVER, ILL-MO REVISED 1994.

CONTOUR INTERVAL = 5 FT

0 2000
SCALE FEET

SHELL OIL PRODUCTS US
SOIL VAPOR MONITORING PROGRAM
ROXANA, ILLINOIS

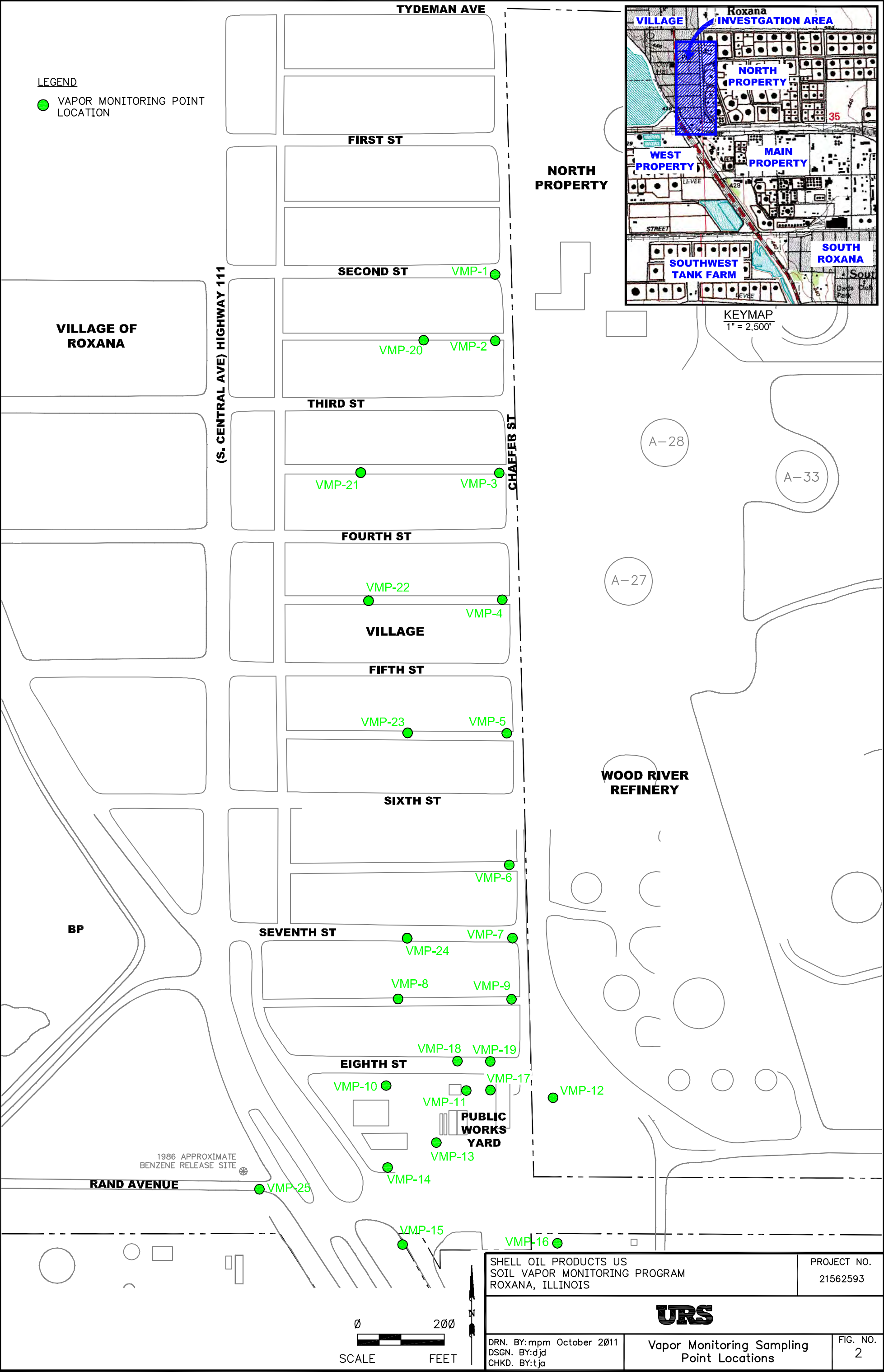
PROJECT NO.
21562593

URS

DRN. BY: djd October 2011
DSGN. BY: djd
CHKD. BY: mpm

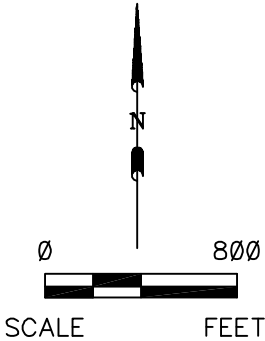
Investigation Area
Location Map

FIG. NO.
1



File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\2156XXXX-ROXANA I & A SOIL VAPOR SAMPLING 2011\30_2011\REPORT\FIGURES\FIGURE 3 GROUNDWATER CONTOUR MAP (9-19-11)\DWG Last edited: NOV. 28, 11 @ 10:52 a.m. by: david_deguire

- NOTES:
- 1) CONTOUR LINES PRIMARILY GENERATED BY SURFER VERSION 8 MODELING OF GROUNDWATER ELEVATIONS. SOME INTERPRETATION WAS DONE UTILITZING PROFESSIONAL JUDGMENT AND CONTOUR LINES WERE MODIFIED BY HAND.
- 2) ELEVATIONS ARE RELATIVE TO 1988 USGS DATUM.
- 3) CONTOURS BASED ON GROUNDWATER ELEVATIONS COLLECTED THE WEEK OF SEPTEMBER 19, 2011.



- LEGEND
- MONITORING WELL LOCATION GAUGED
 - PIEZOMETER LOCATION GAUGED
 - WATER WELLS
 - GROUNDWATER GRADIENT
 - GROUNDWATER SURFACE CONTOUR NGVD (CONTOUR INTERVAL 0.5 FT.)

BP PROPERTY

VILLAGE OF ROXANA

VALERO PROPERTY

NORTH PROPERTY

MAIN PROPERTY

SOUTHWEST PROPERTY

SHELL OIL PRODUCTS US
AT THE WRB REFINING LP WOOD RIVER REFINERY
ROXANA, ILLINOIS

PROJECT NO.
21562593

URS

DRN. BY:djd September 2011
DSGN. BY:dp
CHKD. BY:bb,ss

Groundwater Contour Map

FIG. NO.
3

NOTES:

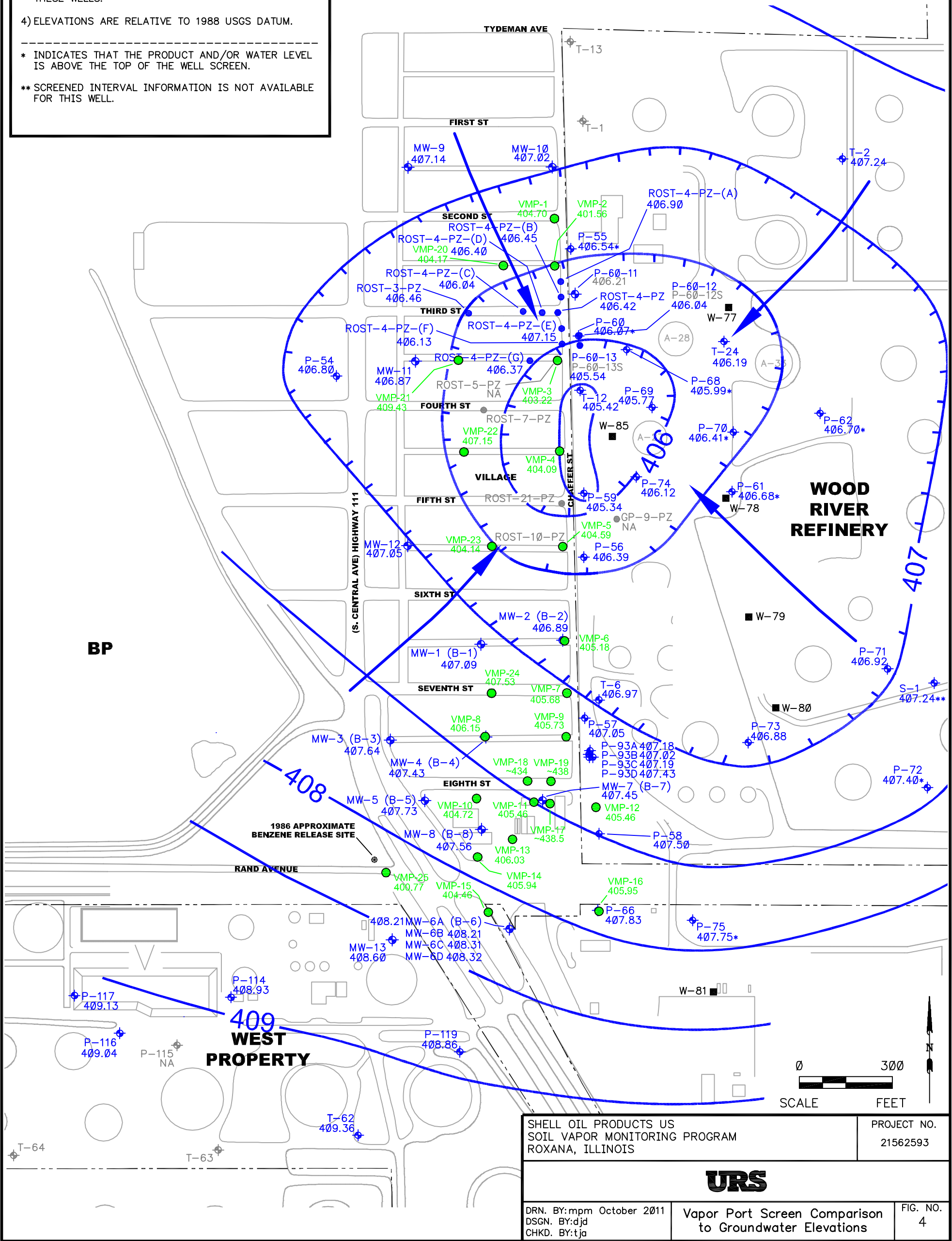
- 1) WATER LEVELS WERE OBTAINED DURING THE THIRD QUARTER 2011 GAUGING EVENT ON JULY 5-8, 2011.
- 2) CONTOUR LINES PRIMARILY GENERATED BY SURFER VERSION 8 MODELING OF GROUNDWATER ELEVATIONS. SOME INTERPRETATION WAS DONE UTILITZING PROFESSIONAL JUDGMENT AND CONTOUR LINES WERE MODIFIED BY HAND.
- 3) PRODUCT WAS IDENTIFIED IN MONITORING WELLS T-7 (0.08 FT*), T-19 (0.03 FT*), P-55 (0.01 FT*), P-60 (0.36 FT*), P-61 (0.01 FT*), P-62 (0.01 FT*), P-64 (0.17 FT**), P-68 (0.07 FT*), P-70 (0.01 FT*), P-72 (0.01 FT*), P-75 (0.02 FT *), AND P-92A (0.04 FT*). THE ELEVATIONS PRESENTED ON THIS FIGURE WERE CORRECTED BY A SPECIFIC GRAVITY OF 0.74 FOR THESE WELLS.
- 4) ELEVATIONS ARE RELATIVE TO 1988 USGS DATUM.

* INDICATES THAT THE PRODUCT AND/OR WATER LEVEL IS ABOVE THE TOP OF THE WELL SCREEN.

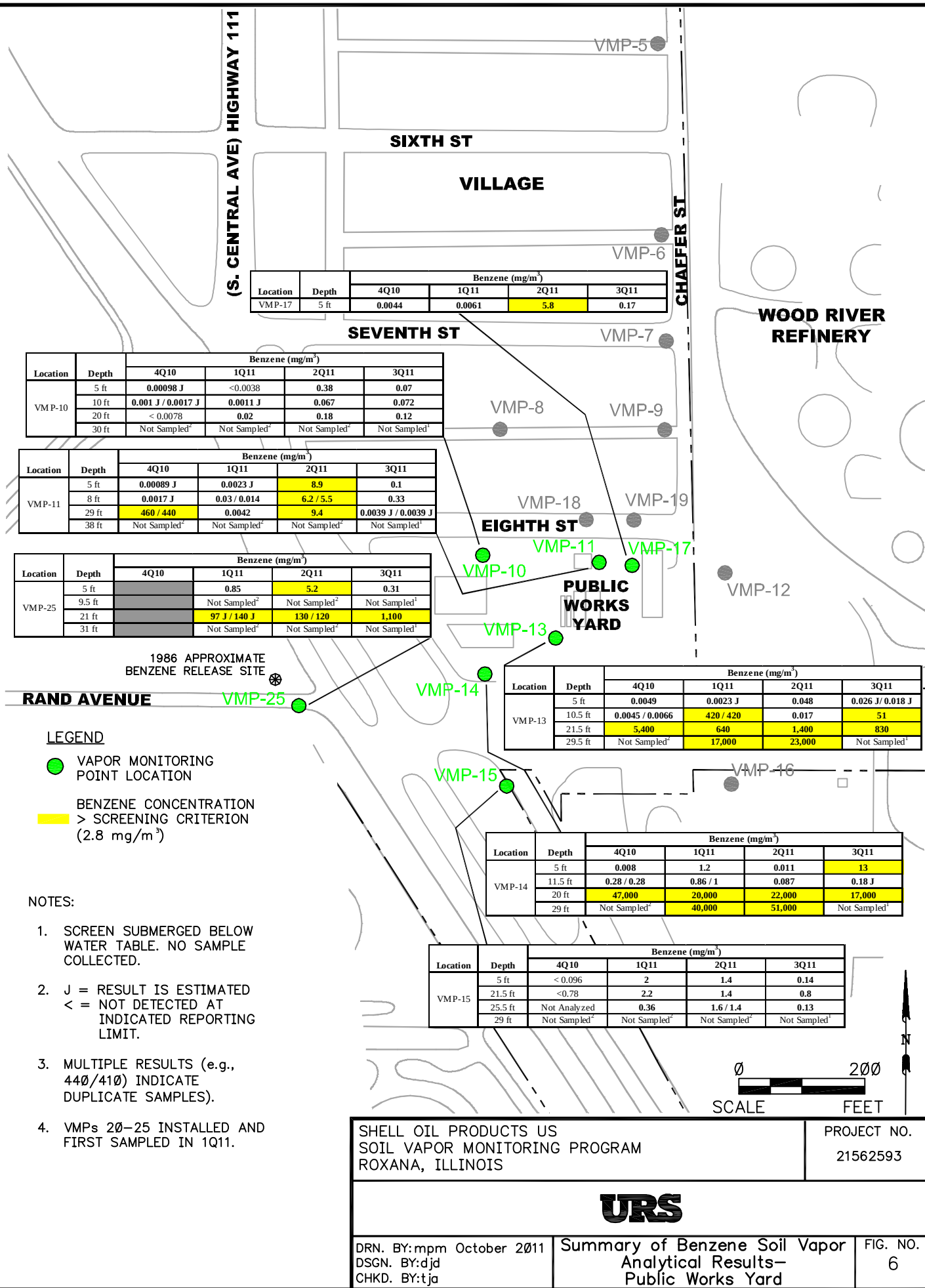
** SCREENED INTERVAL INFORMATION IS NOT AVAILABLE FOR THIS WELL.

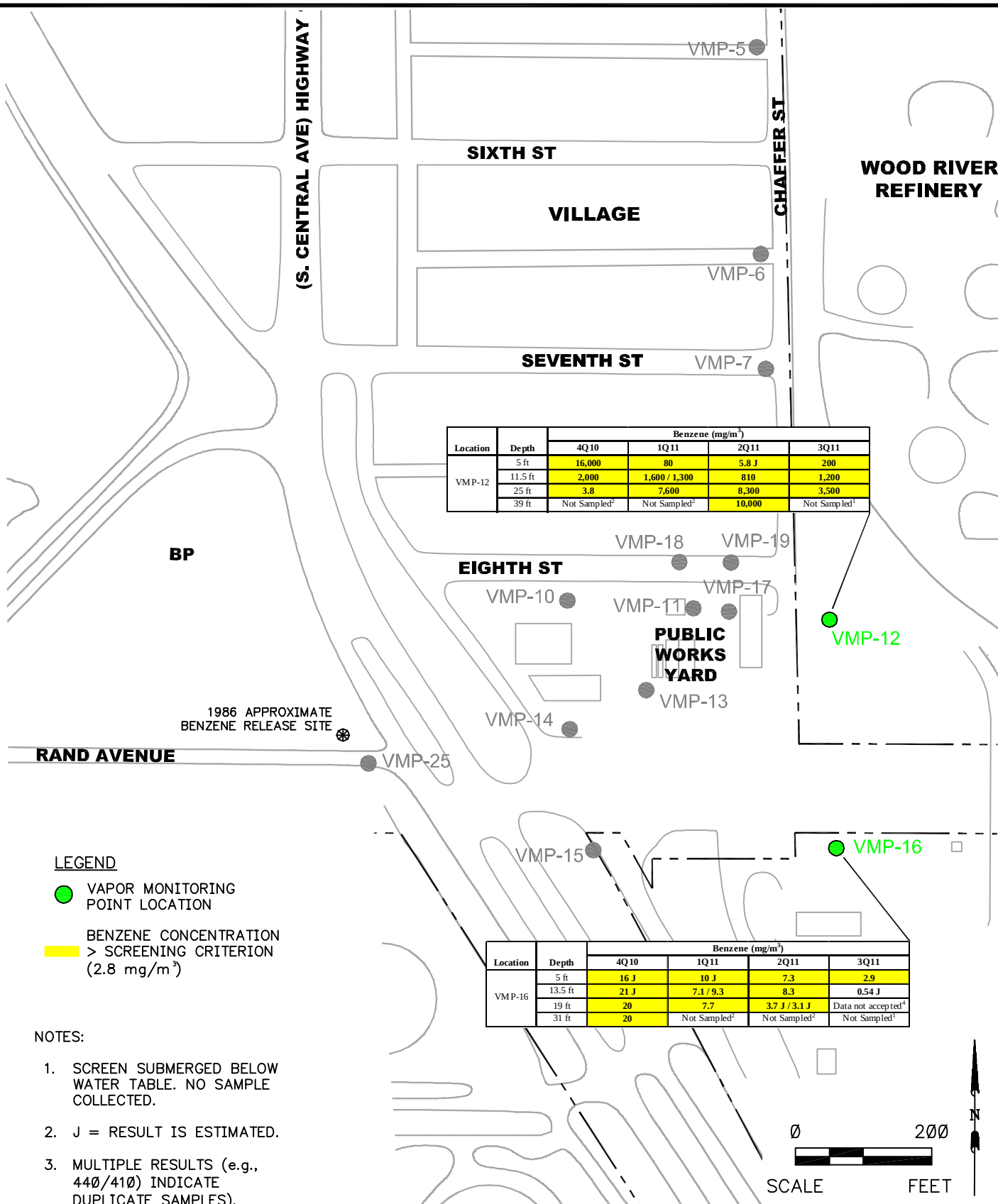
LEGEND

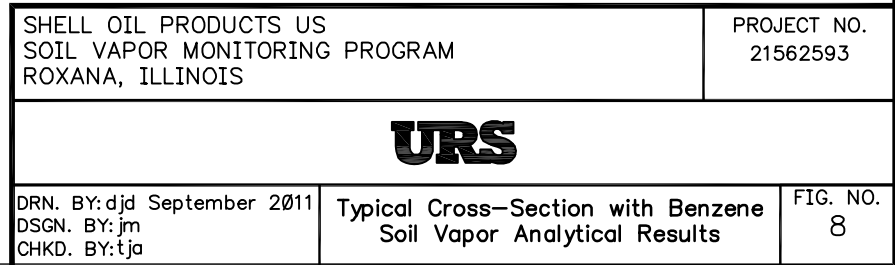
-  GROUNDWATER MONITORING LOCATION GAUGED
-  VAPOR MONITORING POINT LOCATION (WITH ELEVATION OF TOP OF DEEPEST PORT SCREEN)
-  GROUNDWATER MONITORING LOCATION (NOT GAUGED AND/OR NOT USED TO GENERATE CONTOUR LINES)
-  GROUNDWATER CONTOUR



SHELL OIL PRODUCTS US SOIL VAPOR MONITORING PROGRAM ROXANA, ILLINOIS		PROJECT NO. 21562593
URS		
DRN. BY:mpm October 2011 DSGN. BY:djd CHKD. BY:tja	Vapor Port Screen Comparison to Groundwater Elevations	FIG. NO. 4







LEGEND

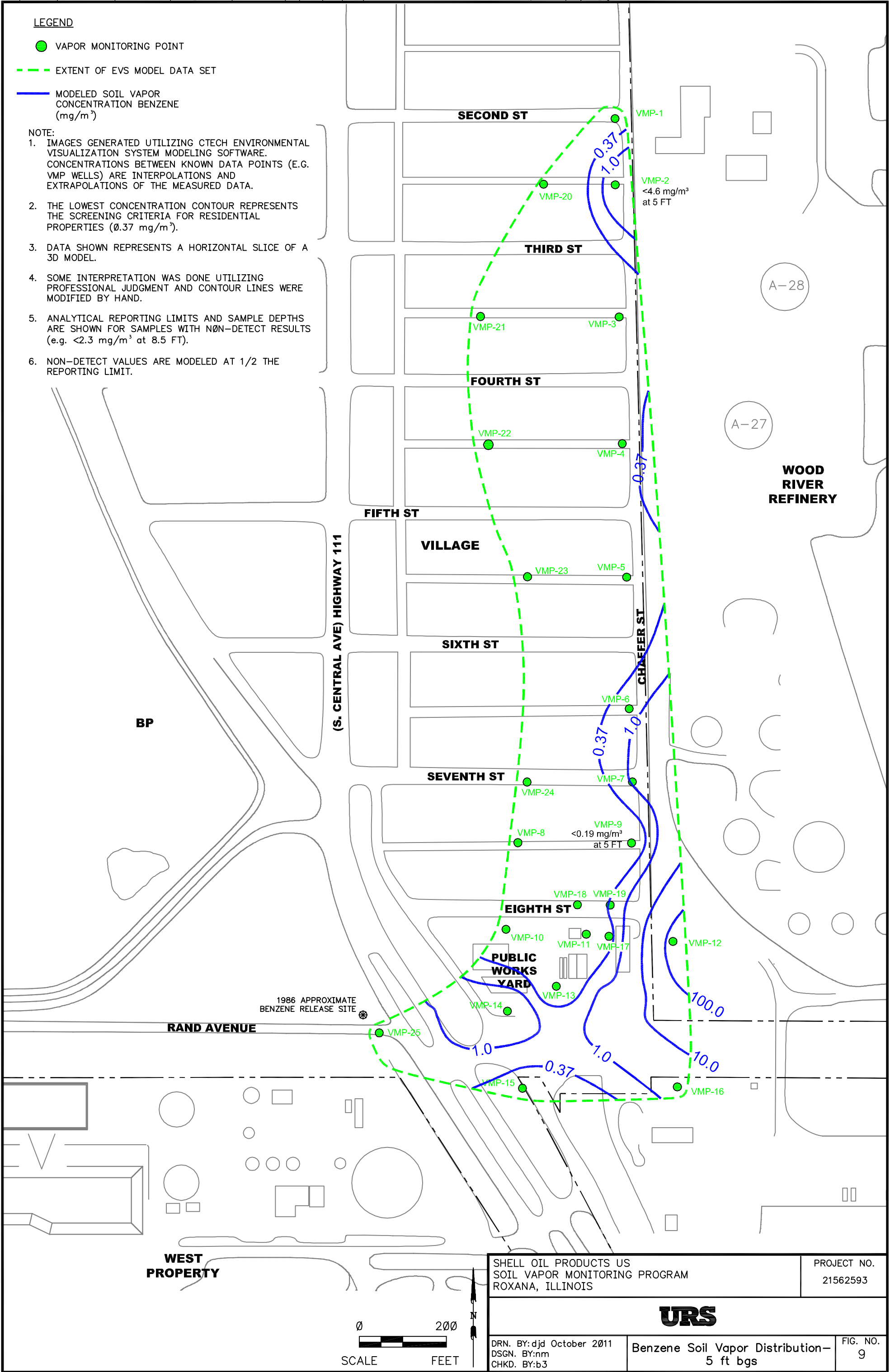
VAPOR MONITORING POINT

EXTENT OF EVS MODEL DATA SET

MODELED SOIL VAPOR
CONCENTRATION BENZENE
(mg/m³)

NOTE:

1. IMAGES GENERATED UTILIZING CTECH ENVIRONMENTAL VISUALIZATION SYSTEM MODELING SOFTWARE. CONCENTRATIONS BETWEEN KNOWN DATA POINTS (E.G. VMP WELLS) ARE INTERPOLATIONS AND EXTRAPOLATIONS OF THE MEASURED DATA.
2. THE LOWEST CONCENTRATION CONTOUR REPRESENTS THE SCREENING CRITERIA FOR RESIDENTIAL PROPERTIES (0.37 mg/m³).
3. DATA SHOWN REPRESENTS A HORIZONTAL SLICE OF A 3D MODEL.
4. SOME INTERPRETATION WAS DONE UTILIZING PROFESSIONAL JUDGMENT AND CONTOUR LINES WERE MODIFIED BY HAND.
5. ANALYTICAL REPORTING LIMITS AND SAMPLE DEPTHS ARE SHOWN FOR SAMPLES WITH NON-DETECT RESULTS (e.g. <2.3 mg/m³ at 8.5 FT).
6. NON-DETECT VALUES ARE MODELED AT 1/2 THE REPORTING LIMIT.



LEGEND

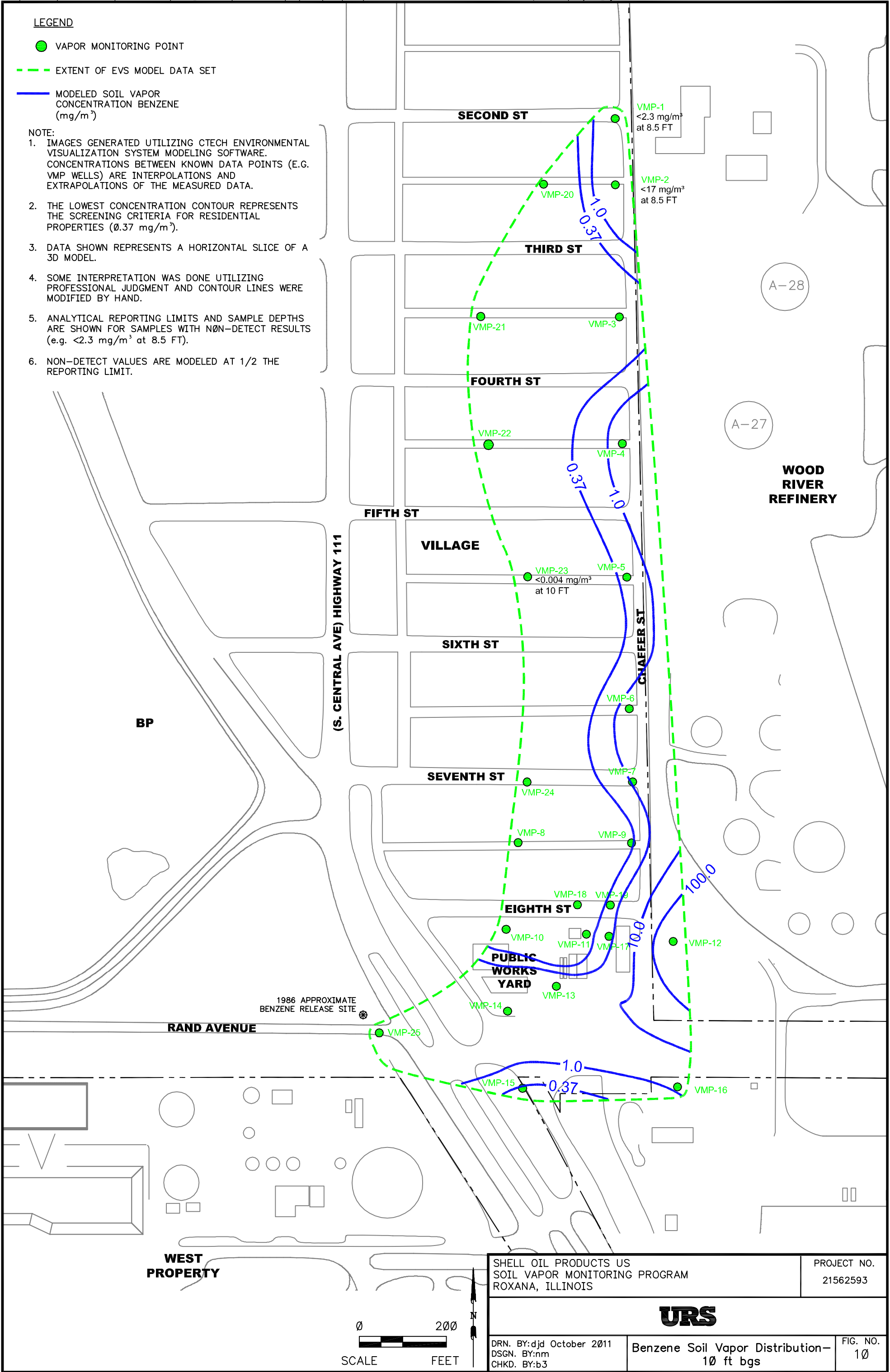
VAPOR MONITORING POINT

EXTENT OF EVS MODEL DATA SET

MODELED SOIL VAPOR
CONCENTRATION BENZENE
(mg/m³)

NOTE:

- IMAGES GENERATED UTILIZING CTECH ENVIRONMENTAL VISUALIZATION SYSTEM MODELING SOFTWARE. CONCENTRATIONS BETWEEN KNOWN DATA POINTS (E.G. VMP WELLS) ARE INTERPOLATIONS AND EXTRAPOLATIONS OF THE MEASURED DATA.
- THE LOWEST CONCENTRATION CONTOUR REPRESENTS THE SCREENING CRITERIA FOR RESIDENTIAL PROPERTIES (0.37 mg/m³).
- DATA SHOWN REPRESENTS A HORIZONTAL SLICE OF A 3D MODEL.
- SOME INTERPRETATION WAS DONE UTILIZING PROFESSIONAL JUDGMENT AND CONTOUR LINES WERE MODIFIED BY HAND.
- ANALYTICAL REPORTING LIMITS AND SAMPLE DEPTHS ARE SHOWN FOR SAMPLES WITH NON-DETECT RESULTS (e.g. <2.3 mg/m³ at 8.5 FT).
- NON-DETECT VALUES ARE MODELED AT 1/2 THE REPORTING LIMIT.

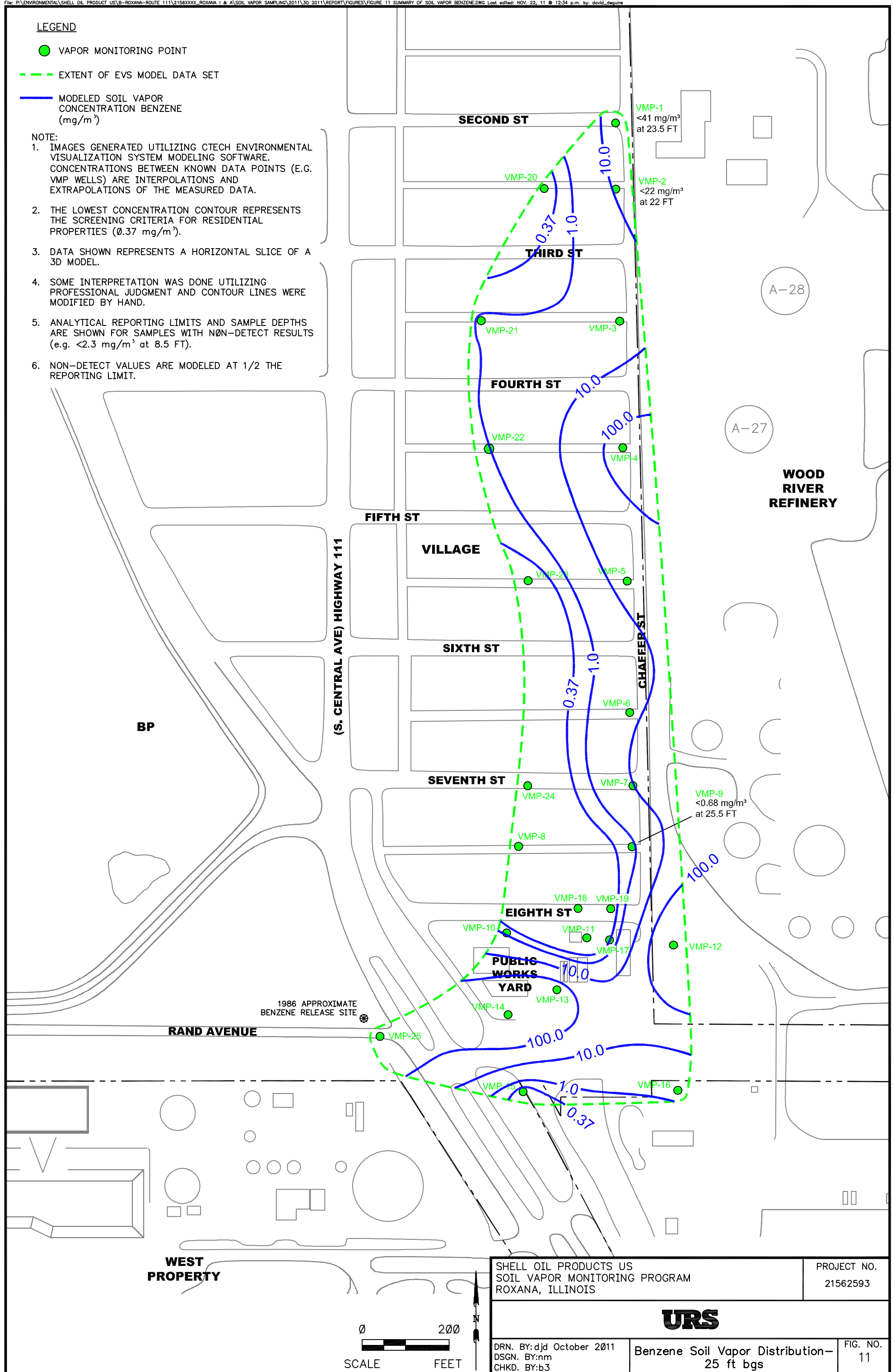


LEGEND

-  VAPOR MONITORING POINT
 EXTENT OF EVS MODEL DATA SET
 MODELOED SOIL VAPOR CONCENTRATION BENZENE (mg/m³)

NOTE:

1. IMAGES GENERATED UTILIZING CTECH ENVIRONMENTAL VISUALIZATION SYSTEM MODELING SOFTWARE. CONCENTRATIONS BETWEEN KNOWN DATA POINTS (E.G. VMP WELLS) ARE INTERPOLATIONS AND EXTRAPOLATIONS OF THE MEASURED DATA.
2. THE LOWEST CONCENTRATION CONTOUR REPRESENTS THE SCREENING CRITERIA FOR RESIDENTIAL PROPERTIES (0.37 mg/m^3).
3. DATA SHOWN REPRESENTS A HORIZONTAL SLICE OF A 3D MODEL.
4. SOME INTERPRETATION WAS DONE UTILIZING PROFESSIONAL JUDGMENT AND CONTOUR LINES WERE MODIFIED BY HAND.
5. ANALYTICAL REPORTING LIMITS AND SAMPLE DEPTHS ARE SHOWN FOR SAMPLES WITH NON-DETECT RESULTS (e.g. $<2.3 \text{ mg/m}^3$ at 8.5 FT).
6. NON-DETECT VALUES ARE MODELED AT 1/2 THE REPORTING LIMIT.



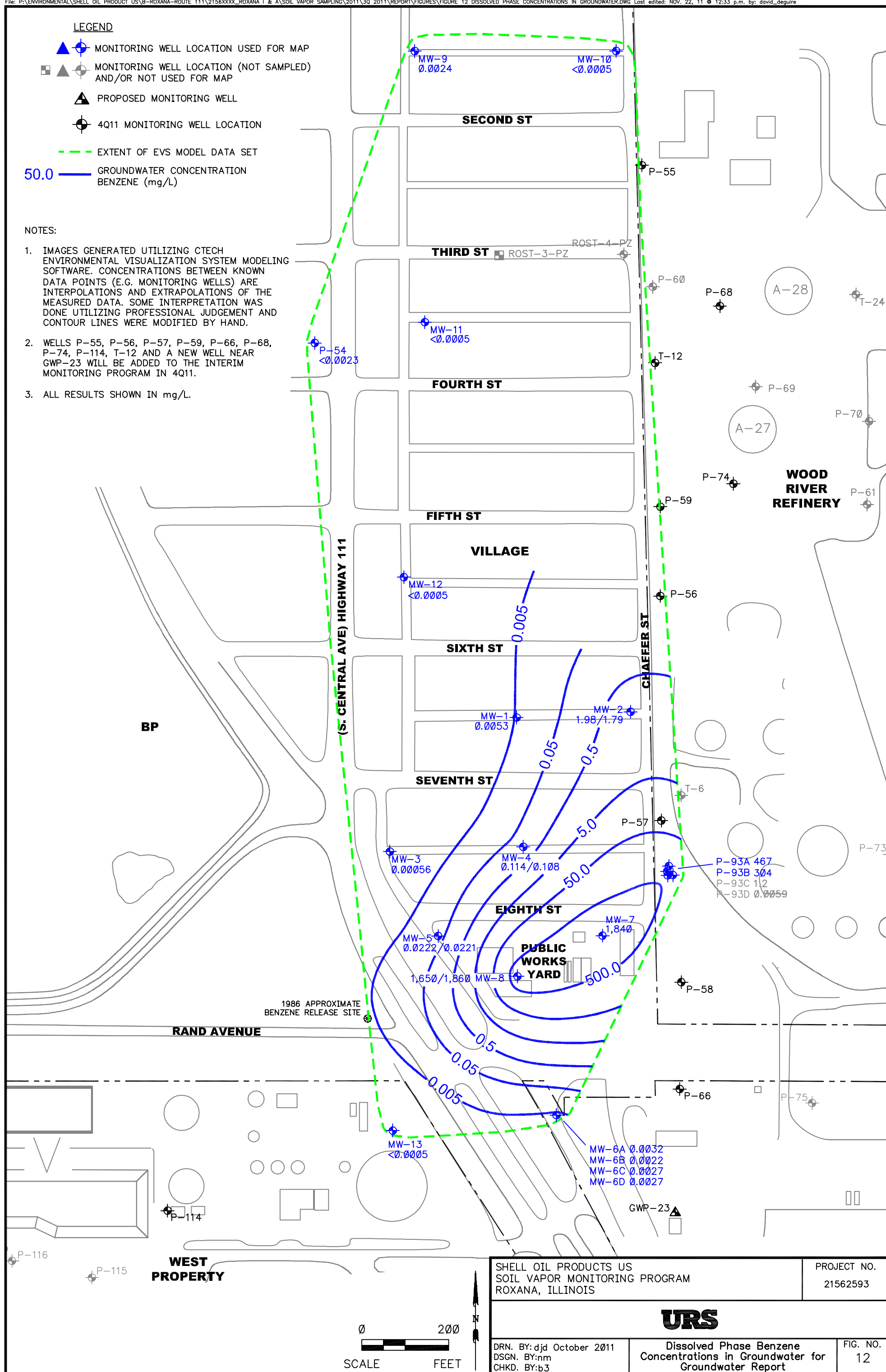
SHELL OIL PRODUCTS US
SOIL VAPOR MONITORING PROGRAM
ROXANA, ILLINOIS

PROJECT NO.
21562593

DRN. BY:djd October 2011
DSGN. BY:nm
CHKD. BY:b3

Benzene Soil Vapor Distribution— 25 ft bgs

FIG. NO.
11





Soil Vapor Monitoring - Canister Sampling Data Quarter: 3Q11

Date	Color	Port ID	Type	Required Purge (mL)	15 mL Hand Pumps	# of Hand Pumps Achieved	Vacuum Held (in. Hg)	Water	Canister ID	Flow Controller ID	Vacuum Leak Check OK	Helium Leak Check Before OK	Helium Leak Check After OK	Initial Vacuum (in Hg)	Time Start	Final Vacuum (in Hg)	Time Finish
8/1/2011	y	VMP-1-5	P	83.175	6	6		☐	60	40796	☒	Yes	Yes	29	09:03	6	09:33
8/1/2011	b	VMP-1-8.5	P	108.48	8	8		☐	40878	FC0239	☒	Yes	Yes	29.5	10:15	8	10:45
8/1/2011	b	VMP-1-8.5	D	108.48	8	8		☐	2674	FC00486	☒	Yes	Yes	29.5	10:15	7.5	10:45
8/1/2011	g	VMP-1-23.5	P	216.93	15	15		☐	2149	FC00301	☒	Yes	Yes	29	11:27	4.5	11:58
8/1/2011	r	VMP-1-38.5	P	325.38	22			☒			☐	No	No				
8/2/2011	y	VMP-2-5	P	83.175	6	6		☐	3505	FC00090	☒	Yes	Yes	30	08:53	8	09:26
8/2/2011	b	VMP-2-8.5	P	108.48	8	8		☐	1011	FC00402	☒	Yes	Yes	30	10:06	0	10:38
8/2/2011	g	VMP-2-22	P	206.085	14	14		☐	3263	6499	☒	Yes	Yes	0	11:32	7.5	12:02
	r	VMP-2-42		350.685	24			☐			☐	No	No				
8/2/2011	y	VMP-3-5	P	83.175	6	6		☐	7811	FC00876	☒	Yes	Yes	30	14:59	9	15:31
8/2/2011	w	VMP-3-10	P	119.33	8	8		☐	3519	FC00894	☒	Yes	Yes	30	11:15	4.5	11:43
8/6/2011	b	VMP-3-22	P	206.09	14	14		☐	1355	FC00214	☒	Yes	Yes	30	14:57	10	15:23
8/2/2011	g	VMP-3-31.5	P	274.77	19	19		☐	3851	6447	☒	No	No	30	16:39	7	17:03
8/2/2011	g	VMP-3-31.5	D	274.77	19	19		☐	3868	FC00933	☒	No	No	30	16:39	7	17:03
8/2/2011	r	VMP-3-39	P	328.995	22	N/A		☐	2554	FC00726	☒	No	No	30	10:06	10	10:36
8/3/2011	y	VMP-4-5	P	83.175	6	6		☐	3406	40795	☒	Yes	Yes	30	14:36	8.5	15:06
8/3/2011	b	VMP-4-12	P	133.785	9	9		☐	3893	FC00354	☐	Yes	Yes	30	15:38	8	16:11
8/3/2011	b	VMP-4-12	D	133.785	9	9		☐	1733	FC00639	☐	Yes	Yes	29.5	15:38	7	16:11
8/6/2011	g	VMP-4-23.5	P	216.93	15	15		☐	1009	FC00615	☒	No	No	30	12:26	8	12:50

Soil Vapor Monitoring - Canister Sampling Data Quarter: 3Q11

Date	Color	Port ID	Type	Required Purge (mL)	15 mL Hand Pumps	# of Hand Pumps Achieved	Vacuum Held (in. Hg)	Water	Canister ID	Flow Controller ID	Vacuum Leak Check OK	Helium Leak Check Before OK	Helium Leak Check After OK	Initial Vacuum (in Hg)	Time Start	Final Vacuum (in Hg)	Time Finish
8/6/2011	r	VMP-4-39	P	328.995	22	NA	18	☐			☐	No	No				
8/5/2011	y	VMP-5-5	P	83.175	6	6		☐	2681	FC00268	☒	Yes	Yes	29	09:56	9	10:20
8/5/2011	b	VMP-5-12.5	P	137.4	10	10		☐	3525	5917	☒	Yes	Yes	30	10:45	8.5	11:17
8/5/2011	g	VMP-5-31	P	271.155	19	19		☐	3418	FC00199	☒	Yes	No	30	09:12	8.5	09:38
8/5/2011	r	VMP-5-40	P	336.225	23	NA	17	☒			☐	No	No				
8/4/2011	y	VMP-6-5	P	83.175	6	6		☐	2092	FC00352	☒	Yes	No	29	08:30	9	09:03
8/4/2011	b	VMP-6-10	P	119.325	8	8		☐	2566	40778	☒	Yes	Yes	29	14:55	7	15:33
8/4/2011	g	VMP-6-31.5	P	274.77	19	19		☐	3508	FC00731	☒	Yes	Yes	30	16:20	9.5	16:49
8/4/2011	r	VMP-6-39	P	328.995	22			☒			☐	No	No				
8/2/2011	y	VMP-7-5	P	83.175	6	6		☐	2061	FC00446	☒	Yes	Yes	30	15:46	9	16:17
8/2/2011	b	VMP-7-13.5	P	144.63	10	10		☐	3142	FC00357	☒	Yes	Yes	28	08:56	9.5	09:26
8/2/2011	g	VMP-7-29.5	P	260.31	18	18		☐	0306	FC00817	☒	Yes	Yes	29	10:12	9.5	10:42
8/2/2011	r	VMP-7-38	P	321.765	22	NA	19	☐			☐	No	No				
7/27/2011	y	VMP-8-5	P	83.175	6	6		☐	5706	FC00348	☒	Yes	Yes	29.5	14:05	9.5	14:34
7/27/2011	b	VMP-8-9.5	P	115.71	8	8		☐	3503	6669	☒	Yes	Yes	29.5	15:17	6.5	
7/27/2011	g	VMP-8-23.5	P	216.93	15	15		☐	20044	6667	☒	Yes	Yes	29	08:37	7	09:14
7/27/2011	r	VMP-8-35.5	P	303.69	21	NA	15	☐	N/A		☐	No	No				
8/2/2011	y	VMP-9-5	P	83.175	6	6		☐	2197	6754	☒	Yes	Yes	29.5	10:04	9.5	10:36
8/2/2011	b	VMP-9-11.5	P	130.17	9	9		☐	40894	FC00509	☒	Yes	Yes	29.5	11:18	8.5	11:50

Soil Vapor Monitoring - Canister Sampling Data Quarter: 3Q11

Date	Color	Port ID	Type	Required Purge (mL)	15 mL Hand Pumps	# of Hand Pumps Achieved	Vacuum Held (in. Hg)	Water	Canister ID	Flow Controller ID	Vacuum Leak Check OK	Helium Leak Check Before OK	Helium Leak Check After OK	Initial Vacuum (in Hg)	Time Start	Final Vacuum (in Hg)	Time Finish
8/2/2011	g	VMP-9-25.5	P	231.39	16	16		☐	1471	FC00154	☒	Yes	Yes	29.5	12:48	8.5	13:19
8/2/2011	r	VMP-9-38.5	P	325.38	22			☒			☐	No	No				
7/29/2011	y	VMP-10-5	P	83.175	6	6		☐	3669	FC00131	☒	Yes	Yes	29	08:43	6.5	09:13
7/29/2011	b	VMP-10-10	P	119.325	8	8		☐	842	FC00016	☒	Yes	Yes	29	09:53	7	10:24
7/29/2011	g	VMP-10-20	P	191.625	13	13		☐	3998	FC00670	☒	Yes	Yes	29	11:24	6	11:54
	r	VMP-10-30		263.925	18			☐			☐	No	No				
8/7/2011	y	VMP-11-5	P	83.175	6	6		☐	5173	FC00230	☒	Yes	Yes	30	10:03	9.5	10:35
8/7/2011	b	VMP-11-8	P	104.865	7	7		☐	3716	FC00262	☒	Yes	Yes	30	11:37	9.5	12:06
8/7/2011	g	VMP-11-29	P	256.695	18	18		☐	1350	FC00739	☒	No	No	30	12:50	9	13:22
8/7/2011	r	VMP-11-38	P	321.765	22	NA	16	☐			☐	No	No				
8/4/2011	y	VMP-12-5	P	83.175	6	6		☐	2376	FC00964	☒	No	No	29	10:20	8	10:49
8/4/2011	b	VMP-12-11.5	P	130.17	9	9		☐	3747	FC00661	☒	No	No	28.5	11:20	7.5	12:09
8/4/2011	g	VMP-12-25	P	227.775	16	16		☐	3999	FC00492	☒	No	No	29	13:05	6.5	13:36
8/4/2011	r	VMP-12-39	P	328.995	22			☒			☐	No	No				
8/9/2011	y	VMP-13-5	P	83.175	6	6		☐	3704	FC00285	☒	Yes	Yes	30	15:31	10	16:00
8/9/2011	y	VMP-13-5	D	83.175	6	6		☐	1737	FC00118	☒	Yes	Yes	30	15:31	6	16:00
8/9/2011	b	VMP-13-10.5	P	122.94	9	9		☐	2166	6491	☒	Yes	Yes	30	16:29	9.5	17:01
8/9/2011	g	VMP-13-21.5	P	202.47	14	14		☐	3494	FC00082	☒	Yes	Yes	28	17:23	9.5	17:54
	r	VMP-13-29.5		260.31	18			☐			☐	No	No				

Soil Vapor Monitoring - Canister Sampling Data Quarter: 3Q11

Date	Color	Port ID	Type	Required Purge (mL)	15 mL Hand Pumps	# of Hand Pumps Achieved	Vacuum Held (in. Hg)	Water	Canister ID	Flow Controller ID	Vacuum Leak Check OK	Helium Leak Check Before OK	Helium Leak Check After OK	Initial Vacuum (in Hg)	Time Start	Final Vacuum (in Hg)	Time Finish
8/8/2011	y	VMP-14-5	P	83.175	6	6		☐	3294	FC00235	☒	Yes	Yes	28	08:40	9	09:12
8/8/2011	b	VMP-14-11.5	P	130.17	9	9		☐	3807	FC00251	☒	No	No	29	10:03	9	10:29
8/8/2011	g	VMP-14-20	P	191.625	13	13		☐	3871	FC00465	☒	No	No	30	11:19	7.5	11:49
8/8/2011	r	VMP-14-29	P	256.695	18	NA	18	☒			☐	No	No				
8/8/2011	y	VMP-15-5	P	83.175	6	6		☐	3491	FC00852	☒	Yes	Yes	27.5	15:03	9.5	15:33
8/8/2011	b	VMP-15-21.5	P	202.47	14	14		☐	1768	FC00128	☒	Yes	Yes	30	16:10	8	16:44
8/8/2011	g	VMP-15-25.5	P	231.39	16	16		☐	3007	FC00369	☒	Yes	No	30	17:28	7.5	18:05
	r	VMP-15-29		256.695	18			☐			☐	No	No				
8/5/2011	y	VMP-16-5	P	83.175	6	6		☐	2113	FC6670	☒	Yes	Yes	30	10:33	8	11:03
8/5/2011	b	VMP-16-13.5	P	144.63	10	10		☐	2630	FC00343	☒	No	No	27	11:38	7	12:08
8/5/2011	g	VMP-16-19	P	184.395	13	13		☐	2010	FC00941	☒	No	No	29	12:46	8.5	13:16
	r	VMP-16-31		271.155	19			☐			☐	No	No				
8/1/2011	y	VMP-17-5	P	83.18	6	6		☐	1644	FC00561	☒	Yes	Yes	29.5	15:54	7.5	16:26
7/28/2011	w	VMP-18-8.5	P	108.48	8	8		☐	20072	00778	☒	Yes	Yes	29	16:04	6.5	16:34
8/9/2011	y	VMP-19-5	P	83.18	6	6		☐	2391	FC00585	☒	Yes	Yes	30	13:06	9	13:44
8/9/2011	y	VMP-19-5	D	83.18	6	6		☐	5827	FC00960	☒	Yes	Yes	30	13:06	8.5	13:44
7/25/2011	y	VMP-20-5	P	83.175	6	6		☐	874	FC00560	☒	Yes	Yes	29.5	09:53	8	10:20
7/25/2011	b	VMP-20-10	P	119.33	8	8		☐	611	FC00556	☒	Yes	Yes	29	11:04	5.5	11:33
7/26/2011	g	VMP-20-25	P	227.775	16	16		☐	9532	40673	☒	Yes	Yes	29.5	16:50	6.5	17:15

Soil Vapor Monitoring - Canister Sampling Data Quarter: 3Q11

Date	Color	Port ID	Type	Required Purge (mL)	15 mL Hand Pumps	# of Hand Pumps Achieved	Vacuum Held (in. Hg)	Water	Canister ID	Flow Controller ID	Vacuum Leak Check OK	Helium Leak Check Before OK	Helium Leak Check After OK	Initial Vacuum (in Hg)	Time Start	Final Vacuum (in Hg)	Time Finish
7/26/2011	r	VMP-20-39.5	P	332.61	23	N/A		☒	N/A		☐	No	No				
7/25/2011	y	VMP-21-5	P	83.175	6	6		☐	814	FC00772	☒	Yes	Yes	29	14:04	7	14:33
7/25/2011	b	VMP-21-10	P	119.33	8	8		☐	1114	FC00529	☒	Yes	Yes	28	15:14	4.5	15:44
7/26/2011	g	VMP-21-25	P	227.775	16	16		☐	3223	FC00578	☒	Yes	Yes	29.5	09:05	5.5	09:34
7/26/2011	r	VMP-21-33	P	285.615	20	NA	15	☐			☒	No	No				
7/26/2011	y	VMP-22-5	P	83.175	6	6		☐	3951	FC00623	☒	Yes	Yes	29	12:32	8	13:00
7/26/2011	b	VMP-22-10	P	119.33	8	9		☐	3098	6510	☒	Yes	Yes	29.5	13:41	9	14:07
7/26/2011	b	VMP-22-10	D	119.33	8	9		☐	40873	FC00136	☒	Yes	Yes	29.5	13:41	12	14:07
7/26/2011	g	VMP-22-18	P	177.165	12	12		☐	906	FC00287	☒	Yes	Yes	29.5	14:46	6.5	15:16
7/26/2011	r	VMP-22-38	P	321.765	22	N/A		☒	N/A		☐	No	No				
7/27/2011	y	VMP-23-5	P	83.175	6	6		☐	822	FC00148	☒	Yes	Yes	28	09:11	6	09:43
7/27/2011	b	VMP-23-10	P	119.33	8	8		☐	2585	40829	☒	Yes	Yes	29	10:29	4.5	10:54
7/27/2011	g	VMP-23-25	P	227.775	16	16		☐	747	FC00729	☒	Yes	Yes	29.5	11:34	7.5	12:00
7/27/2011	r	VMP-23-40	P	336.225	23	N/A		☒	N/A		☐	No	No				
7/28/2011	y	VMP-24-5	P	83.175	6	6		☐	2057	FC00581	☒	Yes	Yes	30	09:28	9	10:01
7/28/2011	b	VMP-24-10	P	119.33	8	8		☐	1156	FC00165	☒	Yes	Yes	28	10:43	7	11:15
7/28/2011	g	VMP-24-22	P	206.085	14	15		☐	20098	FC00164	☒	Yes	Yes	29	11:59	5	12:36
7/28/2011	g	VMP-24-22	D	206.085	14	15		☐	2378	FC00145	☒	Yes	Yes	29.5	11:59	7.5	12:36
7/28/2011	r	VMP-24-34	P	292.845	20	20		☐			☐	Yes	Yes		13:14		

Soil Vapor Monitoring - Canister Sampling Data Quarter: 3Q11

Date	Color	Port ID	Type	Required Purge (mL)	15 mL Hand Pumps	# of Hand Pumps Achieved	Vacuum Held (in. Hg)	Water	Canister ID	Flow Controller ID	Vacuum Leak Check OK	Helium Leak Check Before OK	Helium Leak Check After OK	Initial Vacuum (in Hg)	Time Start	Final Vacuum (in Hg)	Time Finish
8/9/2011	y	VMP-25-5	P	83.175	6	6		☐	3790	FC00590	☒	Yes	Yes	27	09:10	5	09:33
8/9/2011	y	VMP-25-5	D	83.175	6	6		☐	3235	40787	☒	Yes	Yes	29	09:10	11	09:33
8/9/2011	b	VMP-25-9.5	P	119.33	8			☒			☐	No	No				
8/9/2011	g	VMP-25-21	P	198.855	14	14		☐	3048	40838	☒	No	No	29	10:25	7	10:48
8/9/2011	r	VMP-25-31	P	271.155	19	NA	18	☒			☐	No	No				

Soil Vapor Monitoring - Tedlar Bag Sampling Data Quarter: 3Q11

Reading Location				Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2											Tedlar Bag 3
Instrument				Dielectric		Landtec	Dielectric		FID	PID	MultiRAE				Landtec				Dielectric
Date	Color	Port ID	Type	Helium in Shroud Before (%)	Helium Before (%)	CH4 (%)	Helium in Shroud After (%)	Helium After (%)	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After (Helium, %)
8/1/2011	y	VMP-1-5	P	53.9	0.0		59.5	0.0	131.5	8.8	0.1	2.0	0.0	9.2	0.1	0.0	8.9	12.0	N/A
8/1/2011	b	VMP-1-8.5	P	53.2	0.0		59.8	0.0	51600	114.9	7.0	1.0	90.0	21.6	29.7	>>>	13.1	0.4	N/A
8/1/2011	b	VMP-1-8.5	D	53.2	0.0		59.8	0.0	51600	114.9	7.0	1.0	90.0	21.6	29.7	>>>	13.1	0.4	N/A
8/1/2011	g	VMP-1-23.5	P	54.7	2.4	>>>	59.5	2.7	442000	196.6	35.0	6.0	100.0	21.7	>>>	>>>	8.7	0.3	N/A
8/1/2011	r	VMP-1-38.5	P																
8/2/2011	y	VMP-2-5	P	51.0	0.0		62.4	0.0	70700	397.4	57.0	2.0	17.0	0.0	99.9	>>>	11.7	0.4	N/A
8/2/2011	b	VMP-2-8.5	P	53.1	1	>>>	53.8	0.8	148000	279.9	22.0	2.0	OVR	0.0	>>>	>>>	10.5	1.3	N/A
8/2/2011	g	VMP-2-22	P	55.6	1	>>>	51.8	1.4	216000	211.4	59	2.0	OVR	0.0	>>>	>>>	9.9	0.7	N/A
	r	VMP-2-42																	
8/2/2011	y	VMP-3-5	P	55.0	0.0		52.6	0.0	36.52	8.9	0.0	1.0	0.0	22.3	0.1	0.0	0.3	22.09	N/A
8/2/2011	w	VMP-3-10	P	62.4	.0		42.6	0.0	16900	164.2	7.0	1.0	14	0.0	3.5	73.0	15.8	0.8	N/A
8/6/2011	b	VMP-3-22	P	72.2	0	N/A	59.9	.42	10400	39.7	6	0	19	13	2.2	42	2.6	13	N/A
8/2/2011	g	VMP-3-31.5	P	70.5	14.0	>>>	26.7	15.9	OVR	239.0	1000	8.0	OVR	0.0	>>>	>>>	4.3	0.7	N/A
8/2/2011	g	VMP-3-31.5	D	70.5	14.0	>>>	26.7	15.9	OVR	239.0	1000	8.0	OVR	0.0	>>>	>>>	4.3	0.7	N/A
8/2/2011	r	VMP-3-39	P	97.3	86.2	2.4	92.1	55.2	0.0	2.2	2.0	0.0	3	0.0	0.7	25	0.0	1.8	N/A
8/3/2011	y	VMP-4-5	P	52.3	0		52.3	0.0	98.5	39.5	2	0.0	0.0	4	0.0	0.0	11	8.07	N/A
8/3/2011	b	VMP-4-12	P	71.2	4.1	>>>	48.9	2.2	113000	198	25	10	OVR	0	91.2	OVR	14.7	1.6	N/A
8/3/2011	b	VMP-4-12	D	71.2	4.1	>>>	48.9	2.2	113000	198	25	10	OVR	0	91.2	OVR	14.7	1.6	N/A

Soil Vapor Monitoring - Tedlar Bag Sampling Data

Quarter: 3Q11

Reading Location				Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2											Tedlar Bag 3
Instrument				Dielectric		Landtec	Dielectric		FID	PID	MultiRAE				Landtec				Dielectric
Date	Color	Port ID	Type	Helium in Shroud Before (%)	Helium Before (%)	CH4 (%)	Helium in Shroud After (%)	Helium After (%)	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After (Helium, %)
8/6/2011	g	VMP-4-23.5	P	56	16	>>>	61.6	16.2	OVR	238	OVR	11	100	0.1	>>>	>>>	5.1	0.4	N/A
8/6/2011	r	VMP-4-39	P																
8/5/2011	y	VMP-5-5	P	51.1	0	N/A	50	0.02	2760	74.8	7.0	0.0	6	1.2	0.8	17	15.3	1	N/A
8/5/2011	b	VMP-5-12.5	P	51.5	0	N/A	64.5	1.62	315000	128.5	400	4	100	0.1	>>>	>>>	13.1	0.1	N/A
8/5/2011	g	VMP-5-31	P	84	3.8	N/A	70	9	OVR	215.8	OVR	10	100	0.1	>>>	>>>	8.8	0.2	N/A
8/5/2011	r	VMP-5-40	P																
8/4/2011	y	VMP-6-5	P	68.1	0	N/A	57.4	19.4	20.56	0.7	1	0	0	13.4	0.0	0	3.9	13.8	N/A
8/4/2011	b	VMP-6-10	P	50.1	0	N/A	53.8	0.28	34650	325.8	283	5	56	0.2	47.5	>>>	17.2	0.3	N/A
8/4/2011	g	VMP-6-31.5	P	55.5	1.49	N/A	54.1	1.88	OVR	327.3	1387	33	100	0.3	>>>	>>>	14.5	0.3	N/A
8/4/2011	r	VMP-6-39	P	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8/2/2011	y	VMP-7-5	P	59.8	0.2	N/A	58.3	0.5	34750	198	269	0	23	5	16.6	>>>	14.8	0.4	N/A
8/2/2011	b	VMP-7-13.5	P	56.0	0	N/A	68.5	0.3	31200	234	362	0	40	9.5	10.8	>>>	16.7	0.1	N/A
8/2/2011	g	VMP-7-29.5	P	50	0.49	N/A	54	.58	79000	307	66	1	57	4.9	68.2	>>>	14.5	0.2	N/A
8/2/2011	r	VMP-7-38	P	N/A	N/A														
7/27/2011	y	VMP-8-5	P	61.7	0.0	N/A	50.8	0	0.0	5.1	0.0	0.0	0.0	9.4	0.0	0.0	8.9	12.9	N/A
7/27/2011	b	VMP-8-9.5	P	53.5	0.0	N/A	53.8	0.0	0.0	4.1	5.0	0.0	0.0	11.0	0.0	0.0	6.1	14.4	N/A
7/27/2011	g	VMP-8-23.5	P	55.7	0	N/A	56.3	0		3.1	2	0	0	8.2	0.1	2	8.9	11.3	N/A
7/27/2011	r	VMP-8-35.5	P	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Soil Vapor Monitoring - Tedlar Bag Sampling Data

Quarter: 3Q11

Reading Location				Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2											Tedlar Bag 3
Instrument				Dielectric		Landtec	Dielectric		FID	PID	MultiRAE				Landtec				Dielectric
Date	Color	Port ID	Type	Helium in Shroud Before (%)	Helium Before (%)	CH4 (%)	Helium in Shroud After (%)	Helium After (%)	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After (Helium, %)
8/2/2011	y	VMP-9-5	P	52.5	0	N/A	55.6	0.4	7550	92.3	4	0.0	13	0.5	0.9	19	14.9	0.5	N/A
8/2/2011	b	VMP-9-11.5	P	58.6	0.8	5.6	57.2	0.9	37600	68.9	41.0	0.0	0.0	0.2	6	>>>	13.4	0.3	N/A
8/2/2011	g	VMP-9-25.5	P	56.1	0.3	N/A	58.1	0.5	46300	87.2	76	13.0	74.0	0.3	11.7	>>>	12.8	0.4	N/A
8/2/2011	r	VMP-9-38.5	P	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/29/2011	y	VMP-10-5	P	57.7	0.0	N/A	48.4	0.0	0.0	1.0	1.0	0.0	0.0	16.0	0.0	0.0	4.4	17.4	N/A
7/29/2011	b	VMP-10-10	P	52.8	0.0	N/A	49.8	0.2	0.0	2.8	1.0	0.0	0.0	12.3	0.0	0.0	6.0	15.3	N/A
7/29/2011	g	VMP-10-20	P	62.7	0.0	N/A	45.9	0.4	0.0	3.3	2.0	0.0	0.0	9.7	0.0	0.0	7.3	13.2	N/A
	r	VMP-10-30																	
8/7/2011	y	VMP-11-5	P	68.2	0	N/A	47.5	0	0.0	4.3	0	0	0	13.6	0	0	7.5	13.1	N/A
8/7/2011	b	VMP-11-8	P	53	0	N/A	35.1	0	0.0	2.3	4	0	0	8.0	0.1	1	9.9	7.9	N/A
8/7/2011	g	VMP-11-29	P	57.9	32.7	0	41.9	30.1	0.0	3.2	7	0	0	7.3	0.1	2	3.7	8.5	N/A
8/7/2011	r	VMP-11-38	P																
8/4/2011	y	VMP-12-5	P	57.4	8.2	OVR	38.1	5.1	OVR	89.8	49	8.0	>>>	0.0	>>>	>>>	12.3	1.0	N/A
8/4/2011	b	VMP-12-11.5	P	51.2	5.2	OVR	27.7	8.0	OVR	193.8	62	19	OVR	0.0	>>>	>>>	11.5	1.0	N/A
8/4/2011	g	VMP-12-25	P	92.6	11.6	OVR	31.3	8.1	OVR	244.6	4	11	OVR	0.0	OVR	OVR	11.8	0.9	N/A
8/4/2011	r	VMP-12-39	P																
8/9/2011	y	VMP-13-5	P	57.9	0	N/A	44	0		7	2	0	0	4.0	0	1	11.2	4.7	N/A
8/9/2011	y	VMP-13-5	D	57.9	0	N/A	44	0		7	2	0	0	4.0	0	1	11.2	4.7	N/A

Soil Vapor Monitoring - Tedlar Bag Sampling Data Quarter: 3Q11

Reading Location				Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2											Tedlar Bag 3
Instrument				Dielectric		Landtec	Dielectric		FID	PID	MultiRAE				Landtec				Dielectric
Date	Color	Port ID	Type	Helium in Shroud Before (%)	Helium Before (%)	CH4 (%)	Helium in Shroud After (%)	Helium After (%)	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After (Helium, %)
8/9/2011	b	VMP-13-10.5	P	58.5	0	N/A	49.9	0		46	31	0	11	0.5	0.7	15	12.4	1.3	N/A
8/9/2011	g	VMP-13-21.5	P	54.2	0	N/A	48	0		202.3	11	0	40	0.3	2.4	48	11.7	0.9	N/A
	r	VMP-13-29.5																	
8/8/2011	y	VMP-14-5	P	59	1	N/A	61.5	1	49000	38	17	0	5	0.3	6.8	>>>	18.2	0.1	N/A
8/8/2011	b	VMP-14-11.5	P	57	6.6	>>>	59	6.7	253000	104	163	36	100	0.3	>>>	>>>	16.3	0.3	N/A
8/8/2011	g	VMP-14-20	P	58.2	8.2	N/A	53.2	6.6	810000	351	402	3	100	0.3	>>>	>>>	15.4	0.2	
8/8/2011	r	VMP-14-29	P																
8/8/2011	y	VMP-15-5	P	64	0	N/A	63.9	0	0	2.4	3	0	0	1.4	0	0	18.1	1.2	N/A
8/8/2011	b	VMP-15-21.5	P	52.5	5	N/A	50.8	4.8	280000	43.5	24	94	100	0.2	31	>>>	17.4	0.2	N/A
8/8/2011	g	VMP-15-25.5	P	57.3	4.3	N/A	57.5	8.6	67.2	11.9	3	0	0	5	0	0	13.9	4.8	N/A
	r	VMP-15-29																	
8/5/2011	y	VMP-16-5	P	52.3	2.3	3	57.3	4.9	OVR	220.6	6.0	0.0	26.0	0.0	20.7	>>>	12.7	1.9	N/A
8/5/2011	b	VMP-16-13.5	P	67.8	9.6	1.0	61.5	6.6	70800	32.1	33	1	25	0.0	32.4	OVR	13.9	2	N/A
8/5/2011	g	VMP-16-19	P	57.2	7.7	3.6	41.6	13.3	1800	171.2	6.0	0.0	8.0	0.0	0.3	6.0	4.7	15.7	N/A
	r	VMP-16-31																	
8/1/2011	y	VMP-17-5	P	52.8	0.0	N/A	31.8	0.0	0.0	5.0	3.0	0.0	0.0	10.2	0.0	0.0	6.6	13.5	N/A
7/28/2011	w	VMP-18-8.5	P	54.2	0.0	N/A	70.7	0.0	0.0	5.6	0.0	0.0	0.0	8.0	0.0	0.0	8.3	12.5	
8/9/2011	y	VMP-19-5	P	57.1	0	N/A	59.3	.32		5	23	0	0	10.8	0	1	9.8	10.3	N/A

Soil Vapor Monitoring - Tedlar Bag Sampling Data

Quarter: 3Q11

Reading Location				Shroud	Tedlar Bag 1			Shroud	Tedlar Bag 2										Tedlar Bag 3
Instrument				Dielectric		Landtec	Dielectric		FID	PID	MultiRAE				Landtec				Dielectric
Date	Color	Port ID	Type	Helium in Shroud Before (%)	Helium Before (%)	CH4 (%)	Helium in Shroud After (%)	Helium After (%)	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After (Helium, %)
8/9/2011	y	VMP-19-5	D	57.1	0	N/A	59.3	.32		5	23	0	0	10.8	0	1	9.8	10.3	N/A
7/25/2011	y	VMP-20-5	P	52.4	0.0	N/A	51.0	0.0	0	0.4	0.0	0.0	0.0	3.5	0.0	0.0	14.9	6.9	N/A
7/25/2011	b	VMP-20-10	P	56.2	0.0	N/A	51.6	0.0	0	2.6	0.0	0.0	0.0	2.6	0.1	0.0	8.2	7.0	N/A
7/26/2011	g	VMP-20-25	P	51.8	0.1	N/A	39.8	0	4200	113.9	4.0	0.0	7.0	0.0	1.0	20.0	8.6	1.0	N/A
7/26/2011	r	VMP-20-39.5	P	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/25/2011	y	VMP-21-5	P	55.4	0.0	N/A	49.7	0.0	0	3.7	0	0	0	2.	0.0	0	14.5	7.1	N/A
7/25/2011	b	VMP-21-10	P	55.0	0.0	N/A	49.2	0.3	0	3.7	0.0	0.0	0.0	2.6	0.0	0.0	7.5	8.1	N/A
7/26/2011	g	VMP-21-25	P	61.6	0.0	N/A	59.2	0.4	102000	398.5	138	3	73	0.0	>>>	>>>	6.2	0.1	N/A
7/26/2011	r	VMP-21-33	P	59.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/26/2011	y	VMP-22-5	P	55.5	0.0	N/A	65.0	0.0	0.0	3.1	7	0	2	8.1	0	0	7.6	11.9	N/A
7/26/2011	b	VMP-22-10	P	54.5	0.0	N/A	39.2	0.0	2.90	2.7	8	0	0	0.0	0.0	0	10.5	4.5	N/A
7/26/2011	b	VMP-22-10	D	54.5	0.0	N/A	39.2	0.0	2.90	2.7	8	0	0	0.0	0.0	0	10.5	4.5	N/A
7/26/2011	g	VMP-22-18	P	56.2	0.0	N/A	55.7	0.0	15800	205.8	27	3	24	0.0	11.5	>>>	10.5	0.8	N/A
7/26/2011	r	VMP-22-38	P	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7/27/2011	y	VMP-23-5	P	62.8	0.0	N/A	53.7	0.0	0.0	4.9	2	0	0	5.3	0.0	0	8.8	9.2	N/A
7/27/2011	b	VMP-23-10	P	66.8	0.0	N/A	49.8	0.0	0.0	2.9	21	0	0	0.0	0.0	0	9.5	6.3	N/A
7/27/2011	g	VMP-23-25	P	58.7	0.0	N/A	45.2	0.0	6.6	4.4	22	0	0	0.0	0.0	0	11.9	1.3	N/A
7/27/2011	r	VMP-23-40	P	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Soil Vapor Monitoring - Tedlar Bag Sampling Data Quarter: 3Q11

Reading Location				Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2											Tedlar Bag 3
Instrument				Dielectric		Landtec	Dielectric		FID	PID	MultiRAE				Landtec				Dielectric
Date	Color	Port ID	Type	Helium in Shroud Before (%)	Helium Before (%)	CH4 (%)	Helium in Shroud After (%)	Helium After (%)	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After (Helium, %)
7/28/2011	y	VMP-24-5	P	73.3	0.0	N/A	73.3	0.0	0.0	4.2	0.0	0.0	0.0	13.5	0.0	0.0	7.7	15.6	N/A
7/28/2011	b	VMP-24-10	P	63.1	0.0	N/A	50.7	0.0	0.0	5.2	0.0	0.0	0.0	8.6	0.0	0.0	0.1	22.6	N/A
7/28/2011	g	VMP-24-22	P	52.0	0.0	N/A	42.6	0.0	0.0	4.3	0.0	0.0	0.0	8.4	0.0	0.0	9.7	12.4	N/A
7/28/2011	g	VMP-24-22	D	52.0	0.0	N/A	42.6	0.0	0.0	4.3	0.0	0.0	0.0	8.4	0.0	0.0	9.7	12.4	N/A
7/28/2011	r	VMP-24-34	P	52.6	0.0	N/A	38.1	0.0	0.0	5.8	2.0	0.0	0.0	8.1	0.0	0.0	9.7	12.5	
8/9/2011	y	VMP-25-5	P	66	0	0	45.2	0	27900	2.4	4	0	0	16.8	0	0.0	16	2.8	N/A
8/9/2011	y	VMP-25-5	D	66	0	0	45.2	0	27900	2.4	4	0	0	16.8	0	0.0	16	2.8	N/A
8/9/2011	b	VMP-25-9.5	P																
8/9/2011	g	VMP-25-21	P	58.3	11.4	OVR	56.9	10.2	OVR	175.9	605	68	OVR	0	OVR	OVR	14.9	1	N/A
8/9/2011	r	VMP-25-31	P																

TABLE A-1
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location		Shroud		Tedlar Bag 1		Shroud		Tedlar Bag 2								Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Port ID	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-1-5	11/02/09	63.0%	0.95%		62.0%	2.2%		98.2	4	0	35	11.1			OVR		N/A
	08/25/10	51.9%	0.0%		67.0%	2.1%	0.00	0.0	2	0	0	14.2	0.2	4	1.2	19.6	N/A
	11/17/10	52.8%	2.3%		58.0%	5.7%	0.24	0.6	5	0	0	19.4	0.1	2	1.3	20.1	N/A
	02/04/11	51.2%	0.0%	N/A	60.8%	2.7%	275	66.0	0	0	11	2.6	2.2	44	9.1	2.2	N/A
	04/12/11	62.0%	0.0%	N/A	74.5%	2.5%	0	1.0	0	0	0	17.9	0.0	0	1.9	18.1	N/A
	08/01/11	53.9%	0.0%	N/A	59.5%	0.0%	131.5	8.8	0.1	2.0	0.0	9.2	0.1	0.0	8.9	12.0	N/A
VMP-1-8.5	11/02/09	68.0%	0.0%		64.0%	0.83%		87.5	4	0	25	1.2			OVR		N/A
	08/25/10	50.1%	3.3%		50.2%	4.3%	3,561	2.6	0	0	2	0.0	0.3	6	7.0	9.0	N/A
	11/17/10	68.9%	3.2%		77.4%	1.3%	8.56	2.5	0	0	0	7.9	0.1	2	7.1	8.4	N/A
	02/04/11	57.3%	0.0%	N/A	54.5%	0.0%	720	101.0	23	0	20	0.6	7.0	>>>	11.1	0.5	N/A
	04/12/11	56.0%	0.0%	N/A	87.0%	0.0%	0.0	1.6	0	0	0	7.8	0.0	0	5.3	8.3	N/A
	08/01/11	53.2%	0.0%	N/A	59.8%	0.0%	51,600	114.9	7.0	1.0	90.0	21.6	29.7	>>>	13.1	0.4	N/A
VMP-1-23.5	11/02/09	68.0%	0.0%		64.0%	0.83%		83.2	5	0	100	8.2			OVR		N/A
	08/30/10	50.8%	2.3%		47.3%	3.1%	1.99 × 10 ⁶	0.0	190	7	OVR	0.0	0.0	>>>	7.8	0.2	N/A
	11/18/10	59.2%	0.08%		65.4%	4.3%	38.72	0.5	0	0	0	16.4	0.2	4	2.9	17.1	N/A
	02/04/11	50.2%	0.0%	N/A	40.2%	0.0%	1,260,000	69.5	45	3	OVR	0.5	>>>	>>>	8.6	0.4	N/A
	04/12/11	52.0%	0.0%	N/A	62.0%	0.0%	42,500	78.3	8	1	34	0.5	22.1	>>>	10.0	1.0	N/A
	08/01/11	54.7%	2.4%	>>>	59.5%	2.7%	442,000	196.6	35.0	6.0	100.0	21.7	>>>	>>>	8.7	0.3	N/A
VMP-1-38.5	11/02/09	58.0%	0.8575%		48.0%	0.89%		63.0	4	0	31	1.3			OVR		N/A
	08/30/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/17/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/04/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/12/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/01/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-2-5	11/02/09	67.0%	0.0%		58.0%	3.2%		770	1	0	0	10.0			OVR		N/A
	08/31/10	50.3%	0.0%		48.8%	0.4525%	42,780	98.9	24	1	35	0.0	63.9	>>>	11.4	0.2	N/A
	11/16/10	53.4%	0.0575%		57.6%	0.0925%	7,729	231	10	0	OVR	0.3	>>>	>>>	12.1	1.0	N/A
	02/04/11	53.6%	0.0%	7.6%	56.8%	0.0%	1,862	155	1	0	48	0.7	12.6	>>>	12.8	0.4	N/A
	04/13/11	52.3%	0.0%	N/A	54.0%	0.06%	352.6	0.4	0	0	0	15.2	0.0	0	4.0	16.3	N/A
	08/02/11	51.0%	0.0%	N/A	62.4%	0.0%	70,700	397.4	57.0	2.0	17.0	0.0	99.9	>>>	11.7	0.4	N/A
VMP-2-8.5	11/03/09	69.0%	0.0075%		40.0%	2.9%		12.0	0	0	100	16.1			2.43		N/A
	08/31/10	59.3%	0.6675%		46.7%	1.3325%	1.44 × 10 ⁶	48.8	48	2	OVR	0.0	99.9	>>>	0.1	0.0	N/A
	11/16/10	63.2%	0.0%		55.0%	0.2175%	11,900	180.0	28	0	OVR	0.6	>>>	>>>	11.4	0.8	N/A
	02/04/11	51.0%	0.0%	17.7%	64.0%	0.0%	4,189	137.0	0	0	OVR	0.4	20.7	>>>	12.3	0.2	N/A
	04/13/11	53.2%	0.0%	N/A	61.0%	0.0%	42,750	74.1	0	0	4.00%	0.0	0.2	4	11.6	1.8	N/A
	08/02/11	53.1%	1%	>>>	53.8%	0.8%	148,000	279.9	22.0	2.0	OVR	0.0	>>>	>>>	10.5	1.3	N/A

TABLE A-1
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location		Shroud		Tedlar Bag 1		Shroud		Tedlar Bag 2								Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Port ID	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-2-22	11/03/09	60.0%	0.0%		49.0%	0.2425%		118	0	0	21	3.4			OVR		N/A
	08/31/10	59.7%	2.5%		53.9%	2.5%	1.16 × 10 ⁶	62.0	0	2	OVR	0.0	99.9	>>>	0.0	0.0	N/A
	11/16/10	52.8%	2.1%		51.0%	1.895%	13,400	176	30	1	OVR	0.5	>>>	>>>	10.8	1.1	N/A
	02/04/11	52.4%	0.0%	34.7%	64.0%	0.0%	4,189	137	0	0	OVR	0.4	39.9	>>>	12.3	0.4	N/A
	04/13/11	52.0%	0.0%	N/A	70.0%	0.51%	57,210	94	0	0	77	0.0	18.9	>>>	10.8	0.3	N/A
	08/02/11	55.6%	1%	>>>	51.8%	1.4%	216000	211.4	59	2.0	OVR	0.0	>>>	>>>	9.9	0.7	N/A
VMP-2-42	11/03/09	80.0%	2.1%		58.0%	0.955%		70.8	193	0	70	0.8			OVR		N/A
	08/31/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/16/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/04/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/13/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/02/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-3-5	11/03/09	68.0%	0.0%		50.0%	0.27%		7.6	3	0	5	6.0			OVR		N/A
	09/09/10	52.6%	2.8%		51.7%	5.6%	2.28 × 10 ⁶	137	104	4	OVR	0.0	>>>	>>>	12.3	0.0	10.5%
	11/22/10	51.9%	4.1%		62.9%	7.1%	1.9	200	321	5	OVR	3.4	>>>	>>>	9.0	3.2	8.6%
	02/09/11	67.1%	1.14%	N/A	68.5%	11.0%	3,370	134.0	35	0	19	2.3	73.4	>>>	4.9	3.0	25.0%
	04/14/11	57.8%	3.8%	>>>	56.1%	5.1%	2,850,000	180	15.7	13	18.1	0.0	>>>	>>>	9.4	1.5	N/A
	08/02/11	55.0%	0.0%	N/A	52.6%	0.0%	36.52	8.9	0.0	1.0	0.0	22.3	0.1	0.0	0.3	22.09	N/A
VMP-3-10	06/21/10	48.1%	0.0%		18.5%	0.19%		109	237	0	OVR	0.9			OVR		N/A
	09/10/10	59.1%	10.3%		58.0%	9.2%	OVR	10.9	511	15	OVR	0.0	>>>	>>>	9.7	0.0	10.1%
	09/20/10	51.1%	6.7%		44.3%	2.5%	OVR	142	0	10	OVR	0.3	>>>	>>>	9.0	1.3	8.1%
	11/22/10	57.0%	8.1%		61.3%	8.5%	78,600	160	425	3	OVR	0.6	>>>	>>>	8.6	0.9	8.1%
	02/08/11	50.3%	0.0%	N/A	52.1%	0.0%	2,700,000	159	2	0	OVR	0.5	>>>	>>>	8.8	0.1	N/A
	04/13/11	52.0%	4.7%	>>>	73.0%	6.0%	5,130,000	119.0	300	9	OVR	0.0	>>>	>>>	7.3	0.7	N/A
VMP-3-22	08/02/11	62.4%	0%	N/A	42.6%	0.0%	16,900	164.2	7.0	1.0	14	0.0	3.5	73.0	15.8	0.8	N/A
	11/04/09	58.0%	0.33%		51.0%	4.2%		101	142	0	100	0.9			OVR		N/A
	09/20/10	51.2%	4.6%		51.0%	4.6%	OVR	51.2	0	39	OVR	0.7	>>>	>>>	8.8	6.7	5.1%
	11/22/10	51.2%	9.5%		59.6%	10.1%	129,200	153	691	17	OVR	0.5	>>>	>>>	7.8	1.0	9.8%
	02/08/11	51.2%	0.0%	N/A	40.5%	0.0%	5,960,000	145	244	15	OVR	0.4	>>>	>>>	8.2	0.4	N/A
	04/15/11	71.2%	7.0%	>>>	55.0%	8.1%	OVR	153	406	20	OVR	0.0	>>>	>>>	8.2	2.7	N/A
VMP-3-31.5	08/06/11	72.2%	0%	N/A	59.9%	.42%	10,400	39.7	6	0	19	13	2.2	42	2.6	13	N/A
	11/04/09	62.0%	10.0%		44.0%	10.0%		631	3	0	100	0.9			OVR		11.0%
	09/09/10	57.8%	18.2%		37.6%	17.0%	OVR	14.9	1033	9	OVR	0.0	>>>	>>>	4.6	0.0	17.7%
	11/22/10	51.2%	16.3%		62.4%	16.0%	OVR	232	OVR	12	OVR	0.4	>>>	>>>	4.7	0.9	15.4%
	02/09/11	59.3%	0.0%	N/A	48.3%	12.4%	OVR	93.8	144	0	OVR	0.5	>>>	>>>	8.0	0.0	NS
	04/14/11	57.0%	6.1%	>>>	89.0%	12.1%	OVR	199	214	8.6	20	0.0	>>>	>>>	5.3	1.3	N/A
VMP-3-31.5	08/02/11	70.5%	14.0%	>>>	26.7%	15.9%	OVR	239.0	1000	8.0	OVR	0.0	>>>	>>>	4.3	0.7	N/A

TABLE A-1
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location		Shroud		Tedlar Bag 1		Shroud		Tedlar Bag 2								Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Port ID	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-3-39	11/04/09	59.0%	11.0%		40.0%	11.0%		114	195	0	0	0.9			4.72		10.0%
	09/09/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/22/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/09/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/14/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/02/11	97.3%	86.2%	2.4%	92.1%	55.2%	0.0	2.2	2.0	0.0	3	0.0	0.7	25	0.0	1.8	N/A
VMP-4-5	11/05/09	59.0%	1.7225%		39.0%	30.0%		24.0	0	0	0	6.0			0.76		32.0%
	08/25/10	50.1%	0.0%		46.6%	2.3%	0.0	26.7	305	7	OVR	0.8	99.8	>>>	0.0	0.2	N/A
	11/22/10	52.9%	5.1%		50.5%	5.2%	27,800	165	376	11	OVR	0.6	>>>	>>>	13.7	0.8	5.1%
	02/14/11	52.3%	0.0%	N/A	42.7%	13.1%	1,045	406	20	2	28	7.9	21.6	>>>	5.9	7.8	11.2%
	04/19/11	76.8%	0.0%	N/A	54.0%	0.0%	26.0	304	16	34	OVR	0.2	>>>	>>>	11.3	3.3	N/A
	08/03/11	52.3%	0%	N/A	52.3%	0.0%	98.5	39.5	2	0.0	0.0	4	0.0	0.0	11	8.07	N/A
VMP-4-12	11/05/09	60.0%	0.125%		41.0%	2.2%		150	12	0	14	1.4			OVR		N/A
	08/25/10	57.4%	3.4%		54.0%	4.6%	0.0	77.8	452	25	OVR	0.0	99.8	>>>	13.5	0.2	N/A
	11/23/10	58.7%	3.3%		52.4%	3.0%	16,900	112	40	0	OVR	0.7	>>>	>>>	13.6	1.4	2.5%
	02/14/11	50.4%	1.27%	>>>	44.8%	1.67%	6,169	276	30	1	27	3.4	>>>	>>>	9.5	3.3	1.4%
	04/19/11	57.2%	2.5%	>>>	54.2%	4.7%	28.4	242	554	40	OVR	3.0	>>>	>>>	7.7	7.3	N/A
	08/03/11	71.2%	4.1%	>>>	48.9%	2.2%	113,000	198	25	10	OVR	0	91.2	OVR	14.7	1.6	N/A
VMP-4-23.5	11/05/09	62.0%	9.0%		39.0%	10.0%		340	134	6	86	6.0			0.0		10.6%
	08/31/10	54.5%	12.7%		37.8%	14.3%	OVR	2.3	1006	70	OVR	0.0	>>>	>>>	5.7	0.7	12.7%
	11/23/10	59.9%	17.3%		62.2%	17.5%	150,300	124	800	0	OVR	0.5	>>>	>>>	7.0	0.9	17.0%
	02/14/11	55.7%	15.1%	>>>	45.4%	14.6%	OVR	166	OVR	16	OVR	0.3	>>>	>>>	6.1	0.8	11.7%
	04/20/11	53.5%	3.8%	>>>	50.0%	6.7%	OVR	121	OVR	44	OVR	0.0	>>>	>>>	5.7	0.6	N/A
	08/06/11	56%	16%	>>>	61.6%	16.2%	OVR	238	OVR	11	100	0.1	>>>	>>>	5.1	0.4	N/A
VMP-4-39	11/05/09	59.0%	9.0%		34.0%	0.43%		327	1154	2	74	0.9			5.0		10.0%
	08/31/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/23/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/14/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/21/11	54.8%	11.3%	>>>	62.4%	1.4%	OVR	119	OVR	50	OVR	0.2	>>>	>>>	4.9	0.6	N/A
	08/06/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-5-5	11/05/09	37.0%	0.0%		28.0%	0.45%		197	5	0	35	0.0			4.5		N/A
	09/09/10	63.6%	0.7675%		61.5%	0.85%	79,110	331	426	11	OVR	0.0	>>>	>>>	12.4	1.6	N/A
	11/22/10	55.8%	0.0%		36.0%	1.6025%	11,600	149	199	0	OVR	1.9	>>>	>>>	12.5	1.4	N/A
	02/16/11	65.3%	0.0%	N/A	58.1%	0.2%	2,950	25.2	0	0	4	11.4	0.6	14	9.9	10.6	N/A
	04/21/11	54.2%	0.0%	N/A	56.4%	0.4%	0.0	0.3	0	0	0	18.5	0.0	0	7.5	19.0	N/A
	08/05/11	51.1%	0%	N/A	50%	0.02%	2,760	74.8	7.0	0.0	6	1.2	0.8	17	15.3	1	N/A

TABLE A-1
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location		Shroud		Tedlar Bag 1		Shroud		Tedlar Bag 2								Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Port ID	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-5-12.5	11/06/09	45.0%	0.1425%		39.0%	0.305%		41.5	153	0	100	2.0			OVR		N/A
	09/09/10	54.6%	0.93%		53.1%	0.6375%	1.59 × 10 ⁶	276	244	14	OVR	0.0	>>>	>>>	14.3	0.0	N/A
	11/23/10	53.3%	0.0%		50.6%	0.0%	205	79.9	4	0	55	4.4	1.5	32	13.2	3.6	N/A
	02/16/11	60.2%	0.0%	N/A	60.2%	0.0%	2,750	111	21	0	22	0.7	11.0	44	13.1	0.7	N/A
	04/21/11	59.0%	0.0%	N/A	51.1%	0.0%	0.0	0.7	0	0	0	9.5	0.0	0	8.3	10.3	N/A
	08/05/11	51.5%	0%	N/A	64.5%	1.62%	315,000	128.5	400	4	100	0.1	>>>	>>>	13.1	0.1	N/A
VMP-5-31	11/06/09	46.0%	1.9%		35.0%	2.1%		31.5	947	7	100	1.8			OVR		N/A
	09/09/10	48.0%	9.2%		46.2%	10.2%	OVR	0.0	875	21	OVR	0.0	>>>	>>>	9.4	0.0	7.1%
	11/23/10	53.6%	9.6%		50.0%	9.0%	87,100	148	1500	0	OVR	0.7	>>>	>>>	9.6	0.9	9.0%
	02/16/11	50.9%	0.0%	N/A	55.4%	7.7%	45,000	226	OVR	9	OVR	0.9	>>>	>>>	8.7	0.7	8.2%
	04/21/11	53.0%	8.7%	>>>	70.0%	5.8%	OVR	204	600	18	OVR	0.0	>>>	>>>	8.9	0.4	N/A
	08/05/11	84%	3.8%	N/A	70%	9%	OVR	215.8	OVR	10	100	0.1	>>>	>>>	8.8	0.2	N/A
VMP-5-40	11/06/09	51.0%	4.1%		38.0%	2.7%		28.6	913	0	100	0.4			OVR		N/A
	09/09/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/16/11	NS	NS	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/21/11	56.5%	5.7%	>>>	51.0%	5.3%	OVR	229	632	18	OVR	0.0	>>>	>>>	8.8	0.2	N/A
	08/05/11	NS	NS	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-6-5	11/06/09	55.0%	0.0%		39.0%	0.0%		161	27	3	85	0.9			OVR		N/A
	09/08/10	59.3%	0.0%		56.4%	0.1125%	35,760	327	76	3	27	0.0	12.8	>>>	15.3	0.0	N/A
	11/16/10	50.8%	0.0%		58.0%	0.78%	4,426	606	53	4	OVR	0.4	65.1	>>>	15.2	1.5	N/A
	02/07/11	50.2%	0.5%	N/A	54.6%	2.0%	271.1	0.7	0	0	0	16.9	0.0	1	2.3	19.3	N/A
	04/08/11	54.0%	0.2%	0.2%	64.0%	0.5%	5.1	0.2	0	0	0	14.1	0.1	2	4.4	14.1	N/A
	08/04/11	68.1%	0%	N/A	57.4%	19.4%	20.56	0.7	1	0	0	13.4	0.0	0	3.9	13.8	N/A
VMP-6-10	11/06/09	54.0%	0.3523%		29.0%	0.0775%		183	17	3	100	0.4			OVR		N/A
	09/08/10	51.6%	0.54%		37.9%	0.725%	79370	356	138	6	50	0.0	38.3	>>>	14.8	0.0	N/A
	11/17/10	51.3%	0.0%		60.9%	0.9125%	6.33	0.2	0	0	0	7.2	0.4	9	11.3	6.4	N/A
	02/07/11	51.2%	0.5%	N/A	45.3%	0.4%	97.6	0.6	0	0	0	7.9	0.1	1	10.0	8.6	N/A
	04/08/11	53.0%	0.0%	N/A	63.0%	0.0%	111	12.5	2	0	0	1.9	0.2	4	10.8	3.7	N/A
	08/04/11	50.1%	0%	N/A	53.8%	0.28%	34,650	325.8	283	5	56	0.2	47.5	>>>	17.2	0.3	N/A
VMP-6-31.5	11/09/09	58.0%	0.0%		47.0%	0.0%		445	86	3	100	0.3			OVR		N/A
	09/08/10	56.6%	2.7%		46.9%	2.6%	3.21 × 10 ⁶	380	711	41	OVR	0.0	>>>	>>>	12.9	0.0	2.3%
	11/17/10	66.5%	1.54%		59.8%	1.93%	1.16	462	753	10	OVR	2.1	>>>	>>>	13.3	2.3	N/A
	02/07/11	51.3%	0.0%	N/A	38.0%	0.0%	60,660.00	318	62	8	OVR	0.5	>>>	>>>	15.1	0.3	N/A
	04/11/11	53.4%	0.0%	N/A	68.5%	0.0%	10,000	416	1211	76	OVR	0.0	>>>	>>>	13.2	0.6	N/A
	08/04/11	55.5%	1.49%	N/A	54.1%	1.88%	OVR	327.3	1387	33	100	0.3	>>>	>>>	14.5	0.3	N/A

TABLE A-1
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location		Shroud		Tedlar Bag 1		Shroud		Tedlar Bag 2								Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Port ID	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-6-39	11/09/09	60.0%	1.61%		48.0%	1.55%		55.0	8	5	100	0.2			OVR		N/A
	09/08/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/16/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/07/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/11/11	53.0%	0.0%	N/A	91.8%	0.0%	11,300	420	1222	100	OVR	0.5	>>>	>>>	12.8	0.5	N/A
	08/04/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-7-5	11/09/09	64.0%	3.4%		50.0%	2.5%		0.6	4	0	Neg	12.3			OVR		N/A
	08/26/10	56.6%	1.7%		56.3%	1.5%	28.7	0.0	0	1	0	0.8	0.0	0	4.5	13.4	N/A
	11/19/10	50.2%	0.9225%		66.7%	0.4925%	61.45	4.5	5	0	10	2.9	0.2	2	15.3	2.6	N/A
	02/07/11	52.8%	0.0%	0.0%	45.0%	0.2%	290.8	0.3	0	0	0	16.5	0.0	0	3.6	17.7	N/A
	04/07/11	61.6%	0.0%	0.0%	53.8%	0.0%	34.2	0.1	0	0	0	12.6	0.0	0	6.6	12.8	N/A
	08/02/11	59.8%	0.2%	N/A	58.3%	0.5%	34,750	198	269	0	23	5	16.6	>>>	14.8	0.4	N/A
VMP-7-13.5	11/09/09	60.0%	0.0%		46.0%	0.45%		53.0	0	0	0	5.2			OVR		N/A
	08/26/10	50.8%	0.0%		56.2%	0.0%	5,130	62.8	2	2	16	0.0	1.1	22	16.7	0.4	N/A
	11/19/10	53.8%	0.0%		51.0%	0.0%	2,157	58.8	3	0	38	0.7	3.4	68	16.3	0.7	N/A
	02/07/11	54.2%	0.0%	0.0%	54.1%	0.0%	240.1	0.4	0	0	0	8.4	0.0	0	10.9	9.0	N/A
	04/07/11	57.5%	0.0%	0.0%	62.8%	0.0%	45.0	0.3	0	0	0	8.4	0.0	0	10.2	8.3	N/A
	08/02/11	56.0%	0%	N/A	68.5%	0.3%	31,200	234	362	0	40	9.5	10.8	>>>	16.7	0.1	N/A
VMP-7-29.5	11/09/09	62.0%	0.5375%		49.0%	0.365%		89.0	132	4	13	4.5			OVR		N/A
	08/31/10	50.4%	0.92%		48.3%	0.7925%	73,090	234	187	10	0	0.0	57.1	>>>	15.0	0.3	N/A
	11/19/10	53.7%	0.0%		69.3%	0.0%	4,264	120	32	1	OVR	0.5	19.0	>>>	15.9	0.8	N/A
	02/07/11	56.7%	0.0%	26.8%	56.2%	0.0%	17,840	910	4	12	56	3.4	27.6	>>>	17.1	0.4	N/A
	04/07/11	59.2%	0.0%	19.8%	57.6%	0.0%	28,300	430	2	5	25	0.4	23.4	>>>	15.1	0.2	N/A
	08/02/11	50%	0.49%	N/A	54%	.58%	79,000	307	66	1	57	4.9	68.2	>>>	14.5	0.2	N/A
VMP-7-38	11/09/09	52.0%	0.0%		45.0%	0.5975%		88.0	4	3	75	1.8			OVR		N/A
	08/31/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/19/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/07/11	62.2%	0.1%	32.9%	51.0%	0.0%	21,220	944	0	35	58	1.8	33.7	>>>	16.5	0.1	N/A
	04/07/11	76.5%	0.0%	25.1%	43.2%	0.0%	31,250	448	8	6	35	0.5	25.9	>>>	14.9	0.4	N/A
	08/02/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-8-5	11/10/09	63.0%	0.15%		45.0%	0.0%		0.0	1	0	0	15.5			OVR		N/A
	08/30/10	52.0%	0.0%		58.6%	0.1325%	55.0	0.4	0	0	0	6.4	0.0	0	7.3	13.4	N/A
	11/18/10	62.8%	0.0%		65.5%	0.0%	617	2.6	4	0	5	14.1	0.2	4	2.6	19.4	N/A
	02/10/11	51.2%	0.0%	0.0%	40.5%	0.0%	153.2	0.0	1	0	0	14.8	0.0	0	4.7	15.0	N/A
	04/07/11	53.0%	0.0%	NS	82.0%	0.3%		0.3	0	0	0	18.5	0.0	0	3.0	19.0	N/A
	07/27/11	61.7%	0.0%	N/A	50.8%	0%	0.0	5.1	0.0	0.0	0.0	9.4	0.0	0.0	8.9	12.9	N/A

TABLE A-1
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location		Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2										Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Port ID	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-8-9.5	11/10/09	63.0%	0.0%		45.0%	0.0%		0.0	0	0	0	11.2			OVR		N/A
	08/30/10	56.2%	0.0%		48.9%	0.0%	66.2	0.2	0	0	0	0.0	0.0	0	9.2	10.1	N/A
	11/18/10	63.7%	0.0%		100+%	0.1075%	27.23	2.1	4	0	7	12.2	0.3	6	9.6	12.5	N/A
	02/10/11	51.0%	0.0%	0.0%	61.0%	0.0%	102.5	0.0	0	0	0	12.5	0.0	0	9.0	11.6	N/A
	04/07/11	54.0%	0.0%	N/A	67.0%	0.0%		0.1	0	0	0	12.6	0.1	2	7.0	13.4	N/A
	07/27/11	53.5%	0.0%	N/A	53.8%	0.0%	0.0	4.1	5.0	0.0	0.0	11.0	0.0	0.0	6.1	14.4	N/A
VMP-8-23.5	11/10/09	60.0%	0.0%		46.0%	0.0%		0.0	2	0	0	11.2			OVR		N/A
	08/30/10	55.2%	0.0%		60.0%	0.0%	34.2	0.0	1	0	3	0.0	0.0	0	9.3	9.9	N/A
	11/19/10	57.8%	0.0%		59.8%	0.0%	3.62	1.6	0	0	6	10.5	0.0	0	10.1	11.0	N/A
	02/10/11	52.0%	0.0%	0.0%	69.3%	0.0%	112.1	0.0	0	0	0	11.5	0.0	0	10.1	11.7	N/A
	04/07/11	55.0%	0.0%	N/A	85.0%	0.0%		0.0	0	0	0	12.0	0.0	0	8.6	12.0	N/A
	07/27/11	55.7%	0%	N/A	56.3%	0%	0	3.1	2	0	0	8.2	0.1	2	8.9	11.3	N/A
VMP-8-35.5	11/10/09	53.0%	NS		NS	NS		NS	NS	NS	NS	NS			NS		NS
	08/30/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/19/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/10/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/07/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/27/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-9-5	11/11/09	55.0%	10.4%		49.0%	4.6%		0.0	2	0	0	15.0			3.45		4.5%
	08/26/10	50.2%	0.0%		45.6%	0.0%	36.7	0.0	2	0	3	0.4	0.4	8	11.6	4.7	N/A
	11/19/10	66.3%	0.0%		65.7%	0.0%	4.01	2.1	1	0	0	20.1	0.1	1	0.8	20.1	N/A
	02/08/11	67.4%	0.0%	0.0%	51.0%	0.0%	352.4	0.0	0	0	0	19.2	0.0	0	1.8	19.1	N/A
	04/06/11	50.3%	0.0%	N/A	62.2%	0.0%	0.0	1.6	0	0	0	0.4	0.0	0	1.1	5.8	N/A
	08/02/11	52.5%	0%	N/A	55.6%	0.4%	7,550	92.3	4	0.0	13	0.5	0.9	19	14.9	0.5	N/A
VMP-9-11.5	11/11/09	61.0%	1.7%		39.0%	0.85%		0.0	0	6	0	5.2			OVR		N/A
	08/26/10	54.2%	0.0%		34.7%	0.28%	19,620	36.7	8	0	42	0.0	3.2	64	13.7	0.5	N/A
	11/19/10	57.5%	0.0%		57.8%	0.04%	1714	23.6	74	0	21	0.9	1.7	35	15.8	0.8	N/A
	02/09/11	62.7%	0.0%	0.0%	50.9%	0.0%	30.8	0.4	3	0	0	3.1	0.0	1	14.8	3.4	N/A
	04/06/11	53.7%	0.0%	N/A	56.3%	0.0%	60.8	0.0	0	0	0	0.0	0.0	0	10.4	1.4	N/A
	08/02/11	58.6%	0.8%	5.6%	57.2%	0.9%	37,600	68.9	41.0	0.0	0.0	0.2	6	>>>	13.4	0.3	N/A
VMP-9-25.5	11/10/09	56.0%	0.2375%		41.0%	0.005%		145	1	0	60	2.1			OVR		N/A
	08/26/10	50.2%	0.4275%		47.6%	0.98%	46,560	153	32	12	Neg	0.0	19.4	388	13.8	0.0	N/A
	11/19/10	51.0%	0.0%		55.8%	0.175%	3,594	66.6	232	8	73	0.5	6.2	>>>	15.4	0.4	N/A
	02/09/11	64.9%	0.0%	N/A	40.5%	0.0%	7530	103	4	5	44	0.7	3.0	53	18.7	0.7	N/A
	04/08/11	54.0%	0.0%	N/A	80.0%	0.0%		45.0	0	2	14	0.0	1.5	31	15.8	0.6	N/A
	08/02/11	56.1%	0.3%	N/A	58.1%	0.5%	46,300	87.2	76	13.0	74.0	0.3	11.7	>>>	12.8	0.4	N/A

TABLE A-1
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location		Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2										Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Port ID	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-9-38.5	11/10/09	60.0%	0.0%		47.0%	0.2125%		138	11	0	33	3.1			OVR		N/A
	08/26/10	62.5%	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/19/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/09/11	50.9%	0.0%	N/A	50.0%	0.0%	10,650	226	2	3	38	0.6	6.3	>>>	19.4	0.3	N/A
	04/08/11	52.0%	0.0%	N/A	55.0%	0.0%		169	0	7	20	0.0	3.6	81	17.9	0.3	N/A
	08/02/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-10-5	11/11/09	65.0%	0.0%		56.0%	0.0%		0.0	0	0	0	13.5			OVR		N/A
	09/07/10	60.2%	0.0%		35.8%	0.0%	-7.7	0.1	0	0	0	0.0	0.0	0	6.4	14.0	N/A
	11/18/10	56.5%	0.0%		52.4%	0.035%	26.78	0.5	0	0	0	17.7	0.0	1	3.7	18.4	N/A
	02/10/11	50.5%	0.0%	N/A	44.0%	0.0%	212.7	0.4	0	0	0	16.2	0.0	0	4.5	17.8	N/A
	04/05/11	62.6%	0.0%	N/A	62.7%	0.1%	28.8	3.2	0	0	0	19.0	0.0	0	0.9	19.8	N/A
	07/29/11	57.7%	0.0%	N/A	48.4%	0.0%	0.0	1.0	1.0	0.0	0.0	16.0	0.0	0.0	4.4	17.4	N/A
VMP-10-10	11/11/09	58.0%	0.0%		44.0%	0.0%		0.0	0	0	0	11.7			OVR		N/A
	09/07/10	53.4%	0.0%		25.5%	0.0%	-8.7	0.0	0	0	0	0.0	0.0	0	9.0	11.9	N/A
	11/18/10	54.4%	0.0%		49.4%	0.05%	41.21	0.7	4	0	0	15.4	0.0	1	6.1	15.9	N/A
	02/11/11	54.5%	0.0%	N/A	65.5%	0.0%	67.4	0.1	0	0	0	14.9	0.0	0	5.5	14.7	N/A
	04/06/11	55.7%	0.0%	N/A	59.4%	0.1%	38.9	0.0	0	0	0	18.7	0.0	0	0	19.6	N/A
	07/29/11	52.8%	0.0%	N/A	49.8%	0.2%	0.0	2.8	1.0	0.0	0.0	12.3	0.0	0.0	6.0	15.3	N/A
VMP-10-20	11/11/09	60.0%	0.0%		38.0%	0.2475%		0.0	2	0	0	20.9			0.047		N/A
	09/07/10	51.8%	0.0%		32.9%	0.0%	-10.8	0.0	0	0	0	0.0	0.0	0	12.3	9.4	N/A
	11/18/10	58.1%	0.0%		41.0%	0.0%	85.73	0.7	4	0	0	13.2	0.0	0	9.1	13.2	N/A
	02/11/11	52.6%	0.0%	N/A	55.8%	0.4%	51.5	0.3	0	0	0	12.9	0.0	0	7.4	13.1	N/A
	04/06/11	53.5%	0.0%	N/A	54.7%	0.2%	50.0	0.6	0	0	0	17.7	0.0	0	2.7	17.6	N/A
	07/29/11	62.7%	0.0%	N/A	45.9%	0.4%	0.0	3.3	2.0	0.0	0.0	9.7	0.0	0.0	7.3	13.2	N/A
VMP-10-30	11/13/09	60.0%	0.0%		50.0%	0.0%		0.0	0	0	0	6.7			OVR		N/A
	09/07/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/18/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/11/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/06/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/29/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-11-5	11/17/09	50.0%	0.0%		31.0%	0.0%		5.0	6	0	24	7.0			OVR		N/A
	09/07/10	57.9%	0.0%		44.3%	0.0%	-2.9	0.1	2	0	0	0.0	0.0	0	9.9	10.3	N/A
	11/22/10	56.5%	0.0%		75.0%	0.0%	6.6	1.3	5	0	0	8.6	0.0	0	11.0	8.2	N/A
	02/11/11	52.9%	0.0%	N/A	45.9%	0.0%	12.8	0.8	0	0	0	9.4	0.0	0	9.5	9.9	N/A
	04/06/11	55.3%	0.0%	0.0%	48.9%	0.0%	3.4	0.7	0	0	0	10.6	0.0	0	8.5	10.5	N/A
	08/07/11	68.2%	0%	N/A	47.5%	0%	0.0	4.3	0	0	0	13.6	0	0	7.5	13.1	N/A

TABLE A-1
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location		Shroud		Tedlar Bag 1		Shroud		Tedlar Bag 2								Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Port ID	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-11-8	11/17/09	50.0%	0.0%		37.0%	0.0%		4.0	0	0	2	7.3			OVR		N/A
	09/08/10	52.3%	0.0%		37.6%	0.0%	10.5	0.0	0	0	0	0.0	0.0	0	9.5	11.0	N/A
	11/22/10	55.0%	0.0%		57.5%	0.025%	8.0	1.8	4	0	0	7.8	0.0	0	11.4	7.6	N/A
	02/11/11	54.3%	0.0%	N/A	43.7%	0.0%	27.7	0.9	0	0	0	8.6	0.0	0	10.1	9.0	N/A
	04/06/11	73.8%	0.0%	0.0%	70.0%	0.0%	3.0	0.8	0	0	0	10.5	0.0	0	8.3	10.1	N/A
	08/07/11	53%	0%	N/A	35.1%	0%	0.0	2.3	4	0	0	8.0	0.1	1	9.9	7.9	N/A
VMP-11-29	11/18/09	53.0%	0.0%		45.0%	0.0%		OVR	3	0	16	4.5			OVR		N/A
	09/08/10	63.8%	0.0%		40.0%	0.0%	1,400	97.3	1	0	5	0.0	0.0	1	14.7	0.0	N/A
	11/22/10	57.5%	0.0%		46.3%	0.0%	785	58.7	3	0	3	0.8	0.2	5	14.7	0.8	N/A
	02/14/11	55.5%	0.0%	N/A	36.9%	0.0%	7.2	0.0	0	0	0	1.6	0.0	0	15.3	1.7	N/A
	04/06/11	63.8%	0.0%	0.0%	66.0%	0.0%	3.9	1.1	0	0	0	0.2	0.1	2	14.6	0.8	N/A
	08/25/11	53.7%	0.0%	0.0%	47.5%	0.0%	0.0	0.3	2	0	0	0.9	0	0	14.0	0.5	N/A
VMP-11-38	11/18/09	50.0%	0.0%		40.0%	0.0%		OVR	2	0	28	4.6			OVR		N/A
	09/08/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/22/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/14/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/06/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/07/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-12-5	11/13/09	56.0%	6.0%		42.0%	5.8%		857	120	2	100	1.8			OVR		7.0%
	09/03/10	48.7%	10.4%		45.7%	11.1%	OVR	22.5	145	23	OVR	0.0	>>>	>>>	14.5	0.7	10.1%
	12/03/10	55.3%	1.075%		57.0%	1.1225%	4,986	21.7	220	0	73	0.7	9.9	>>>	13.5	1.1	N/A
	02/15/11	62.7%	3.3%	80.1%	62.6%	2.5%	2,630,000	86.7	0	0	OVR	0.2	86.7	>>>	8.1	0.0	N/A
	04/19/11	52.0%	7.7%	>>>	59.0%	7.9%	69.5	71.8	9	11	OVR	0.0	>>>	>>>	7.7	0.4	N/A
	08/04/11	57.4%	8.2%	>>>	38.1%	5.1%	OVR	89.8	49	8.0	>>>	0.0	>>>	>>>	12.3	1.0	N/A
VMP-12-11.5	11/13/09	55.0%	0.0%		45.0%	5.5%		97.0	68	2	0	4.2			OVR		0.0%
	09/03/10	54.1%	9.6%		33.4%	10.1%	OVR	44.1	293	15	Off	0.0	>>>	>>>	15.2	0.6	11.4%
	12/03/10	67.1%	5.8%		58.6%	6.5%	50,100	48.7	78	7	OVR	0.6	>>>	>>>	12.7	0.9	6.9%
	02/15/11	51.0%	5.1%	>>>	56.3%	5.4%	OVR	122	168	21	OVR	0.3	>>>	>>>	9.6	0.0	N/A
	04/19/11	51.0%	8.7%	>>>	58.3%	9.4%	80.8	78.0	50	19	OVR	0.0	>>>	>>>	9.5	0.2	N/A
	08/04/11	51.2%	5.2%	>>>	27.7%	8.0%	OVR	193.8	62	19	OVR	0.0	>>>	>>>	11.5	1.0	N/A
VMP-12-25	11/13/09	47.0%	6.5%		36.0%	6.4%		332	142	2	92	2.9			2.33		6.9%
	09/03/10	52.6%	11.6%		34.9%	10.6%	OVR	441	379	7	OVR	0.0	>>>	>>>	15.3	0.5	10.8%
	12/03/10	54.4%	8.8%		53.1%	9.1%	61,100	64.7	134	2	OVR	0.6	>>>	>>>	13.9	0.6	9.5%
	02/15/11	54.6%	3.9%	>>>	72.1%	4.8%	OVR	242	248	9	OVR	0.0	>>>	>>>	13.6	0.0	N/A
	04/19/11	53.0%	8.8%	>>>	75.0%	9.3%	76.0	133	90	9	OVR	0.0	>>>	>>>	12.3	0.8	N/A
	08/04/11	92.6%	11.6%	>>>	31.3%	8.1%	OVR	244.6	4	11	OVR	0.0	OVR	OVR	11.8	0.9	N/A

TABLE A-1
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location		Shroud		Tedlar Bag 1		Shroud		Tedlar Bag 2								Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Port ID	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-12-39	11/13/09	56.0%	6.5%		44.0%	7.8%		1805	93	1	7	4.3			0.27		7.2%
	09/03/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/03/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/15/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/19/11	51.0%	12.0%	>>>	53.0%	11.2%	96.7	131	85	17	OVR	0.0	>>>	>>>	13.0	0.7	N/A
	08/04/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-13-5	11/16/09	39.0%	0.0%		22.0%	0.0%		957	4	0	26	1.6			OVR		N/A
	09/13/10	56.7%	0.0%		46.7%	0.0%	35.3	0.0	0	0	0	0.0	0.0	0	6.8	9.0	N/A
	12/01/10	43.4%	0.14%		51.5%	0.0%	0.61	1.8	5	0	0	11.6	0.1	2	6.4	12.6	N/A
	02/18/11	50.9%	0.0%	N/A	50.9%	0.0%	0.0	1.0	0	0	0	14.8	0.0	0	3.3	15.8	N/A
	04/05/11	70.2%	0.0%	N/A	82.6%	0.0%	50.9	5.9	0	0	0	15.3	0.0	0	3.7	17.4	N/A
	08/09/11	57.9%	0%	N/A	44%	0%		7	2	0	0	4.0	0	1	11.2	4.7	N/A
VMP-13-10.5	11/17/09	40.0%	0.0%		29.0%	0.04%		12.0	2	0	0	20.9			0.103		N/A
	09/13/10	53.2%	0.0%		30.3%	0.0%	1,460	1.0	2	2	5	0.0	0.2	1	8.6	0.7	N/A
	12/01/10	41.2%	0.0%		42.7%	0.0%	0.62	2.2	2	0	0	5.1	0.0	1	10.4	5.0	N/A
	02/18/11	50.4%	0.0%	N/A	47.9%	0.0%	2,550	192	0	0	16	1.7	0.1	16	6.8	10.6	N/A
	04/05/11	50.2%	0.0%	N/A	72.8%	0.0%	30.5	4.4	1	0	0	10.6	0.0	0	3.3	12.1	N/A
	08/09/11	58.5%	0%	N/A	49.9%	0%		46	31	0	11	0.5	0.7	15	12.4	1.3	N/A
VMP-13-21.5	11/17/09	43.0%	0.0%		0.0%	32.0%		OVR	27	0	38	4.2			OVR		N/A
	09/13/10	56.7%	0.0525%		27.9%	0.0%	35,600	1869	7	0	30	0.0	2.4	49	12.2	0.0	N/A
	12/01/10	43.5%	0.1935%		46.7%	0.31%	1,928	255	2	0	26	0.6	2.1	43	13.4	0.6	N/A
	02/18/11	55.4%	0.0%	N/A	53.1%	0.0%	3,050	372	0	0	21	1.4	1.8	37	12.7	0.6	N/A
	04/05/11	50.2%	0.0%	N/A	50.2%	0.0%	18,220	OVR	0	0	17	4.4	0.0	34	0.1	10.4	N/A
	08/09/11	54.2%	0%	N/A	48%	0%		202.3	11	0	40	0.3	2.4	48	11.7	0.9	N/A
VMP-13-29.5	11/17/09	40.0%	0.0%		32.0%	0.0%		OVR	8	0	47	4.8			OVR		N/A
	09/13/10	NS	NS		NS	NS	NS	NS	0	NS	NS	NS	NS	NS	NS	NS	NS
	12/01/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/18/11	52.1%	0.0%	N/A	49.2%	0.0%	8,300	OVR	64	2	8	1.0	1.5	25	3.5	16.3	N/A
	04/05/11	63.9%	0.0%	N/A	47.9%	0.0%	50,220	OVR	1	0	22	3.4	0.0	55	0	19.8	N/A
	08/09/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-14-5	11/16/09	54.0%	0.0%		42.0%	--		NS	NS	NS	NS	NS			NS		N/A
	09/10/10	53.6%	3.8%		51.4%	4.0%	2.32 × 10 ⁶	1.6	0	0	OVR	0.0	17.9	>>>	20.1	0.0	3.2%
	12/01/10	42.6%	0.4825%		33.5%	0.68%	3.03	1.6	2	0	0	12.7	0.1	2	2.7	13.5	N/A
	02/17/11	54.1%	0.0%	0.0%	68.1%	0.0%	154.5	1.0	3	0	3	2.9	0.2	3	2.4	2.6	N/A
	04/05/11	59.6%	0.0%	N/A	54.9%	0.2%	0.0	0.5	0	0	0	19.2	0.0	0	2.7	19.0	N/A
	08/08/11	59%	1%	N/A	61.5%	1%	49,000	38	17	0	5	0.3	6.8	>>>	18.2	0.1	N/A

TABLE A-1
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location		Shroud		Tedlar Bag 1		Shroud		Tedlar Bag 2								Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Port ID	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-14-11.5	11/16/09	55.0%	2.5%		22.0%	2.3%		43.9	25	4	17	6.1			OVR		1.65%
	09/10/10	52.3%	7.0%		47.2%	7.3%	7.41 × 10 ⁶	10.4	42	75	OVR	0.0	>>>	>>>	16.5	0.0	6.8%
	12/02/10	53.5%	0.0%		50.7%	1.9625%	7,494	1.1	251	10	5	0.6	18.3	>>>	4.6	0.5	N/A
	02/17/11	55.0%	0.0%	0.0%	80.0%	0.0%	86.2	95.8	4	0	4	3.6	0.5	10	3.8	3.7	N/A
	04/05/11	90.0%	0.0%	N/A	49.8%	0.0%	766	118.5	0	0	0	8.6	0.3	6	12	8.6	N/A
	08/08/11	57%	6.6%	>>>	59%	6.7%	253,000	104	163	36	100	0.3	>>>	>>>	16.3	0.3	N/A
VMP-14-20	11/16/09	32.0%	2.4%		27.0%	1.9%		104	100	0	0	4.2			OVR		1.96%
	09/10/10	63.8%	7.8%		50.5%	7.7%	OVR	56.8	186	0	OVR	0.0	>>>	>>>	17.2	0.0	6.6%
	12/02/10	54.5%	6.2%		45.6%	6.6%	25,400	264	148	0	OVR	0.5	>>>	>>>	19.2	0.5	6.1%
	02/18/11	53.0%	2.8%	>>>	53.1%	2.6%	58,370	1282	305	4	OVR	1.6	>>>	>>>	16.8	0.4	N/A
	04/05/11	60.1%	1.2%	>>>	53.6%	2.2%	233,000	856.7	71	2	OVR	0.3	>>>	>>>	16.5	0.3	N/A
	08/08/11	58.2%	8.2%	N/A	53.2%	6.6%	810,000	351	402	3	100	0.3	>>>	>>>	15.4	0.2	N/A
VMP-14-29	11/16/09	36.0%	1.6%		29.0%	1.7%		286	37	0	OVR	3.7			OVR		N/A
	09/10/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/01/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/18/11	54.0%	6.8%	86.0%	66.4%	2.5%	85,560	1502	624	8	OVR	0.4	>>>	>>>	16.5	0.3	N/A
	04/05/11	58.1	2.1%	>>>	48.8%	2.4%	276,000	1420	100	5	OVR	0.2	>>>	>>>	15.7	0.3	N/A
	08/08/11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
VMP-15-5	11/18/09	46.0%	0.0%		32.0%	0.0%		5.6	0	0	3	7.5			OVR		N/A
	09/14/10	64.4%	0.0%		49.9%	0.0%	0	0.0	0	0	5	0.0	0.0	0	17.0	0.3	N/A
	11/30/10	47.9%	0.26%		41.5%	0.53%	1,058	29.6	1	0	22	1.5	1.9	38	15.2	1.4	N/A
	02/16/11	55.1%	0.0%	0.3%	63.7%	0.0%	213.7	50.2	2	0	4	3.6	0.5	9	11.0	3.9	N/A
	04/20/11	55.0%	0.0%	N/A	61.0%	0.0%	661.6	35.8	0	0	5	1.9	0.2	5	15.4	2.9	N/A
	08/08/11	64%	0%	N/A	63.9%	0%	0	2.4	3	0	0	1.4	0	0	18.1	1.2	N/A
VMP-15-21.5	11/18/09	66.0%	4.0%		60.0%	4.2%		47.0	5	6	OVR	3.6			OVR		4.7%
	09/14/10	50.1%	3.9%		28.1%	3.6%	1.96 × 10 ⁶	9.5	5	92	OVR	0.0	30.8	>>>	19.1	0.0	3.4%
	11/30/10	42.2%	2.2%		47.5%	2.8%	10,700	26.1	0	8	OVR	0.5	17.8	>>>	19.2	0.5	N/A
	02/16/11	52.5%	0.7%	13.0%	47.9%	0.6%	14,310	89.0	3	66	72	2.1	15.3	>>>	18.7	0.5	N/A
	04/20/11	52.3%	1.0%	19.5%	50.3%	1.5%	1,320,000	96.6	0	2	OVR	0.0	24.8	>>>	19.1	0.0	N/A
	08/08/11	52.5%	5%	N/A	50.8%	4.8%	280,000	43.5	24	94	100	0.2	31	>>>	17.4	0.2	N/A
VMP-15-25.5	11/18/09	60.0%	5.1%		51.0%	4.8%		49.9	6	1	OVR	5.6			OVR		5.7%
	09/14/10	50.3%	6.3%		30.9%	8.1%	11,780	29.9	1	0	15	0.0	1.6	32	7.7	11.1	4.1%
	12/02/10	62.4%	0.6025%		62.2%	9.2%	20.03	1.9	1	0	0	14.3	0.1	2	4.1	14.8	10.7%
	02/16/11	52.7%	4.1%	3.5%	55.7%	4.8%	1,850	89.6	2	27	41	7.0	1.9	40	8.6	6.2	N/A
	04/20/11	52.0%	8.3%	2.0%	50.0%	5.9%	10,000	17.6	0	0	10	10.7	3.0	21	5.2	9.9	N/A
	08/08/11	57.3%	4.3%	N/A	57.5%	8.6%	67.2	11.9	3	0	0	5	0	0	13.9	4.8	N/A

TABLE A-1
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location		Shroud		Tedlar Bag 1		Shroud		Tedlar Bag 2								Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Port ID	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-15-29	11/19/09	56.0%	4.2%		45.0%	5.2%		116	26	32	100	1.0			OVR		5.9%
	09/14/10	56.1%	10.1%		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/02/10	NS	NS		NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/16/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/20/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/08/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-16-5	11/19/09	52.0%	33.0%		34.0%	23.0%		5.6	1	0	0	15.2			0.135		5.0%
	09/02/10	61.2%	15.1%		23.1%	12.1%	OVR	6.2	167	9	OVR	0.0	>>>	>>>	19.4	0.6	14.0%
	11/29/10	50.0%	15.0%		47.8%	12.7%	86,300	29.4	13	0	OVR	0.6	>>>	>>>	18.1	1.5	12.6%
	02/15/11	52.6%	5.4%	>>>	75.3%	5.5%	OVR	119	31	2	OVR	2.1	>>>	>>>	14.3	0.0	N/A
	04/22/11	52.4%	11.8%	>>>	54.0%	12.6%	OVR	76.7	27	3	OVR	0.0	>>>	>>>	17.3	0.4	N/A
	08/05/11	52.3%	2.3%	3%	57.3%	4.9%	OVR	220.6	6.0	0.0	26.0	0.0	20.7	>>>	12.7	1.9	N/A
VMP-16-13.5	11/19/09	52.0%	17.0%		56.0%	16.0%		74.0	0	0	48	14.6			1.39		16.0%
	09/02/10	51.2%	13.6%		31.2%	13.6%	OVR	32.6	170	10	OVR	0.0	>>>	>>>	19.4	0.1	16.2%
	11/29/10	52.5%	14.6%		42.1%	16.0%	128,300	32.8	15	4	OVR	0.7	>>>	>>>	18.6	0.8	16.4%
	02/16/11	36.1%	6.1%	>>>	73.4%	5.7%	2,530,000	92.3	66	4	OVR	0.3	>>>	>>>	14.3	0.2	N/A
	04/22/11	62.0%	14.0%	>>>	70.0%	11.4%	OVR	80.2	0	4	OVR	0.0	>>>	>>>	17.0	1.8	N/A
	08/05/11	67.8%	9.6%	1.0%	61.5%	6.6%	70,800	32.1	33	1	25	0.0	32.4	OVR	13.9	2	N/A
VMP-16-19	11/19/09	55.0%	18.0%		53.0%	9.0%		36.0	17	0	100	11.6			1.33		13.0%
	09/02/10	51.9%	11.4%		20.7%	16.8%	OVR	0.0	162	12	Off	0.0	>>>	>>>	18.5	0.0	15.6%
	11/29/10	56.3%	14.3%		49.3%	14.6%	126,100	36.1	12	2	OVR	0.9	>>>	>>>	18.5	0.8	15.0%
	02/16/11	54.6%	5.1%	>>>	60.0%	4.8%	2,640,000	87.5	93	5	OVR	0.3	>>>	>>>	14.6	0.2	N/A
	04/27/11	51.3%	10.6%	>>>	67.3%	27.8%	4,390,000	111	3	0	OVR	1.6	>>>	>>>	11.7	1.8	N/A
	08/05/11	57.2%	7.7%	3.6%	41.6%	13.3%	1,800	171.2	6.0	0.0	8.0	0.0	0.3	6.0	4.7	15.7	N/A
VMP-16-31	11/19/09	57.0%	10.0%		41.0%	6.0%		38.0	18	0	100	14.5			OVR		9.5%
	09/03/10	50.2%	15.1%		41.2%	14.8%	131	1.3	2	0	36	2.4	0.0	0	0.3	15.5	14.6%
	11/29/10	51.5%	14.4%		35.2%	14.4%	83,500	37.1	12	3	OVR	0.6	>>>	>>>	18.9	0.7	13.9%
	02/16/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/22/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/05/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-17-5	06/21/10	48.8%	0.0%		36.1%	0.0%		0.0	4	0	0	11.9			OVR		N/A
	09/01/10	64.5%	0.0%		55.2%	0.0%	-16.4	0.0	2	0	0	0.0	0.6	12	8.1	11.0	N/A
	11/22/10	60.0%	0.0%		47.1%	0.0%	9.13	1.8	5	0	0	15.1	0.0	0	5.6	15.2	N/A
	02/07/11	51.7%	0.0%	0.0%	49.6%	0.0%	295.4	0.3	2	0	0	18.2	0.0	0	3.0	18.1	N/A
	04/06/11	62.5%	0.0%	0.1%	33.6%	0.0%	3.86	0.7	0	0	0	17.1	0.1	2	2.8	17.1	N/A
	08/01/11	52.8%	0.0%	N/A	31.8%	0.0%	0.0	5.0	3.0	0.0	0.0	10.2	0.0	0.0	6.6	13.5	N/A

TABLE A-1
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location		Shroud		Tedlar Bag 1		Shroud		Tedlar Bag 2								Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Port ID	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-18-8.5	06/18/10	47.8%	0.0%		34.8%	0.0%		0.3	4	0	6	12.6			OVR		N/A
	09/07/10	63.7%	0.0%		63.7%	0.1%	-8.1	0.0	0	0	0	0.0	0.0	0	11.2	12.4	N/A
	11/19/10	55.2%	0.0%		67.2%	0.1%	4.33	3.1	4	0	9	10.4	0.3	6	9.9	10.6	N/A
	02/09/11	61.3%	0.0%	N/A	42.9%	0.0%	195.7	0.9	0	0	0	14.6	0.1	2	7.1	15.4	N/A
	04/07/11	58.1%	0.1%	N/A	61.3%	0.4%	14.0	1.0	0	0	0	13.4	0.0	0	6.4	13.1	N/A
	07/28/11	54.2%	0.0%	N/A	70.7%	0.0%	0.0	5.6	0.0	0.0	0.0	8.0	0.0	0.0	8.3	12.5	
VMP-19-5	06/18/10	46.8%	0.0%		11.8%	0.0%		0.3	10	0	0	12.6			OVR		N/A
	09/01/10	52.0%	0.0%		58.6%	1.1%	22.8	1.1	2	0	0	0.0	0.7	12	10.7	8.5	N/A
	11/15/10	57.4%	0.0%		63.4%	0.03%	-0.12	0.0	0	0	8	11.0	0.0	0	8.6	4.4	N/A
	02/09/11	57.5%	0.3%	N/A	42.5%	0.4%	553.8	1.3	0	0	3	15.5	0.1	1	6.9	16.4	N/A
	04/07/11	52.3%	0.0%	N/A	68.0%	0.2%		0.2	0	0	0	15.0	0.2	3	5.3	15.4	N/A
	08/09/11	57.1%	0%	N/A	59.3%	.32%		5	23	0	0	10.8	0	1	9.8	10.3	N/A
VMP-20-5	03/14/11	53.4%	0.0%	N/A	60.9%	0.0%	0	2.1	10	0	0	7.0	0.0	0	10.3	7.6	N/A
	04/15/11	52.0%	0.0%	N/A	80.0%	0.0%		0.2	8	0	0	5.4	0.0	0	8.7	8.9	N/A
	07/25/11	52.4%	0.0%	N/A	51.0%	0.0%	0	0.4	0.0	0.0	0.0	3.5	0.0	0.0	14.9	6.9	N/A
VMP-20-10	03/14/11	52.1%	0.0%	N/A	36.4%	0.0%	0	0.7	0	0	0	8.0	0.0	0	9.4	7.0	N/A
	04/15/11	56.0%	0.0%	N/A	94.3%	0.0%		5.0	2	0	0	5.4	0.0	0	8.4	8.5	N/A
	07/25/11	56.2%	0.0%	N/A	51.6%	0.0%	0	2.6	0.0	0.0	0.0	2.6	0.1	0.0	8.2	7.0	N/A
VMP-20-25	03/14/11	52.0%	0.0%	N/A	38.5%	0.0%	0	1.4	0	0	0	2.2	0.0	0	10.0	2.2	N/A
	04/15/11	52.0%	0.0%	N/A	60.4%	0.0%		2.5	3	0	3	0.0	0.1	1	10.5	2.1	N/A
	07/26/11	51.8%	0.1%	N/A	39.8%	0%	4200	113.9	4.0	0.0	7.0	0.0	1.0	20.0	8.6	1.0	N/A
VMP-20-39.5	03/14/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/15/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/26/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-21-5	02/09/11	73.4%	0.0%	N/A	53.8%	1.9%	11,780	273	0	0	30	9.1	43.4	>>>	6.5	9.2	N/A
	04/13/11	70.1%	0.0%	N/A	52.8%	0.2%	0.0	0.9	0	0	0	16.7	0.0	0	1.9	16.9	N/A
	07/25/11	55.4%	0.0%	N/A	49.7%	0.0%	0	3.7	0	0	0	2.	0.0	0	14.5	7.1	N/A
VMP-21-10	02/10/11	64.5%	0.0%	N/A	59.5%	0.0%	8,350	533	9	0	27	8.1	24.9	>>>	7.5	8.7	N/A
	04/13/11	65.2%	0.0%	N/A	57.7%	0.4%	263	40.2	0	0	0	8.2	0.1	3	6.7	8.3	N/A
	07/25/11	55.0%	0.0%	N/A	49.2%	0.3%	0	3.7	0.0	0.0	0.0	2.6	0.0	0.0	7.5	8.1	N/A
VMP-21-25	02/10/11	50.7%	0.0%	N/A	54.5%	0.0%	48,340	227	35	1	OVR	0.4	>>>	>>>	7.0	0.2	N/A
	04/14/11	55.0%	0.0%	N/A	66.0%	0.2%	102,000	459.0	61	11	18	0.0	>>>	>>>	6.3	0.5	N/A
	07/26/11	61.6%	0.0%	N/A	59.2%	0.4%	102,000	398.5	138	3	73	0.0	>>>	>>>	6.2	0.1	N/A
VMP-21-33	02/10/11	51.9%	0.0%	N/A	51.2%	0.4%	63,640	434	42	7	OVR	0.4	>>>	>>>	4.9	5.2	N/A
	04/14/11	59.9%	0.0%	N/A	59.9%	0.9%	98,820	385.0	8	15	36	0.0	>>>	>>>	6	0.8	N/A
	07/26/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-22-5	02/11/11	53.4%	0.0%	0.1%	52.4%	0.0%	105.1	26.4	2	0	0	7.3	0.0	0	9.0	6.5	N/A
	04/18/11	57.0%	0.0%	N/A	58.1%	0.0%	0.0	0.0	0	0	0	7.9	0.1	0	6.8	11.1	N/A
	07/26/11	55.5%	0.0%	N/A	65.0%	0.0%	0.0	3.1	7	0	2	8.1	0	0	7.6	11.9	N/A

TABLE A-1
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location		Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2										Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Port ID	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-22-10	02/11/11	52.1%	0.0%	0.1%	80.2%	0.0%	40.6	17.6	0	0	0	4.5	0.1	2	10.6	4.8	N/A
	04/18/11	51.0%	0.0%	N/A	49.5%	0.0%	0.0	0.0	0	0	0	6.4	0.0	2	8.4	6.8	N/A
	07/26/11	54.5%	0.0%	N/A	39.2%	0.0%	2.90	2.7	8	0	0	0.0	0.0	0	10.5	4.5	N/A
VMP-22-18	02/11/11	52.0%	0.0%	30.2%	44.3%	0.0%	17,430	326	2	1	54	0.9	31.5	>>>	12.0	0.0	N/A
	04/18/11	51.0%	0.0%	N/A	44.3%	0.0%	29,430	258	3	6	24	0.0	21.7	>>>	10.7	0.3	N/A
	07/26/11	56.2%	0.0%	N/A	55.7%	0.0%	15,800	205.8	27	3	24	0.0	11.5	>>>	10.5	0.8	N/A
VMP-22-38	02/11/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/18/11	55.0%	0.0%	N/A	50.0%	0.0%	60,850	290	0	9	OVR	0.0	>>>	>>>	10.8	0.3	N/A
	07/26/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-23-5	02/15/11	62.3%	0.0%	N/A	80.3%	0.7%	7	0.5	0	0	0	18.4	18.6	11	0.3	19.9	N/A
	04/21/11	60.0%	0.0%	N/A	52.3%	0.0%	0.0	0.7	23	0	0	14.7	0.0	2	5.5	15.1	N/A
	07/27/11	62.8%	0.0%	N/A	53.7%	0.0%	0.0	4.9	2	0	0	5.3	0.0	0	8.8	9.2	N/A
VMP-23-10	02/15/11	52.0%	0.0%	N/A	55.1%	0.0%	0.0	0.4	0	0	0	10.0	13.1	>>>	2.3	19.0	N/A
	04/21/11	52.3%	0.0%	N/A	58.2%	0.0%	0.0	1.2	16	0	0	11.8	0.2	6	6.5	12.1	N/A
	07/27/11	66.8%	0.0%	N/A	49.8%	0.0%	0.0	2.9	21	0	0	0.0	0.0	0	9.5	6.3	N/A
VMP-23-25	02/15/11	54.5%	0.0%	N/A	51.9%	0.0%	0.0	1.2	0	0	0	2.1	0.0	1	14.9	0.6	N/A
	04/21/11	58.2%	0.0%	N/A	53.6%	0.0%	0.0	0.6	13	0	0	2.2	0.2	0	13.7	2.4	N/A
	07/27/11	58.7%	0.0%	N/A	45.2%	0.0%	6.6	4.4	22	0	0	0.0	0.0	0	11.9	1.3	N/A
VMP-23-40	02/15/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/21/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/27/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-24-5	02/16/11	50.9%	0.0%	N/A	50.5%	0.0%	0.0	0.9	3	0	0	16.0	0.0	0	6.9	13.9	N/A
	04/08/11	53.5%	0.0%	N/A	53.1%	0.1%	41.7	0.7	0	0	0	15.0	0.0	0	4.9	15.9	N/A
	07/28/11	73.3%	0.0%	N/A	73.3%	0.0%	0.0	4.2	0.0	0.0	0.0	13.5	0.0	0.0	7.7	15.6	N/A
VMP-24-10	02/17/11	51.0%	0.0%	N/A	59.5%	0.0%	0.0	0.3	0	0	0	20.9	0.0	0	0.0	19.9	N/A
	04/11/11	55.5%	0.0%	N/A	77.0%	0.0%	32.4	0.7	0	0	0	13.9	0.0	0	7.1	13.8	N/A
	07/28/11	63.1%	0.0%	N/A	50.7%	0.0%	0.0	5.2	0.0	0.0	0.0	8.6	0.0	0.0	0.1	22.6	N/A
VMP-24-22	02/17/11	52.5%	0.0%	N/A	50.5%	0.0%	0.0	0.9	4	0	0	11.9	0.0	2	10.3	10.6	N/A
	04/11/11	67.8%	0.0%	N/A	67.8%	0.0%	47.3	0.3	0	0	3	11.9	0.0	0	8.8	10.8	N/A
	07/28/11	52.0%	0.0%	N/A	42.6%	0.0%	0.0	4.3	0.0	0.0	0.0	8.4	0.0	0.0	9.7	12.4	N/A
VMP-24-34	02/17/11	52.2%	0.0%	N/A	60.1%	0.0%	0.0	1.9	30	0	0	10.9	0.2	3	10.6	10.5	N/A
	04/11/11	70.9%	0.0%	N/A	74.4%	0.0%	40.5	0.1	0	0	2	11.1	0.0	0	9.2	11.0	N/A
	07/28/11	52.6%	0.0%	N/A	38.1%	0.0%	0.0	5.8	2.0	0.0	0.0	8.1	0.0	0.0	9.7	12.5	

TABLE A-1
SOIL VAPOR SAMPLING - TEDLAR SAMPLING DATA

Reading Location		Shroud	Tedlar Bag 1			Shroud	Tedlar Bag 2										Tedlar Bag 3
Instrument		Dielectric		Landtec	Dielectric		FID	PID	Multi-gas				Landtec				Dielectric
Port ID	Date	Helium in Shroud Before	Helium Before	CH4 (%)	Helium in Shroud After	Helium After	FID (ppm)	PID (ppm)	CO (ppm)	H2S (ppm)	LEL (%)	O2 (%)	CH4 (%)	LEL (%)	CO2 (%)	O2 (%)	Direct Port Reading After
VMP-25-5	03/15/11	55.9%	0.0%	N/A	53.4%	0.0%	159	88.2	0	0	0	2.0	0.0	0	5.0	1.8	N/A
	04/08/11	75.0%	0.0%	N/A	51.9%	0.0%	95.0	1.9	0	0	3	0.9	0.1	2	7.5	1.0	N/A
	08/09/11	66%	0%	0%	45.2%	0%	27,900	2.4	4	0	0	16.8	0	0.0	16	2.8	N/A
VMP-25-9.5	03/15/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/08/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/09/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
VMP-25-21	03/15/11	59.6%	8.2%	>>>	38.3%	8.9%	OVR	268.3	182	39	OVR	0.2	>>>	>>>	15.3	0.6	8.6%
	04/08/11	72.4%	4.1%	>>>	54.3%	4.6%	632,000	150	OVR	54	OVR	0.8	>>>	>>>	14.4	0.8	N/A
	08/09/11	58.3%	11.4%	OVR	56.9%	10.2%	OVR	175.9	605	68	OVR	0	OVR	OVR	14.9	1	N/A
VMP-25-31	03/15/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/08/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/09/11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

1. November 2009 Sampling and the June 2010 Supplemental utilized a MultiRAE IR for CO2 readings. Any CO2 over 5% resulted in a "OVR" reading. No direct CH4 or secondary LEL and O2 readings were collected.
2. Flame ionization detection (FID) was not used during the November 2009 Sampling or the June 2010 Supplemental.
3. OVR is used to indicate a reading over range for the FID or MultiRAE.
4. The Landtec landfill gas analyzer displays ">>>" for any results calculated higher than 99.9% for an individual reading.
5. N/A is used to indicate that a reading was not collected because it was unnecessary (i.e., a direct port for helium if the helium leak check was successful).
6. NS is used to indicate that a reading was not collected because the port could not be sampled.
7. FID readings were taken with a TVA-1000. Due to oxygen concentrations less than 16% a dilution tip was used when analyzing samples. The dilution tip introduced ambient air in a 10:1 ration with the sample, which required the sample readings to be multiplied by 10 to get the actual reading. The FID readings in this spreadsheet illustrate the actual FID values that were represented in each sample.



Roxana Soil Vapor Quarterly – 3rd Quarter 2011 Data Review

Laboratory SDG: 1107464A, B

Data Reviewer: Steve Gragert

Peer Reviewer: Jeff Aust

Date Reviewed: 8/24/2011

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
VMP-20-5-072511	VMP-21-25-072611
VMP-20-10-072511	VMP-22-5-072611
VMP-20-25-072511	VMP-22-10-072611
VMP-21-5-072511	VMP-22-10-072611-DUP
VMP-21-10-072511	VMP-22-18-072611

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated TO-15 LCS and CCV recoveries were outside evaluation criteria. Samples VMP-20-25-072611, VMP-21-25-072611, and VMP-22-18-072611 were diluted due to high levels of target analytes. Samples VMP-21-25-072611 and VMP-22-18-072611 were diluted and re-analyzed to bring the highest level compounds within calibration range of the instrument. Results for the highest level compounds were reported from the re-analysis runs and the remaining compounds were reported from the original analyses. Although not indicated in the laboratory case narrative, analytes were detected in the method blank. These issues are addressed further in the appropriate sections below.

No issues or discrepancies were noted in the cooler receipt form.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1107464A-11A	TO-15	Bromomethane	0.28 ppbv / 1.1 µg/m ³
1107464A-11A	TO-15	Carbon disulfide	0.55 ppbv / 0.17 µg/m ³
1107464A-11A	TO-15	Methylene chloride	0.11 ppbv / 0.40 µg/m ³
1107464A-11A	TO-15	1,2-Dichloroethane	0.12 ppbv / 0.48 µg/m ³
1107464A-11A	TO-15	cis-1,3-Dichloropropane	0.088 ppbv / 0.40 µg/m ³
1107464A-11A	TO-15	Toluene	0.087 ppbv / 0.33 µg/m ³
1107464A-11A	TO-15	trans-1,3-Dichloropropene	0.22 ppbv / 1.0 µg/m ³
1107464A-11A	TO-15	Tetrachloroethene	0.10 ppbv / 0.69 µg/m ³
1107464A-11A	TO-15	Dibromochloromethane	0.079 ppbv / 0.67 µg/m ³
1107464A-11A	TO-15	1,2-Dibromoethane (EDB)	0.15 ppbv / 1.1 µg/m ³
1107464A-11A	TO-15	Chlorobenzene	0.14 ppbv / 0.63 µg/m ³
1107464A-11A	TO-15	m,p-Xylene	0.14 ppbv / 0.59 µg/m ³
1107464A-11A	TO-15	Styrene	0.098 ppbv / 0.42 µg/m ³
1107464A-11A	TO-15	Bromoform	0.081 ppbv / 0.84 µg/m ³
1107464A-11A	TO-15	Cumene	0.12 ppbv / 0.61 µg/m ³
1107464A-11A	TO-15	1,1,2,2-Tetrachloroethane	0.13 ppbv / 0.90 µg/m ³
1107464A-11A	TO-15	Propylbenzene	0.13 ppbv / 0.66 µg/m ³
1107464A-11A	TO-15	1,3,5-Trimethylbenzene	0.23 ppbv / 1.1 µg/m ³
1107464A-11A	TO-15	1,2,4-Trimethylbenzene	0.17 ppbv / 0.82 µg/m ³
1107464A-11A	TO-15	1,3,5-Trimethylbenzene	0.27 ppbv / 1.6 µg/m ³
1107464A-11A	TO-15	1,4-Dichlorobenzene	0.26 ppbv / 1.6 µg/m ³
1107464A-11A	TO-15	alpha-Chlorotoluene	0.18 ppbv / 0.94 µg/m ³
1107464A-11A	TO-15	1,2-Dichlorobenzene	0.25 ppbv / 1.5 µg/m ³
1107464A-11A	TO-15	1,2,4-Trichlorobenzene	0.78 ppbv / 5.8 µg/m ³
1107464A-11A	TO-15	Hexachlorobutadiene	0.43 ppbv / 4.6 µg/m ³
1107464A-11B	Natural gases	Nitrogen	0.048 %

Qualifications due to blank contamination are included in the table below. Analytical data reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Sample ID	Parameter	Analyte	New RL	Qualification
VMP-20-5-072511	TO-15	trans-1,3-Dichloropropene	-	U
VMP-20-5-072511	TO-15	1,2-Dibromoethane (EDB)	-	U
VMP-20-5-072511	TO-15	m,p-Xylene	-	U
VMP-20-5-072511	TO-15	Styrene	-	U
VMP-20-5-072511	TO-15	1,4-Dichlorobenzene	-	U
VMP-20-5-072511	TO-15	1,2,4-Trimethylbenzene	-	U
VMP-20-10-072511	TO-15	Carbon disulfide	-	U
VMP-20-10-072511	TO-15	Methylene chloride	-	U
VMP-20-10-072511	TO-15	trans-1,3-Dichloropropene	-	U
VMP-21-5-072511	TO-15	Carbon disulfide	-	U
VMP-21-5-072511	TO-15	Methylene chloride	-	U
VMP-21-5-072511	TO-15	trans-1,3-Dichloropropene	-	U

Sample ID	Parameter	Analyte	New RL	Qualification
VMP-21-5-072511	TO-15	Chlorobenzene	-	U
VMP-21-5-072511	TO-15	Propylbenzene	-	U
VMP-21-5-072511	TO-15	1,4-Dichlorobenzene	-	U
VMP-21-5-072511	TO-15	1,2,4-Trimethylbenzene	-	U
VMP-21-10-072511	TO-15	Bromomethane	-	U
VMP-21-10-072511	TO-15	Carbon disulfide	-	U
VMP-21-10-072511	TO-15	trans-1,3-Dichloropropene	-	U
VMP-21-10-072511	TO-15	1,2-Dibromoethane (EDB)	-	U
VMP-21-10-072511	TO-15	Chlorobenzene	-	U
VMP-21-10-072511	TO-15	Styrene	-	U
VMP-21-10-072511	TO-15	1,2,4-Trimethylbenzene	-	U
VMP-21-10-072511	TO-15	1,4-Dichlorobenzene	-	U
VMP-21-10-072511	TO-15	1,2-Dichlorobenzene	-	U
VMP-22-5-072611	TO-15	Bromomethane	-	U
VMP-22-5-072611	TO-15	Carbon disulfide	-	U
VMP-22-5-072611	TO-15	1,2-Dichloroethane	-	U
VMP-22-5-072611	TO-15	trans-1,3-Dichloropropene	-	U
VMP-22-5-072611	TO-15	Tetrachloroethene	-	U
VMP-22-5-072611	TO-15	1,2-Dibromoethane (EDB)	-	U
VMP-22-5-072611	TO-15	Chlorobenzene	-	U
VMP-22-5-072611	TO-15	Styrene	-	U
VMP-22-5-072611	TO-15	1,3,5-Trimethylbenzene	-	U
VMP-22-5-072611	TO-15	1,2,4-Trimethylbenzene	-	U
VMP-22-5-072611	TO-15	1,4-Dichlorobenzene	-	U
VMP-22-5-072611	TO-15	1,2-Dichlorobenzene	-	U
VMP-22-5-072611	TO-15	1,2,4-Trichlorobenzene	-	U
VMP-22-5-072611	TO-15	Hexachlorobutadiene	-	U
VMP-22-10-072611	TO-15	Bromomethane	-	U
VMP-22-10-072611	TO-15	Carbon disulfide	-	U
VMP-22-10-072611	TO-15	Methylene chloride	-	U
VMP-22-10-072611	TO-15	trans-1,3-Dichloropropene	-	U
VMP-22-10-072611	TO-15	Tetrachloroethene	-	U
VMP-22-10-072611	TO-15	1,2-Dibromoethane (EDB)	-	U
VMP-22-10-072611	TO-15	Chlorobenzene	-	U
VMP-22-10-072611	TO-15	1,3,5-Trimethylbenzene	-	U
VMP-22-10-072611	TO-15	1,2,4-Trimethylbenzene	-	U
VMP-22-10-072611	TO-15	1,4-Dichlorobenzene	-	U
VMP-22-10-072611	TO-15	1,2-Dichlorobenzene	-	U
VMP-22-10-072611	TO-15	1,2,4-Trichlorobenzene	-	U
VMP-22-10-072611-DUP	TO-15	Carbon disulfide	-	U
VMP-22-10-072611-DUP	TO-15	Methylene chloride	-	U
VMP-22-10-072611-DUP	TO-15	Tetrachloroethene	-	U
VMP-22-10-072611-DUP	TO-15	1,2-Dibromoethane (EDB)	-	U

Sample ID	Parameter	Analyte	New RL	Qualification
VMP-22-10-072611-DUP	TO-15	Chlorobenzene	-	U
VMP-22-10-072611-DUP	TO-15	1,2,4-Trimethylbenzene	-	U
VMP-22-10-072611-DUP	TO-15	1,4-Dichlorobenzene	-	U
VMP-22-10-072611-DUP	TO-15	1,2-Dichlorobenzene	-	U
VMP-22-10-072611-DUP	TO-15	1,2,4-Trichlorobenzene	-	U

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	LCS/LCSD Criteria
1107464-13B/BB	TO-15	Tetrachloroethene	69/69	70-130
1107464-13B/BB	TO-15	2-Hexanone	58/59	70-130
1107464-13B/BB	TO-15	alpha-Chlorotoluene	56/58	70-130
1107464-13B/BB	TO-15	trans-1,3-Dichloropropene	70/69	70-130

Analytical data that required qualification based on LCS data are included in the table below.

Field ID	Parameter	Analyte	Qualification
VMP-20-5-072511	TO-15	Tetrachloroethene	UJ
VMP-20-5-072511	TO-15	2-Hexanone	UJ
VMP-20-5-072511	TO-15	alpha-Chlorotoluene	UJ
VMP-20-5-072511	TO-15	trans-1,3-Dichloropropene	UJ
VMP-20-10-072511	TO-15	Tetrachloroethene	UJ
VMP-20-10-072511	TO-15	2-Hexanone	UJ
VMP-20-10-072511	TO-15	alpha-Chlorotoluene	UJ
VMP-20-10-072511	TO-15	trans-1,3-Dichloropropene	UJ
VMP-20-25-072511	TO-15	Tetrachloroethene	UJ
VMP-20-25-072511	TO-15	2-Hexanone	UJ
VMP-20-25-072511	TO-15	alpha-Chlorotoluene	UJ
VMP-20-25-072511	TO-15	trans-1,3-Dichloropropene	UJ
VMP-21-5-072511	TO-15	Tetrachloroethene	J
VMP-21-5-072511	TO-15	2-Hexanone	J
VMP-21-5-072511	TO-15	alpha-Chlorotoluene	UJ
VMP-21-5-072511	TO-15	trans-1,3-Dichloropropene	UJ
VMP-21-10-072511	TO-15	Tetrachloroethene	J

Field ID	Parameter	Analyte	Qualification
VMP-21-10-072511	TO-15	2-Hexanone	UJ
VMP-21-10-072511	TO-15	alpha-Chlorotoluene	UJ
VMP-21-10-072511	TO-15	trans-1,3-Dichloropropene	UJ
VMP-21-25-072611	TO-15	Tetrachloroethene	UJ
VMP-21-25-072611	TO-15	2-Hexanone	UJ
VMP-21-25-072611	TO-15	alpha-Chlorotoluene	UJ
VMP-21-25-072611	TO-15	trans-1,3-Dichloropropene	UJ
VMP-21-25-072611	TO-15	Tetrachloroethene	UJ
VMP-22-5-072611	TO-15	2-Hexanone	UJ
VMP-22-5-072611	TO-15	alpha-Chlorotoluene	UJ
VMP-22-5-072611	TO-15	trans-1,3-Dichloropropene	UJ
VMP-22-5-072611	TO-15	Tetrachloroethene	UJ
VMP-22-10-072611	TO-15	2-Hexanone	UJ
VMP-22-10-072611	TO-15	alpha-Chlorotoluene	UJ
VMP-22-10-072611	TO-15	trans-1,3-Dichloropropene	UJ
VMP-22-10-072611	TO-15	Tetrachloroethene	UJ
VMP-22-10-072611-DUP	TO-15	2-Hexanone	J
VMP-22-10-072611-DUP	TO-15	alpha-Chlorotoluene	UJ
VMP-22-10-072611-DUP	TO-15	trans-1,3-Dichloropropene	UJ
VMP-22-10-072611-DUP	TO-15	Tetrachloroethene	UJ
VMP-22-18-072611	TO-15	2-Hexanone	UJ
VMP-22-18-072611	TO-15	alpha-Chlorotoluene	UJ
VMP-22-18-072611	TO-15	trans-1,3-Dichloropropene	UJ
VMP-22-18-072611	TO-15	Tetrachloroethene	UJ

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-22-10-072611	VMP-22-10-072611-DUP

Were field duplicates within evaluation criteria?

No

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
VMP-22-10-072611	VMP-22-10-072611-DUP	TO-15	Acetone	109	J/J
VMP-22-10-072611	VMP-22-10-072611-DUP	TO-15	Hexane	200	J/UJ
VMP-22-10-072611	VMP-22-10-072611-DUP	TO-15	2,2,4-Trimethylpentane	82	J/J
VMP-22-10-072611	VMP-22-10-072611-DUP	TO-15	Butane	108	J/J

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

The CCV recovery listed in the table below was above evaluation criteria.

CCV ID	Parameter	Analyte	CCV Recovery	CCV Criteria
CCV 1107464A-12B	TO-15	Vinyl chloride	139	70-130

Data associated with a CCV recovery above evaluation criteria were non-detect; therefore, no qualification of data was required.

8/10/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562593.00009
Workorder #: 1107464A

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 7/27/2011 at Air Toxics Ltd.

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

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

Regards,



Kelly Buettner
Project Manager

Reviewed
on
8/24/2011

WORK ORDER #: 1107464A

Work Order Summary

CLIENT: Mr. Jeff Adams
 URS Corporation
 1001 Highlands Plaza Dr. West
 Suite 300
 St. Louis, MO 63110

BILL TO: Accounts Payable Austin
 URS Corporation
 P.O. BOX 203970
 Austin, TX 78720-1088

PHONE: 314-429-0100

P.O. # 21562593.00007

FAX:

PROJECT # 21562593.00009 Roxana Soil Vapor

DATE RECEIVED: 07/27/2011

CONTACT: Kelly Buettner

DATE COMPLETED: 08/09/2011

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-20-5-072511 ✓	Modified TO-15	8.5 "Hg	15 psi
02A	VMP-20-10-072511 ✓	Modified TO-15	6.5 "Hg	15 psi
03A	VMP-20-25-072611 ✓	Modified TO-15	6.5 "Hg	15 psi
04A	VMP-21-5-072511 ✓	Modified TO-15	8.0 "Hg	15 psi
05A	VMP-21-10-072511 ✓	Modified TO-15	5.0 "Hg	15 psi
06A	VMP-21-25-072611 ✓	Modified TO-15	7.0 "Hg	15 psi
06B	VMP-21-25-072611 ✓	Modified TO-15	7.0 "Hg	15 psi
07A	VMP-22-5-072611 ✓	Modified TO-15	9.5 "Hg	15 psi
08A	VMP-22-10-072611 ✓	Modified TO-15	10.0 "Hg	15 psi
09A	VMP-22-10-072611-DUP —	Modified TO-15	13.0 "Hg	15 psi
10A	VMP-22-18-072611 ✓	Modified TO-15	8.0 "Hg	15 psi
10B	VMP-22-18-072611 ✓	Modified TO-15	8.0 "Hg	15 psi
11A	Lab Blank	Modified TO-15	NA	NA
11B	Lab Blank	Modified TO-15	NA	NA
12A	CCV	Modified TO-15	NA	NA
12B	CCV	Modified TO-15	NA	NA
13A	LCS	Modified TO-15	NA	NA

Continued on next page

WORK ORDER #: 1107464A

Work Order Summary

CLIENT: Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-429-0100

P.O. # 21562593.00007

FAX:

PROJECT # 21562593.00009 Roxana Soil Vapor

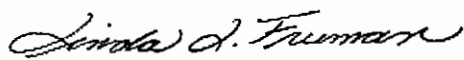
DATE RECEIVED: 07/27/2011

CONTACT: Kelly Buettner

DATE COMPLETED: 08/09/2011

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
13AA	LCSD	Modified TO-15	NA	NA
13B	LCS	Modified TO-15	NA	NA
13BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:



Laboratory Director

DATE: 08/10/11

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,

NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1107464A**

Ten 1 Liter Summa Canister samples were received on July 27, 2011. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

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

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Dilution was performed on samples VMP-20-25-072611, VMP-21-25-072611, and VMP-22-18-072611 due to the presence of high level target species.

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

Due to high-level target compounds, samples VMP-21-25-072611 and VMP-22-18-072611 were analyzed twice. In the "A" fraction, the sample was diluted to bring the highest-level compounds within the calibration range. The "B" fraction is also reported by client request and may be reported with "E" flags indicating the compound exceeds the calibration range. Both runs and associated QC are reported.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

UJ - Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

Client Sample ID: VMP-20-5-072511

Lab ID#: 1107464A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.45 J	7.0	2.2 J
Chloromethane	5.6	1.7 J	12	3.6 J
Freon 11	1.4	0.30 J	7.9	1.7 J
Ethanol	5.6	9.9	11	18
Acetone	5.6	15	13	36
2-Propanol	5.6	13	14	32
Carbon Disulfide	5.6	3.4 J	18	11 J
Hexane	1.4	0.36 J	5.0	1.3 J
2-Butanone (Methyl Ethyl Ketone)	5.6	5.6	17	16
Chloroform	1.4	0.25 J	6.9	1.2 J
2,2,4-Trimethylpentane	1.4	0.93 J	6.6	4.3 J
Benzene	1.4	12	4.5	38
Heptane	1.4	0.21 J	5.8	0.85 J
1,4-Dioxane	5.6	1.4 J	20	5.2 J
4-Methyl-2-pentanone	1.4	26	5.8	110
Toluene	1.4	3.7	5.3	14
trans-1,3-Dichloropropene	1.4	~~0.25 J~~ <i>u5</i>	6.4	~~1.1 J~~ <i>u5</i>
1,2-Dibromoethane (EDB)	1.4	~~0.32 J~~ <i>u</i>	11	~~2.5 J~~ <i>u</i>
Ethyl Benzene	1.4	0.36 J	6.1	1.5 J
m,p-Xylene	1.4	~~0.68 J~~ <i>u</i>	6.1	~~2.9 J~~ <i>u</i>
Styrene	1.4	~~0.31 J~~ <i>u</i>	6.0	~~1.3 J~~ <i>u</i>
Cumene	1.4	5.4	6.9	26
1,2,4-Trimethylbenzene	1.4	~~0.35 J~~ <i>u</i>	6.9	~~4.7 J~~ <i>u</i>
1,3-Dichlorobenzene	1.4	0.22 J	8.5	1.3 J
1,4-Dichlorobenzene	1.4	~~0.31 J~~ <i>u</i>	8.5	~~1.9 J~~ <i>u</i>

Client Sample ID: VMP-20-10-072511

Lab ID#: 1107464A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.50 J	6.4	2.5 J

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

Client Sample ID: VMP-20-10-072511

Lab ID#: 1107464A-02A

Ethanol	5.2	6.9	9.7	13
Acetone	5.2	9.4	12	22
2-Propanol	5.2	10	13	26
Carbon Disulfide	5.2	~~14.1~~ u	16	~~4.3~~ u
Methylene Chloride	1.3	~~0.43~~ u	4.5	~~1.5~~ u
2-Butanone (Methyl Ethyl Ketone)	5.2	6.0	15	18
Chloroform	1.3	0.68 J	6.3	3.3 J
Benzene	1.3	4.6	4.1	15
Heptane	1.3	0.17 J	5.3	0.69 J
Bromodichloromethane	1.3	0.23 J	8.6	1.5 J
4-Methyl-2-pentanone	1.3	30	5.3	120
Toluene	1.3	4.0	4.9	15
trans-1,3-Dichloropropene	1.3	~~0.24~~ u	5.8	~~1.1~~ u
Chlorobenzene	1.3	0.17 J	5.9	0.79 J
Ethyl Benzene	1.3	0.32 J	5.6	1.4 J
m,p-Xylene	1.3	0.87 J	5.6	3.8 J
Styrene	1.3	0.39 J	5.5	1.7 J
Cumene	1.3	5.0	6.3	25
4-Ethyltoluene	1.3	0.48 J	6.3	2.3 J
1,2,4-Trimethylbenzene	1.3	0.51 J	6.3	2.5 J
1,3-Dichlorobenzene	1.3	0.32 J	7.8	1.9 J
1,4-Dichlorobenzene	1.3	0.31 J	7.8	1.8 J
1,2-Dichlorobenzene	1.3	0.23 J	7.8	1.4 J
1,2,4-Trichlorobenzene	5.2	0.58 J	38	4.3 J

Client Sample ID: VMP-20-25-072611

Lab ID#: 1107464A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,2,4-Trimethylpentane	92	73000	430	340000
Benzene	92	58 J	290	180 J
Isopentane	370	130 J	1100	380 J

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

Client Sample ID: VMP-21-5-072511

Lab ID#: 1107464A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.46 J	6.8	2.3 J
Freon 11	1.4	0.22 J	7.8	1.3 J
Ethanol	5.5	9.2	10	17
Acetone	5.5	12	13	29
2-Propanol	5.5	11	14	26
Carbon Disulfide	5.5	1.8 J U	17	5.7 J U
Methylene Chloride	1.4	0.34 J U	4.8	4.2 J U
Hexane	1.4	0.54 J	4.9	1.9 J
2-Butanone (Methyl Ethyl Ketone)	5.5	7.0	16	20
2,2,4-Trimethylpentane	1.4	0.74 J	6.4	3.5 J
Benzene	1.4	5.9	4.4	19
Heptane	1.4	0.61 J	5.6	2.5 J
1,4-Dioxane	5.5	2.1 J	20	7.6 J
4-Methyl-2-pentanone	1.4	42	5.6	170
Toluene	1.4	7.0	5.2	26
trans-1,3-Dichloropropene	1.4	0.23 J U	6.3	1.0 J U
Tetrachloroethene	1.4	0.86 J	9.4	5.8 J
2-Hexanone	5.5	0.83 J U	23	3.4 J U
Chlorobenzene	1.4	0.44 J U	6.4	0.64 J U
Ethyl Benzene	1.4	0.39 J	6.0	1.7 J
m,p-Xylene	1.4	1.0 J	6.0	4.5 J
o-Xylene	1.4	0.33 J	6.0	1.4 J
Styrene	1.4	0.54 J	5.9	2.3 J
Cumene	1.4	8.2	6.8	40
Propylbenzene	1.4	0.18 J U	6.8	0.90 J U
4-Ethyltoluene	1.4	0.37 J	6.8	1.8 J
1,2,4-Trimethylbenzene	1.4	0.65 J U	6.8	3.2 J U
1,3-Dichlorobenzene	1.4	0.22 J	8.3	1.3 J
1,4-Dichlorobenzene	1.4	0.27 J U	8.3	1.6 J U

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

Client Sample ID: VMP-21-10-072511

Lab ID#: 1107464A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.9	0.50 J	14	2.5 J
Bromomethane	2.9	0.99 J U	11	3.8 J U
Freon 11	2.9	0.51 J	16	2.9 J
Ethanol	12	45	22	85
Acetone	12	35	28	83
2-Propanol	12	5.4 J	29	13 J
Carbon Disulfide	12	2.2 J U	36	7.0 J U
Methylene Chloride	2.9	2.7 J	10	9.3 J
Hexane	2.9	1.2 J	10	4.1 J
2-Butanone (Methyl Ethyl Ketone)	12	3.5 J	34	10 J
Benzene	2.9	3.8	9.4	12
Heptane	2.9	2.0 J	12	8.0 J
4-Methyl-2-pentanone	2.9	11	12	45
Toluene	2.9	8.3	11	31
trans-1,3-Dichloropropene	2.9	0.48 J U	13	2.2 J U
Tetrachloroethene	2.9	1.3 J	20	8.7 J
1,2-Dibromoethane (EDB)	2.9	0.68 J U	22	5.2 J U
Chlorobenzene	2.9	0.28 J U	13	4.3 J U
m,p-Xylene	2.9	0.75 J	13	3.3 J
Styrene	2.9	0.44 J U	12	4.9 J U
Cumene	2.9	5.4	14	27
1,2,4-Trimethylbenzene	2.9	0.54 J U	14	2.7 J U
1,3-Dichlorobenzene	2.9	0.56 J	18	3.3 J
1,4-Dichlorobenzene	2.9	0.56 J U	18	3.4 J U
1,2-Dichlorobenzene	2.9	0.40 J U	18	2.4 J U
Isopentane	12	29	34	87

Client Sample ID: VMP-21-25-072611

Lab ID#: 1107464A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

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

Client Sample ID: VMP-21-25-072611

Lab ID#: 1107464A-06A DF = 1060

** Use these results only. All other data was reported from the 264x dilution analysis.*

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	21000	2700 J	52000	6700 J
Hexane	5300	140000	19000	510000
Cyclohexane	5300	63000	18000	220000
2,2,4-Trimethylpentane	5300	230000	25000	1100000
Heptane	5300	37000	22000	150000
* Butane	21000	1800000	50000	4200000
* Isopentane	21000	2800000	62000	8200000

Client Sample ID: VMP-21-25-072611

Lab ID#: 1107464A-06B DF = 264

** Do not use this data. Use all other data.*

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1300	190000	4600	680000
Cyclohexane	1300	84000	4500	290000
2,2,4-Trimethylpentane	1300	320000	6200	1500000
Benzene	1300	400 J	4200	1300 J
Heptane	1300	57000	5400	230000
* Butane	5300	2000000 E	12000	4000000 E
* Isopentane	5300	3000000 E	16000	11000000 E

Client Sample ID: VMP-22-5-072611

Lab ID#: 1107464A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.46 J	7.3	2.3 J
Bromomethane	1.5	0.54 J U	5.7	2.1 J U
Ethanol	5.9	15	11	29
Acetone	5.9	11	14	26
2-Propanol	5.9	16	14	40
Carbon Disulfide	5.9	2.0 J U	18	6.3 J U
Methylene Chloride	1.5	0.63 J	5.1	2.2 J

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

Client Sample ID: VMP-22-5-072611

Lab ID#: 1107464A-07A

Hexane	1.5	17	5.2	59
2-Butanone (Methyl Ethyl Ketone)	5.9	5.8 J	17	17 J
Cyclohexane	1.5	6.2	5.1	21
2,2,4-Trimethylpentane	1.5	27	6.9	130
Benzene	1.5	37	4.7	120
1,2-Dichloroethane	1.5	0.33 J U	6.0	1.3 J U
Heptane	1.5	4.1	6.1	17
4-Methyl-2-pentanone	1.5	30	6.1	120
Toluene	1.5	4.4	5.6	16
trans-1,3-Dichloropropene	1.5	0.47 J U	6.7	2.1 J U
Tetrachloroethene	1.5	0.31 J U	10	2.1 J U
1,2-Dibromoethane (EDB)	1.5	0.48 J U	11	3.7 J U
Chlorobenzene	1.5	0.23 J U	6.8	1.0 J U
Ethyl Benzene	1.5	0.51 J	6.4	2.2 J
m,p-Xylene	1.5	1.3 J	6.4	5.6 J
o-Xylene	1.5	0.45 J	6.4	2.0 J
Styrene	1.5	0.45 J U	6.3	1.9 J U
Cumene	1.5	4.7	7.3	23
Propylbenzene	1.5	0.32 J	7.3	1.6 J
1,3,5-Trimethylbenzene	1.5	0.03 J U	7.3	0.4 J U
1,2,4-Trimethylbenzene	1.5	0.88 J U	7.3	4.3 J U
1,3-Dichlorobenzene	1.5	0.55 J	8.9	3.3 J
1,4-Dichlorobenzene	1.5	0.75 J U	8.9	4.5 J U
1,2-Dichlorobenzene	1.5	0.45 J U	8.9	2.7 J U
1,2,4-Trichlorobenzene	5.9	1.4 J U	44	14 J U
Hexachlorobutadiene	5.9	0.73 J U	63	7.8 J U
Butane	5.9	92	14	220
Isopentane	5.9	230	17	670

Client Sample ID: VMP-22-10-072611

Lab ID#: 1107464A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

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

Client Sample ID: VMP-22-10-072611

Lab ID#: 1107464A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.47 J	7.5	2.3 J
Bromomethane	1.5	~~0.84~~ J U	5.9	~~2.5~~ J U
Ethanol	6.1	30	11	56
Acetone	6.1	6.5	14	15
2-Propanol	6.1	6.4	15	16
Carbon Disulfide	6.1	~~1.6~~ J U	19	~~5.0~~ J U
Methylene Chloride	1.5	~~0.37~~ J U	5.3	~~1.1~~ J U
2-Butanone (Methyl Ethyl Ketone)	6.1	3.8 J	18	11 J
Chloroform	1.5	2.4	7.4	12
Cyclohexane	1.5	1.3 J	5.2	4.6 J
2,2,4-Trimethylpentane	1.5	4.6	7.1	22
Benzene	1.5	9.4	4.8	30
Heptane	1.5	1.2 J	6.2	5.1 J
4-Methyl-2-pentanone	1.5	19	6.2	79
Toluene	1.5	3.4	5.7	13
trans-1,3-Dichloropropene	1.5	~~0.42~~ J U	6.9	~~1.9~~ J U
Tetrachloroethene	1.5	~~0.28~~ J U	10	~~1.9~~ J U
1,2-Dibromoethane (EDB)	1.5	~~0.46~~ J U	12	~~3.6~~ J U
Chlorobenzene	1.5	~~0.21~~ J U	7.0	~~0.98~~ J U
Ethyl Benzene	1.5	0.39 J	6.6	1.7 J
m,p-Xylene	1.5	0.91 J	6.6	3.9 J
Styrene	1.5	0.68 J	6.4	2.9 J
Cumene	1.5	5.4	7.4	27
Propylbenzene	1.5	0.21 J	7.4	1.0 J
1,3,5-Trimethylbenzene	1.5	~~0.33~~ J U	7.4	~~1.6~~ J U
1,2,4-Trimethylbenzene	1.5	~~0.64~~ J U	7.4	~~3.1~~ J U
1,3-Dichlorobenzene	1.5	0.46 J	9.1	2.8 J
1,4-Dichlorobenzene	1.5	~~0.57~~ J U	9.1	~~3.4~~ J U
1,2-Dichlorobenzene	1.5	~~0.32~~ J U	9.1	~~1.9~~ J U
1,2,4-Trichlorobenzene	6.1	~~0.95~~ J U	45	~~6.9~~ J U
Butane	6.1	7.5	14	18
Isopentane	6.1	18	18	53

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

Client Sample ID: VMP-22-10-072611-DUP

Lab ID#: 1107464A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.8	0.38 J	8.8	1.9 J
Ethanol	7.1	20	13	39
Acetone	7.1	22	17	52
2-Propanol	7.1	7.3	17	18
Carbon Disulfide	7.1	~~1.6 J~~ u	22	~~5.1 J~~ u
Methylene Chloride	1.8	~~0.33 J~~ u	6.2	~~1.2 J~~ u
Hexane	1.8	6.3	6.3	22
2-Butanone (Methyl Ethyl Ketone)	7.1	7.9	21	23
Chloroform	1.8	2.4	8.7	12
Cyclohexane	1.8	1.8	6.1	6.3
2,2,4-Trimethylpentane	1.8	11	8.3	51
Benzene	1.8	9.5	5.7	30
4-Methyl-2-pentanone	1.8	20	7.3	84
Toluene	1.8	3.3	6.7	12
trans-1,3-Dichloropropene	1.8	~~0.32 J~~ u	8.1	~~1.5 J~~ u
2-Hexanone	7.1	1.4 J	29	5.7 J
1,2-Dibromoethane (EDB)	1.8	0.40 J	14	3.1 J
Chlorobenzene	1.8	0.22 J	8.2	0.99 J
Ethyl Benzene	1.8	0.39 J	7.7	1.7 J
m,p-Xylene	1.8	0.78 J	7.7	3.4 J
Styrene	1.8	0.65 J	7.6	2.8 J
Cumene	1.8	5.2	8.8	25
Propylbenzene	1.8	0.24 J	8.8	1.2 J
4-Ethyltoluene	1.8	0.54 J	8.8	2.7 J
1,2,4-Trimethylbenzene	1.8	0.71 J	8.8	3.5 J
1,3-Dichlorobenzene	1.8	0.45 J	11	2.7 J
1,4-Dichlorobenzene	1.8	0.52 J	11	3.2 J
1,2-Dichlorobenzene	1.8	0.33 J	11	2.0 J
1,2,4-Trichlorobenzene	7.1	0.87 J	53	6.5 J
Butane	7.1	25	17	59
Isopentane	7.1	59	21	170

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

Client Sample ID: VMP-22-18-072611 **Use these results only. All other data was reported from
Lab ID#: 1107464A-10A DF=138 the 92.0x dilution analysis.*

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	690	6600	2400	23000
Cyclohexane	690	10000	2400	34000
2,2,4-Trimethylpentane	690	63000	3200	300000
Butane	2800	180000	6600	420000
* Isopentane	2800	430000	8100	1300000

Client Sample ID: VMP-22-18-072611 **Do not use this data. Use all other data.*
Lab ID#: 1107464A-10B DF=92.0

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	460	7400	1600	26000
Cyclohexane	460	11000	1600	39000
2,2,4-Trimethylpentane	460	72000	2100	340000
Benzene	460	130 J	1500	420 J
Butane	1800	200000	4400	470000
* ~~Isopentane~~	~~1800~~	~~490000 E~~	~~5400~~	~~1400000 E~~

Client Sample ID: VMP-20-5-072511

Lab ID#: 1107464A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p080130	Date of Collection: 7/25/11 10:20:00 AM
Dil. Factor:	2.82	Date of Analysis: 8/2/11 07:35 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.45 J	7.0	2.2 J
Freon 114	1.4	Not Detected	9.8	Not Detected
Chloromethane	5.6	1.7 J	12	3.6 J
Vinyl Chloride	1.4	Not Detected	3.6	Not Detected
1,3-Butadiene	1.4	Not Detected	3.1	Not Detected
Bromomethane	1.4	Not Detected	5.5	Not Detected
Chloroethane	5.6	Not Detected	15	Not Detected
Freon 11	1.4	0.30 J	7.9	1.7 J
Ethanol	5.6	9.9	11	18
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Acetone	5.6	15	13	36
2-Propanol	5.6	13	14	32
Carbon Disulfide	5.6	3.4 J	18	11 J
3-Chloropropene	5.6	Not Detected	18	Not Detected
Methylene Chloride	1.4	Not Detected	4.9	Not Detected
Methyl tert-butyl ether	1.4	Not Detected	5.1	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Hexane	1.4	0.36 J	5.0	1.3 J
1,1-Dichloroethane	1.4	Not Detected	5.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.6	5.6	17	16
cis-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.2	Not Detected
Chloroform	1.4	0.25 J	6.9	1.2 J
1,1,1-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Cyclohexane	1.4	Not Detected	4.8	Not Detected
Carbon Tetrachloride	1.4	Not Detected	8.9	Not Detected
2,2,4-Trimethylpentane	1.4	0.93 J	6.6	4.3 J
Benzene	1.4	12	4.5	38
1,2-Dichloroethane	1.4	Not Detected	5.7	Not Detected
Heptane	1.4	0.21 J	5.8	0.85 J
Trichloroethene	1.4	Not Detected	7.6	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.5	Not Detected
1,4-Dioxane	5.6	1.4 J	20	5.2 J
Bromodichloromethane	1.4	Not Detected	9.4	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
4-Methyl-2-pentanone	1.4	26	5.8	110
Toluene	1.4	3.7	5.3	14
trans-1,3-Dichloropropene	1.4	0.25 J <i>us</i>	6.4	1.1 J <i>us</i>
1,1,2-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Tetrachloroethene	1.4	Not Detected <i>us</i>	9.6	Not Detected <i>us</i>

Client Sample ID: VMP-20-5-072511

Lab ID#: 1107464A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p080130	Date of Collection: 7/25/11 10:20:00 AM
Dil. Factor:	2.82	Date of Analysis: 8/2/11 07:35 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.6	Not Detected <i>WS</i>	23	Not Detected <i>WS</i>
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	~~0.32~~ <i>u</i>	11	~~2.5~~ <i>u</i>
Chlorobenzene	1.4	Not Detected	6.5	Not Detected
Ethyl Benzene	1.4	0.36 <i>J</i>	6.1	1.5 <i>J</i>
m,p-Xylene	1.4	~~0.68~~ <i>u</i>	6.1	~~2.9~~ <i>u</i>
o-Xylene	1.4	Not Detected	6.1	Not Detected
Styrene	1.4	~~0.31~~ <i>u</i>	6.0	~~4.3~~ <i>u</i>
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	5.4	6.9	26
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.7	Not Detected
Propylbenzene	1.4	Not Detected	6.9	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.9	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.9	Not Detected
1,2,4-Trimethylbenzene	1.4	~~0.35~~ <i>u</i>	6.9	~~4.7~~ <i>u</i>
1,3-Dichlorobenzene	1.4	<i>5.1</i> ~~0.22~~ <i>u</i>	8.5	1.3 <i>J</i>
1,4-Dichlorobenzene	1.4	~~0.31~~ <i>u</i>	8.5	~~1.9~~ <i>u</i>
alpha-Chlorotoluene	1.4	Not Detected <i>WS</i>	7.3	Not Detected <i>WS</i>
1,2-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
1,2,4-Trichlorobenzene	5.6	Not Detected	42	Not Detected
Hexachlorobutadiene	5.6	Not Detected	60	Not Detected
Butane	5.6	Not Detected	13	Not Detected
Isopentane	5.6	Not Detected	17	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: VMP-20-10-072511

Lab ID#: 1107464A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p080129	Date of Collection:	7/25/11 11:33:00 AM
Dil. Factor:	2.58	Date of Analysis:	8/2/11 06:38 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.50 J	6.4	2.5 J
Freon 114	1.3	Not Detected	9.0	Not Detected
Chloromethane	5.2	Not Detected	11	Not Detected
Vinyl Chloride	1.3	Not Detected	3.3	Not Detected
1,3-Butadiene	1.3	Not Detected	2.8	Not Detected
Bromomethane	1.3	Not Detected	5.0	Not Detected
Chloroethane	5.2	Not Detected	14	Not Detected
Freon 11	1.3	Not Detected	7.2	Not Detected
Ethanol	5.2	6.9	9.7	13
Freon 113	1.3	Not Detected	9.9	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.1	Not Detected
Acetone	5.2	9.4	12	22
2-Propanol	5.2	10	13	26
Carbon Disulfide	5.2	4.4 J U	16	4.3 J U
3-Chloropropene	5.2	Not Detected	16	Not Detected
Methylene Chloride	1.3	0.43 J U	4.5	1.5 J U
Methyl tert-butyl ether	1.3	Not Detected	4.6	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.1	Not Detected
Hexane	1.3	Not Detected	4.5	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.2	6.0	15	18
cis-1,2-Dichloroethene	1.3	Not Detected	5.1	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.8	Not Detected
Chloroform	1.3	0.68 J	6.3	3.3 J
1,1,1-Trichloroethane	1.3	Not Detected	7.0	Not Detected
Cyclohexane	1.3	Not Detected	4.4	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.1	Not Detected
2,2,4-Trimethylpentane	1.3	Not Detected	6.0	Not Detected
Benzene	1.3	4.6	4.1	15
1,2-Dichloroethane	1.3	Not Detected	5.2	Not Detected
Heptane	1.3	0.17 J	5.3	0.69 J
Trichloroethene	1.3	Not Detected	6.9	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.0	Not Detected
1,4-Dioxane	5.2	Not Detected	18	Not Detected
Bromodichloromethane	1.3	0.23 J	8.6	1.5 J
cis-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
4-Methyl-2-pentanone	1.3	30	5.3	120
Toluene	1.3	4.0	4.9	15
trans-1,3-Dichloropropene	1.3	0.24 J U	5.8	1.1 J U
1,1,2-Trichloroethane	1.3	Not Detected	7.0	Not Detected
Tetrachloroethene	1.3	Not Detected U	8.8	Not Detected U

Client Sample ID: VMP-20-10-072511

Lab ID#: 1107464A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p080129	Date of Collection: 7/25/11 11:33:00 AM
Dil. Factor:	2.58	Date of Analysis: 8/2/11 06:38 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.2	Not Detected	21	Not Detected
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.9	Not Detected
Chlorobenzene	1.3	0.17 J	5.9	0.79 J
Ethyl Benzene	1.3	0.32 J	5.6	1.4 J
m,p-Xylene	1.3	0.87 J	5.6	3.8 J
o-Xylene	1.3	Not Detected	5.6	Not Detected
Styrene	1.3	0.39 J	5.5	1.7 J
Bromoform	1.3	Not Detected	13	Not Detected
Cumene	1.3	5.0	6.3	25
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.8	Not Detected
Propylbenzene	1.3	Not Detected	6.3	Not Detected
4-Ethyltoluene	1.3	0.48 J	6.3	2.3 J
1,3,5-Trimethylbenzene	1.3	Not Detected	6.3	Not Detected
1,2,4-Trimethylbenzene	1.3	0.51 J	6.3	2.5 J
1,3-Dichlorobenzene	1.3	0.32 J	7.8	1.9 J
1,4-Dichlorobenzene	1.3	0.31 J	7.8	1.8 J
alpha-Chlorotoluene	1.3	Not Detected	6.7	Not Detected
1,2-Dichlorobenzene	1.3	0.23 J	7.8	1.4 J
1,2,4-Trichlorobenzene	5.2	0.58 J	38	4.3 J
Hexachlorobutadiene	5.2	Not Detected	55	Not Detected
Butane	5.2	Not Detected	12	Not Detected
Isopentane	5.2	Not Detected	15	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: VMP-20-25-072611

Lab ID#: 1107464A-03A

EPA METHOD TO-15 GC/MS

File Name:	14080312	Date of Collection: 7/26/11 4:50:00 PM
Dil. Factor:	18.4	Date of Analysis: 8/3/11 07:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	92	Not Detected	450	Not Detected
Freon 114	92	Not Detected	640	Not Detected
Chloromethane	370	Not Detected	760	Not Detected
Vinyl Chloride	92	Not Detected	240	Not Detected
1,3-Butadiene	92	Not Detected	200	Not Detected
Bromomethane	92	Not Detected	360	Not Detected
Chloroethane	370	Not Detected	970	Not Detected
Freon 11	92	Not Detected	520	Not Detected
Ethanol	370	Not Detected	690	Not Detected
Freon 113	92	Not Detected	700	Not Detected
1,1-Dichloroethene	92	Not Detected	360	Not Detected
Acetone	370	Not Detected	870	Not Detected
2-Propanol	370	Not Detected	900	Not Detected
Carbon Disulfide	92	Not Detected	290	Not Detected
3-Chloropropene	370	Not Detected	1200	Not Detected
Methylene Chloride	92	Not Detected	320	Not Detected
Methyl tert-butyl ether	92	Not Detected	330	Not Detected
trans-1,2-Dichloroethene	92	Not Detected	360	Not Detected
Hexane	92	Not Detected	320	Not Detected
1,1-Dichloroethane	92	Not Detected	370	Not Detected
2-Butanone (Methyl Ethyl Ketone)	370	Not Detected	1100	Not Detected
cis-1,2-Dichloroethene	92	Not Detected	360	Not Detected
Tetrahydrofuran	92	Not Detected	270	Not Detected
Chloroform	92	Not Detected	450	Not Detected
1,1,1-Trichloroethane	92	Not Detected	500	Not Detected
Cyclohexane	92	Not Detected	320	Not Detected
Carbon Tetrachloride	92	Not Detected	580	Not Detected
2,2,4-Trimethylpentane	92	73000	430	340000
Benzene	92	58 J	290	180 J
1,2-Dichloroethane	92	Not Detected	370	Not Detected
Heptane	92	Not Detected	380	Not Detected
Trichloroethene	92	Not Detected	490	Not Detected
1,2-Dichloropropane	92	Not Detected	420	Not Detected
1,4-Dioxane	370	Not Detected	1300	Not Detected
Bromodichloromethane	92	Not Detected	620	Not Detected
cis-1,3-Dichloropropene	92	Not Detected	420	Not Detected
4-Methyl-2-pentanone	92	Not Detected	380	Not Detected
Toluene	92	Not Detected	350	Not Detected
trans-1,3-Dichloropropene	92	Not Detected	420	Not Detected
1,1,2-Trichloroethane	92	Not Detected	500	Not Detected
Tetrachloroethene	92	Not Detected	620	Not Detected

Client Sample ID: VMP-20-25-072611

Lab ID#: 1107464A-03A

EPA METHOD TO-15 GC/MS

File Name:	14080312	Date of Collection: 7/26/11 4:50:00 PM
Dil. Factor:	18.4	Date of Analysis: 8/3/11 07:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	370	Not Detected <i>US</i>	1500 <i>US</i>	Not Detected <i>US</i>
Dibromochloromethane	92	Not Detected	780	Not Detected
1,2-Dibromoethane (EDB)	92	Not Detected	710	Not Detected
Chlorobenzene	92	Not Detected	420	Not Detected
Ethyl Benzene	92	Not Detected	400	Not Detected
m,p-Xylene	92	Not Detected	400	Not Detected
o-Xylene	92	Not Detected	400	Not Detected
Styrene	92	Not Detected	390	Not Detected
Bromoform	92	Not Detected	950	Not Detected
Cumene	92	Not Detected	450	Not Detected
1,1,2,2-Tetrachloroethane	92	Not Detected	630	Not Detected
Propylbenzene	92	Not Detected	450	Not Detected
4-Ethyltoluene	92	Not Detected	450	Not Detected
1,3,5-Trimethylbenzene	92	Not Detected	450	Not Detected
1,2,4-Trimethylbenzene	92	Not Detected	450	Not Detected
1,3-Dichlorobenzene	92	Not Detected	550	Not Detected
1,4-Dichlorobenzene	92	Not Detected	550	Not Detected
alpha-Chlorotoluene	92	Not Detected <i>US</i>	480	Not Detected <i>US</i>
1,2-Dichlorobenzene	92	Not Detected	550	Not Detected
1,2,4-Trichlorobenzene	370	Not Detected	2700	Not Detected
Hexachlorobutadiene	370	Not Detected	3900	Not Detected
Butane	370	Not Detected	870	Not Detected
Isopentane	370	130 J	1100	380 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	125	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	85	70-130

Client Sample ID: VMP-21-5-072511

Lab ID#: 1107464A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p080127	Date of Collection:	7/25/11 2:33:00 PM	
Dil. Factor:	2.76	Date of Analysis:	8/1/11 10:42 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.46 J	6.8	2.3 J
Freon 114	1.4	Not Detected	9.6	Not Detected
Chloromethane	5.5	Not Detected	11	Not Detected
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	1.4	Not Detected	5.4	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	0.22 J	7.8	1.3 J
Ethanol	5.5	9.2	10	17
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	5.5	12	13	29
2-Propanol	5.5	11	14	26
Carbon Disulfide	5.5	4.8 J U	17	5.7 J U
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	1.4	0.34 J U	4.8	4.2 J U
Methyl tert-butyl ether	1.4	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	0.54 J	4.9	1.9 J
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	7.0	16	20
cis-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.1	Not Detected
Chloroform	1.4	Not Detected	6.7	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	Not Detected	4.8	Not Detected
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	0.74 J	6.4	3.5 J
Benzene	1.4	5.9	4.4	19
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	0.61 J	5.6	2.5 J
Trichloroethene	1.4	Not Detected	7.4	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	2.1 J	20	7.6 J
Bromodichloromethane	1.4	Not Detected	9.2	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	42	5.6	170
Toluene	1.4	7.0	5.2	26
trans-1,3-Dichloropropene	1.4	0.23 J US	6.3	4.0 J US
1,1,2-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Tetrachloroethene	1.4	0.86 J J	9.4	5.8 J J

Client Sample ID: VMP-21-5-072511

Lab ID#: 1107464A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p080127	Date of Collection:	7/25/11 2:33:00 PM	
DIL. Factor:	2.76	Date of Analysis:	8/1/11 10:42 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.5	0.83 J J	23	3.4 J J
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	0.44 J U	6.4	0.64 J U
Ethyl Benzene	1.4	0.39 J	6.0	1.7 J
m,p-Xylene	1.4	1.0 J	6.0	4.5 J
o-Xylene	1.4	0.33 J	6.0	1.4 J
Styrene	1.4	0.54 J	5.9	2.3 J
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	8.2	6.8	40
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	0.18 J U	6.8	0.90 J U
4-Ethyltoluene	1.4	0.37 J	6.8	1.8 J
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	0.65 J U	6.8	3.2 J U
1,3-Dichlorobenzene	1.4	0.22 J	8.3	1.3 J
1,4-Dichlorobenzene	1.4	0.27 J U	8.3	1.6 J U
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	5.5	Not Detected	41	Not Detected
Hexachlorobutadiene	5.5	Not Detected	59	Not Detected
Butane	5.5	Not Detected	13	Not Detected
Isopentane	5.5	Not Detected	16	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: VMP-21-10-072511

Lab ID#: 1107464A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: p080125 Date of Collection: 7/25/11 3:44:00 PM
Dil. Factor: 5.86 Date of Analysis: 8/1/11 09:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.9	0.50 J	14	2.5 J
Freon 114	2.9	Not Detected	20	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	2.9	Not Detected	7.5	Not Detected
1,3-Butadiene	2.9	Not Detected	6.5	Not Detected
Bromomethane	2.9	~~0.99 J~~ u	11	~~3.8 J~~ u
Chloroethane	12	Not Detected	31	Not Detected
Freon 11	2.9	0.51 J	16	2.9 J
Ethanol	12	45	22	85
Freon 113	2.9	Not Detected	22	Not Detected
1,1-Dichloroethene	2.9	Not Detected	12	Not Detected
Acetone	12	35	28	83
2-Propanol	12	5.4 J	29	13 J
Carbon Disulfide	12	~~2.2 J~~ u	36	~~7.0 J~~ u
3-Chloropropene	12	Not Detected	37	Not Detected
Methylene Chloride	2.9	2.7 J	10	9.3 J
Methyl tert-butyl ether	2.9	Not Detected	10	Not Detected
trans-1,2-Dichloroethene	2.9	Not Detected	12	Not Detected
Hexane	2.9	1.2 J	10	4.1 J
1,1-Dichloroethane	2.9	Not Detected	12	Not Detected
2-Butanone (Methyl Ethyl Ketone)	12	3.5 J	34	10 J
cis-1,2-Dichloroethene	2.9	Not Detected	12	Not Detected
Tetrahydrofuran	2.9	Not Detected	8.6	Not Detected
Chloroform	2.9	Not Detected	14	Not Detected
1,1,1-Trichloroethane	2.9	Not Detected	16	Not Detected
Cyclohexane	2.9	Not Detected	10	Not Detected
Carbon Tetrachloride	2.9	Not Detected	18	Not Detected
2,2,4-Trimethylpentane	2.9	Not Detected	14	Not Detected
Benzene	2.9	3.8	9.4	12
1,2-Dichloroethane	2.9	Not Detected	12	Not Detected
Heptane	2.9	2.0 J	12	8.0 J
Trichloroethene	2.9	Not Detected	16	Not Detected
1,2-Dichloropropane	2.9	Not Detected	14	Not Detected
1,4-Dioxane	12	Not Detected	42	Not Detected
Bromodichloromethane	2.9	Not Detected	20	Not Detected
cis-1,3-Dichloropropene	2.9	Not Detected	13	Not Detected
4-Methyl-2-pentanone	2.9	11	12	45
Toluene	2.9	8.3	11	31
trans-1,3-Dichloropropene	2.9	~~0.48 J~~ uJ	13	~~2.2 J~~ uJ
1,1,2-Trichloroethane	2.9	Not Detected	16	Not Detected
Tetrachloroethene	2.9	1.3 J J	20	8.7 J J

Client Sample ID: VMP-21-10-072511

Lab ID#: 1107464A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p080125	Date of Collection: 7/25/11 3:44:00 PM
Dil. Factor:	5.86	Date of Analysis: 8/1/11 09:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	12	Not Detected <i>US</i>	48	Not Detected <i>US</i>
Dibromochloromethane	2.9	Not Detected	25	Not Detected
1,2-Dibromoethane (EDB)	2.9	~~0.68~~ <i>u</i>	22	~~6.2~~ <i>u</i>
Chlorobenzene	2.9	~~0.28~~ <i>u</i>	13	~~1.3~~ <i>u</i>
Ethyl Benzene	2.9	Not Detected	13	Not Detected
m,p-Xylene	2.9	0.75 J	13	3.3 J
o-Xylene	2.9	Not Detected	13	Not Detected
Styrene	2.9	~~0.44~~ <i>u</i>	12	~~1.0~~ <i>u</i>
Bromoform	2.9	Not Detected	30	Not Detected
Cumene	2.9	5.4	14	27
1,1,2,2-Tetrachloroethane	2.9	Not Detected	20	Not Detected
Propylbenzene	2.9	Not Detected	14	Not Detected
4-Ethyltoluene	2.9	Not Detected	14	Not Detected
1,3,5-Trimethylbenzene	2.9	Not Detected	14	Not Detected
1,2,4-Trimethylbenzene	2.9	~~0.54~~ <i>u</i>	14	~~2.7~~ <i>u</i>
1,3-Dichlorobenzene	2.9	0.56 J	18	3.3 J
1,4-Dichlorobenzene	2.9	~~0.56~~ <i>u</i>	18	~~3.4~~ <i>u</i>
alpha-Chlorotoluene	2.9	Not Detected <i>US</i>	15	Not Detected <i>US</i>
1,2-Dichlorobenzene	2.9	~~0.40~~ <i>u</i>	18	~~2.4~~ <i>u</i>
1,2,4-Trichlorobenzene	12	Not Detected	87	Not Detected
Hexachlorobutadiene	12	Not Detected	120	Not Detected
Butane	12	Not Detected	28	Not Detected
Isopentane	12	29	34	87

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: VMP-21-25-072611

Lab ID#: 1107464A-06A

EPA METHOD TO-15 GC/MS

** Use these results only. All other data was reported from the 264x dilution analysis.*

File Name:	14080316	Date of Collection: 7/26/11 9:34:00 AM		
Dil. Factor:	1060	Date of Analysis: 8/3/11 10:07 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5300	Not Detected	26000	Not Detected
Freon 114	5300	Not Detected	37000	Not Detected
Chloromethane	21000	Not Detected	44000	Not Detected
Vinyl Chloride	5300	Not Detected	14000	Not Detected
1,3-Butadiene	5300	Not Detected	12000	Not Detected
Bromomethane	5300	Not Detected	20000	Not Detected
Chloroethane	21000	Not Detected	56000	Not Detected
Freon 11	5300	Not Detected	30000	Not Detected
Ethanol	21000	Not Detected	40000	Not Detected
Freon 113	5300	Not Detected	41000	Not Detected
1,1-Dichloroethene	5300	Not Detected	21000	Not Detected
Acetone	21000	Not Detected	50000	Not Detected
2-Propanol	21000	2700 J	52000	6700 J
Carbon Disulfide	5300	Not Detected	16000	Not Detected
3-Chloropropene	21000	Not Detected	66000	Not Detected
Methylene Chloride	5300	Not Detected	18000	Not Detected
Methyl tert-butyl ether	5300	Not Detected	19000	Not Detected
trans-1,2-Dichloroethene	5300	Not Detected	21000	Not Detected
Hexane	5300	140000	19000	510000
1,1-Dichloroethane	5300	Not Detected	21000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	21000	Not Detected	62000	Not Detected
cis-1,2-Dichloroethene	5300	Not Detected	21000	Not Detected
Tetrahydrofuran	5300	Not Detected	16000	Not Detected
Chloroform	5300	Not Detected	26000	Not Detected
1,1,1-Trichloroethane	5300	Not Detected	29000	Not Detected
Cyclohexane	5300	63000	18000	220000
Carbon Tetrachloride	5300	Not Detected	33000	Not Detected
2,2,4-Trimethylpentane	5300	230000	25000	1100000
Benzene	5300	Not Detected	17000	Not Detected
1,2-Dichloroethane	5300	Not Detected	21000	Not Detected
Heptane	5300	37000	22000	150000
Trichloroethene	5300	Not Detected	28000	Not Detected
1,2-Dichloropropane	5300	Not Detected	24000	Not Detected
1,4-Dioxane	21000	Not Detected	76000	Not Detected
Bromodichloromethane	5300	Not Detected	36000	Not Detected
cis-1,3-Dichloropropene	5300	Not Detected	24000	Not Detected
4-Methyl-2-pentanone	5300	Not Detected	22000	Not Detected
Toluene	5300	Not Detected	20000	Not Detected
trans-1,3-Dichloropropene	5300	Not Detected	24000	Not Detected
1,1,2-Trichloroethane	5300	Not Detected	29000	Not Detected
Tetrachloroethene	5300	Not Detected	36000	Not Detected

Client Sample ID: VMP-21-25-072611

Lab ID#: 1107464A-06A

EPA METHOD TO-15 GC/MS

File Name:	14080316	Date of Collection: 7/26/11 9:34:00 AM
Dil. Factor:	1060	Date of Analysis: 8/3/11 10:07 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	21000	Not Detected <i>US</i>	87000	Not Detected <i>US</i>
Dibromochloromethane	5300	Not Detected	45000	Not Detected
1,2-Dibromoethane (EDB)	5300	Not Detected	41000	Not Detected
Chlorobenzene	5300	Not Detected	24000	Not Detected
Ethyl Benzene	5300	Not Detected	23000	Not Detected
m,p-Xylene	5300	Not Detected	23000	Not Detected
o-Xylene	5300	Not Detected	23000	Not Detected
Styrene	5300	Not Detected	22000	Not Detected
Bromoform	5300	Not Detected	55000	Not Detected
Cumene	5300	Not Detected	26000	Not Detected
1,1,2,2-Tetrachloroethane	5300	Not Detected	36000	Not Detected
Propylbenzene	5300	Not Detected	26000	Not Detected
4-Ethyltoluene	5300	Not Detected	26000	Not Detected
1,3,5-Trimethylbenzene	5300	Not Detected	26000	Not Detected
1,2,4-Trimethylbenzene	5300	Not Detected	26000	Not Detected
1,3-Dichlorobenzene	5300	Not Detected	32000	Not Detected
1,4-Dichlorobenzene	5300	Not Detected	32000	Not Detected
alpha-Chlorotoluene	5300	Not Detected <i>US</i>	27000	Not Detected <i>US</i>
1,2-Dichlorobenzene	5300	Not Detected	32000	Not Detected
1,2,4-Trichlorobenzene	21000	Not Detected	160000	Not Detected
Hexachlorobutadiene	21000	Not Detected	230000	Not Detected
Butane	21000	1800000	50000	4200000
Isopentane	21000	2800000	62000	8200000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	82	70-130

**Do not use this data. Use all other data.*

Client Sample ID: VMP-21-25-072611

Lab ID#: 1107464A-06B

EPA METHOD TO-15 GC/MS

File Name:	14080313	Date of Collection:	7/26/11 9:34:00 AM
Dil. Factor:	264	Date of Analysis:	8/3/11 08:46 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1300	Not Detected	6500	Not Detected
Freon 114	1300	Not Detected	9200	Not Detected
Chloromethane	5300	Not Detected	11000	Not Detected
Vinyl Chloride	1300	Not Detected	3400	Not Detected
1,3-Butadiene	1300	Not Detected	2900	Not Detected
Bromomethane	1300	Not Detected	5100	Not Detected
Chloroethane	5300	Not Detected	14000	Not Detected
Freon 11	1300	Not Detected	7400	Not Detected
Ethanol	5300	Not Detected	9900	Not Detected
Freon 113	1300	Not Detected	10000	Not Detected
1,1-Dichloroethene	1300	Not Detected	5200	Not Detected
Acetone	5300	Not Detected	12000	Not Detected
2-Propanol	5300	Not Detected	13000	Not Detected
Carbon Disulfide	1300	Not Detected	4100	Not Detected
3-Chloropropene	5300	Not Detected	16000	Not Detected
Methylene Chloride	1300	Not Detected	4600	Not Detected
Methyl tert-butyl ether	1300	Not Detected	4800	Not Detected
trans-1,2-Dichloroethene	1300	Not Detected	5200	Not Detected
Hexane	1300	190000	4600	680000
1,1-Dichloroethane	1300	Not Detected	5300	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5300	Not Detected	16000	Not Detected
cis-1,2-Dichloroethene	1300	Not Detected	5200	Not Detected
Tetrahydrofuran	1300	Not Detected	3900	Not Detected
Chloroform	1300	Not Detected	6400	Not Detected
1,1,1-Trichloroethane	1300	Not Detected	7200	Not Detected
Cyclohexane	1300	84000	4500	290000
Carbon Tetrachloride	1300	Not Detected	8300	Not Detected
2,2,4-Trimethylpentane	1300	320000	6200	1500000
Benzene	1300	400 J	4200	1300 J
1,2-Dichloroethane	1300	Not Detected	5300	Not Detected
Heptane	1300	57000	5400	230000
Trichloroethene	1300	Not Detected	7100	Not Detected
1,2-Dichloropropane	1300	Not Detected	6100	Not Detected
1,4-Dioxane	5300	Not Detected	19000	Not Detected
Bromodichloromethane	1300	Not Detected	8800	Not Detected
cis-1,3-Dichloropropene	1300	Not Detected	6000	Not Detected
4-Methyl-2-pentanone	1300	Not Detected	5400	Not Detected
Toluene	1300	Not Detected	5000	Not Detected
trans-1,3-Dichloropropene	1300	Not Detected	6000	Not Detected
1,1,2-Trichloroethane	1300	Not Detected	7200	Not Detected
Tetrachloroethene	1300	Not Detected	9000	Not Detected

Client Sample ID: VMP-21-25-072611

Lab ID#: 1107464A-06B

EPA METHOD TO-15 GC/MS

File Name: 14080313 Date of Collection: 7/26/11 9:34:00 AM
Dil. Factor: 264 Date of Analysis: 8/3/11 08:46 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5300	Not Detected <i>US</i>	22000	Not Detected <i>US</i>
Dibromochloromethane	1300	Not Detected	11000	Not Detected
1,2-Dibromoethane (EDB)	1300	Not Detected	10000	Not Detected
Chlorobenzene	1300	Not Detected	6100	Not Detected
Ethyl Benzene	1300	Not Detected	5700	Not Detected
m,p-Xylene	1300	Not Detected	5700	Not Detected
o-Xylene	1300	Not Detected	5700	Not Detected
Styrene	1300	Not Detected	5600	Not Detected
Bromoform	1300	Not Detected	14000	Not Detected
Cumene	1300	Not Detected	6500	Not Detected
1,1,2,2-Tetrachloroethane	1300	Not Detected	9100	Not Detected
Propylbenzene	1300	Not Detected	6500	Not Detected
4-Ethyltoluene	1300	Not Detected	6500	Not Detected
1,3,5-Trimethylbenzene	1300	Not Detected	6500	Not Detected
1,2,4-Trimethylbenzene	1300	Not Detected	6500	Not Detected
1,3-Dichlorobenzene	1300	Not Detected	7900	Not Detected
1,4-Dichlorobenzene	1300	Not Detected	7900	Not Detected
alpha-Chlorotoluene	1300	Not Detected <i>US</i>	6800	Not Detected <i>US</i>
1,2-Dichlorobenzene	1300	Not Detected	7900	Not Detected
1,2,4-Trichlorobenzene	5300	Not Detected	39000	Not Detected
Hexachlorobutadiene	5300	Not Detected	56000	Not Detected
~~* Butane~~	~~5300~~	~~2000000 E~~	~~12000~~	~~4000000 E~~
~~* Isopentane~~	~~5300~~	~~3800000 E~~	~~10000~~	~~11000000 E~~

J = Estimated value.

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	118	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	84	70-130

Client Sample ID: VMP-22-5-072611

Lab ID#: 1107464A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p080121	Date of Collection:	7/26/11 1:00:00 PM	
Dil. Factor:	2.96	Date of Analysis:	8/1/11 06:45 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.46 J	7.3	2.3 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	5.9	Not Detected	12	Not Detected
Vinyl Chloride	1.5	Not Detected	3.8	Not Detected
1,3-Butadiene	1.5	Not Detected	3.3	Not Detected
Bromomethane	1.5	~~0.54~~ U	5.7	~~2.4~~ U
Chloroethane	5.9	Not Detected	16	Not Detected
Freon 11	1.5	Not Detected	8.3	Not Detected
Ethanol	5.9	15	11	29
Freon 113	1.5	Not Detected	11	Not Detected
1,1-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Acetone	5.9	11	14	26
2-Propanol	5.9	16	14	40
Carbon Disulfide	5.9	~~2.0~~ U	18	~~6.3~~ U
3-Chloropropene	5.9	Not Detected	18	Not Detected
Methylene Chloride	1.5	0.63 J	5.1	2.2 J
Methyl tert-butyl ether	1.5	Not Detected	5.3	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Hexane	1.5	17	5.2	59
1,1-Dichloroethane	1.5	Not Detected	6.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.9	5.8 J	17	17 J
cis-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.4	Not Detected
Chloroform	1.5	Not Detected	7.2	Not Detected
1,1,1-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Cyclohexane	1.5	6.2	5.1	21
Carbon Tetrachloride	1.5	Not Detected	9.3	Not Detected
2,2,4-Trimethylpentane	1.5	27	6.9	130
Benzene	1.5	37	4.7	120
1,2-Dichloroethane	1.5	~~0.33~~ U	6.0	~~4.3~~ U
Heptane	1.5	4.1	6.1	17
Trichloroethene	1.5	Not Detected	8.0	Not Detected
1,2-Dichloropropane	1.5	Not Detected	6.8	Not Detected
1,4-Dioxane	5.9	Not Detected	21	Not Detected
Bromodichloromethane	1.5	Not Detected	9.9	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
4-Methyl-2-pentanone	1.5	30	6.1	120
Toluene	1.5	4.4	5.6	16
trans-1,3-Dichloropropene	1.5	~~0.47~~ U	6.7	~~2.4~~ U
1,1,2-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Tetrachloroethene	1.5	~~0.34~~ U	10	~~2.4~~ U

Client Sample ID: VMP-22-5-072611

Lab ID#: 1107464A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: p080121 Date of Collection: 7/26/11 1:00:00 PM
Dil. Factor: 2.96 Date of Analysis: 8/1/11 06:45 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.9	Not Detected <i>US</i>	24	Not Detected <i>US</i>
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	~~0.48~~ <i>J</i>	11	~~3.7~~ <i>J</i>
Chlorobenzene	1.5	~~0.23~~ <i>J</i>	6.8	~~1.0~~ <i>J</i>
Ethyl Benzene	1.5	0.51 J	6.4	2.2 J
m,p-Xylene	1.5	1.3 J	6.4	5.6 J
o-Xylene	1.5	0.45 J	6.4	2.0 J
Styrene	1.5	~~0.45~~ <i>J</i>	6.3	~~1.0~~ <i>J</i>
Bromoform	1.5	Not Detected	15	Not Detected
Cumene	1.5	4.7	7.3	23
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	0.32 J	7.3	1.6 J
4-Ethyltoluene	1.5	Not Detected	7.3	Not Detected
1,3,5-Trimethylbenzene	1.5	~~0.63~~ <i>J</i>	7.3	~~3.1~~ <i>J</i>
1,2,4-Trimethylbenzene	1.5	~~0.88~~ <i>J</i>	7.3	~~4.5~~ <i>J</i>
1,3-Dichlorobenzene	1.5	0.55 J	8.9	3.3 J
1,4-Dichlorobenzene	1.5	~~0.75~~ <i>J</i>	8.9	~~4.5~~ <i>J</i>
alpha-Chlorotoluene	1.5	Not Detected <i>US</i>	7.7	Not Detected <i>US</i>
1,2-Dichlorobenzene	1.5	~~0.45~~ <i>J</i>	8.9	~~2.7~~ <i>J</i>
1,2,4-Trichlorobenzene	5.9	~~1.4~~ <i>J</i>	44	~~41~~ <i>J</i>
Hexachlorobutadiene	5.9	~~0.73~~ <i>J</i>	63	~~7.8~~ <i>J</i>
Butane	5.9	92	14	220
Isopentane	5.9	230	17	670

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: VMP-22-10-072611

Lab ID#: 1107464A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p080122	Date of Collection: 7/26/11 2:07:00 PM
Dil. Factor:	3.03	Date of Analysis: 8/1/11 07:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.47 J	7.5	2.3 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	6.1	Not Detected	12	Not Detected
Vinyl Chloride	1.5	Not Detected	3.9	Not Detected
1,3-Butadiene	1.5	Not Detected	3.4	Not Detected
Bromomethane	1.5	0.64 J U	5.9	2.5 J U
Chloroethane	6.1	Not Detected	16	Not Detected
Freon 11	1.5	Not Detected	8.5	Not Detected
Ethanol	6.1	30	11	56
Freon 113	1.5	Not Detected	12	Not Detected
1,1-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Acetone	6.1	6.5 J	14	15 J
2-Propanol	6.1	6.4	15	16
Carbon Disulfide	6.1	1.8 J U	19	5.0 J U
3-Chloropropene	6.1	Not Detected	19	Not Detected
Methylene Chloride	1.5	0.34 J U	5.3	1.1 J U
Methyl tert-butyl ether	1.5	Not Detected	5.5	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Hexane	1.5	Not Detected J	5.3	Not Detected J
1,1-Dichloroethane	1.5	Not Detected	6.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.1	3.8 J	18	11 J
cis-1,2-Dichloroethene	1.5	Not Detected	6.0	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.5	Not Detected
Chloroform	1.5	2.4	7.4	12
1,1,1-Trichloroethane	1.5	Not Detected	8.3	Not Detected
Cyclohexane	1.5	1.3 J	5.2	4.6 J
Carbon Tetrachloride	1.5	Not Detected J	9.5	Not Detected J
2,2,4-Trimethylpentane	1.5	4.6 J	7.1	22 J
Benzene	1.5	9.4	4.8	30
1,2-Dichloroethane	1.5	Not Detected	6.1	Not Detected
Heptane	1.5	1.2 J	6.2	5.1 J
Trichloroethene	1.5	Not Detected	8.1	Not Detected
1,2-Dichloropropane	1.5	Not Detected	7.0	Not Detected
1,4-Dioxane	6.1	Not Detected	22	Not Detected
Bromodichloromethane	1.5	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.9	Not Detected
4-Methyl-2-pentanone	1.5	19	6.2	79
Toluene	1.5	3.4	5.7	13
trans-1,3-Dichloropropene	1.5	0.42 J U	6.9	4.9 J U
1,1,2-Trichloroethane	1.5	Not Detected	8.3	Not Detected
Tetrachloroethene	1.5	0.28 J U	10	1.0 J U

Client Sample ID: VMP-22-10-072611

Lab ID#: 1107464A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p080122	Date of Collection: 7/26/11 2:07:00 PM
Dil. Factor:	3.03	Date of Analysis: 8/1/11 07:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	6.1	Not Detected <i>US</i>	25 <i>US</i>	Not Detected <i>US</i>
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	0.46 <i>u</i>	12	0.6 <i>u</i>
Chlorobenzene	1.5	0.21 <i>u</i>	7.0	0.96 <i>u</i>
Ethyl Benzene	1.5	0.39 J	6.6	1.7 J
m,p-Xylene	1.5	0.91 J	6.6	3.9 J
o-Xylene	1.5	Not Detected	6.6	Not Detected
Styrene	1.5	0.68 J	6.4	2.9 J
Bromoform	1.5	Not Detected	16	Not Detected
Cumene	1.5	5.4	7.4	27
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	0.21 J	7.4	1.0 J
4-Ethyltoluene	1.5	Not Detected	7.4	Not Detected
1,3,5-Trimethylbenzene	1.5	0.33 <i>u</i>	7.4	1.6 <i>u</i>
1,2,4-Trimethylbenzene	1.5	0.64 <i>u</i>	7.4	2.1 <i>u</i>
1,3-Dichlorobenzene	1.5	0.46 J	9.1	2.8 J
1,4-Dichlorobenzene	1.5	0.37 <i>u</i>	9.1	3.4 <i>u</i>
alpha-Chlorotoluene	1.5	Not Detected <i>US</i>	7.8	Not Detected <i>US</i>
1,2-Dichlorobenzene	1.5	0.32 <i>u</i>	9.1	1.8 <i>u</i>
1,2,4-Trichlorobenzene	6.1	0.93 <i>u</i>	45	6.9 <i>u</i>
Hexachlorobutadiene	6.1	Not Detected	65	Not Detected
Butane	6.1	7.5	14	18
Isopentane	6.1	18	18	53

J = Estimated value.

Container Type: 1 Liter Summa Canister

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

Client Sample ID: VMP-22-10-072611-DUP

Lab ID#: 1107464A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p080123	Date of Collection: 7/26/11 2:07:00 PM
Dil. Factor:	3.56	Date of Analysis: 8/1/11 08:02 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.8	0.38 J	8.8	1.9 J
Freon 114	1.8	Not Detected	12	Not Detected
Chloromethane	7.1	Not Detected	15	Not Detected
Vinyl Chloride	1.8	Not Detected	4.6	Not Detected
1,3-Butadiene	1.8	Not Detected	3.9	Not Detected
Bromomethane	1.8	Not Detected	6.9	Not Detected
Chloroethane	7.1	Not Detected	19	Not Detected
Freon 11	1.8	Not Detected	10	Not Detected
Ethanol	7.1	20	13	39
Freon 113	1.8	Not Detected	14	Not Detected
1,1-Dichloroethene	1.8	Not Detected	7.0	Not Detected
Acetone	7.1	22 J	17	52 J
2-Propanol	7.1	7.3	17	18
Carbon Disulfide	7.1	1.6 J U	22	5.4 J U
3-Chloropropene	7.1	Not Detected	22	Not Detected
Methylene Chloride	1.8	0.33 J U	6.2	1.2 J U
Methyl tert-butyl ether	1.8	Not Detected	6.4	Not Detected
trans-1,2-Dichloroethene	1.8	Not Detected	7.0	Not Detected
Hexane	1.8	6.3 J	6.3	22 J
1,1-Dichloroethane	1.8	Not Detected	7.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7.1	7.9	21	23
cis-1,2-Dichloroethene	1.8	Not Detected	7.0	Not Detected
Tetrahydrofuran	1.8	Not Detected	5.2	Not Detected
Chloroform	1.8	2.4	8.7	12
1,1,1-Trichloroethane	1.8	Not Detected	9.7	Not Detected
Cyclohexane	1.8	1.8	6.1	6.3
Carbon Tetrachloride	1.8	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	1.8	11 J	8.3	51 J
Benzene	1.8	9.5	5.7	30
1,2-Dichloroethane	1.8	Not Detected	7.2	Not Detected
Heptane	1.8	Not Detected	7.3	Not Detected
Trichloroethene	1.8	Not Detected	9.6	Not Detected
1,2-Dichloropropane	1.8	Not Detected	8.2	Not Detected
1,4-Dioxane	7.1	Not Detected	26	Not Detected
Bromodichloromethane	1.8	Not Detected	12	Not Detected
cis-1,3-Dichloropropene	1.8	Not Detected	8.1	Not Detected
4-Methyl-2-pentanone	1.8	20	7.3	84
Toluene	1.8	3.3	6.7	12
trans-1,3-Dichloropropene	1.8	0.32 J U	8.1	1.5 J U
1,1,2-Trichloroethane	1.8	Not Detected	9.7	Not Detected
Tetrachloroethene	1.8	Not Detected U	12	Not Detected U

Client Sample ID: VMP-22-10-072611-DUP

Lab ID#: 1107464A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p080123	Date of Collection: 7/26/11 2:07:00 PM
Dil. Factor:	3.56	Date of Analysis: 8/1/11 08:02 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	7.1	1.4 J	29	5.7 J
Dibromochloromethane	1.8	Not Detected	15	Not Detected
1,2-Dibromoethane (EDB)	1.8	0.40 J	14	3.1 J
Chlorobenzene	1.8	0.22 J	8.2	0.99 J
Ethyl Benzene	1.8	0.39 J	7.7	1.7 J
m,p-Xylene	1.8	0.78 J	7.7	3.4 J
o-Xylene	1.8	Not Detected	7.7	Not Detected
Styrene	1.8	0.65 J	7.6	2.8 J
Bromoform	1.8	Not Detected	18	Not Detected
Cumene	1.8	5.2	8.8	25
1,1,2,2-Tetrachloroethane	1.8	Not Detected	12	Not Detected
Propylbenzene	1.8	0.24 J	8.8	1.2 J
4-Ethyltoluene	1.8	0.54 J	8.8	2.7 J
1,3,5-Trimethylbenzene	1.8	Not Detected	8.8	Not Detected
1,2,4-Trimethylbenzene	1.8	0.74 J	8.8	3.5 J
1,3-Dichlorobenzene	1.8	0.45 J	11	2.7 J
1,4-Dichlorobenzene	1.8	0.52 J	11	3.2 J
alpha-Chlorotoluene	1.8	Not Detected	9.2	Not Detected
1,2-Dichlorobenzene	1.8	0.33 J	11	2.0 J
1,2,4-Trichlorobenzene	7.1	0.87 J	53	6.5 J
Hexachlorobutadiene	7.1	Not Detected	76	Not Detected
Butane	7.1	25	17	59
Isopentane	7.1	59	21	170

J = Estimated value.

Container Type: 1 Liter Summa Canister

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

* Use these results only. All other data was reported from the 92.0x dilution analysis.

Client Sample ID: VMP-22-18-072611

Lab ID#: 1107464A-10A

EPA METHOD TO-15 GC/MS

File Name:	14080315	Date of Collection: 7/26/11 3:16:00 PM
Dil. Factor:	138	Date of Analysis: 8/3/11 09:38 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	690	Not Detected	3400	Not Detected
Freon 114	690	Not Detected	4800	Not Detected
Chloromethane	2800	Not Detected	5700	Not Detected
Vinyl Chloride	690	Not Detected	1800	Not Detected
1,3-Butadiene	690	Not Detected	1500	Not Detected
Bromomethane	690	Not Detected	2700	Not Detected
Chloroethane	2800	Not Detected	7300	Not Detected
Freon 11	690	Not Detected	3900	Not Detected
Ethanol	2800	Not Detected	5200	Not Detected
Freon 113	690	Not Detected	5300	Not Detected
1,1-Dichloroethene	690	Not Detected	2700	Not Detected
Acetone	2800	Not Detected	6600	Not Detected
2-Propanol	2800	Not Detected	6800	Not Detected
Carbon Disulfide	690	Not Detected	2100	Not Detected
3-Chloropropene	2800	Not Detected	8600	Not Detected
Methylene Chloride	690	Not Detected	2400	Not Detected
Methyl tert-butyl ether	690	Not Detected	2500	Not Detected
trans-1,2-Dichloroethene	690	Not Detected	2700	Not Detected
Hexane	690	6600	2400	23000
1,1-Dichloroethane	690	Not Detected	2800	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2800	Not Detected	8100	Not Detected
cis-1,2-Dichloroethene	690	Not Detected	2700	Not Detected
Tetrahydrofuran	690	Not Detected	2000	Not Detected
Chloroform	690	Not Detected	3400	Not Detected
1,1,1-Trichloroethane	690	Not Detected	3800	Not Detected
Cyclohexane	690	10000	2400	34000
Carbon Tetrachloride	690	Not Detected	4300	Not Detected
2,2,4-Trimethylpentane	690	63000	3200	300000
Benzene	690	Not Detected	2200	Not Detected
1,2-Dichloroethane	690	Not Detected	2800	Not Detected
Heptane	690	Not Detected	2800	Not Detected
Trichloroethene	690	Not Detected	3700	Not Detected
1,2-Dichloropropane	690	Not Detected	3200	Not Detected
1,4-Dioxane	2800	Not Detected	9900	Not Detected
Bromodichloromethane	690	Not Detected	4600	Not Detected
cis-1,3-Dichloropropene	690	Not Detected	3100	Not Detected
4-Methyl-2-pentanone	690	Not Detected	2800	Not Detected
Toluene	690	Not Detected	2600	Not Detected
trans-1,3-Dichloropropene	690	Not Detected	3100	Not Detected
1,1,2-Trichloroethane	690	Not Detected	3800	Not Detected
Tetrachloroethene	690	Not Detected	4700	Not Detected

Client Sample ID: VMP-22-18-072611

Lab ID#: 1107464A-10A

EPA METHOD TO-15 GC/MS

File Name:	14080315	Date of Collection: 7/26/11 3:16:00 PM
DII. Factor:	138	Date of Analysis: 8/3/11 09:38 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2800	Not Detected <i>WS</i>	11000	Not Detected <i>WS</i>
Dibromochloromethane	690	Not Detected	5900	Not Detected
1,2-Dibromoethane (EDB)	690	Not Detected	5300	Not Detected
Chlorobenzene	690	Not Detected	3200	Not Detected
Ethyl Benzene	690	Not Detected	3000	Not Detected
m,p-Xylene	690	Not Detected	3000	Not Detected
o-Xylene	690	Not Detected	3000	Not Detected
Styrene	690	Not Detected	2900	Not Detected
Bromoform	690	Not Detected	7100	Not Detected
Cumene	690	Not Detected	3400	Not Detected
1,1,2,2-Tetrachloroethane	690	Not Detected	4700	Not Detected
Propylbenzene	690	Not Detected	3400	Not Detected
4-Ethyltoluene	690	Not Detected	3400	Not Detected
1,3,5-Trimethylbenzene	690	Not Detected	3400	Not Detected
1,2,4-Trimethylbenzene	690	Not Detected	3400	Not Detected
1,3-Dichlorobenzene	690	Not Detected	4100	Not Detected
1,4-Dichlorobenzene	690	Not Detected	4100	Not Detected
alpha-Chlorotoluene	690	Not Detected <i>WS</i>	3600	Not Detected <i>WS</i>
1,2-Dichlorobenzene	690	Not Detected	4100	Not Detected
1,2,4-Trichlorobenzene	2800	Not Detected	20000	Not Detected
Hexachlorobutadiene	2800	Not Detected	29000	Not Detected
Butane	2800	180000	6600	420000
<i>X</i> Isopentane	2800	430000	8100	1300000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	85	70-130

**Do not use this data. Use all other data.*

Client Sample ID: VMP-22-18-072611

Lab ID#: 1107464A-10B

EPA METHOD TQ-15 GC/MS

File Name:	14080314	Date of Collection: 7/26/11 3:16:00 PM		
Dil. Factor:	92.0	Date of Analysis: 8/3/11 09:12 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	460	Not Detected	2300	Not Detected
Freon 114	460	Not Detected	3200	Not Detected
Chloromethane	1800	Not Detected	3800	Not Detected
Vinyl Chloride	460	Not Detected	1200	Not Detected
1,3-Butadiene	460	Not Detected	1000	Not Detected
Bromomethane	460	Not Detected	1800	Not Detected
Chloroethane	1800	Not Detected	4800	Not Detected
Freon 11	460	Not Detected	2600	Not Detected
Ethanol	1800	Not Detected	3500	Not Detected
Freon 113	460	Not Detected	3500	Not Detected
1,1-Dichloroethene	460	Not Detected	1800	Not Detected
Acetone	1800	Not Detected	4400	Not Detected
2-Propanol	1800	Not Detected	4500	Not Detected
Carbon Disulfide	460	Not Detected	1400	Not Detected
3-Chloropropene	1800	Not Detected	5800	Not Detected
Methylene Chloride	460	Not Detected	1600	Not Detected
Methyl tert-butyl ether	460	Not Detected	1600	Not Detected
trans-1,2-Dichloroethene	460	Not Detected	1800	Not Detected
Hexane	460	7400	1600	26000
1,1-Dichloroethane	460	Not Detected	1900	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1800	Not Detected	5400	Not Detected
cis-1,2-Dichloroethene	460	Not Detected	1800	Not Detected
Tetrahydrofuran	460	Not Detected	1400	Not Detected
Chloroform	460	Not Detected	2200	Not Detected
1,1,1-Trichloroethane	460	Not Detected	2500	Not Detected
Cyclohexane	460	11000	1600	39000
Carbon Tetrachloride	460	Not Detected	2900	Not Detected
2,2,4-Trimethylpentane	460	72000	2100	340000
Benzene	460	130 J	1500	420 J
1,2-Dichloroethane	460	Not Detected	1900	Not Detected
Heptane	460	Not Detected	1900	Not Detected
Trichloroethene	460	Not Detected	2500	Not Detected
1,2-Dichloropropane	460	Not Detected	2100	Not Detected
1,4-Dioxane	1800	Not Detected	6600	Not Detected
Bromodichloromethane	460	Not Detected	3100	Not Detected
cis-1,3-Dichloropropene	460	Not Detected	2100	Not Detected
4-Methyl-2-pentanone	460	Not Detected	1900	Not Detected
Toluene	460	Not Detected	1700	Not Detected
trans-1,3-Dichloropropene	460	Not Detected	2100	Not Detected
1,1,2-Trichloroethane	460	Not Detected	2500	Not Detected
Tetrachloroethene	460	Not Detected	3100	Not Detected

Client Sample ID: VMP-22-18-072611

Lab ID#: 1107464A-10B

EPA METHOD TO-15 GC/MS

File Name:	14080314	Date of Collection: 7/26/11 3:16:00 PM
Dil. Factor:	92.0	Date of Analysis: 8/3/11 09:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	1800	Not Detected	7500	Not Detected
Dibromochloromethane	460	Not Detected	3900	Not Detected
1,2-Dibromoethane (EDB)	460	Not Detected	3500	Not Detected
Chlorobenzene	460	Not Detected	2100	Not Detected
Ethyl Benzene	460	Not Detected	2000	Not Detected
m,p-Xylene	460	Not Detected	2000	Not Detected
o-Xylene	460	Not Detected	2000	Not Detected
Styrene	460	Not Detected	2000	Not Detected
Bromoform	460	Not Detected	4800	Not Detected
Cumene	460	Not Detected	2300	Not Detected
1,1,2,2-Tetrachloroethane	460	Not Detected	3200	Not Detected
Propylbenzene	460	Not Detected	2300	Not Detected
4-Ethyltoluene	460	Not Detected	2300	Not Detected
1,3,5-Trimethylbenzene	460	Not Detected	2300	Not Detected
1,2,4-Trimethylbenzene	460	Not Detected	2300	Not Detected
1,3-Dichlorobenzene	460	Not Detected	2800	Not Detected
1,4-Dichlorobenzene	460	Not Detected	2800	Not Detected
alpha-Chlorotoluene	460	Not Detected	2400	Not Detected
1,2-Dichlorobenzene	460	Not Detected	2800	Not Detected
1,2,4-Trichlorobenzene	1800	Not Detected	14000	Not Detected
Hexachlorobutadiene	1800	Not Detected	20000	Not Detected
Butane	1800	200000	4400	470000
Isopentane	1800	490000 E	5400	1400000 E

J = Estimated value.

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	85	70-130

Client Sample ID: Lab Blank

Lab ID#: 1107464A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p080120a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/1/11 06:05 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	0.28 J	1.9	1.1 J
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	0.55 J	6.2	4.7 J
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	0.11 J	1.7	0.40 J
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	0.12 J	2.0	0.48 J
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	0.088 J	2.3	0.40 J
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	0.087 J	1.9	0.33 J
trans-1,3-Dichloropropene	0.50	0.22 J	2.3	1.0 J
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	0.10 J	3.4	0.69 J

Client Sample ID: Lab Blank

Lab ID#: 1107464A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p080120a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/1/11 06:05 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	0.079 J	4.2	0.67 J
1,2-Dibromoethane (EDB)	0.50	0.15 J	3.8	1.1 J
Chlorobenzene	0.50	0.14 J	2.3	0.63 J
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	0.14 J	2.2	0.59 J
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	0.098 J	2.1	0.42 J
Bromoform	0.50	0.081 J	5.2	0.84 J
Cumene	0.50	0.12 J	2.4	0.61 J
1,1,2,2-Tetrachloroethane	0.50	0.13 J	3.4	0.90 J
Propylbenzene	0.50	0.13 J	2.4	0.66 J
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	0.23 J	2.4	1.1 J
1,2,4-Trimethylbenzene	0.50	0.17 J	2.4	0.82 J
1,3-Dichlorobenzene	0.50	0.27 J	3.0	1.6 J
1,4-Dichlorobenzene	0.50	0.26 J	3.0	1.6 J
alpha-Chlorotoluene	0.50	0.18 J	2.6	0.94 J
1,2-Dichlorobenzene	0.50	0.25 J	3.0	1.5 J
1,2,4-Trichlorobenzene	2.0	0.78 J	15	5.8 J
Hexachlorobutadiene	2.0	0.43 J	21	4.6 J
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

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

Client Sample ID: Lab Blank

Lab ID#: 1107464A-11B

EPA METHOD TO-15 GC/MS

File Name:	14080311a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 07:20 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	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1107464A-11B

EPA METHOD TO-15 GC/MS

File Name:	14080311a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 07:20 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	86	70-130

Client Sample ID: CCV

Lab ID#: 1107464A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p080116	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/1/11 04:26 PM

Compound	%Recovery
Freon 12	97
Freon 114	93
Chloromethane	81
Vinyl Chloride	84
1,3-Butadiene	80
Bromomethane	89
Chloroethane	81
Freon 11	101
Ethanol	90
Freon 113	91
1,1-Dichloroethene	87
Acetone	81
2-Propanol	80
Carbon Disulfide	82
3-Chloropropene	85
Methylene Chloride	81
Methyl tert-butyl ether	88
trans-1,2-Dichloroethene	87
Hexane	83
1,1-Dichloroethane	85
2-Butanone (Methyl Ethyl Ketone)	87
cis-1,2-Dichloroethene	85
Tetrahydrofuran	76
Chloroform	92
1,1,1-Trichloroethane	102
Cyclohexane	89
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	83
Benzene	94
1,2-Dichloroethane	104
Heptane	92
Trichloroethene	94
1,2-Dichloropropane	89
1,4-Dioxane	94
Bromodichloromethane	102
cis-1,3-Dichloropropene	92
4-Methyl-2-pentanone	93
Toluene	94
trans-1,3-Dichloropropene	96
1,1,2-Trichloroethane	95
Tetrachloroethene	97

Client Sample ID: CCV

Lab ID#: 1107464A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p080116	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/1/11 04:26 PM

Compound	%Recovery
2-Hexanone	88
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	97
Chlorobenzene	96
Ethyl Benzene	98
m,p-Xylene	102
o-Xylene	102
Styrene	103
Bromoform	108
Cumene	106
1,1,2,2-Tetrachloroethane	93
Propylbenzene	104
4-Ethyltoluene	104
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	107
1,3-Dichlorobenzene	97
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	97
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	105
Butane	84
Isopentane	78

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	107	70-130

Client Sample ID: CCV

Lab ID#: 1107464A-12B

EPA METHOD TO-15 GC/MS

File Name:	14080307	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 05:37 PM

Compound	%Recovery
Freon 12	118
Freon 114	96
Chloromethane	100
Vinyl Chloride	139 Q
1,3-Butadiene	112
Bromomethane	117
Chloroethane	107
Freon 11	119
Ethanol	87
Freon 113	97
1,1-Dichloroethene	117
Acetone	104
2-Propanol	87
Carbon Disulfide	112
3-Chloropropene	108
Methylene Chloride	102
Methyl tert-butyl ether	112
trans-1,2-Dichloroethene	110
Hexane	99
1,1-Dichloroethane	115
2-Butanone (Methyl Ethyl Ketone)	115
cis-1,2-Dichloroethene	110
Tetrahydrofuran	93
Chloroform	118
1,1,1-Trichloroethane	110
Cyclohexane	111
Carbon Tetrachloride	110
2,2,4-Trimethylpentane	103
Benzene	109
1,2-Dichloroethane	110
Heptane	109
Trichloroethene	108
1,2-Dichloropropane	108
1,4-Dioxane	112
Bromodichloromethane	109
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	102
Toluene	113
trans-1,3-Dichloropropene	99
1,1,2-Trichloroethane	105
Tetrachloroethene	89

Client Sample ID: CCV

Lab ID#: 1107464A-12B

EPA METHOD TO-15 GC/MS

File Name:	14080307	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 05:37 PM

Compound	%Recovery
2-Hexanone	87
Dibromochloromethane	101
1,2-Dibromoethane (EDB)	107
Chlorobenzene	108
Ethyl Benzene	105
m,p-Xylene	107
o-Xylene	107
Styrene	103
Bromoform	89
Cumene	110
1,1,2,2-Tetrachloroethane	114
Propylbenzene	115
4-Ethyltoluene	116
1,3,5-Trimethylbenzene	115
1,2,4-Trimethylbenzene	112
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	95
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	97
Hexachlorobutadiene	86
Butane	99
Isopentane	94

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	89	70-130

Client Sample ID: LCS

Lab ID#: 1107464A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p080117	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/1/11 04:54 PM

Compound	%Recovery
Freon 12	99
Freon 114	95
Chloromethane	90
Vinyl Chloride	86
1,3-Butadiene	83
Bromomethane	95
Chloroethane	85
Freon 11	102
Ethanol	80
Freon 113	94
1,1-Dichloroethene	98
Acetone	84
2-Propanol	82
Carbon Disulfide	104
3-Chloropropene	100
Methylene Chloride	84
Methyl tert-butyl ether	90
trans-1,2-Dichloroethene	102
Hexane	85
1,1-Dichloroethane	86
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	90
Tetrahydrofuran	76
Chloroform	96
1,1,1-Trichloroethane	104
Cyclohexane	92
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	83
Benzene	95
1,2-Dichloroethane	103
Heptane	96
Trichloroethene	98
1,2-Dichloropropane	90
1,4-Dioxane	93
Bromodichloromethane	102
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	91
Toluene	94
trans-1,3-Dichloropropene	97
1,1,2-Trichloroethane	99
Tetrachloroethene	97

Client Sample ID: LCS

Lab ID#: 1107464A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p080117	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/1/11 04:54 PM

Compound	%Recovery
2-Hexanone	92
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	100
Chlorobenzene	99
Ethyl Benzene	100
m,p-Xylene	105
o-Xylene	103
Styrene	105
Bromoform	105
Cumene	108
1,1,2,2-Tetrachloroethane	96
Propylbenzene	106
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	105
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	94
Hexachlorobutadiene	100
Butane	87
Isopentane	80

Container Type: NA - Not Applicable

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

Client Sample ID: LCSD

Lab ID#: 1107464A-13AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p080118	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/1/11 05:11 PM

Compound	%Recovery
Freon 12	98
Freon 114	95
Chloromethane	94
Vinyl Chloride	86
1,3-Butadiene	85
Bromomethane	93
Chloroethane	84
Freon 11	101
Ethanol	73
Freon 113	95
1,1-Dichloroethene	99
Acetone	80
2-Propanol	82
Carbon Disulfide	105
3-Chloropropene	102
Methylene Chloride	83
Methyl tert-butyl ether	91
trans-1,2-Dichloroethene	104
Hexane	86
1,1-Dichloroethane	86
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	91
Tetrahydrofuran	76
Chloroform	95
1,1,1-Trichloroethane	104
Cyclohexane	92
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	86
Benzene	92
1,2-Dichloroethane	99
Heptane	93
Trichloroethene	94
1,2-Dichloropropane	87
1,4-Dioxane	93
Bromodichloromethane	99
cis-1,3-Dichloropropene	92
4-Methyl-2-pentanone	89
Toluene	93
trans-1,3-Dichloropropene	94
1,1,2-Trichloroethane	99
Tetrachloroethene	96

Client Sample ID: LCSD

Lab ID#: 1107464A-13AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	p080118	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/1/11 05:11 PM

Compound	%Recovery
2-Hexanone	90
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	100
Chlorobenzene	97
Ethyl Benzene	99
m,p-Xylene	103
o-Xylene	101
Styrene	103
Bromoform	102
Cumene	108
1,1,2,2-Tetrachloroethane	95
Propylbenzene	104
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	95
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	97
Hexachlorobutadiene	100
Butane	81
Isopentane	79

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	106	70-130

Client Sample ID: LCS

Lab ID#: 1107464A-13B

EPA METHOD TO-15 GC/MS

File Name:	14080308	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 06:05 PM

Compound	%Recovery
Freon 12	90
Freon 114	79
Chloromethane	81
Vinyl Chloride	92
1,3-Butadiene	79
Bromomethane	88
Chloroethane	77
Freon 11	90
Ethanol	60
Freon 113	79
1,1-Dichloroethene	98
Acetone	73
2-Propanol	61
Carbon Disulfide	100
3-Chloropropene	83
Methylene Chloride	76
Methyl tert-butyl ether	84
trans-1,2-Dichloroethene	95
Hexane	75
1,1-Dichloroethane	87
2-Butanone (Methyl Ethyl Ketone)	80
cis-1,2-Dichloroethene	78
Tetrahydrofuran	65
Chloroform	94
1,1,1-Trichloroethane	85
Cyclohexane	84
Carbon Tetrachloride	81
2,2,4-Trimethylpentane	76
Benzene	81
1,2-Dichloroethane	84
Heptane	80
Trichloroethene	82
1,2-Dichloropropane	81
1,4-Dioxane	78
Bromodichloromethane	80
cis-1,3-Dichloropropene	72
4-Methyl-2-pentanone	65
Toluene	84
trans-1,3-Dichloropropene	70
1,1,2-Trichloroethane	79
Tetrachloroethene	69 Q

Client Sample ID: LCS

Lab ID#: 1107464A-13B

EPA METHOD TO-15 GC/MS

File Name: 14080308
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 8/3/11 06:05 PM

Compound	%Recovery
2-Hexanone	58 Q
Dibromochloromethane	72
1,2-Dibromoethane (EDB)	82
Chlorobenzene	83
Ethyl Benzene	80
m,p-Xylene	82
o-Xylene	80
Styrene	77
Bromoform	62
Cumene	84
1,1,2,2-Tetrachloroethane	90
Propylbenzene	88
4-Ethyltoluene	82
1,3,5-Trimethylbenzene	88
1,2,4-Trimethylbenzene	81
1,3-Dichlorobenzene	84
1,4-Dichlorobenzene	82
alpha-Chlorotoluene	56 Q
1,2-Dichlorobenzene	86
1,2,4-Trichlorobenzene	87
Hexachlorobutadiene	88
Butane	73
Isopentane	69

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	87	70-130

Client Sample ID: LCSD

Lab ID#: 1107464A-13BB

EPA METHOD TO-15 GC/MS

File Name:	14080309	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 06:30 PM

Compound	%Recovery
Freon 12	94
Freon 114	78
Chloromethane	80
Vinyl Chloride	97
1,3-Butadiene	79
Bromomethane	93
Chloroethane	82
Freon 11	92
Ethanol	67
Freon 113	78
1,1-Dichloroethene	78
Acetone	73
2-Propanol	62
Carbon Disulfide	102
3-Chloropropene	86
Methylene Chloride	77
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	96
Hexane	76
1,1-Dichloroethane	86
2-Butanone (Methyl Ethyl Ketone)	82
cis-1,2-Dichloroethene	84
Tetrahydrofuran	67
Chloroform	91
1,1,1-Trichloroethane	85
Cyclohexane	84
Carbon Tetrachloride	83
2,2,4-Trimethylpentane	78
Benzene	83
1,2-Dichloroethane	82
Heptane	81
Trichloroethene	83
1,2-Dichloropropane	82
1,4-Dioxane	78
Bromodichloromethane	81
cis-1,3-Dichloropropene	74
4-Methyl-2-pentanone	66
Toluene	84
trans-1,3-Dichloropropene	69 Q
1,1,2-Trichloroethane	78
Tetrachloroethene	69 Q

Client Sample ID: LCSD

Lab ID#: 1107464A-13BB

EPA METHOD TO-15 GC/MS

File Name:	14080309	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 06:30 PM

Compound	%Recovery
2-Hexanone	59 Q
Dibromochloromethane	73
1,2-Dibromoethane (EDB)	83
Chlorobenzene	84
Ethyl Benzene	82
m,p-Xylene	80
o-Xylene	80
Styrene	78
Bromoform	63
Cumene	83
1,1,2,2-Tetrachloroethane	91
Propylbenzene	90
4-Ethyltoluene	84
1,3,5-Trimethylbenzene	89
1,2,4-Trimethylbenzene	83
1,3-Dichlorobenzene	84
1,4-Dichlorobenzene	83
alpha-Chlorotoluene	58 Q
1,2-Dichlorobenzene	87
1,2,4-Trichlorobenzene	101
Hexachlorobutadiene	94
Butane	78
Isopentane	72

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	88	70-130

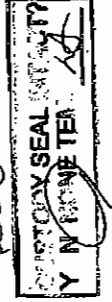
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Shell Oil Products Chain of Custody Record

URS

Air Toxics LTD. Project Name: Roxana Soil Vapor Project # 21562593.00009		Please Check Appropriate Box: ☐ ENV. SERVICES ☐ MOTIV. RETAIL ☐ MOTIV. SUNCH ☐ CONSULTANT ☐ SHELL PIPELINE ☐ OTHER		Print Bill To Contact Name: Thomas Adams PO #		INCIDENT # (ENV. SERVICES) 9 7 2 1 6 8 4 0 DATE: 07/28/11 PAGE: 1 of 1	
Lab Vendor # URS CORPORATION 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110 ADDRESS: Air Toxics, LTD. 180 Blue Ravine Road, Suite B, Folsom, CA 95030-4719 TELEPHONE: 314-428-0100 FAX: 314-428-0482		URS CODE: 900 SOUTH CENTRAL AVE - ROXANA ZIP RELATIONSHIP TO FIRM, COMPANY, OTHER LOCATION: ELIZABETH KUNKEL URS, St. Louis M. Miller, W. Buchanan, D. Mattingly		SITE ADDRESS: Street and City 900 SOUTH CENTRAL AVE - ROXANA STATE: ILL.		URS CODE: 314-743-4179 ELIZABETH KUNKEL URS, St. Louis M. Miller, W. Buchanan, D. Mattingly	
TURNAROUND TIME (CALENDAR DAYS): ☐ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND		IN TO CORREL. EMAIL: ID00083.Adams@URS000.COM		REQUESTED ANALYSIS Turn Around Time: ☐ Normal ☐ Rush ☐ Expedite Pressurized by: ☐ Normal ☐ Rush ☐ Expedite Date: ☐ Normal ☐ Rush ☐ Expedite Pressurized by Gas: ☐ Normal ☐ Rush ☐ Expedite		ADDITIONAL NOTES: - 14 day hold time - Report results between MDL and RL - Level IV ECVP	
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY) _____ ☐ LA - WQOC REPORT FORMAT ☐ USE AGENCY: _____ ☐ STATIONED (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND		SHELL CONTRACT RATE APPLIES ☐ STATE REIMBURSEMENT RATE APPLIES ☐ EDO NOT NEEDED ☐ RECEIPT VERIFICATION REQUESTED		Modifed TD-16 + Butane & Heptane ASTM D-1946 + Helium ASTM D-1946		ADDITIONAL NOTES: - 14 day hold time - Report results between MDL and RL - Level IV ECVP	
Field Sample Identification DATE TIME SAMPLED 07/25/11 06:53 - 10:00 07/25/11 11:04 - 11:32 07/28/11 16:30 - 07/25/11 14:04 - 14:32 07/25/11 15:14 - 15:44 07/28/11 09:05 - 09:24 07/28/11 12:32 - 13:00 07/28/11 13:41 - 14:27 07/28/11 13:41 - 14:27 07/28/11 14:48 - 15:16		Container Number Initial Final Residual Final (net) 874 -29.5 -8 811 -29 -5.5 852 -29.5 -5.5 814 -29 -7 1114 -28 -4.5 3223 -29.5 -5.5 3861 -29 -8 3698 -29.5 -9 40873 -29.5 -12 800 -29.5 -5.5		Concentration Pressure/Vacuum Initial Final Residual Final (net) 874 -29.5 -8 811 -29 -5.5 852 -29.5 -5.5 814 -29 -7 1114 -28 -4.5 3223 -29.5 -5.5 3861 -29 -8 3698 -29.5 -9 40873 -29.5 -12 800 -29.5 -5.5		RECEIVED BY (Signature) FEDEX RECEIVED BY (Signature) RECEIVED BY (Signature)	



8/9/2011

Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562593.00009
Workorder #: 1107464B

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 7/27/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

Reviewed
on
8/24/2011

WORK ORDER #: 1107464B

Work Order Summary

CLIENT:	Mr. Jeff Adams URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	BILL TO:	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-429-0100	P.O. #	21562593.00007
FAX:		PROJECT #	21562593.00009 Roxana Soil Vapor
DATE RECEIVED:	07/27/2011	CONTACT:	Kelly Buettner
DATE COMPLETED:	08/09/2011		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-20-5-072511	Modified ASTM D-1946	8.5 "Hg	15 psi
02A	VMP-20-10-072511	Modified ASTM D-1946	6.5 "Hg	15 psi
03A	VMP-20-25-072611	Modified ASTM D-1946	6.5 "Hg	15 psi
04A	VMP-21-5-072511	Modified ASTM D-1946	8.0 "Hg	15 psi
05A	VMP-21-10-072511	Modified ASTM D-1946	5.0 "Hg	15 psi
06A	VMP-21-25-072611	Modified ASTM D-1946	7.0 "Hg	15 psi
07A	VMP-22-5-072611	Modified ASTM D-1946	9.5 "Hg	15 psi
08A	VMP-22-10-072611	Modified ASTM D-1946	10.0 "Hg	15 psi
09A	VMP-22-10-072611-DUP	Modified ASTM D-1946	13.0 "Hg	15 psi
10A	VMP-22-18-072611	Modified ASTM D-1946	8.0 "Hg	15 psi
11A	Lab Blank	Modified ASTM D-1946	NA	NA
11B	Lab Blank	Modified ASTM D-1946	NA	NA
12A	LCS	Modified ASTM D-1946	NA	NA
12AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY:

Linda D. Freeman

Laboratory Director

DATE: 08/09/11

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

**LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1107464B**

Ten 1 Liter Summa Canister samples were received on July 27, 2011. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

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

<i>Requirement</i>	<i>ASTM D-1946</i>	<i>ATL Modifications</i>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections $> 5 \times$ the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

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 detection limit.

M - Reported value may be biased due to apparent matrix interferences.

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

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-20-5-072511

Lab ID#: 1107464B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	7.7
Nitrogen	0.28	78
Methane	0.00028	0.000058 J
Carbon Dioxide	0.028	14
Helium	0.14	0.021 J

Client Sample ID: VMP-20-10-072511

Lab ID#: 1107464B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	7.8
Nitrogen	0.26	84
Methane	0.00026	0.00021 J
Carbon Dioxide	0.026	8.1
Helium	0.13	0.010 J

Client Sample ID: VMP-20-25-072611

Lab ID#: 1107464B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.8
Nitrogen	0.26	89
Methane	0.00026	0.23
Carbon Dioxide	0.026	8.5
Ethane	0.0026	0.00011 J
Helium	0.13	0.010 J

Client Sample ID: VMP-21-5-072511

Lab ID#: 1107464B-04A

Compound	Rpt. Limit (%)	Amount (%)

Summary of Detected Compounds

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-21-5-072511

Lab ID#: 1107464B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.70	10
Nitrogen	0.70	76
Methane	0.00070	0.00029 J
Carbon Dioxide	0.070	14
Helium	0.35	0.018 J

Client Sample ID: VMP-21-10-072511

Lab ID#: 1107464B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	1.2	26
Nitrogen	1.2	68
Methane	0.0012	0.00021 J
Carbon Dioxide	0.12	6.0

Client Sample ID: VMP-21-25-072611

Lab ID#: 1107464B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.7
Nitrogen	0.26	89
Methane	0.00026	2.3
Carbon Dioxide	0.026	5.6
Ethane	0.0026	0.00088 J
Helium	0.13	0.22

Client Sample ID: VMP-22-5-072611

Lab ID#: 1107464B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.55	12

Summary of Detected Compounds

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-22-5-072611

Lab ID#: 1107464B-07A

Nitrogen	0.55	80
Carbon Dioxide	0.055	7.4
Helium	0.28	0.015 J

Client Sample ID: VMP-22-10-072611

Lab ID#: 1107464B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	4.9
Nitrogen	0.30	85
Methane	0.00030	0.00016 J
Carbon Dioxide	0.030	10

Client Sample ID: VMP-22-10-072611-DUP

Lab ID#: 1107464B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.36	5.0
Nitrogen	0.36	85
Methane	0.00036	0.00015 J
Carbon Dioxide	0.036	10

Client Sample ID: VMP-22-18-072611

Lab ID#: 1107464B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.56	5.3
Nitrogen	0.56	84
Methane	0.00056	0.90
Carbon Dioxide	0.056	10
Ethane	0.0056	0.00046 J
Helium	0.28	0.019 J

Client Sample ID: VMP-20-5-072511

Lab ID#: 1107464B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080817	Date of Collection: 7/25/11 10:20:00 AM
Dil. Factor:	2.82	Date of Analysis: 8/8/11 01:21 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	7.7
Nitrogen	0.28	78
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.000058 J
Carbon Dioxide	0.028	14
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.021 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-20-10-072511

Lab ID#: 1107464B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080818	Date of Collection: 7/25/11 11:33:00 AM
Dil. Factor:	2.58	Date of Analysis: 8/8/11 01:43 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	7.8
Nitrogen	0.26	84
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.00021 J
Carbon Dioxide	0.026	8.1
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.010 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-20-25-072611

Lab ID#: 1107464B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080819	Date of Collection: 7/26/11 4:50:00 PM
Dil. Factor:	2.58	Date of Analysis: 8/8/11 02:05 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.8
Nitrogen	0.26	89
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.23
Carbon Dioxide	0.026	8.5
Ethane	0.0026	0.00011 J
Ethene	0.0026	Not Detected
Helium	0.13	0.010 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-21-5-072511

Lab ID#: 1107464B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080820	Date of Collection: 7/25/11 2:33:00 PM
Dil. Factor:	6.96	Date of Analysis: 8/8/11 02:45 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.70	10
Nitrogen	0.70	76
Carbon Monoxide	0.070	Not Detected
Methane	0.00070	0.00029 J
Carbon Dioxide	0.070	14
Ethane	0.0070	Not Detected
Ethene	0.0070	Not Detected
Helium	0.35	0.018 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-21-10-072511

Lab ID#: 1107464B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080821	Date of Collection: 7/25/11 3:44:00 PM
Dil. Factor:	11.8	Date of Analysis: 8/8/11 03:09 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	1.2	26
Nitrogen	1.2	68
Carbon Monoxide	0.12	Not Detected
Methane	0.0012	0.00021 J
Carbon Dioxide	0.12	6.0
Ethane	0.012	Not Detected
Ethene	0.012	Not Detected
Helium	0.59	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-21-25-072611

Lab ID#: 1107464B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080826	Date of Collection: 7/26/11 9:34:00 AM
Dil. Factor:	2.64	Date of Analysis: 8/8/11 05:53 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.7
Nitrogen	0.26	89
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	2.3
Carbon Dioxide	0.026	5.6
Ethane	0.0026	0.00088 J
Ethene	0.0026	Not Detected
Helium	0.13	0.22

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-22-5-072611

Lab ID#: 1107464B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080822	Date of Collection: 7/26/11 1:00:00 PM
Dil. Factor:	5.54	Date of Analysis: 8/8/11 03:36 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.55	12
Nitrogen	0.55	80
Carbon Monoxide	0.055	Not Detected
Methane	0.00055	Not Detected
Carbon Dioxide	0.055	7.4
Ethane	0.0055	Not Detected
Ethene	0.0055	Not Detected
Helium	0.28	0.015 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-22-10-072611

Lab ID#: 1107464B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080823	Date of Collection: 7/26/11 2:07:00 PM
Dil. Factor:	3.03	Date of Analysis: 8/8/11 04:04 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	4.9
Nitrogen	0.30	85
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.00016 J
Carbon Dioxide	0.030	10
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-22-10-072611-DUP

Lab ID#: 1107464B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080825	Date of Collection: 7/26/11 2:07:00 PM
Dil. Factor:	3.56	Date of Analysis: 8/8/11 05:32 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.36	5.0
Nitrogen	0.36	85
Carbon Monoxide	0.036	Not Detected
Methane	0.00036	0.00015 J
Carbon Dioxide	0.036	10
Ethane	0.0036	Not Detected
Ethene	0.0036	Not Detected
Helium	0.18	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-22-18-072611

Lab ID#: 1107464B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080827	Date of Collection: 7/26/11 3:16:00 PM
Dil. Factor:	5.58	Date of Analysis: 8/8/11 06:15 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.56	5.3
Nitrogen	0.56	84
Carbon Monoxide	0.056	Not Detected
Methane	0.00056	0.90
Carbon Dioxide	0.056	10
Ethane	0.0056	0.00046 J
Ethene	0.0056	Not Detected
Helium	0.28	0.019 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: Lab Blank

Lab ID#: 1107464B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080805a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/8/11 08:14 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	0.048 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Client Sample ID: Lab Blank

Lab ID#: 1107464B-11B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080804b	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/8/11 07:52 AM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

Client Sample ID: LCS

Lab ID#: 1107464B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080802	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/8/11 06:38 AM

Compound	%Recovery
Oxygen	99
Nitrogen	101
Carbon Monoxide	100
Methane	97
Carbon Dioxide	100
Ethane	100
Ethene	98
Helium	92

Container Type: NA - Not Applicable

Client Sample ID: LCSD

Lab ID#: 1107464B-12AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080814	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/8/11 12:13 PM

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	98
Methane	97
Carbon Dioxide	98
Ethane	99
Ethene	98
Helium	95

Container Type: NA - Not Applicable

Roxana Soil Vapor Quarterly – 3rd Quarter 2011 Data Review

Laboratory SDG: 1107517A, B

Data Reviewer: Steve Gragert

Peer Reviewer: Jeff Aust

Date Reviewed: 8/26/2011

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
VMP-8-5-072711	VMP-24-5-072811
VMP-8-9.5-072711	VMP-24-10-072811
VMP-23-5-072711	VMP-24-22-072811
VMP-23-10-072711	VMP-24-22-072811 DUP
VMP-23-25-072711	VMP-24-34-072811

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Although not indicated in the laboratory case narrative, nitrogen was detected in the method blank. This issue is addressed further in the appropriate section below.

No issues or discrepancies were noted in the cooler receipt form.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1107517B-11A	Natural gases	Nitrogen	0.056 %

Analytical data reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-24-22-072811	VMP-24-22-072811 DUP

Were field duplicates within evaluation criteria?

Yes

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

8/11/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562593.00009
Workorder #: 1107517A

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 7/29/2011 at Air Toxics Ltd.

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

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

Regards,



Kelly Buettner
Project Manager

Reviewed
on
8/26/2011

WORK ORDER #: 1107517A

Work Order Summary

CLIENT:	Mr. Jeff Adams URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	BILL TO:	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-429-0100	P.O. #	21562593.00007
FAX:		PROJECT #	21562593.00009 Roxana Soil Vapor
DATE RECEIVED:	07/29/2011	CONTACT:	Kelly Buettner
DATE COMPLETED:	08/11/2011		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-8-5-072711	Modified TO-15	9.5 "Hg	15 psi
02A	VMP-8-9.5-072711	Modified TO-15	1.5 "Hg	15 psi
03A	VMP-23-5-072711	Modified TO-15	7.0 "Hg	15 psi
04A	VMP-23-10-072711	Modified TO-15	6.0 "Hg	15 psi
05A	VMP-23-25-072711	Modified TO-15	9.0 "Hg	15 psi
06A	VMP-24-5-072811	Modified TO-15	8.5 "Hg	15 psi
07A	VMP-24-10-072811	Modified TO-15	8.0 "Hg	15 psi
08A	VMP-24-22-072811	Modified TO-15	6.0 "Hg	15 psi
09A	VMP-24-22-072811-Dup	Modified TO-15	9.0 "Hg	15 psi
10A	VMP-24-34-072811	Modified TO-15	1.5 "Hg	15 psi
11A	Lab Blank	Modified TO-15	NA	NA
11B	Lab Blank	Modified TO-15	NA	NA
12A	CCV	Modified TO-15	NA	NA
12B	CCV	Modified TO-15	NA	NA
13A	LCS	Modified TO-15	NA	NA
13AA	LCSD	Modified TO-15	NA	NA
13B	LCS	Modified TO-15	NA	NA

Continued on next page

WORK ORDER #: 1107517A

Work Order Summary

CLIENT:	Mr. Jeff Adams URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	BILL TO:	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-429-0100	P.O. #	21562593.00007
FAX:		PROJECT #	21562593.00009 Roxana Soil Vapor
DATE RECEIVED:	07/29/2011	CONTACT:	Kelly Buettner
DATE COMPLETED:	08/11/2011		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
13BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:

Sandra A. Trueman

Laboratory Director

DATE: 08/11/11

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1107517A**

Ten 1 Liter Summa Canister samples were received on July 29, 2011. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

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

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

Client Sample ID: VMP-8-5-072711

Lab ID#: 1107517A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.47 J	7.3	2.3 J
Ethanol	5.9	20	11	37
Acetone	5.9	16	14	37
2-Propanol	5.9	30	14	75
Carbon Disulfide	5.9	1.2 J	18	3.6 J
Hexane	1.5	0.74 J	5.2	2.6 J
2-Butanone (Methyl Ethyl Ketone)	5.9	14	17	42
Cyclohexane	1.5	0.41 J	5.1	1.4 J
2,2,4-Trimethylpentane	1.5	2.4	6.9	11
Benzene	1.5	35	4.7	110
Heptane	1.5	0.52 J	6.1	2.1 J
4-Methyl-2-pentanone	1.5	58	6.1	240
Toluene	1.5	6.2	5.6	23
Tetrachloroethene	1.5	0.41 J	10	2.8 J
2-Hexanone	5.9	1.3 J	24	5.4 J
Ethyl Benzene	1.5	0.60 J	6.4	2.6 J
m,p-Xylene	1.5	1.5	6.4	6.4
o-Xylene	1.5	0.46 J	6.4	2.0 J
Styrene	1.5	0.35 J	6.3	1.5 J
Cumene	1.5	10	7.3	50
Propylbenzene	1.5	0.17 J	7.3	0.84 J
4-Ethyltoluene	1.5	0.68 J	7.3	3.3 J
1,3,5-Trimethylbenzene	1.5	0.27 J	7.3	1.3 J
1,2,4-Trimethylbenzene	1.5	0.82 J	7.3	4.0 J
1,4-Dichlorobenzene	1.5	0.22 J	8.9	1.3 J

Client Sample ID: VMP-8-9.5-072711

Lab ID#: 1107517A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	0.38 J	5.3	1.9 J

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

Client Sample ID: VMP-8-9.5-072711

Lab ID#: 1107517A-02A

Freon 11	1.1	0.26 J	6.0	1.4 J
Ethanol	4.3	43	8.0	82
Acetone	4.3	15	10	35
2-Propanol	4.3	16	10	40
Carbon Disulfide	4.3	1.0 J	13	3.2 J
Methylene Chloride	1.1	1.9	3.7	6.5
Hexane	1.1	1.4	3.8	4.8
2-Butanone (Methyl Ethyl Ketone)	4.3	13	12	38
Cyclohexane	1.1	0.41 J	3.7	1.4 J
2,2,4-Trimethylpentane	1.1	1.8	5.0	8.3
Benzene	1.1	60	3.4	190
Heptane	1.1	0.96 J	4.4	3.9 J
4-Methyl-2-pentanone	1.1	31	4.4	130
Toluene	1.1	5.4	4.0	20
Tetrachloroethene	1.1	0.36 J	7.2	2.5 J
2-Hexanone	4.3	1.2 J	17	4.8 J
Ethyl Benzene	1.1	0.65 J	4.6	2.8 J
m,p-Xylene	1.1	1.8	4.6	7.9
o-Xylene	1.1	0.56 J	4.6	2.4 J
Styrene	1.1	0.52 J	4.5	2.2 J
Cumene	1.1	9.1	5.2	45
Propylbenzene	1.1	0.19 J	5.2	0.94 J
4-Ethyltoluene	1.1	0.65 J	5.2	3.2 J
1,3,5-Trimethylbenzene	1.1	0.23 J	5.2	1.1 J
1,2,4-Trimethylbenzene	1.1	0.71 J	5.2	3.5 J
1,4-Dichlorobenzene	1.1	0.18 J	6.4	1.1 J
Butane	4.3	5.0	10	12
Isopentane	4.3	6.8	12	20

Client Sample ID: VMP-23-5-072711

Lab ID#: 1107517A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

Summary of Detected Compounds

EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-23-5-072711

Lab ID#: 1107517A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.33 J	6.5	1.6 J
Freon 11	1.3	0.30 J	7.4	1.7 J
Ethanol	5.3	31	9.9	58
Acetone	5.3	26	12	62
2-Propanol	5.3	59	13	140
Carbon Disulfide	5.3	1.0 J	16	3.2 J
Methylene Chloride	1.3	1.8	4.6	6.3
Hexane	1.3	3.1	4.6	11
2-Butanone (Methyl Ethyl Ketone)	5.3	24	16	72
Cyclohexane	1.3	2.0	4.5	6.8
2,2,4-Trimethylpentane	1.3	10	6.2	47
Benzene	1.3	55	4.2	180
Heptane	1.3	2.0	5.4	8.3
1,4-Dioxane	5.3	2.4 J	19	8.8 J
4-Methyl-2-pentanone	1.3	62	5.4	250
Toluene	1.3	9.9	5.0	37
2-Hexanone	5.3	1.4 J	22	6.0 J
Ethyl Benzene	1.3	0.54 J	5.7	2.4 J
m,p-Xylene	1.3	1.5	5.7	6.4
o-Xylene	1.3	0.33 J	5.7	1.4 J
Styrene	1.3	0.30 J	5.6	1.3 J
Cumene	1.3	7.5	6.5	37
Propylbenzene	1.3	0.16 J	6.5	0.76 J
1,3,5-Trimethylbenzene	1.3	0.16 J	6.5	0.78 J
1,2,4-Trimethylbenzene	1.3	0.61 J	6.5	3.0 J
Butane	5.3	9.9	12	24
Isopentane	5.3	47	16	140

Client Sample ID: VMP-23-10-072711

Lab ID#: 1107517A-04A

No Detections Were Found.

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

Client Sample ID: VMP-23-25-072711

Lab ID#: 1107517A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	5.8	19	11	36
Acetone	5.8	21	14	50
2-Propanol	5.8	19	14	47
Carbon Disulfide	5.8	2.5 J	18	7.7 J
Hexane	1.4	0.88 J	5.1	3.1 J
2-Butanone (Methyl Ethyl Ketone)	5.8	11	17	32
Cyclohexane	1.4	0.74 J	5.0	2.6 J
2,2,4-Trimethylpentane	1.4	9.9	6.8	46
Benzene	1.4	48	4.6	150
Heptane	1.4	0.82 J	5.9	3.4 J
1,4-Dioxane	5.8	1.6 J	21	5.7 J
4-Methyl-2-pentanone	1.4	29	5.9	120
Toluene	1.4	4.3	5.4	16
1,2-Dibromoethane (EDB)	1.4	0.34 J	11	2.6 J
Ethyl Benzene	1.4	0.62 J	6.3	2.7 J
m,p-Xylene	1.4	1.5	6.3	6.5
o-Xylene	1.4	0.45 J	6.3	2.0 J
Styrene	1.4	0.50 J	6.2	2.1 J
Cumene	1.4	4.8	7.1	24
4-Ethyltoluene	1.4	0.61 J	7.1	3.0 J
1,3,5-Trimethylbenzene	1.4	0.50 J	7.1	2.4 J
1,2,4-Trimethylbenzene	1.4	0.81 J	7.1	4.0 J
1,3-Dichlorobenzene	1.4	0.58 J	8.7	3.5 J
1,4-Dichlorobenzene	1.4	0.71 J	8.7	4.3 J
1,2-Dichlorobenzene	1.4	0.50 J	8.7	3.0 J
1,2,4-Trichlorobenzene	5.8	1.6 J	43	12 J
Hexachlorobutadiene	5.8	0.50 J	62	5.4 J

Client Sample ID: VMP-24-5-072811

Lab ID#: 1107517A-06A

Summary of Detected Compounds

EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-24-5-072811

Lab ID#: 1107517A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.40 J	7.0	2.0 J
Chloromethane	5.6	2.4 J	12	4.9 J
Freon 11	1.4	0.28 J	7.9	1.6 J
Ethanol	5.6	21	11	40
Acetone	5.6	20	13	47
2-Propanol	5.6	7.9	14	19
Carbon Disulfide	5.6	12	18	37
Hexane	1.4	3.2	5.0	11
2-Butanone (Methyl Ethyl Ketone)	5.6	7.2	17	21
Cyclohexane	1.4	1.2 J	4.8	4.0 J
2,2,4-Trimethylpentane	1.4	2.5	6.6	12
Benzene	1.4	29	4.5	93
Heptane	1.4	1.3 J	5.8	5.4 J
4-Methyl-2-pentanone	1.4	17	5.8	71
Toluene	1.4	12	5.3	45
2-Hexanone	5.6	1.2 J	23	5.1 J
1,2-Dibromoethane (EDB)	1.4	0.31 J	11	2.4 J
Ethyl Benzene	1.4	0.80 J	6.1	3.5 J
m,p-Xylene	1.4	2.3	6.1	9.9
o-Xylene	1.4	0.92 J	6.1	4.0 J
Styrene	1.4	0.42 J	6.0	1.8 J
Cumene	1.4	5.8	6.9	29
Propylbenzene	1.4	0.28 J	6.9	1.4 J
4-Ethyltoluene	1.4	0.88 J	6.9	4.3 J
1,3,5-Trimethylbenzene	1.4	0.39 J	6.9	1.9 J
1,2,4-Trimethylbenzene	1.4	1.1 J	6.9	5.2 J
1,3-Dichlorobenzene	1.4	0.46 J	8.5	2.7 J
1,4-Dichlorobenzene	1.4	0.60 J	8.5	3.6 J
1,2-Dichlorobenzene	1.4	0.36 J	8.5	2.1 J
1,2,4-Trichlorobenzene	5.6	1.1 J	42	8.2 J
Butane	5.6	13	13	31
Isopentane	5.6	21	17	63

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

Client Sample ID: VMP-24-10-072811

Lab ID#: 1107517A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.38 J	6.8	1.9 J
Freon 11	1.4	0.48 J	7.8	2.7 J
Ethanol	5.5	32	10	59
Acetone	5.5	20	13	48
2-Propanol	5.5	16	14	38
Carbon Disulfide	5.5	1.2 J	17	3.7 J
Methylene Chloride	1.4	1.8	4.8	6.2
Hexane	1.4	0.88 J	4.9	3.1 J
2-Butanone (Methyl Ethyl Ketone)	5.5	7.8	16	23
Cyclohexane	1.4	0.45 J	4.8	1.6 J
2,2,4-Trimethylpentane	1.4	0.42 J	6.4	2.0 J
Benzene	1.4	34	4.4	110
Heptane	1.4	0.96 J	5.6	3.9 J
4-Methyl-2-pentanone	1.4	26	5.6	100
Toluene	1.4	6.3	5.2	24
trans-1,3-Dichloropropene	1.4	0.44 J	6.3	2.0 J
2-Hexanone	5.5	1.1 J	23	4.7 J
1,2-Dibromoethane (EDB)	1.4	0.20 J	11	1.5 J
Ethyl Benzene	1.4	0.59 J	6.0	2.6 J
m,p-Xylene	1.4	1.4	6.0	6.2
o-Xylene	1.4	0.34 J	6.0	1.5 J
Styrene	1.4	0.44 J	5.9	1.9 J
Cumene	1.4	6.7	6.8	33
Propylbenzene	1.4	0.23 J	6.8	1.1 J
4-Ethyltoluene	1.4	0.65 J	6.8	3.2 J
1,3,5-Trimethylbenzene	1.4	0.28 J	6.8	1.4 J
1,2,4-Trimethylbenzene	1.4	0.67 J	6.8	3.3 J
1,4-Dichlorobenzene	1.4	0.38 J	8.3	2.3 J
1,2-Dichlorobenzene	1.4	0.23 J	8.3	1.4 J
1,2,4-Trichlorobenzene	5.5	0.70 J	41	5.2 J
Isopentane	5.5	15	16	46

Summary of Detected Compounds

EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-24-22-072811

Lab ID#: 1107517A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.50 J	6.2	2.4 J
Freon 11	1.3	0.34 J	7.1	1.9 J
Ethanol	5.0	18	9.5	34
Acetone	5.0	9.0	12	22
2-Propanol	5.0	5.6	12	14
Carbon Disulfide	5.0	0.96 J	16	3.0 J
Hexane	1.3	0.26 J	4.4	0.91 J
2-Butanone (Methyl Ethyl Ketone)	5.0	4.0 J	15	12 J
2,2,4-Trimethylpentane	1.3	0.17 J	5.9	0.81 J
Benzene	1.3	15	4.0	47
4-Methyl-2-pentanone	1.3	10	5.2	42
Toluene	1.3	1.6	4.7	6.0
1,2-Dibromoethane (EDB)	1.3	0.20 J	9.7	1.6 J
Ethyl Benzene	1.3	0.30 J	5.5	1.3 J
m,p-Xylene	1.3	0.94 J	5.5	4.1 J
o-Xylene	1.3	0.32 J	5.5	1.4 J
Styrene	1.3	0.32 J	5.4	1.4 J
Cumene	1.3	3.9	6.2	19
Propylbenzene	1.3	0.14 J	6.2	0.67 J
4-Ethyltoluene	1.3	0.40 J	6.2	1.9 J
1,3,5-Trimethylbenzene	1.3	0.22 J	6.2	1.1 J
1,2,4-Trimethylbenzene	1.3	0.54 J	6.2	2.6 J
1,4-Dichlorobenzene	1.3	0.27 J	7.6	1.6 J
1,2-Dichlorobenzene	1.3	0.17 J	7.6	1.0 J
1,2,4-Trichlorobenzene	5.0	0.52 J	37	3.9 J

Client Sample ID: VMP-24-22-072811-Dup

Lab ID#: 1107517A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.39 J	7.1	1.9 J

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

Client Sample ID: VMP-24-22-072811-Dup

Lab ID#: 1107517A-09A

Freon 11	1.4	0.36 J	8.1	2.0 J
Ethanol	5.8	15	11	28
Acetone	5.8	6.4	14	15
2-Propanol	5.8	5.8	14	14
Carbon Disulfide	5.8	0.89 J	18	2.8 J
Hexane	1.4	0.28 J	5.1	0.98 J
2-Butanone (Methyl Ethyl Ketone)	5.8	2.4 J	17	7.0 J
Tetrahydrofuran	1.4	1.4	4.3	4.2
2,2,4-Trimethylpentane	1.4	0.30 J	6.8	1.4 J
Benzene	1.4	14	4.6	46
4-Methyl-2-pentanone	1.4	9.9	5.9	41
Toluene	1.4	2.4	5.4	9.0
Ethyl Benzene	1.4	0.35 J	6.3	1.5 J
m,p-Xylene	1.4	0.89 J	6.3	3.9 J
o-Xylene	1.4	0.28 J	6.3	1.2 J
Styrene	1.4	0.32 J	6.2	1.3 J
Cumene	1.4	3.8	7.1	18
Propylbenzene	1.4	0.13 J	7.1	0.64 J
1,3,5-Trimethylbenzene	1.4	0.16 J	7.1	0.76 J
1,2,4-Trimethylbenzene	1.4	0.56 J	7.1	2.7 J
1,4-Dichlorobenzene	1.4	0.34 J	8.7	2.0 J
1,2-Dichlorobenzene	1.4	0.17 J	8.7	1.0 J

Client Sample ID: VMP-24-34-072811

Lab ID#: 1107517A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	0.33 J	5.3	1.6 J
Freon 11	1.1	0.29 J	6.0	1.6 J
Ethanol	4.3	18	8.0	34
Acetone	4.3	13	10	31
2-Propanol	4.3	8.2	10	20
Carbon Disulfide	4.3	1.4 J	13	4.2 J

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

Client Sample ID: VMP-24-34-072811

Lab ID#: 1107517A-10A

Methylene Chloride	1.1	0.52 J	3.7	1.8 J
Hexane	1.1	0.53 J	3.8	1.9 J
2-Butanone (Methyl Ethyl Ketone)	4.3	4.0 J	12	12 J
Cyclohexane	1.1	0.27 J	3.7	0.92 J
2,2,4-Trimethylpentane	1.1	0.74 J	5.0	3.5 J
Benzene	1.1	24	3.4	77
Heptane	1.1	0.40 J	4.4	1.6 J
4-Methyl-2-pentanone	1.1	13	4.4	53
Toluene	1.1	2.2	4.0	8.1
Ethyl Benzene	1.1	0.40 J	4.6	1.7 J
m,p-Xylene	1.1	0.93 J	4.6	4.0 J
o-Xylene	1.1	0.36 J	4.6	1.6 J
Styrene	1.1	0.35 J	4.5	1.5 J
Cumene	1.1	3.4	5.2	16
Propylbenzene	1.1	0.12 J	5.2	0.58 J
4-Ethyltoluene	1.1	0.40 J	5.2	2.0 J
1,3,5-Trimethylbenzene	1.1	0.16 J	5.2	0.80 J
1,2,4-Trimethylbenzene	1.1	0.51 J	5.2	2.5 J
1,4-Dichlorobenzene	1.1	0.25 J	6.4	1.5 J

Client Sample ID: VMP-8-5-072711

Lab ID#: 1107517A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080227	Date of Collection: 7/27/11 2:35:00 PM
Dil. Factor:	2.96	Date of Analysis: 8/2/11 09:25 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.47 J	7.3	2.3 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	5.9	Not Detected	12	Not Detected
Vinyl Chloride	1.5	Not Detected	3.8	Not Detected
1,3-Butadiene	1.5	Not Detected	3.3	Not Detected
Bromomethane	1.5	Not Detected	5.7	Not Detected
Chloroethane	5.9	Not Detected	16	Not Detected
Freon 11	1.5	Not Detected	8.3	Not Detected
Ethanol	5.9	20	11	37
Freon 113	1.5	Not Detected	11	Not Detected
1,1-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Acetone	5.9	16	14	37
2-Propanol	5.9	30	14	75
Carbon Disulfide	5.9	1.2 J	18	3.6 J
3-Chloropropene	5.9	Not Detected	18	Not Detected
Methylene Chloride	1.5	Not Detected	5.1	Not Detected
Methyl tert-butyl ether	1.5	Not Detected	5.3	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Hexane	1.5	0.74 J	5.2	2.6 J
1,1-Dichloroethane	1.5	Not Detected	6.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.9	14	17	42
cis-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.4	Not Detected
Chloroform	1.5	Not Detected	7.2	Not Detected
1,1,1-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Cyclohexane	1.5	0.41 J	5.1	1.4 J
Carbon Tetrachloride	1.5	Not Detected	9.3	Not Detected
2,2,4-Trimethylpentane	1.5	2.4	6.9	11
Benzene	1.5	35	4.7	110
1,2-Dichloroethane	1.5	Not Detected	6.0	Not Detected
Heptane	1.5	0.52 J	6.1	2.1 J
Trichloroethene	1.5	Not Detected	8.0	Not Detected
1,2-Dichloropropane	1.5	Not Detected	6.8	Not Detected
1,4-Dioxane	5.9	Not Detected	21	Not Detected
Bromodichloromethane	1.5	Not Detected	9.9	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
4-Methyl-2-pentanone	1.5	58	6.1	240
Toluene	1.5	6.2	5.6	23
trans-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
1,1,2-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Tetrachloroethene	1.5	0.41 J	10	2.8 J

Client Sample ID: VMP-8-5-072711

Lab ID#: 1107517A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080227	Date of Collection: 7/27/11 2:35:00 PM
Dil. Factor:	2.96	Date of Analysis: 8/2/11 09:25 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.9	1.3 J	24	5.4 J
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	11	Not Detected
Chlorobenzene	1.5	Not Detected	6.8	Not Detected
Ethyl Benzene	1.5	0.60 J	6.4	2.6 J
m,p-Xylene	1.5	1.5	6.4	6.4
o-Xylene	1.5	0.46 J	6.4	2.0 J
Styrene	1.5	0.35 J	6.3	1.5 J
Bromoform	1.5	Not Detected	15	Not Detected
Cumene	1.5	10	7.3	50
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	0.17 J	7.3	0.84 J
4-Ethyltoluene	1.5	0.68 J	7.3	3.3 J
1,3,5-Trimethylbenzene	1.5	0.27 J	7.3	1.3 J
1,2,4-Trimethylbenzene	1.5	0.82 J	7.3	4.0 J
1,3-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,4-Dichlorobenzene	1.5	0.22 J	8.9	1.3 J
alpha-Chlorotoluene	1.5	Not Detected	7.7	Not Detected
1,2-Dichlorobenzene	1.5	Not Detected	8.9	Not Detected
1,2,4-Trichlorobenzene	5.9	Not Detected	44	Not Detected
Hexachlorobutadiene	5.9	Not Detected	63	Not Detected
Butane	5.9	Not Detected	14	Not Detected
Isopentane	5.9	Not Detected	17	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	105	70-130

Client Sample ID: VMP-8-9.5-072711

Lab ID#: 1107517A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080228	Date of Collection:	7/27/11 3:53:00 PM	
Dil. Factor:	2.13	Date of Analysis:	8/2/11 09:45 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	0.38 J	5.3	1.9 J
Freon 114	1.1	Not Detected	7.4	Not Detected
Chloromethane	4.3	Not Detected	8.8	Not Detected
Vinyl Chloride	1.1	Not Detected	2.7	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Bromomethane	1.1	Not Detected	4.1	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
Freon 11	1.1	0.26 J	6.0	1.4 J
Ethanol	4.3	43	8.0	82
Freon 113	1.1	Not Detected	8.2	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.2	Not Detected
Acetone	4.3	15	10	35
2-Propanol	4.3	16	10	40
Carbon Disulfide	4.3	1.0 J	13	3.2 J
3-Chloropropene	4.3	Not Detected	13	Not Detected
Methylene Chloride	1.1	1.9	3.7	6.5
Methyl tert-butyl ether	1.1	Not Detected	3.8	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected
Hexane	1.1	1.4	3.8	4.8
1,1-Dichloroethane	1.1	Not Detected	4.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.3	13	12	38
cis-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.1	Not Detected
Chloroform	1.1	Not Detected	5.2	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.8	Not Detected
Cyclohexane	1.1	0.41 J	3.7	1.4 J
Carbon Tetrachloride	1.1	Not Detected	6.7	Not Detected
2,2,4-Trimethylpentane	1.1	1.8	5.0	8.3
Benzene	1.1	60	3.4	190
1,2-Dichloroethane	1.1	Not Detected	4.3	Not Detected
Heptane	1.1	0.96 J	4.4	3.9 J
Trichloroethene	1.1	Not Detected	5.7	Not Detected
1,2-Dichloropropane	1.1	Not Detected	4.9	Not Detected
1,4-Dioxane	4.3	Not Detected	15	Not Detected
Bromodichloromethane	1.1	Not Detected	7.1	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	4.8	Not Detected
4-Methyl-2-pentanone	1.1	31	4.4	130
Toluene	1.1	5.4	4.0	20
trans-1,3-Dichloropropene	1.1	Not Detected	4.8	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.8	Not Detected
Tetrachloroethene	1.1	0.36 J	7.2	2.5 J

Client Sample ID: VMP-8-9.5-072711

Lab ID#: 1107517A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080228	Date of Collection: 7/27/11 3:53:00 PM
Dil. Factor:	2.13	Date of Analysis: 8/2/11 09:45 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	4.3	1.2 J	17	4.8 J
Dibromochloromethane	1.1	Not Detected	9.1	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.2	Not Detected
Chlorobenzene	1.1	Not Detected	4.9	Not Detected
Ethyl Benzene	1.1	0.65 J	4.6	2.8 J
m,p-Xylene	1.1	1.8	4.6	7.9
o-Xylene	1.1	0.56 J	4.6	2.4 J
Styrene	1.1	0.52 J	4.5	2.2 J
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	9.1	5.2	45
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.3	Not Detected
Propylbenzene	1.1	0.19 J	5.2	0.94 J
4-Ethyltoluene	1.1	0.65 J	5.2	3.2 J
1,3,5-Trimethylbenzene	1.1	0.23 J	5.2	1.1 J
1,2,4-Trimethylbenzene	1.1	0.71 J	5.2	3.5 J
1,3-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,4-Dichlorobenzene	1.1	0.18 J	6.4	1.1 J
alpha-Chlorotoluene	1.1	Not Detected	5.5	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
Hexachlorobutadiene	4.3	Not Detected	45	Not Detected
Butane	4.3	5.0	10	12
Isopentane	4.3	6.8	12	20

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	106	70-130

Client Sample ID: VMP-23-5-072711

Lab ID#: 1107517A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080229	Date of Collection: 7/27/11 9:43:00 AM
Dil. Factor:	2.64	Date of Analysis: 8/2/11 10:18 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.33 J	6.5	1.6 J
Freon 114	1.3	Not Detected	9.2	Not Detected
Chloromethane	5.3	Not Detected	11	Not Detected
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
1,3-Butadiene	1.3	Not Detected	2.9	Not Detected
Bromomethane	1.3	Not Detected	5.1	Not Detected
Chloroethane	5.3	Not Detected	14	Not Detected
Freon 11	1.3	0.30 J	7.4	1.7 J
Ethanol	5.3	31	9.9	58
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Acetone	5.3	26	12	62
2-Propanol	5.3	59	13	140
Carbon Disulfide	5.3	1.0 J	16	3.2 J
3-Chloropropene	5.3	Not Detected	16	Not Detected
Methylene Chloride	1.3	1.8	4.6	6.3
Methyl tert-butyl ether	1.3	Not Detected	4.8	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Hexane	1.3	3.1	4.6	11
1,1-Dichloroethane	1.3	Not Detected	5.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.3	24	16	72
cis-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.9	Not Detected
Chloroform	1.3	Not Detected	6.4	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Cyclohexane	1.3	2.0	4.5	6.8
Carbon Tetrachloride	1.3	Not Detected	8.3	Not Detected
2,2,4-Trimethylpentane	1.3	10	6.2	47
Benzene	1.3	55	4.2	180
1,2-Dichloroethane	1.3	Not Detected	5.3	Not Detected
Heptane	1.3	2.0	5.4	8.3
Trichloroethene	1.3	Not Detected	7.1	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.1	Not Detected
1,4-Dioxane	5.3	2.4 J	19	8.8 J
Bromodichloromethane	1.3	Not Detected	8.8	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
4-Methyl-2-pentanone	1.3	62	5.4	250
Toluene	1.3	9.9	5.0	37
trans-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Tetrachloroethene	1.3	Not Detected	9.0	Not Detected

Client Sample ID: VMP-23-5-072711

Lab ID#: 1107517A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080229	Date of Collection: 7/27/11 9:43:00 AM
Dil. Factor:	2.64	Date of Analysis: 8/2/11 10:18 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.3	1.4 J	22	6.0 J
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	Not Detected	6.1	Not Detected
Ethyl Benzene	1.3	0.54 J	5.7	2.4 J
m,p-Xylene	1.3	1.5	5.7	6.4
o-Xylene	1.3	0.33 J	5.7	1.4 J
Styrene	1.3	0.30 J	5.6	1.3 J
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	7.5	6.5	37
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.1	Not Detected
Propylbenzene	1.3	0.16 J	6.5	0.76 J
4-Ethyltoluene	1.3	Not Detected	6.5	Not Detected
1,3,5-Trimethylbenzene	1.3	0.16 J	6.5	0.78 J
1,2,4-Trimethylbenzene	1.3	0.61 J	6.5	3.0 J
1,3-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.8	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
1,2,4-Trichlorobenzene	5.3	Not Detected	39	Not Detected
Hexachlorobutadiene	5.3	Not Detected	56	Not Detected
Butane	5.3	9.9	12	24
Isopentane	5.3	47	16	140

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: VMP-23-10-072711

Lab ID#: 1107517A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080230	Date of Collection:	7/27/11 10:54:00 AM	
Dil. Factor:	2.52	Date of Analysis:	8/2/11 11:00 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.2	Not Detected
Freon 114	1.3	Not Detected	8.8	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
1,3-Butadiene	1.3	Not Detected	2.8	Not Detected
Bromomethane	1.3	Not Detected	4.9	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	1.3	Not Detected	7.1	Not Detected
Ethanol	5.0	Not Detected	9.5	Not Detected
Freon 113	1.3	Not Detected	9.6	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	5.0	Not Detected	12	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	5.0	Not Detected	16	Not Detected
Methylene Chloride	1.3	Not Detected	4.4	Not Detected
Methyl tert-butyl ether	1.3	Not Detected	4.5	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Hexane	1.3	Not Detected	4.4	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	Not Detected	15	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.7	Not Detected
Chloroform	1.3	Not Detected	6.2	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Cyclohexane	1.3	Not Detected	4.3	Not Detected
Carbon Tetrachloride	1.3	Not Detected	7.9	Not Detected
2,2,4-Trimethylpentane	1.3	Not Detected	5.9	Not Detected
Benzene	1.3	Not Detected	4.0	Not Detected
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected
Heptane	1.3	Not Detected	5.2	Not Detected
Trichloroethene	1.3	Not Detected	6.8	Not Detected
1,2-Dichloropropane	1.3	Not Detected	5.8	Not Detected
1,4-Dioxane	5.0	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.4	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.2	Not Detected
Toluene	1.3	Not Detected	4.7	Not Detected
trans-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Tetrachloroethene	1.3	Not Detected	8.5	Not Detected

Client Sample ID: VMP-23-10-072711

Lab ID#: 1107517A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080230	Date of Collection: 7/27/11 10:54:00 AM
Dil. Factor:	2.52	Date of Analysis: 8/2/11 11:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.0	Not Detected	21	Not Detected
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.7	Not Detected
Chlorobenzene	1.3	Not Detected	5.8	Not Detected
Ethyl Benzene	1.3	Not Detected	5.5	Not Detected
m,p-Xylene	1.3	Not Detected	5.5	Not Detected
o-Xylene	1.3	Not Detected	5.5	Not Detected
Styrene	1.3	Not Detected	5.4	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
Cumene	1.3	Not Detected	6.2	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.6	Not Detected
Propylbenzene	1.3	Not Detected	6.2	Not Detected
4-Ethyltoluene	1.3	Not Detected	6.2	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.5	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,2,4-Trichlorobenzene	5.0	Not Detected	37	Not Detected
Hexachlorobutadiene	5.0	Not Detected	54	Not Detected
Butane	5.0	Not Detected	12	Not Detected
Isopentane	5.0	Not Detected	15	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	87	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: VMP-23-25-072711

Lab ID#: 1107517A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080307	Date of Collection: 7/27/11 12:00:00 PM		
Dil. Factor:	2.89	Date of Analysis: 8/3/11 10:00 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	Not Detected	7.1	Not Detected
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	5.8	Not Detected	12	Not Detected
Vinyl Chloride	1.4	Not Detected	3.7	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	1.4	Not Detected	5.6	Not Detected
Chloroethane	5.8	Not Detected	15	Not Detected
Freon 11	1.4	Not Detected	8.1	Not Detected
Ethanol	5.8	19	11	36
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Acetone	5.8	21	14	50
2-Propanol	5.8	19	14	47
Carbon Disulfide	5.8	2.5 J	18	7.7 J
3-Chloropropene	5.8	Not Detected	18	Not Detected
Methylene Chloride	1.4	Not Detected	5.0	Not Detected
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Hexane	1.4	0.88 J	5.1	3.1 J
1,1-Dichloroethane	1.4	Not Detected	5.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.8	11	17	32
cis-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.3	Not Detected
Chloroform	1.4	Not Detected	7.0	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Cyclohexane	1.4	0.74 J	5.0	2.6 J
Carbon Tetrachloride	1.4	Not Detected	9.1	Not Detected
2,2,4-Trimethylpentane	1.4	9.9	6.8	46
Benzene	1.4	48	4.6	150
1,2-Dichloroethane	1.4	Not Detected	5.8	Not Detected
Heptane	1.4	0.82 J	5.9	3.4 J
Trichloroethene	1.4	Not Detected	7.8	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.7	Not Detected
1,4-Dioxane	5.8	1.6 J	21	5.7 J
Bromodichloromethane	1.4	Not Detected	9.7	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
4-Methyl-2-pentanone	1.4	29	5.9	120
Toluene	1.4	4.3	5.4	16
trans-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Tetrachloroethene	1.4	Not Detected	9.8	Not Detected

Client Sample ID: VMP-23-25-072711

Lab ID#: 1107517A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080307	Date of Collection: 7/27/11 12:00:00 PM
Dil. Factor:	2.89	Date of Analysis: 8/3/11 10:00 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.8	Not Detected	24	Not Detected
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	0.34 J	11	2.6 J
Chlorobenzene	1.4	Not Detected	6.6	Not Detected
Ethyl Benzene	1.4	0.62 J	6.3	2.7 J
m,p-Xylene	1.4	1.5	6.3	6.5
o-Xylene	1.4	0.45 J	6.3	2.0 J
Styrene	1.4	0.50 J	6.2	2.1 J
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	4.8	7.1	24
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.9	Not Detected
Propylbenzene	1.4	Not Detected	7.1	Not Detected
4-Ethyltoluene	1.4	0.61 J	7.1	3.0 J
1,3,5-Trimethylbenzene	1.4	0.50 J	7.1	2.4 J
1,2,4-Trimethylbenzene	1.4	0.81 J	7.1	4.0 J
1,3-Dichlorobenzene	1.4	0.58 J	8.7	3.5 J
1,4-Dichlorobenzene	1.4	0.71 J	8.7	4.3 J
alpha-Chlorotoluene	1.4	Not Detected	7.5	Not Detected
1,2-Dichlorobenzene	1.4	0.50 J	8.7	3.0 J
1,2,4-Trichlorobenzene	5.8	1.6 J	43	12 J
Hexachlorobutadiene	5.8	0.50 J	62	5.4 J
Butane	5.8	Not Detected	14	Not Detected
Isopentane	5.8	Not Detected	17	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	84	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: VMP-24-5-072811

Lab ID#: 1107517A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080308	Date of Collection:	7/28/11 10:03:00 AM	
Dil. Factor:	2.82	Date of Analysis:	8/3/11 10:25 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.40 J	7.0	2.0 J
Freon 114	1.4	Not Detected	9.8	Not Detected
Chloromethane	5.6	2.4 J	12	4.9 J
Vinyl Chloride	1.4	Not Detected	3.6	Not Detected
1,3-Butadiene	1.4	Not Detected	3.1	Not Detected
Bromomethane	1.4	Not Detected	5.5	Not Detected
Chloroethane	5.6	Not Detected	15	Not Detected
Freon 11	1.4	0.28 J	7.9	1.6 J
Ethanol	5.6	21	11	40
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Acetone	5.6	20	13	47
2-Propanol	5.6	7.9	14	19
Carbon Disulfide	5.6	12	18	37
3-Chloropropene	5.6	Not Detected	18	Not Detected
Methylene Chloride	1.4	Not Detected	4.9	Not Detected
Methyl tert-butyl ether	1.4	Not Detected	5.1	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Hexane	1.4	3.2	5.0	11
1,1-Dichloroethane	1.4	Not Detected	5.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.6	7.2	17	21
cis-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.2	Not Detected
Chloroform	1.4	Not Detected	6.9	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Cyclohexane	1.4	1.2 J	4.8	4.0 J
Carbon Tetrachloride	1.4	Not Detected	8.9	Not Detected
2,2,4-Trimethylpentane	1.4	2.5	6.6	12
Benzene	1.4	29	4.5	93
1,2-Dichloroethane	1.4	Not Detected	5.7	Not Detected
Heptane	1.4	1.3 J	5.8	5.4 J
Trichloroethene	1.4	Not Detected	7.6	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.5	Not Detected
1,4-Dioxane	5.6	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.4	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
4-Methyl-2-pentanone	1.4	17	5.8	71
Toluene	1.4	12	5.3	45
trans-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Tetrachloroethene	1.4	Not Detected	9.6	Not Detected

Client Sample ID: VMP-24-5-072811

Lab ID#: 1107517A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080308	Date of Collection: 7/28/11 10:03:00 AM
Dil. Factor:	2.82	Date of Analysis: 8/3/11 10:25 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.6	1.2 J	23	5.1 J
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	0.31 J	11	2.4 J
Chlorobenzene	1.4	Not Detected	6.5	Not Detected
Ethyl Benzene	1.4	0.80 J	6.1	3.5 J
m,p-Xylene	1.4	2.3	6.1	9.9
o-Xylene	1.4	0.92 J	6.1	4.0 J
Styrene	1.4	0.42 J	6.0	1.8 J
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	5.8	6.9	29
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.7	Not Detected
Propylbenzene	1.4	0.28 J	6.9	1.4 J
4-Ethyltoluene	1.4	0.88 J	6.9	4.3 J
1,3,5-Trimethylbenzene	1.4	0.39 J	6.9	1.9 J
1,2,4-Trimethylbenzene	1.4	1.1 J	6.9	5.2 J
1,3-Dichlorobenzene	1.4	0.46 J	8.5	2.7 J
1,4-Dichlorobenzene	1.4	0.60 J	8.5	3.6 J
alpha-Chlorotoluene	1.4	Not Detected	7.3	Not Detected
1,2-Dichlorobenzene	1.4	0.36 J	8.5	2.1 J
1,2,4-Trichlorobenzene	5.6	1.1 J	42	8.2 J
Hexachlorobutadiene	5.6	Not Detected	60	Not Detected
Butane	5.6	13	13	31
Isopentane	5.6	21	17	63

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	105	70-130

Client Sample ID: VMP-24-10-072811

Lab ID#: 1107517A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080309	Date of Collection: 7/28/11 11:15:00 AM
Dil. Factor:	2.76	Date of Analysis: 8/3/11 10:50 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.38 J	6.8	1.9 J
Freon 114	1.4	Not Detected	9.6	Not Detected
Chloromethane	5.5	Not Detected	11	Not Detected
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	1.4	Not Detected	5.4	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	0.48 J	7.8	2.7 J
Ethanol	5.5	32	10	59
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	5.5	20	13	48
2-Propanol	5.5	16	14	38
Carbon Disulfide	5.5	1.2 J	17	3.7 J
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	1.4	1.8	4.8	6.2
Methyl tert-butyl ether	1.4	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	0.88 J	4.9	3.1 J
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	7.8	16	23
cis-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.1	Not Detected
Chloroform	1.4	Not Detected	6.7	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	0.45 J	4.8	1.6 J
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	0.42 J	6.4	2.0 J
Benzene	1.4	34	4.4	110
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	0.96 J	5.6	3.9 J
Trichloroethene	1.4	Not Detected	7.4	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.2	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	26	5.6	100
Toluene	1.4	6.3	5.2	24
trans-1,3-Dichloropropene	1.4	0.44 J	6.3	2.0 J
1,1,2-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Tetrachloroethene	1.4	Not Detected	9.4	Not Detected

Client Sample ID: VMP-24-10-072811

Lab ID#: 1107517A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080309	Date of Collection: 7/28/11 11:15:00 AM
Dil. Factor:	2.76	Date of Analysis: 8/3/11 10:50 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.5	1.1 J	23	4.7 J
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	0.20 J	11	1.5 J
Chlorobenzene	1.4	Not Detected	6.4	Not Detected
Ethyl Benzene	1.4	0.59 J	6.0	2.6 J
m,p-Xylene	1.4	1.4	6.0	6.2
o-Xylene	1.4	0.34 J	6.0	1.5 J
Styrene	1.4	0.44 J	5.9	1.9 J
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	6.7	6.8	33
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	0.23 J	6.8	1.1 J
4-Ethyltoluene	1.4	0.65 J	6.8	3.2 J
1,3,5-Trimethylbenzene	1.4	0.28 J	6.8	1.4 J
1,2,4-Trimethylbenzene	1.4	0.67 J	6.8	3.3 J
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	0.38 J	8.3	2.3 J
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	0.23 J	8.3	1.4 J
1,2,4-Trichlorobenzene	5.5	0.70 J	41	5.2 J
Hexachlorobutadiene	5.5	Not Detected	59	Not Detected
Butane	5.5	Not Detected	13	Not Detected
Isopentane	5.5	15	16	46

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: VMP-24-22-072811

Lab ID#: 1107517A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080310	Date of Collection: 7/28/11 12:35:00 PM
Dil. Factor:	2.52	Date of Analysis: 8/3/11 11:08 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.50 J	6.2	2.4 J
Freon 114	1.3	Not Detected	8.8	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
1,3-Butadiene	1.3	Not Detected	2.8	Not Detected
Bromomethane	1.3	Not Detected	4.9	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	1.3	0.34 J	7.1	1.9 J
Ethanol	5.0	18	9.5	34
Freon 113	1.3	Not Detected	9.6	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Acetone	5.0	9.0	12	22
2-Propanol	5.0	5.6	12	14
Carbon Disulfide	5.0	0.96 J	16	3.0 J
3-Chloropropene	5.0	Not Detected	16	Not Detected
Methylene Chloride	1.3	Not Detected	4.4	Not Detected
Methyl tert-butyl ether	1.3	Not Detected	4.5	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Hexane	1.3	0.26 J	4.4	0.91 J
1,1-Dichloroethane	1.3	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	4.0 J	15	12 J
cis-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.7	Not Detected
Chloroform	1.3	Not Detected	6.2	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Cyclohexane	1.3	Not Detected	4.3	Not Detected
Carbon Tetrachloride	1.3	Not Detected	7.9	Not Detected
2,2,4-Trimethylpentane	1.3	0.17 J	5.9	0.81 J
Benzene	1.3	15	4.0	47
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected
Heptane	1.3	Not Detected	5.2	Not Detected
Trichloroethene	1.3	Not Detected	6.8	Not Detected
1,2-Dichloropropane	1.3	Not Detected	5.8	Not Detected
1,4-Dioxane	5.0	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.4	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
4-Methyl-2-pentanone	1.3	10	5.2	42
Toluene	1.3	1.6	4.7	6.0
trans-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Tetrachloroethene	1.3	Not Detected	8.5	Not Detected

Client Sample ID: VMP-24-22-072811

Lab ID#: 1107517A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080310	Date of Collection: 7/28/11 12:35:00 PM
Dil. Factor:	2.52	Date of Analysis: 8/3/11 11:08 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.0	Not Detected	21	Not Detected
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	0.20 J	9.7	1.6 J
Chlorobenzene	1.3	Not Detected	5.8	Not Detected
Ethyl Benzene	1.3	0.30 J	5.5	1.3 J
m,p-Xylene	1.3	0.94 J	5.5	4.1 J
o-Xylene	1.3	0.32 J	5.5	1.4 J
Styrene	1.3	0.32 J	5.4	1.4 J
Bromoform	1.3	Not Detected	13	Not Detected
Cumene	1.3	3.9	6.2	19
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.6	Not Detected
Propylbenzene	1.3	0.14 J	6.2	0.67 J
4-Ethyltoluene	1.3	0.40 J	6.2	1.9 J
1,3,5-Trimethylbenzene	1.3	0.22 J	6.2	1.1 J
1,2,4-Trimethylbenzene	1.3	0.54 J	6.2	2.6 J
1,3-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,4-Dichlorobenzene	1.3	0.27 J	7.6	1.6 J
alpha-Chlorotoluene	1.3	Not Detected	6.5	Not Detected
1,2-Dichlorobenzene	1.3	0.17 J	7.6	1.0 J
1,2,4-Trichlorobenzene	5.0	0.52 J	37	3.9 J
Hexachlorobutadiene	5.0	Not Detected	54	Not Detected
Butane	5.0	Not Detected	12	Not Detected
Isopentane	5.0	Not Detected	15	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	87	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: VMP-24-22-072811-Dup

Lab ID#: 1107517A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080311	Date of Collection:	7/28/11 12:35:00 PM	
Dil. Factor:	2.89	Date of Analysis:	8/3/11 11:27 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.39 J ✓	7.1	1.9 J
Freon 114	1.4	Not Detected	10	Not Detected
Chloromethane	5.8	Not Detected	12	Not Detected
Vinyl Chloride	1.4	Not Detected	3.7	Not Detected
1,3-Butadiene	1.4	Not Detected	3.2	Not Detected
Bromomethane	1.4	Not Detected	5.6	Not Detected
Chloroethane	5.8	Not Detected	15	Not Detected
Freon 11	1.4	0.36 J ✓	8.1	2.0 J
Ethanol	5.8	15 ✓	11	28
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Acetone	5.8	6.4 ✓	14	15
2-Propanol	5.8	5.8 ✓	14	14
Carbon Disulfide	5.8	0.89 J ✓	18	2.8 J
3-Chloropropene	5.8	Not Detected	18	Not Detected
Methylene Chloride	1.4	Not Detected	5.0	Not Detected
Methyl tert-butyl ether	1.4	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Hexane	1.4	0.28 J ✓	5.1	0.98 J
1,1-Dichloroethane	1.4	Not Detected	5.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.8	2.4 J ✓	17	7.0 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.7	Not Detected
Tetrahydrofuran	1.4	1.4 ✓	4.3	4.2
Chloroform	1.4	Not Detected	7.0	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Cyclohexane	1.4	Not Detected	5.0	Not Detected
Carbon Tetrachloride	1.4	Not Detected	9.1	Not Detected
2,2,4-Trimethylpentane	1.4	0.30 J ✓	6.8	1.4 J
Benzene	1.4	14 ✓	4.6	46
1,2-Dichloroethane	1.4	Not Detected	5.8	Not Detected
Heptane	1.4	Not Detected	5.9	Not Detected
Trichloroethene	1.4	Not Detected	7.8	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.7	Not Detected
1,4-Dioxane	5.8	Not Detected	21	Not Detected
Bromodichloromethane	1.4	Not Detected	9.7	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
4-Methyl-2-pentanone	1.4	9.9 ✓	5.9	41
Toluene	1.4	2.4 ✓	5.4	9.0
trans-1,3-Dichloropropene	1.4	Not Detected	6.6	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.9	Not Detected
Tetrachloroethene	1.4	Not Detected	9.8	Not Detected

Client Sample ID: VMP-24-22-072811-Dup

Lab ID#: 1107517A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080311	Date of Collection: 7/28/11 12:35:00 PM
Dil. Factor:	2.89	Date of Analysis: 8/3/11 11:27 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.8	Not Detected	24	Not Detected
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.6	Not Detected
Ethyl Benzene	1.4	0.35 J	6.3	1.5 J
m,p-Xylene	1.4	0.89 J	6.3	3.9 J
o-Xylene	1.4	0.28 J	6.3	1.2 J
Styrene	1.4	0.32 J	6.2	1.3 J
Bromoform	1.4	Not Detected	15	Not Detected
Cumene	1.4	3.8	7.1	18
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.9	Not Detected
Propylbenzene	1.4	0.13 J	7.1	0.64 J
4-Ethyltoluene	1.4	Not Detected	7.1	Not Detected
1,3,5-Trimethylbenzene	1.4	0.16 J	7.1	0.76 J
1,2,4-Trimethylbenzene	1.4	0.56 J	7.1	2.7 J
1,3-Dichlorobenzene	1.4	Not Detected	8.7	Not Detected
1,4-Dichlorobenzene	1.4	0.34 J	8.7	2.0 J
alpha-Chlorotoluene	1.4	Not Detected	7.5	Not Detected
1,2-Dichlorobenzene	1.4	0.17 J	8.7	1.0 J
1,2,4-Trichlorobenzene	5.8	Not Detected	43	Not Detected
Hexachlorobutadiene	5.8	Not Detected	62	Not Detected
Butane	5.8	Not Detected	14	Not Detected
Isopentane	5.8	Not Detected	17	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	86	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: VMP-24-34-072811

Lab ID#: 1107517A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080312	Date of Collection: 7/28/11 1:44:00 PM
Dil. Factor:	2.13	Date of Analysis: 8/3/11 11:52 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	0.33 J	5.3	1.6 J
Freon 114	1.1	Not Detected	7.4	Not Detected
Chloromethane	4.3	Not Detected	8.8	Not Detected
Vinyl Chloride	1.1	Not Detected	2.7	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Bromomethane	1.1	Not Detected	4.1	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
Freon 11	1.1	0.29 J	6.0	1.6 J
Ethanol	4.3	18	8.0	34
Freon 113	1.1	Not Detected	8.2	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.2	Not Detected
Acetone	4.3	13	10	31
2-Propanol	4.3	8.2	10	20
Carbon Disulfide	4.3	1.4 J	13	4.2 J
3-Chloropropene	4.3	Not Detected	13	Not Detected
Methylene Chloride	1.1	0.52 J	3.7	1.8 J
Methyl tert-butyl ether	1.1	Not Detected	3.8	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected
Hexane	1.1	0.53 J	3.8	1.9 J
1,1-Dichloroethane	1.1	Not Detected	4.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.3	4.0 J	12	12 J
cis-1,2-Dichloroethene	1.1	Not Detected	4.2	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.1	Not Detected
Chloroform	1.1	Not Detected	5.2	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.8	Not Detected
Cyclohexane	1.1	0.27 J	3.7	0.92 J
Carbon Tetrachloride	1.1	Not Detected	6.7	Not Detected
2,2,4-Trimethylpentane	1.1	0.74 J	5.0	3.5 J
Benzene	1.1	24	3.4	77
1,2-Dichloroethane	1.1	Not Detected	4.3	Not Detected
Heptane	1.1	0.40 J	4.4	1.6 J
Trichloroethene	1.1	Not Detected	5.7	Not Detected
1,2-Dichloropropane	1.1	Not Detected	4.9	Not Detected
1,4-Dioxane	4.3	Not Detected	15	Not Detected
Bromodichloromethane	1.1	Not Detected	7.1	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	4.8	Not Detected
4-Methyl-2-pentanone	1.1	13	4.4	53
Toluene	1.1	2.2	4.0	8.1
trans-1,3-Dichloropropene	1.1	Not Detected	4.8	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.8	Not Detected
Tetrachloroethene	1.1	Not Detected	7.2	Not Detected

Client Sample ID: VMP-24-34-072811

Lab ID#: 1107517A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080312	Date of Collection: 7/28/11 1:44:00 PM
Dil. Factor:	2.13	Date of Analysis: 8/3/11 11:52 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	4.3	Not Detected	17	Not Detected
Dibromochloromethane	1.1	Not Detected	9.1	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.2	Not Detected
Chlorobenzene	1.1	Not Detected	4.9	Not Detected
Ethyl Benzene	1.1	0.40 J	4.6	1.7 J
m,p-Xylene	1.1	0.93 J	4.6	4.0 J
o-Xylene	1.1	0.36 J	4.6	1.6 J
Styrene	1.1	0.35 J	4.5	1.5 J
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	3.4	5.2	16
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.3	Not Detected
Propylbenzene	1.1	0.12 J	5.2	0.58 J
4-Ethyltoluene	1.1	0.40 J	5.2	2.0 J
1,3,5-Trimethylbenzene	1.1	0.16 J	5.2	0.80 J
1,2,4-Trimethylbenzene	1.1	0.51 J	5.2	2.5 J
1,3-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,4-Dichlorobenzene	1.1	0.25 J	6.4	1.5 J
alpha-Chlorotoluene	1.1	Not Detected	5.5	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.4	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
Hexachlorobutadiene	4.3	Not Detected	45	Not Detected
Butane	4.3	Not Detected	10	Not Detected
Isopentane	4.3	Not Detected	12	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	83	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: Lab Blank

Lab ID#: 1107517A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080211e	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/2/11 11:22 AM

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

Client Sample ID: Lab Blank

Lab ID#: 1107517A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080211e	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/2/11 11:22 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: Lab Blank

Lab ID#: 1107517A-11B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080306a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 09:29 AM

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

Client Sample ID: Lab Blank

Lab ID#: 1107517A-11B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080306a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 09:29 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: CCV

Lab ID#: 1107517A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/2/11 07:37 AM

Compound	%Recovery
Freon 12	93
Freon 114	103
Chloromethane	92
Vinyl Chloride	92
1,3-Butadiene	92
Bromomethane	98
Chloroethane	89
Freon 11	105
Ethanol	110
Freon 113	107
1,1-Dichloroethene	105
Acetone	83
2-Propanol	113
Carbon Disulfide	104
3-Chloropropene	106
Methylene Chloride	83
Methyl tert-butyl ether	106
trans-1,2-Dichloroethene	107
Hexane	98
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	102
Tetrahydrofuran	85
Chloroform	96
1,1,1-Trichloroethane	93
Cyclohexane	105
Carbon Tetrachloride	86
2,2,4-Trimethylpentane	97
Benzene	102
1,2-Dichloroethane	85
Heptane	105
Trichloroethene	96
1,2-Dichloropropane	90
1,4-Dioxane	121
Bromodichloromethane	95
cis-1,3-Dichloropropene	100
4-Methyl-2-pentanone	94
Toluene	97
trans-1,3-Dichloropropene	109
1,1,2-Trichloroethane	104
Tetrachloroethene	110

Client Sample ID: CCV

Lab ID#: 1107517A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/2/11 07:37 AM

Compound	%Recovery
2-Hexanone	105
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	105
Chlorobenzene	103
Ethyl Benzene	107
m,p-Xylene	109
o-Xylene	114
Styrene	110
Bromoform	113
Cumene	112
1,1,2,2-Tetrachloroethane	94
Propylbenzene	104
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	111
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	117
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	102
Hexachlorobutadiene	108
Butane	94
Isopentane	105 ✓

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	81	70-130
4-Bromofluorobenzene	103 ✓	70-130

Client Sample ID: CCV

Lab ID#: 1107517A-12B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080303	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 08:16 AM

Compound	%Recovery
Freon 12	99
Freon 114	107
Chloromethane	91
Vinyl Chloride	97
1,3-Butadiene	95
Bromomethane	97
Chloroethane	89
Freon 11	112
Ethanol	105
Freon 113	109
1,1-Dichloroethene	107
Acetone	85
2-Propanol	112
Carbon Disulfide	103
3-Chloropropene	104
Methylene Chloride	85
Methyl tert-butyl ether	109
trans-1,2-Dichloroethene	108
Hexane	98
1,1-Dichloroethane	94
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	103
Tetrahydrofuran	87
Chloroform	98
1,1,1-Trichloroethane	99
Cyclohexane	105
Carbon Tetrachloride	96
2,2,4-Trimethylpentane	94
Benzene	102
1,2-Dichloroethane	91
Heptane	106
Trichloroethene	100
1,2-Dichloropropane	90
1,4-Dioxane	121
Bromodichloromethane	99
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	96
Toluene	99
trans-1,3-Dichloropropene	113
1,1,2-Trichloroethane	106
Tetrachloroethene	112

Client Sample ID: CCV

Lab ID#: 1107517A-12B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080303	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 08:16 AM

Compound	%Recovery
2-Hexanone	106
Dibromochloromethane	115
1,2-Dibromoethane (EDB)	106
Chlorobenzene	105
Ethyl Benzene	108
m,p-Xylene	110
o-Xylene	115
Styrene	111
Bromoform	116
Cumene	116
1,1,2,2-Tetrachloroethane	95
Propylbenzene	107
4-Ethyltoluene	108
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	111
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	119
1,2-Dichlorobenzene	103
1,2,4-Trichlorobenzene	102
Hexachlorobutadiene	112
Butane	95
Isopentane	111

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	87	70-130
4-Bromofluorobenzene	106	70-130

Client Sample ID: LCS

Lab ID#: 1107517A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/2/11 08:18 AM

Compound	%Recovery
Freon 12	90
Freon 114	97
Chloromethane	87
Vinyl Chloride	89
1,3-Butadiene	94
Bromomethane	91
Chloroethane	86
Freon 11	100
Ethanol	100
Freon 113	102
1,1-Dichloroethene	107
Acetone	80
2-Propanol	105
Carbon Disulfide	121
3-Chloropropene	113
Methylene Chloride	78
Methyl tert-butyl ether	99
trans-1,2-Dichloroethene	114
Hexane	91
1,1-Dichloroethane	87
2-Butanone (Methyl Ethyl Ketone)	98
cis-1,2-Dichloroethene	99
Tetrahydrofuran	78
Chloroform	91
1,1,1-Trichloroethane	88
Cyclohexane	100
Carbon Tetrachloride	80
2,2,4-Trimethylpentane	89
Benzene	96
1,2-Dichloroethane	80
Heptane	98
Trichloroethene	91
1,2-Dichloropropane	82
1,4-Dioxane	107
Bromodichloromethane	88
cis-1,3-Dichloropropene	93
4-Methyl-2-pentanone	84
Toluene	90
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	98
Tetrachloroethene	103

Client Sample ID: LCS

Lab ID#: 1107517A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/2/11 08:18 AM

Compound	%Recovery
2-Hexanone	92
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	98
Chlorobenzene	97
Ethyl Benzene	98
m,p-Xylene	102
o-Xylene	105
Styrene	100
Bromoform	101
Cumene	105
1,1,2,2-Tetrachloroethane	87
Propylbenzene	98
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	106
1,2-Dichlorobenzene	95
1,2,4-Trichlorobenzene	103
Hexachlorobutadiene	106
Butane	85
Isopentane	104

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	80	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: LCSD

Lab ID#: 1107517A-13AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080205	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/2/11 08:47 AM

Compound	%Recovery
Freon 12	88
Freon 114	95
Chloromethane	86
Vinyl Chloride	88
1,3-Butadiene	92
Bromomethane	89
Chloroethane	84
Freon 11	98
Ethanol	96
Freon 113	99
1,1-Dichloroethene	106
Acetone	79
2-Propanol	103
Carbon Disulfide	120
3-Chloropropene	114
Methylene Chloride	76
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	113
Hexane	90
1,1-Dichloroethane	86
2-Butanone (Methyl Ethyl Ketone)	97
cis-1,2-Dichloroethene	99
Tetrahydrofuran	77
Chloroform	89
1,1,1-Trichloroethane	86
Cyclohexane	98
Carbon Tetrachloride	82
2,2,4-Trimethylpentane	86
Benzene	95
1,2-Dichloroethane	79
Heptane	96
Trichloroethene	90
1,2-Dichloropropane	83
1,4-Dioxane	106
Bromodichloromethane	87
cis-1,3-Dichloropropene	92
4-Methyl-2-pentanone	84
Toluene	88
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	97
Tetrachloroethene	103

Client Sample ID: LCSD

Lab ID#: 1107517A-13AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080205	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/2/11 08:47 AM

Compound	%Recovery
2-Hexanone	94
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	97
Chlorobenzene	96
Ethyl Benzene	99
m,p-Xylene	102
o-Xylene	106
Styrene	107
Bromoform	103
Cumene	106
1,1,2,2-Tetrachloroethane	88
Propylbenzene	100
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	97
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	108
1,2-Dichlorobenzene	97
1,2,4-Trichlorobenzene	105
Hexachlorobutadiene	108
Butane	83
Isopentane	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	79	70-130
4-Bromofluorobenzene	105	70-130

Client Sample ID: LCS

Lab ID#: 1107517A-13B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080304	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 08:49 AM

Compound	%Recovery
Freon 12	92
Freon 114	96
Chloromethane	85
Vinyl Chloride	89
1,3-Butadiene	93
Bromomethane	88
Chloroethane	82
Freon 11	129
Ethanol	97
Freon 113	99
1,1-Dichloroethene	104
Acetone	77
2-Propanol	101
Carbon Disulfide	118
3-Chloropropene	112
Methylene Chloride	76
Methyl tert-butyl ether	97
trans-1,2-Dichloroethene	112
Hexane	88
1,1-Dichloroethane	86
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	98
Tetrahydrofuran	75
Chloroform	91
1,1,1-Trichloroethane	90
Cyclohexane	96
Carbon Tetrachloride	84
2,2,4-Trimethylpentane	86
Benzene	94
1,2-Dichloroethane	84
Heptane	95
Trichloroethene	92
1,2-Dichloropropane	82
1,4-Dioxane	103
Bromodichloromethane	90
cis-1,3-Dichloropropene	93
4-Methyl-2-pentanone	84
Toluene	88
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	96
Tetrachloroethene	101

Client Sample ID: LCS

Lab ID#: 1107517A-13B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080304	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 08:49 AM

Compound	%Recovery
2-Hexanone	92
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	99
Chlorobenzene	96
Ethyl Benzene	98
m,p-Xylene	100
o-Xylene	102
Styrene	99
Bromoform	104
Cumene	104
1,1,2,2-Tetrachloroethane	88
Propylbenzene	99
4-Ethyltoluene	94
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	99
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	111
1,2-Dichlorobenzene	95
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	108
Butane	83
Isopentane	95

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	83	70-130
4-Bromofluorobenzene	104	70-130

Client Sample ID: LCSD

Lab ID#: 1107517A-13BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080305	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 09:07 AM

Compound	%Recovery
Freon 12	93
Freon 114	98
Chloromethane	88
Vinyl Chloride	94
1,3-Butadiene	98
Bromomethane	87
Chloroethane	85
Freon 11	104
Ethanol	102
Freon 113	102
1,1-Dichloroethene	105
Acetone	80
2-Propanol	107
Carbon Disulfide	122
3-Chloropropene	114
Methylene Chloride	80
Methyl tert-butyl ether	99
trans-1,2-Dichloroethene	113
Hexane	90
1,1-Dichloroethane	88
2-Butanone (Methyl Ethyl Ketone)	96
cis-1,2-Dichloroethene	99
Tetrahydrofuran	79
Chloroform	93
1,1,1-Trichloroethane	91
Cyclohexane	97
Carbon Tetrachloride	86
2,2,4-Trimethylpentane	90
Benzene	93
1,2-Dichloroethane	82
Heptane	95
Trichloroethene	91
1,2-Dichloropropane	82
1,4-Dioxane	104
Bromodichloromethane	90
cis-1,3-Dichloropropene	92
4-Methyl-2-pentanone	82
Toluene	87
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	95
Tetrachloroethene	101

Client Sample ID: LCSD

Lab ID#: 1107517A-13BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	3080305	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 09:07 AM

Compound	%Recovery
2-Hexanone	91
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	97
Chlorobenzene	96
Ethyl Benzene	98
m,p-Xylene	102
o-Xylene	103
Styrene	99
Bromoform	103
Cumene	105
1,1,2,2-Tetrachloroethane	88
Propylbenzene	100
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	111
1,2-Dichlorobenzene	98
1,2,4-Trichlorobenzene	109
Hexachlorobutadiene	113
Butane	91
Isopentane	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	86	70-130
4-Bromofluorobenzene	103	70-130

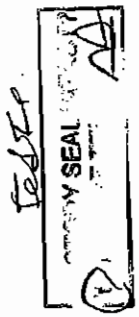
1107517



Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. Project Name: Roxana Soil Vapor Project # 21562593.00009		INCIDENT # (ENV. SERVICES) 9 7 2 1 0 0 4 0 DATE: 07/28/11 PAGE: 1 of 1	
Lab Vendor #		BAP #	
URS CORPORATION 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110		Roxana Soil Vapor	
Air Toxics, LTD. 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4718		Elizabeth Kunkel, URS, St. Louis	
314-429-0100		314-743-4179	
314-429-0462		Elizabeth Kunkel@URS.com	
314-429-0462		M. Miller, W. Buchman, D. Mattingly	
TURNAROUND TIME (CALENDAR DAYS): ☒ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ 5 DAYS ☐ 7 DAYS ☐ 14 DAYS		RESULTS REQUIRED ON WEDNESDAY	
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☒ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY)			
Field Sample Identification		REQUESTED ANALYSIS	
DATE	TIME	Turn Around Time:	Lab Use Only
VMP-8-5-072711	07/27/11 1405 - 1435	☒ Normal ☐ Rush	Pressurized by:
VMP-8-9-5-072711	07/27/11 1617 - 1503		Date:
VMP-23-5-072711	07/27/11 0911 - 0943		Pressurization Case:
VMP-23-10-072711	07/27/11 1029 - 1044		
VMP-23-25-072711	07/27/11 1134 - 1200		
VMP-24-5-072811	07/28/11 0928 - 1003		
VMP-24-10-072811	07/28/11 1043 - 1115		
VMP-24-22-072811	07/28/11 1159 - 1235		
VMP-24-22-072811-Dup	07/28/11 1159 - 1235		
VMP-24-34-072811	07/28/11 1314 - 1344		
Received by: (Signature)		Time: 7/28/11 1700	
Received by: (Signature)		Time: 7/28/11 0900	
Received by: (Signature)		Time:	



8/11/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562593.00009
Workorder #: 1107517B

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 7/29/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

Reviewed
on
8/26/2011

WORK ORDER #: 1107517B

Work Order Summary

CLIENT: Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-429-0100

P.O. # 21562593.00007

FAX:

PROJECT # 21562593.00009 Roxana Soil Vapor

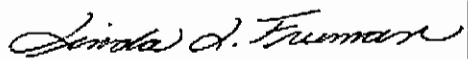
DATE RECEIVED: 07/29/2011

CONTACT: Kelly Buettner

DATE COMPLETED: 08/11/2011

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-8-5-072711	Modified ASTM D-1946	9.5 "Hg	15 psi
02A	VMP-8-9-5-072711	Modified ASTM D-1946	1.5 "Hg	15 psi
03A	VMP-23-5-072711	Modified ASTM D-1946	7.0 "Hg	15 psi
04A	VMP-23-10-072711	Modified ASTM D-1946	6.0 "Hg	15 psi
05A	VMP-23-25-072711	Modified ASTM D-1946	9.0 "Hg	15 psi
06A	VMP-24-5-072811	Modified ASTM D-1946	8.5 "Hg	15 psi
07A	VMP-24-10-072811	Modified ASTM D-1946	8.0 "Hg	15 psi
08A	VMP-24-22-072811	Modified ASTM D-1946	6.0 "Hg	15 psi
09A	VMP-24-22-072811-Dup	Modified ASTM D-1946	9.0 "Hg	15 psi
10A	VMP-24-34-072811	Modified ASTM D-1946	1.5 "Hg	15 psi
11A	Lab Blank	Modified ASTM D-1946	NA	NA
11B	Lab Blank	Modified ASTM D-1946	NA	NA
12A	LCS	Modified ASTM D-1946	NA	NA
12AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY:



Laboratory Director

DATE: 08/11/11

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

**LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1107517B**

Ten 1 Liter Summa Canister samples were received on July 29, 2011. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

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

<i>Requirement</i>	<i>ASTM D-1946</i>	<i>ATL Modifications</i>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections $> 5 \times$ the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

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 detection limit.

M - Reported value may be biased due to apparent matrix interferences.

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

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-8-5-072711

Lab ID#: 1107517B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	12
Nitrogen	0.30	79
Methane	0.00030	0.000085 J
Carbon Dioxide	0.030	8.8
Helium	0.15	0.018 J

Client Sample ID: VMP-8-9.5-072711

Lab ID#: 1107517B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.40	15
Nitrogen	0.40	78
Carbon Dioxide	0.040	7.2
Helium	0.20	0.0098 J

Client Sample ID: VMP-23-5-072711

Lab ID#: 1107517B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	10
Nitrogen	0.26	82
Methane	0.00026	0.00018 J
Carbon Dioxide	0.026	7.7
Helium	0.13	0.018 J

Client Sample ID: VMP-23-10-072711

Lab ID#: 1107517B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	6.6
Nitrogen	0.25	84

Summary of Detected Compounds

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-23-10-072711

Lab ID#: 1107517B-04A

Carbon Dioxide	0.025	9.4
Helium	0.13	0.045 J

Client Sample ID: VMP-23-25-072711

Lab ID#: 1107517B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	1.9
Nitrogen	0.29	86
Methane	0.00029	0.0011
Carbon Dioxide	0.029	12
Helium	0.14	0.0063 J

Client Sample ID: VMP-24-5-072811

Lab ID#: 1107517B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	16
Nitrogen	0.28	77
Methane	0.00028	0.00016 J
Carbon Dioxide	0.028	6.6
Helium	0.14	0.71

Client Sample ID: VMP-24-10-072811

Lab ID#: 1107517B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	12
Nitrogen	0.28	79
Methane	0.00028	0.00013 J
Carbon Dioxide	0.028	8.9
Helium	0.14	0.0098 J

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-24-22-072811

Lab ID#: 1107517B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	12
Nitrogen	0.25	78
Methane	0.00025	0.00016 J
Carbon Dioxide	0.025	9.6
Helium	0.13	0.0046 J

Client Sample ID: VMP-24-22-072811-Dup

Lab ID#: 1107517B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	12
Nitrogen	0.29	78
Methane	0.00029	0.00017 J
Carbon Dioxide	0.029	9.7

Client Sample ID: VMP-24-34-072811

Lab ID#: 1107517B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	14
Nitrogen	0.21	78
Methane	0.00021	0.00014 J
Carbon Dioxide	0.021	7.5
Helium	0.11	0.024 J

Client Sample ID: VMP-8-5-072711

Lab ID#: 1107517B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080915	Date of Collection: 7/27/11 2:35:00 PM
Dil. Factor:	2.96	Date of Analysis: 8/9/11 10:44 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	12
Nitrogen	0.30	79
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.000085 J
Carbon Dioxide	0.030	8.8
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.018 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-8-9.5-072711

Lab ID#: 1107517B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080916	Date of Collection: 7/27/11 3:53:00 PM
Dil. Factor:	4.02	Date of Analysis: 8/9/11 11:08 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.40	15
Nitrogen	0.40	78
Carbon Monoxide	0.040	Not Detected
Methane	0.00040	Not Detected
Carbon Dioxide	0.040	7.2
Ethane	0.0040	Not Detected
Ethene	0.0040	Not Detected
Helium	0.20	0.0098 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-23-5-072711

Lab ID#: 1107517B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080917	Date of Collection: 7/27/11 9:43:00 AM
Dil. Factor:	2.64	Date of Analysis: 8/9/11 11:32 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	10
Nitrogen	0.26	82
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.00018 J
Carbon Dioxide	0.026	7.7
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.018 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-23-10-072711

Lab ID#: 1107517B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080918	Date of Collection: 7/27/11 10:54:00 AM
Dil. Factor:	2.52	Date of Analysis: 8/9/11 11:54 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	6.6
Nitrogen	0.25	84
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	Not Detected
Carbon Dioxide	0.025	9.4
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.13	0.045 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-23-25-072711

Lab ID#: 1107517B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080919	Date of Collection: 7/27/11 12:00:00 PM
Dil. Factor:	2.89	Date of Analysis: 8/9/11 12:16 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	1.9
Nitrogen	0.29	86
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.0011
Carbon Dioxide	0.029	12
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.0063 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-24-5-072811

Lab ID#: 1107517B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080920	Date of Collection: 7/28/11 10:03:00 AM
Dil. Factor:	2.82	Date of Analysis: 8/9/11 12:38 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	16
Nitrogen	0.28	77
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.00016 J
Carbon Dioxide	0.028	6.6
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.71

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-24-10-072811

Lab ID#: 1107517B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080921	Date of Collection: 7/28/11 11:15:00 AM
Dil. Factor:	2.76	Date of Analysis: 8/9/11 01:07 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	12
Nitrogen	0.28	79
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.00013 J
Carbon Dioxide	0.028	8.9
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.0098 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-24-22-072811

Lab ID#: 1107517B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080922	Date of Collection: 7/28/11 12:35:00 PM
Dil. Factor:	2.52	Date of Analysis: 8/9/11 01:29 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	12
Nitrogen	0.25	78
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	0.00016 J
Carbon Dioxide	0.025	9.6
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.13	0.0046 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-24-22-072811-Dup

Lab ID#: 1107517B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080923	Date of Collection: 7/28/11 12:35:00 PM
Dil. Factor:	2.89	Date of Analysis: 8/9/11 01:50 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	12
Nitrogen	0.29	78
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.00017 J
Carbon Dioxide	0.029	9.7
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-24-34-072811

Lab ID#: 1107517B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080924	Date of Collection: 7/28/11 1:44:00 PM
Dil. Factor:	2.13	Date of Analysis: 8/9/11 02:14 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	14
Nitrogen	0.21	78
Carbon Monoxide	0.021	Not Detected
Methane	0.00021	0.00014 J
Carbon Dioxide	0.021	7.5
Ethane	0.0021	Not Detected
Ethene	0.0021	Not Detected
Helium	0.11	0.024 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: Lab Blank

Lab ID#: 1107517B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080905a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/8/11 08:53 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	0.056 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Client Sample ID: Lab Blank

Lab ID#: 1107517B-11B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080904ba	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/8/11 08:30 PM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

Client Sample ID: LCS

Lab ID#: 1107517B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080902	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/8/11 07:46 PM

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	100
Methane	100
Carbon Dioxide	100
Ethane	102
Ethene	101
Helium	94

Container Type: NA - Not Applicable

Client Sample ID: LCSD

Lab ID#: 1107517B-12AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9080927	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/9/11 03:25 PM

Compound	%Recovery
Oxygen	99
Nitrogen	100
Carbon Monoxide	99
Methane	98
Carbon Dioxide	101
Ethane	101
Ethene	99
Helium	94

Container Type: NA - Not Applicable

URS

Tested

Roxana Soil Vapor Quarterly – 3rd Quarter 2011 Data Review

Laboratory SDG: 1107528A, B

Data Reviewer: Steve Gragert

Peer Reviewer: Jeff Aust

Date Reviewed: 8/24/2011

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
VMP-18-8.5-072811	VMP-10-10-072911
VMP-10-5-07/2911	VMP-10-20-072911

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Although not indicated in the laboratory case narrative, analytes were detected in the method blank. This issue is addressed further in the appropriate section below.

No issues or discrepancies were noted in the cooler receipt form.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1107528A-05A	TO-15	Methylene chloride	0.11 ppbv / 0.37 µg/m ³
1107528A-05A	TO-15	trans-1,3-Dichloropropene	0.086 ppbv / 0.39 µg/m ³
1107528A-05A	TO-15	2-Hexanone	0.14 ppbv / 0.56 µg/m ³
1107528A-05A	TO-15	Bromoform	0.058 ppbv / 0.59 µg/m ³
1107528A-05A	TO-15	4-Ethyltoluene	0.10 ppbv / 0.49 µg/m ³
1107528A-05A	TO-15	1,3,5-Trimethylbenzene	0.070 ppbv / 0.35 µg/m ³
1107528A-05A	TO-15	1,2,4-Trimethylbenzene	0.10 ppbv / 0.50 µg/m ³
1107528A-05A	TO-15	1,3-Dichlorobenzene	0.18 ppbv / 1.1 µg/m ³
1107528A-05A	TO-15	1,4-Dichlorobenzene	0.21 ppbv / 1.3 µg/m ³
1107528A-05A	TO-15	alpha-Chlorotoluene	0.12 ppbv / 0.62 µg/m ³
1107528A-05A	TO-15	1,2-Dichlorobenzene	0.19 ppbv / 1.1 µg/m ³

Blank ID	Parameter	Analyte	Concentration/Amount
1107528A-05A	TO-15	1,2,4-Trichlorobenzene	0.60 ppbv / 4.4 µg/m ³
1107528B-05A	Natural gases	Nitrogen	0.057 %

Qualifications due to blank contamination are included in the table below. Analytical data reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
VMP-18-8.5-072811	TO-15	1,3,5-Trimethylbenzene	-	U
VMP-10-5-07/2911	TO-15	2-Hexanone	-	U
VMP-10-5-07/2911	TO-15	4-Ethyltoluene	-	U
VMP-10-5-07/2911	TO-15	1,2,4-Trimethylbenzene	-	U
VMP-10-10-072911	TO-15	Methylene chloride	-	U
VMP-10-10-072911	TO-15	4-Ethyltoluene	-	U
VMP-10-10-072911	TO-15	1,3,5-Trimethylbenzene	-	U
VMP-10-20-072911	TO-15	2-Hexanone	-	U
VMP-10-20-072911	TO-15	1,3,5-Trimethylbenzene	-	U

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

8/12/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562593.00009
Workorder #: 1107528A

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 7/30/2011 at Air Toxics Ltd.

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

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

Regards,



Kelly Buettner
Project Manager

*Reviewed
on
8/24/2011*

**LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1107528A**

Four 1 Liter Summa Canister samples were received on July 30, 2011. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

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

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

WORK ORDER #: 1107528A

Work Order Summary

CLIENT: Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-429-0100

P.O. # 21562593.00007

FAX:

PROJECT # 21562593.00009 Roxana Soil Vapor

DATE RECEIVED: 07/30/2011

CONTACT: Kelly Buettner

DATE COMPLETED: 08/12/2011

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-18-8.5-072811	Modified TO-15	8.0 "Hg	15 psi
02A	VMP-10-5-07/2911	Modified TO-15	7.4 "Hg	15 psi
03A	VMP-10-10-072911	Modified TO-15	8.0 "Hg	15 psi
04A	VMP-10-20-072911	Modified TO-15	7.8 "Hg	15 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:

Sandra A. Freeman

Laboratory Director

DATE: 08/12/11

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

Summary of Detected Compounds

EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-18-8.5-072811

Lab ID#: 1107528A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.54 J	6.8	2.7 J
Ethanol	5.5	42	10	79
Acetone	5.5	32	13	75
2-Propanol	5.5	12	14	30
Hexane	1.4	0.51 J	4.9	1.8 J
2-Butanone (Methyl Ethyl Ketone)	5.5	8.4	16	25
Tetrahydrofuran	1.4	0.45 J	4.1	1.3 J
2,2,4-Trimethylpentane	1.4	1.1 J	6.4	5.1 J
Benzene	1.4	30	4.4	96
4-Methyl-2-pentanone	1.4	26	5.6	100
Toluene	1.4	3.1	5.2	12
2-Hexanone	5.5	0.96 J	23	3.9 J
Ethyl Benzene	1.4	0.52 J	6.0	2.3 J
m,p-Xylene	1.4	1.6	6.0	7.0
o-Xylene	1.4	0.50 J	6.0	2.2 J
Styrene	1.4	0.49 J	5.9	2.1 J
Cumene	1.4	7.2	6.8	36
Propylbenzene	1.4	0.21 J	6.8	1.0 J
1,3,5-Trimethylbenzene	1.4	~~0.28 J~~ u	6.8	~~1.4 J~~ u
1,2,4-Trimethylbenzene	1.4	1.3 J	6.8	6.3 J

Client Sample ID: VMP-10-5-07/2911

Lab ID#: 1107528A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.41 J	6.6	2.0 J
Ethanol	5.4	27	10	50
Acetone	5.4	54	13	130
2-Propanol	5.4	9.2	13	23
Carbon Disulfide	5.4	2.6 J	17	7.9 J
Methylene Chloride	1.3	0.28 J	4.6	0.98 J

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

Client Sample ID: VMP-10-5-07/2911

Lab ID#: 1107528A-02A

Hexane	1.3	1.0 J	4.7	3.6 J
2-Butanone (Methyl Ethyl Ketone)	5.4	5.3 J	16	16 J
Tetrahydrofuran	1.3	0.48 J	4.0	1.4 J
2,2,4-Trimethylpentane	1.3	0.63 J	6.2	3.0 J
Benzene	1.3	22	4.3	70
1,4-Dioxane	5.4	11	19	41
4-Methyl-2-pentanone	1.3	16	5.5	66
Toluene	1.3	2.4	5.0	9.0
2-Hexanone	5.4	0.53 J u	22	2.2 J u
Ethyl Benzene	1.3	0.28 J	5.8	1.2 J
m,p-Xylene	1.3	0.77 J	5.8	3.3 J
o-Xylene	1.3	0.22 J	5.8	0.96 J
Styrene	1.3	0.23 J	5.7	0.97 J
Cumene	1.3	2.7	6.6	13
4-Ethyltoluene	1.3	0.17 J u	6.6	0.84 J u
1,2,4-Trimethylbenzene	1.3	0.52 J u	6.6	2.6 J u

Client Sample ID: VMP-10-10-072911

Lab ID#: 1107528A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.43 J	6.8	2.1 J
Chloromethane	5.5	0.87 J	11	1.8 J
Ethanol	5.5	16	10	29
Acetone	5.5	26	13	61
2-Propanol	5.5	15	14	36
Carbon Disulfide	5.5	2.8 J	17	8.8 J
Methylene Chloride	1.4	0.30 J u	4.8	1.0 J u
Hexane	1.4	0.71 J	4.9	2.5 J
2-Butanone (Methyl Ethyl Ketone)	5.5	7.8	16	23
Tetrahydrofuran	1.4	0.67 J	4.1	2.0 J
Cyclohexane	1.4	0.56 J	4.8	1.9 J
2,2,4-Trimethylpentane	1.4	2.0	6.4	9.4

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

Client Sample ID: VMP-10-10-072911

Lab ID#: 1107528A-03A

Benzene	1.4	23	4.4	72
Heptane	1.4	0.66 J	5.6	2.7 J
1,4-Dioxane	5.5	4.7 J	20	17 J
4-Methyl-2-pentanone	1.4	31	5.6	130
Toluene	1.4	6.4	5.2	24
2-Hexanone	5.5	0.77 J	23	3.2 J
Ethyl Benzene	1.4	0.55 J	6.0	2.4 J
m,p-Xylene	1.4	1.7	6.0	7.2
o-Xylene	1.4	0.43 J	6.0	1.8 J
Styrene	1.4	0.36 J	5.9	1.5 J
Cumene	1.4	4.6	6.8	23
4-Ethyltoluene	1.4	0.33 J U	6.8	1.6 J U
1,3,5-Trimethylbenzene	1.4	0.30 J U	6.8	1.5 J U
1,2,4-Trimethylbenzene	1.4	0.97 J	6.8	4.7 J

Client Sample ID: VMP-10-20-072911

Lab ID#: 1107528A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.47 J	6.8	2.3 J
Ethanol	5.5	33	10	62
Acetone	5.5	23	13	55
2-Propanol	5.5	9.6	13	24
Hexane	1.4	0.84 J	4.8	3.0 J
2-Butanone (Methyl Ethyl Ketone)	5.5	5.6	16	16
Tetrahydrofuran	1.4	0.48 J	4.0	1.4 J
2,2,4-Trimethylpentane	1.4	1.2 J	6.4	5.4 J
Benzene	1.4	37	4.4	120
4-Methyl-2-pentanone	1.4	18	5.6	75
Toluene	1.4	3.9	5.1	14
2-Hexanone	5.5	0.58 J U	22	2.4 J U
Ethyl Benzene	1.4	0.33 J	5.9	1.4 J
m,p-Xylene	1.4	1.2 J	5.9	5.3 J

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

Client Sample ID: VMP-10-20-072911

Lab ID#: 1107528A-04A

o-Xylene	1.4	0.41 J	5.9	1.8 J
Styrene	1.4	0.38 J	5.8	1.6 J
Cumene	1.4	4.6	6.7	23
4-Ethyltoluene	1.4	0.26 J	6.7	1.3 J
1,3,5-Trimethylbenzene	1.4	0.22 J	6.7	1.1 J
1,2,4-Trimethylbenzene	1.4	1.0 J	6.7	5.0 J

Client Sample ID: VMP-18-8.5-072811

Lab ID#: 1107528A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080313	Date of Collection:	7/28/11 4:34:00 PM	
Dil. Factor:	2.76	Date of Analysis:	8/3/11 03:48 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.54 J	6.8	2.7 J
Freon 114	1.4	Not Detected	9.6	Not Detected
Chloromethane	5.5	Not Detected	11	Not Detected
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	1.4	Not Detected	5.4	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	Not Detected	7.8	Not Detected
Ethanol	5.5	42	10	79
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	5.5	32	13	75
2-Propanol	5.5	12	14	30
Carbon Disulfide	5.5	Not Detected	17	Not Detected
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	1.4	Not Detected	4.8	Not Detected
Methyl tert-butyl ether	1.4	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	0.51 J	4.9	1.8 J
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	8.4	16	25
cis-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Tetrahydrofuran	1.4	0.45 J	4.1	1.3 J
Chloroform	1.4	Not Detected	6.7	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	Not Detected	4.8	Not Detected
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	1.1 J	6.4	5.1 J
Benzene	1.4	30	4.4	96
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	Not Detected	5.6	Not Detected
Trichloroethene	1.4	Not Detected	7.4	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.2	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	26	5.6	100
Toluene	1.4	3.1	5.2	12
trans-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Tetrachloroethene	1.4	Not Detected	9.4	Not Detected

Client Sample ID: VMP-18-8.5-072811

Lab ID#: 1107528A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080313	Date of Collection: 7/28/11 4:34:00 PM
Dil. Factor:	2.76	Date of Analysis: 8/3/11 03:48 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.5	0.96 J	23	3.9 J
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.4	Not Detected
Ethyl Benzene	1.4	0.52 J	6.0	2.3 J
m,p-Xylene	1.4	1.6	6.0	7.0
o-Xylene	1.4	0.50 J	6.0	2.2 J
Styrene	1.4	0.49 J	5.9	2.1 J
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	7.2	6.8	36
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	0.21 J	6.8	1.0 J
4-Ethyltoluene	1.4	Not Detected	6.8	Not Detected
1,3,5-Trimethylbenzene	1.4	~~0.28~~ u	6.8	~~1.4~~ u
1,2,4-Trimethylbenzene	1.4	1.3 J	6.8	6.3 J
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	5.5	Not Detected	41	Not Detected
Hexachlorobutadiene	5.5	Not Detected	59	Not Detected
Butane	5.5	Not Detected	13	Not Detected
Isopentane	5.5	Not Detected	16	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: VMP-10-5-07/2911

Lab ID#: 1107528A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080317	Date of Collection: 7/29/11 9:13:00 AM		
Dil. Factor:	2.68	Date of Analysis: 8/3/11 06:29 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.41 J	6.6	2.0 J
Freon 114	1.3	Not Detected	9.4	Not Detected
Chloromethane	5.4	Not Detected	11	Not Detected
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
1,3-Butadiene	1.3	Not Detected	3.0	Not Detected
Bromomethane	1.3	Not Detected	5.2	Not Detected
Chloroethane	5.4	Not Detected	14	Not Detected
Freon 11	1.3	Not Detected	7.5	Not Detected
Ethanol	5.4	27	10	50
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Acetone	5.4	54	13	130
2-Propanol	5.4	9.2	13	23
Carbon Disulfide	5.4	2.6 J	17	7.9 J
3-Chloropropene	5.4	Not Detected	17	Not Detected
Methylene Chloride	1.3	0.28 J	4.6	0.98 J
Methyl tert-butyl ether	1.3	Not Detected	4.8	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Hexane	1.3	1.0 J	4.7	3.6 J
1,1-Dichloroethane	1.3	Not Detected	5.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.4	5.3 J	16	16 J
cis-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Tetrahydrofuran	1.3	0.48 J	4.0	1.4 J
Chloroform	1.3	Not Detected	6.5	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Cyclohexane	1.3	Not Detected	4.6	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.4	Not Detected
2,2,4-Trimethylpentane	1.3	0.63 J	6.2	3.0 J
Benzene	1.3	22	4.3	70
1,2-Dichloroethane	1.3	Not Detected	5.4	Not Detected
Heptane	1.3	Not Detected	5.5	Not Detected
Trichloroethene	1.3	Not Detected	7.2	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.2	Not Detected
1,4-Dioxane	5.4	11	19	41
Bromodichloromethane	1.3	Not Detected	9.0	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	6.1	Not Detected
4-Methyl-2-pentanone	1.3	16	5.5	66
Toluene	1.3	2.4	5.0	9.0
trans-1,3-Dichloropropene	1.3	Not Detected	6.1	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Tetrachloroethene	1.3	Not Detected	9.1	Not Detected

Client Sample ID: VMP-10-5-07/2911

Lab ID#: 1107528A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080317	Date of Collection: 7/29/11 9:13:00 AM
Dil. Factor:	2.68	Date of Analysis: 8/3/11 06:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.4	~~0.53~~ J U	22	~~2.2~~ J U
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	Not Detected	6.2	Not Detected
Ethyl Benzene	1.3	0.28 J	5.8	1.2 J
m,p-Xylene	1.3	0.77 J	5.8	3.3 J
o-Xylene	1.3	0.22 J	5.8	0.96 J
Styrene	1.3	0.23 J	5.7	0.97 J
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	2.7	6.6	13
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.2	Not Detected
Propylbenzene	1.3	Not Detected	6.6	Not Detected
4-Ethyltoluene	1.3	~~0.17~~ J U	6.6	~~0.84~~ J U
1,3,5-Trimethylbenzene	1.3	Not Detected	6.6	Not Detected
1,2,4-Trimethylbenzene	1.3	~~0.52~~ J U	6.6	~~2.6~~ J U
1,3-Dichlorobenzene	1.3	Not Detected	8.0	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	8.0	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.9	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	8.0	Not Detected
1,2,4-Trichlorobenzene	5.4	Not Detected	40	Not Detected
Hexachlorobutadiene	5.4	Not Detected	57	Not Detected
Butane	5.4	Not Detected	13	Not Detected
Isopentane	5.4	Not Detected	16	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: VMP-10-10-072911

Lab ID#: 1107528A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080315	Date of Collection: 7/29/11 10:24:00 AM
Dil. Factor:	2.76	Date of Analysis: 8/3/11 05:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.43 J	6.8	2.1 J
Freon 114	1.4	Not Detected	9.6	Not Detected
Chloromethane	5.5	0.87 J	11	1.8 J
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	1.4	Not Detected	5.4	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	Not Detected	7.8	Not Detected
Ethanol	5.5	16	10	29
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	5.5	26	13	61
2-Propanol	5.5	15	14	36
Carbon Disulfide	5.5	2.8 J	17	8.8 J
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	1.4	~~0.30 J~~ U	4.8	~~1.0 J~~ U
Methyl tert-butyl ether	1.4	Not Detected	5.0	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	0.71 J	4.9	2.5 J
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	7.8	16	23
cis-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Tetrahydrofuran	1.4	0.67 J	4.1	2.0 J
Chloroform	1.4	Not Detected	6.7	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	0.56 J	4.8	1.9 J
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	2.0	6.4	9.4
Benzene	1.4	23	4.4	72
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	0.66 J	5.6	2.7 J
Trichloroethene	1.4	Not Detected	7.4	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	4.7 J	20	17 J
Bromodichloromethane	1.4	Not Detected	9.2	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	31	5.6	130
Toluene	1.4	6.4	5.2	24
trans-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Tetrachloroethene	1.4	Not Detected	9.4	Not Detected

Client Sample ID: VMP-10-10-072911

Lab ID#: 1107528A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080315	Date of Collection: 7/29/11 10:24:00 AM
Dil. Factor:	2.76	Date of Analysis: 8/3/11 05:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.5	0.77 J	23	3.2 J
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.4	Not Detected
Ethyl Benzene	1.4	0.55 J	6.0	2.4 J
m,p-Xylene	1.4	1.7	6.0	7.2
o-Xylene	1.4	0.43 J	6.0	1.8 J
Styrene	1.4	0.36 J	5.9	1.5 J
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	4.6	6.8	23
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	Not Detected	6.8	Not Detected
4-Ethyltoluene	1.4	0.33 J	6.8	1.6 J
1,3,5-Trimethylbenzene	1.4	0.30 J	6.8	1.5 J
1,2,4-Trimethylbenzene	1.4	0.97 J	6.8	4.7 J
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	5.5	Not Detected	41	Not Detected
Hexachlorobutadiene	5.5	Not Detected	59	Not Detected
Butane	5.5	Not Detected	13	Not Detected
Isopentane	5.5	Not Detected	16	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: VMP-10-20-072911

Lab ID#: 1107528A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080318	Date of Collection: 7/29/11 11:54:00 AM		
Dil. Factor:	2.73	Date of Analysis: 8/3/11 07:14 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.47 J	6.8	2.3 J
Freon 114	1.4	Not Detected	9.5	Not Detected
Chloromethane	5.5	Not Detected	11	Not Detected
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	1.4	Not Detected	5.3	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	Not Detected	7.7	Not Detected
Ethanol	5.5	33	10	62
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.4	Not Detected
Acetone	5.5	23	13	55
2-Propanol	5.5	9.6	13	24
Carbon Disulfide	5.5	Not Detected	17	Not Detected
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	1.4	Not Detected	4.7	Not Detected
Methyl tert-butyl ether	1.4	Not Detected	4.9	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.4	Not Detected
Hexane	1.4	0.84 J	4.8	3.0 J
1,1-Dichloroethane	1.4	Not Detected	5.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	5.6	16	16
cis-1,2-Dichloroethene	1.4	Not Detected	5.4	Not Detected
Tetrahydrofuran	1.4	0.48 J	4.0	1.4 J
Chloroform	1.4	Not Detected	6.7	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.4	Not Detected
Cyclohexane	1.4	Not Detected	4.7	Not Detected
Carbon Tetrachloride	1.4	Not Detected	8.6	Not Detected
2,2,4-Trimethylpentane	1.4	1.2 J	6.4	5.4 J
Benzene	1.4	37	4.4	120
1,2-Dichloroethane	1.4	Not Detected	5.5	Not Detected
Heptane	1.4	Not Detected	5.6	Not Detected
Trichloroethene	1.4	Not Detected	7.3	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.3	Not Detected
1,4-Dioxane	5.5	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.1	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.2	Not Detected
4-Methyl-2-pentanone	1.4	18	5.6	75
Toluene	1.4	3.9	5.1	14
trans-1,3-Dichloropropene	1.4	Not Detected	6.2	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.4	Not Detected
Tetrachloroethene	1.4	Not Detected	9.2	Not Detected

Client Sample ID: VMP-10-20-072911

Lab ID#: 1107528A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080318	Date of Collection: 7/29/11 11:54:00 AM
Dil. Factor:	2.73	Date of Analysis: 8/3/11 07:14 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.5	0.58 J U	22	2.4 J U
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	10	Not Detected
Chlorobenzene	1.4	Not Detected	6.3	Not Detected
Ethyl Benzene	1.4	0.33 J	5.9	1.4 J
m,p-Xylene	1.4	1.2 J	5.9	5.3 J
o-Xylene	1.4	0.41 J	5.9	1.8 J
Styrene	1.4	0.38 J	5.8	1.6 J
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	4.6	6.7	23
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.4	Not Detected
Propylbenzene	1.4	Not Detected	6.7	Not Detected
4-Ethyltoluene	1.4	0.26 J	6.7	1.3 J
1,3,5-Trimethylbenzene	1.4	0.22 J U	6.7	1.1 J U
1,2,4-Trimethylbenzene	1.4	1.0 J	6.7	5.0 J
1,3-Dichlorobenzene	1.4	Not Detected	8.2	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.2	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.2	Not Detected
1,2,4-Trichlorobenzene	5.5	Not Detected	40	Not Detected
Hexachlorobutadiene	5.5	Not Detected	58	Not Detected
Butane	5.5	Not Detected	13	Not Detected
Isopentane	5.5	Not Detected	16	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: Lab Blank

Lab ID#: 1107528A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080305a	Date of Collection: NA		
Dil. Factor:	1.00	Date of Analysis: 8/3/11 09:35 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	0.11 J	1.7	0.37 J
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	0.086 J	2.3	0.39 J
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1107528A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080305a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 09:35 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2.0	0.14 J	8.2	0.56 J
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	0.058 J	5.2	0.59 J
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	0.10 J	2.4	0.49 J
1,3,5-Trimethylbenzene	0.50	0.070 J	2.4	0.35 J
1,2,4-Trimethylbenzene	0.50	0.10 J	2.4	0.50 J
1,3-Dichlorobenzene	0.50	0.18 J	3.0	1.1 J
1,4-Dichlorobenzene	0.50	0.21 J	3.0	1.3 J
alpha-Chlorotoluene	0.50	0.12 J	2.6	0.62 J
1,2-Dichlorobenzene	0.50	0.19 J	3.0	1.1 J
1,2,4-Trichlorobenzene	2.0	0.60 J	15	4.4 J
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	94	70-130

Client Sample ID: CCV

Lab ID#: 1107528A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080302	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 07:49 AM

Compound	%Recovery
Freon 12	96
Freon 114	93
Chloromethane	97
Vinyl Chloride	92
1,3-Butadiene	88
Bromomethane	99
Chloroethane	98
Freon 11	90
Ethanol	100
Freon 113	89
1,1-Dichloroethene	97
Acetone	98
2-Propanol	97
Carbon Disulfide	96
3-Chloropropene	99
Methylene Chloride	87
Methyl tert-butyl ether	82
trans-1,2-Dichloroethene	83
Hexane	85
1,1-Dichloroethane	84
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	86
Tetrahydrofuran	88
Chloroform	88
1,1,1-Trichloroethane	88
Cyclohexane	85
Carbon Tetrachloride	91
2,2,4-Trimethylpentane	85
Benzene	82
1,2-Dichloroethane	87
Heptane	85
Trichloroethene	87
1,2-Dichloropropane	85
1,4-Dioxane	87
Bromodichloromethane	90
cis-1,3-Dichloropropene	88
4-Methyl-2-pentanone	94
Toluene	84
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	84
Tetrachloroethene	86

Client Sample ID: CCV

Lab ID#: 1107528A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080302	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 07:49 AM

Compound	%Recovery
2-Hexanone	91
Dibromochloromethane	88
1,2-Dibromoethane (EDB)	86
Chlorobenzene	85
Ethyl Benzene	86
m,p-Xylene	89
o-Xylene	94
Styrene	90
Bromoform	92
Cumene	97
1,1,2,2-Tetrachloroethane	86
Propylbenzene	98
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	94
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	92
1,4-Dichlorobenzene	93
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	92
1,2,4-Trichlorobenzene	81
Hexachlorobutadiene	96
Butane	97
Isopentane	95

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	105	70-130

Client Sample ID: LCS

Lab ID#: 1107528A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080303	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 08:24 AM

Compound	%Recovery
Freon 12	89
Freon 114	91
Chloromethane	87
Vinyl Chloride	91
1,3-Butadiene	88
Bromomethane	98
Chloroethane	95
Freon 11	88
Ethanol	100
Freon 113	92
1,1-Dichloroethene	103
Acetone	101
2-Propanol	95
Carbon Disulfide	117
3-Chloropropene	114
Methylene Chloride	89
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	96
Hexane	84
1,1-Dichloroethane	86
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	88
Tetrahydrofuran	86
Chloroform	89
1,1,1-Trichloroethane	91
Cyclohexane	87
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	86
Benzene	85
1,2-Dichloroethane	88
Heptane	86
Trichloroethene	91
1,2-Dichloropropane	88
1,4-Dioxane	89
Bromodichloromethane	90
cis-1,3-Dichloropropene	90
4-Methyl-2-pentanone	95
Toluene	84
trans-1,3-Dichloropropene	94
1,1,2-Trichloroethane	86
Tetrachloroethene	86

Client Sample ID: LCS

Lab ID#: 1107528A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080303	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 08:24 AM

Compound	%Recovery
2-Hexanone	91
Dibromochloromethane	89
1,2-Dibromoethane (EDB)	90
Chlorobenzene	88
Ethyl Benzene	88
m,p-Xylene	92
o-Xylene	96
Styrene	90
Bromoform	90
Cumene	98
1,1,2,2-Tetrachloroethane	88
Propylbenzene	99
4-Ethyltoluene	97
1,3,5-Trimethylbenzene	93
1,2,4-Trimethylbenzene	92
1,3-Dichlorobenzene	93
1,4-Dichlorobenzene	92
alpha-Chlorotoluene	103
1,2-Dichlorobenzene	92
1,2,4-Trichlorobenzene	82
Hexachlorobutadiene	98
Butane	91
Isopentane	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	106	70-130

Client Sample ID: LCSD

Lab ID#: 1107528A-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080304	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 09:01 AM

Compound	%Recovery
Freon 12	88
Freon 114	92
Chloromethane	92
Vinyl Chloride	90
1,3-Butadiene	87
Bromomethane	97
Chloroethane	96
Freon 11	87
Ethanol	92
Freon 113	91
1,1-Dichloroethene	100
Acetone	100
2-Propanol	96
Carbon Disulfide	115
3-Chloropropene	115
Methylene Chloride	87
Methyl tert-butyl ether	87
trans-1,2-Dichloroethene	96
Hexane	83
1,1-Dichloroethane	86
2-Butanone (Methyl Ethyl Ketone)	95
cis-1,2-Dichloroethene	88
Tetrahydrofuran	88
Chloroform	88
1,1,1-Trichloroethane	90
Cyclohexane	88
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	85
Benzene	85
1,2-Dichloroethane	86
Heptane	83
Trichloroethene	89
1,2-Dichloropropane	87
1,4-Dioxane	88
Bromodichloromethane	89
cis-1,3-Dichloropropene	89
4-Methyl-2-pentanone	94
Toluene	84
trans-1,3-Dichloropropene	95
1,1,2-Trichloroethane	86
Tetrachloroethene	87

Client Sample ID: LCSD

Lab ID#: 1107528A-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080304	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/3/11 09:01 AM

Compound	%Recovery
2-Hexanone	90
Dibromochloromethane	88
1,2-Dibromoethane (EDB)	90
Chlorobenzene	88
Ethyl Benzene	86
m,p-Xylene	92
o-Xylene	95
Styrene	90
Bromoform	90
Cumene	98
1,1,2,2-Tetrachloroethane	87
Propylbenzene	98
4-Ethyltoluene	97
1,3,5-Trimethylbenzene	93
1,2,4-Trimethylbenzene	92
1,3-Dichlorobenzene	92
1,4-Dichlorobenzene	93
alpha-Chlorotoluene	106
1,2-Dichlorobenzene	93
1,2,4-Trichlorobenzene	82
Hexachlorobutadiene	98
Butane	93
Isopentane	93

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	104	70-130

1107528



Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. Project Name: Roxana Soil Vapor Project # 21562593.00009		URS INCIDENT # (ENV SERVICES): DATE: 07/28/11 PAGE: 1 of 1	
Lab Vendor # URS CORPORATION ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110 AIR Toxics LTD. 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719 TEL: 314-420-0100 FAX: 314-420-0462 E-MAIL: Thomas.Adepts@URS.COM		Print ECU To Contact Name: Thomas Adepts P.O. # 314-420-4719 Elizabeth Kunkel, URS, St. Louis M. Miller, W. Buchman, D. Malingey	
Please Check Appropriate Box: ☒ ENV SERVICES ☐ SHELL RETAIL ☐ MOTIVA SEARCH ☐ CONSULTANT ☐ SHELL PIPELINE ☐ OTHER		SITE ADDRESS, DOWN AND DAY 800 SOUTH CENTRAL AVE - ROXANA ILL. 62451-1611 314-743-4179	
TURNAROUND TIME (CALENDAR DAYS): ☒ STANDARD (1-4 DAYS) ☐ 5 DAYS ☐ 7 DAYS ☐ 10 DAYS ☐ RESULTS NEEDED ON WEEKEND		REQUESTED ANALYSIS Turn Around Time: ☒ Normal ☐ Rush Specify:	
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY)		ADDITIONAL NOTES: - 14 day hold time - Report results between MDL and RL - Level IV ECVIP	
FIELD SAMPLE IDENTIFICATION DATE TIME 07/28/11 10:34 - 1524 07/28/11 08:43 - 0913 07/28/11 09:54 - 1024 07/28/11 11:24 - 1154		CUSTOMER SEAL INTACT? Y N MDL TEMP NA	
SIGNATURE OF SIGNATORY RECEIVED BY (SIGNATURE) RECEIVED BY (SIGNATURE)		TIME 7/30/11 1010	

8/12/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562593.00009
Workorder #: 1107528B

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 7/30/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1107528B

Work Order Summary

CLIENT: Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-429-0100

P.O. # 21562593.00007

FAX:

PROJECT # 21562593.00009 Roxana Soil Vapor

DATE RECEIVED: 07/30/2011

CONTACT: Kelly Buettner

DATE COMPLETED: 08/12/2011

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-18-8.5-072811	Modified ASTM D-1946	8.0 "Hg	15 psi
02A	VMP-10-5-07/2911	Modified ASTM D-1946	7.4 "Hg	15 psi
03A	VMP-10-10-072911	Modified ASTM D-1946	8.0 "Hg	15 psi
04A	VMP-10-20-072911	Modified ASTM D-1946	7.8 "Hg	15 psi
05A	Lab Blank	Modified ASTM D-1946	NA	NA
05B	Lab Blank	Modified ASTM D-1946	NA	NA
06A	LCS	Modified ASTM D-1946	NA	NA
06AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY:

Sandra A. Trueman

Laboratory Director

DATE: 08/12/11

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

**LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1107528B**

Four 1 Liter Summa Canister samples were received on July 30, 2011. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

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

<i>Requirement</i>	<i>ASTM D-1946</i>	<i>ATL Modifications</i>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections $> 5 \times$ the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

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 detection limit.

M - Reported value may be biased due to apparent matrix interferences.

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

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-18-8.5-072811

Lab ID#: 1107528B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	12
Nitrogen	0.28	80
Carbon Dioxide	0.028	8.2
Helium	0.14	0.21

Client Sample ID: VMP-10-5-072911

Lab ID#: 1107528B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.52	17
Nitrogen	0.52	79
Carbon Dioxide	0.052	3.8
Helium	0.26	0.16 J

Client Sample ID: VMP-10-10-072911

Lab ID#: 1107528B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	14
Nitrogen	0.28	80
Carbon Dioxide	0.028	5.5
Helium	0.14	0.60

Client Sample ID: VMP-10-20-072911

Lab ID#: 1107528B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	13
Nitrogen	0.27	80
Carbon Dioxide	0.027	7.1

Client Sample ID: VMP-18-8.5-072811

Lab ID#: 1107528B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081007	Date of Collection: 7/28/11 4:34:00 PM
Dil. Factor:	2.76	Date of Analysis: 8/10/11 02:59 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	12
Nitrogen	0.28	80
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	Not Detected
Carbon Dioxide	0.028	8.2
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.21

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-10-5-07/2911

Lab ID#: 1107528B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081008	Date of Collection: 7/29/11 9:13:00 AM
Dil. Factor:	5.20	Date of Analysis: 8/10/11 03:28 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.52	17
Nitrogen	0.52	79
Carbon Monoxide	0.052	Not Detected
Methane	0.00052	Not Detected
Carbon Dioxide	0.052	3.8
Ethane	0.0052	Not Detected
Ethene	0.0052	Not Detected
Helium	0.26	0.16 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-10-10-072911

Lab ID#: 1107528B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081009	Date of Collection: 7/29/11 10:24:00 AM
Dil. Factor:	2.76	Date of Analysis: 8/10/11 03:50 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	14
Nitrogen	0.28	80
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	Not Detected
Carbon Dioxide	0.028	5.5
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.60

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-10-20-072911

Lab ID#: 1107528B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081010	Date of Collection: 7/29/11 11:54:00 AM
Dil. Factor:	2.73	Date of Analysis: 8/10/11 04:13 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	13
Nitrogen	0.27	80
Carbon Monoxide	0.027	Not Detected
Methane	0.00027	Not Detected
Carbon Dioxide	0.027	7.1
Ethane	0.0027	Not Detected
Ethene	0.0027	Not Detected
Helium	0.14	Not Detected

Container Type: 1 Liter Summa Canister

Client Sample ID: Lab Blank

Lab ID#: 1107528B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081005a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/10/11 02:14 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	0.057 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Client Sample ID: Lab Blank

Lab ID#: 1107528B-05B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: 9081004ba
Dil. Factor: 1.00

Date of Collection: NA
Date of Analysis: 8/10/11 01:52 PM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

Client Sample ID: LCS

Lab ID#: 1107528B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/10/11 01:01 PM

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	99
Methane	98
Carbon Dioxide	102
Ethane	100
Ethene	99
Helium	92

Container Type: NA - Not Applicable

Client Sample ID: LCSD

Lab ID#: 1107528B-06AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081028	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/11/11 07:30 AM

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	100
Methane	98
Carbon Dioxide	101
Ethane	101
Ethene	99
Helium	93

Container Type: NA - Not Applicable

1107528



Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. Project Name: Roxana Soil Vapor Project # 21562593.00009		URS CORPORATION 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110 Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4718 314-428-0100 FAX 314-428-0462		Please Check Appropriate Box: ☒ BVI SERVICES ☐ MOTIV RETAIL ☐ CONSULTANT ☐ MOTIV SMOCK ☐ SKILL PIPELINE ☐ OTHER _____		Print Bill To Contact Name: Thomas Adams PO # _____ SITE ADDRESS, Street and City 800 SOUTH CENTRAL AVE - ROXANA ILL. 62450-1411 PHONE NO. 314-743-4179 Elizabeth Kunkel, URS, St. Louis M. Miller, W. Buchman, D. Mattingly		INCIDENT # (ENV SERVICES): 9 7 2 1 8 6 4 0 DATE: 07/28/11 PAGE: 1 of 1	
Lab Vendor # URS CORPORATION		URS CORP 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110 Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4718 314-428-0100 FAX 314-428-0462		Please Check Appropriate Box: ☒ BVI SERVICES ☐ MOTIV RETAIL ☐ CONSULTANT ☐ MOTIV SMOCK ☐ SKILL PIPELINE ☐ OTHER _____		Print Bill To Contact Name: Thomas Adams PO # _____ SITE ADDRESS, Street and City 800 SOUTH CENTRAL AVE - ROXANA ILL. 62450-1411 PHONE NO. 314-743-4179 Elizabeth Kunkel, URS, St. Louis M. Miller, W. Buchman, D. Mattingly		INCIDENT # (ENV SERVICES): 9 7 2 1 8 6 4 0 DATE: 07/28/11 PAGE: 1 of 1	
Turnaround Time (Calendar Days): ☒ STANDARD (1-1 DAY) ☐ 2 DAYS ☐ 3 DAYS ☐ 4 DAYS ☐ 5 DAYS ☐ 6 DAYS ☐ 7 DAYS ☐ 8 DAYS ☐ 9 DAYS ☐ 10 DAYS ☐ 11 DAYS ☐ 12 DAYS ☐ 13 DAYS ☐ 14 DAYS ☐ 15 DAYS ☐ 16 DAYS ☐ 17 DAYS ☐ 18 DAYS ☐ 19 DAYS ☐ 20 DAYS ☐ 21 DAYS ☐ 22 DAYS ☐ 23 DAYS ☐ 24 DAYS ☐ 25 DAYS ☐ 26 DAYS ☐ 27 DAYS ☐ 28 DAYS ☐ 29 DAYS ☐ 30 DAYS ☐ 31 DAYS ☐ 32 DAYS ☐ 33 DAYS ☐ 34 DAYS ☐ 35 DAYS ☐ 36 DAYS ☐ 37 DAYS ☐ 38 DAYS ☐ 39 DAYS ☐ 40 DAYS ☐ 41 DAYS ☐ 42 DAYS ☐ 43 DAYS ☐ 44 DAYS ☐ 45 DAYS ☐ 46 DAYS ☐ 47 DAYS ☐ 48 DAYS ☐ 49 DAYS ☐ 50 DAYS ☐ 51 DAYS ☐ 52 DAYS ☐ 53 DAYS ☐ 54 DAYS ☐ 55 DAYS ☐ 56 DAYS ☐ 57 DAYS ☐ 58 DAYS ☐ 59 DAYS ☐ 60 DAYS ☐ 61 DAYS ☐ 62 DAYS ☐ 63 DAYS ☐ 64 DAYS ☐ 65 DAYS ☐ 66 DAYS ☐ 67 DAYS ☐ 68 DAYS ☐ 69 DAYS ☐ 70 DAYS ☐ 71 DAYS ☐ 72 DAYS ☐ 73 DAYS ☐ 74 DAYS ☐ 75 DAYS ☐ 76 DAYS ☐ 77 DAYS ☐ 78 DAYS ☐ 79 DAYS ☐ 80 DAYS ☐ 81 DAYS ☐ 82 DAYS ☐ 83 DAYS ☐ 84 DAYS ☐ 85 DAYS ☐ 86 DAYS ☐ 87 DAYS ☐ 88 DAYS ☐ 89 DAYS ☐ 90 DAYS ☐ 91 DAYS ☐ 92 DAYS ☐ 93 DAYS ☐ 94 DAYS ☐ 95 DAYS ☐ 96 DAYS ☐ 97 DAYS ☐ 98 DAYS ☐ 99 DAYS ☐ 100 DAYS		RESULTS NEEDED ON WEEKEND ☐ YES ☐ NO		REQUESTED ANALYSIS Turn Around Time: ☒ Normal ☐ Rush Specify _____ Lab Use Only Pressure Transducer by: Date: _____ Pressure Transducer Gas: _____ He: _____ No: _____		ADDITIONAL NOTES: - 14 day hold time - Report results between MDL and RL - Level IV ECVP CUSTOMER SEAL INTACT? YES N NOX TEMP N/A			
Field Sample Identification DATE TIME 07/28/11 08:04 - 1854 07/28/11 08:43 - 0913 07/28/11 09:54 - 1024 07/28/11 11:24 - 1154		Container Number 20072 3889 842 2084		Initial Final -28 -6.5 -28 -6.5 -28 -7 -28.5 -8		Final (psi) Recalpt Recalpt Recalpt Recalpt		SHELL CONTRACT RATE APPLIES STATE REIMBURSEMENT RATE APPLIES EDO NOT NEEDED RECEIPT VERIFICATION REQUESTED	
Signature of (Signature) Signature of (Signature) Signature of (Signature)		Signature of (Signature) Signature of (Signature) Signature of (Signature)		Signature of (Signature) Signature of (Signature) Signature of (Signature)		Signature of (Signature) Signature of (Signature) Signature of (Signature)		Signature of (Signature) Signature of (Signature) Signature of (Signature)	

Roxana Soil Vapor Quarterly – 3rd Quarter 2011 Data Review

Laboratory SDG: 1108060A, B

Data Reviewer: Steve Gragert

Peer Reviewer: Jeff Aust

Date Reviewed: 8/26/2011

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
VMP-1-5-080111	VMP-2-5-080211
VMP-1-8.5-080111	VMP-2-8.5-080211
VMP-1-8.5-080111 Dup	VMP-2-22-080211
VMP-1-23.5-080111	VMP-3-5-080211
VMP-17-5-080111	VMP-3-31.5-080211
VMP-9-5-080211	VMP-3-31.5-080211 Dup
VMP-9-11.5-080211	VMP-7-5-080211
VMP-9-25.5-080211	

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated a TO-15 surrogate was outside evaluation criteria. Several samples were diluted due to high levels of target analytes. Samples VMP-9-5-080111, VMP-9-25.5-080111, VMP-3-31.5-080111-Dup and VMP-2-5-080111 were diluted and re-analyzed to bring the highest level compounds within calibration range of the instrument. Results for the highest level compounds were reported from the re-analysis runs and the remaining compounds were reported from the original analyses. Although not indicated in the laboratory case narrative, analytes were detected in the method blank. TO-15 LCS and CCV recoveries were outside evaluation criteria. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated the COC did not match the canister ID for sample VMP-9-25.5-080211. The sample was logged in according to the COC. No qualification of data was required.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1108060A-16B	TO-15	1,4-Dichlorobenzene	1.1 ppbv / 6.7 µg/m ³
1108060A-16B	TO-15	alpha-Chlorotoluene	1.9 ppbv / 9.9 µg/m ³
1108060A-16B	TO-15	1,2-Dichlorobenzene	1.1 ppbv / 6.8 µg/m ³
1108060A-16B	TO-15	1,2,4-Trichlorobenzene	13 ppbv / 94 µg/m ³
1108060A-16B	TO-15	Hexachlorobutadiene	7.2 ppbv / 76 µg/m ³
1108060B-16A	Natural gases	Nitrogen	0.050 %

Analytical data reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification of data was required.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	LCS/LCSD Criteria
1108060A-18B/BB	TO-15	1,2-Dichlorobenzene	145/150	70-130
1108060A-18B/BB	TO-15	1,2,4-Trichlorobenzene	142/146	70-130

Analytical data which were reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. No qualification of data was required.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

No

Field ID	Parameter	Surrogate	Recovery	Recovery Criteria
VMP-9-25.5-080211 ("B" FRACTION)	TO-15	1,2-Dichloroethane-d ₄	131	70-130

Analytical data that required qualification based on surrogate recoveries are included in the table below.

Field ID	Parameter	Analyte	Qualification
VMP-9-25.5-080211	TO-15	Hexane	J
VMP-9-25.5-080211	TO-15	Cyclohexane	J
VMP-9-25.5-080211	TO-15	2,2,4-Trimethylpentane	J
VMP-9-25.5-080211	TO-15	Benzene	J

Field ID	Parameter	Analyte	Qualification
VMP-9-25.5-080211	TO-15	Heptane	J
VMP-9-25.5-080211	TO-15	Toluene	J
VMP-9-25.5-080211	TO-15	Butane	J

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-1-8.5-080111	VMP-1-8.5-080111 Dup
VMP-3-31.5-080211	VMP-3-31.5-080211 Dup

Were field duplicates within evaluation criteria?

No

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
VMP-1-8.5-080111	VMP-1-8.5-080111 Dup	TO-15	Hexane	110	J/J

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

The CCV recovery listed in the table below was above evaluation criteria.

CCV ID	Parameter	Analyte	CCV Recovery	CCV Criteria
CCV 1108060A-17B	TO-15	alpha-Chlorotoluene	131	70-130

Data associated with a CCV recovery above evaluation criteria were non-detect; therefore, no qualification of data was required.

VALIDATION OF TO-15 DATA - SDG 1108060

This section describes the full validation for fifteen vapor samples which were analyzed by USEPA Method TO-15. Samples were analyzed by Air Toxics Laboratory, Folsom, California and submitted as part of sample delivery group (SDG) 1108060. Samples included as part of this validation are listed below:

Sample Identification	Sample Identification
VMP-1-5-080111	VMP-2-5-080211
VMP-1-8.5-080111	VMP-2-8.5-080211
VMP-1-8.5-080111 Dup	VMP-2-22-080211
VMP-1-23.5-080111	VMP-3-5-080211
VMP-17-5-080111	VMP-3-31.5-080211
VMP-9-5-080211	VMP-3-31.5-080211 Dup
VMP-9-11.5-080211	VMP-7-5-080211
VMP-9-25.5-080211	

QA/QC criteria were identified in the Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation Work Plan (URS 2009) and USEPA Method TO-15. Evaluation of the analytical data followed procedures outlined in the USEPA Contract Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA 2008) where applicable to EPA Method TO-15.

Criteria evaluated included the following method performance criteria:

- Data package completeness
- Laboratory case narrative/cooler receipt form
- Sample holding times
- GC/MS instrument performance
- Initial calibration
- Calibration verification
- Blank samples
- Surrogate spike recoveries
- Laboratory control sample (LCS)
- Target compound identification and quantitation
- Overall data assessment

1.1 Data Package Completeness

The data package was reviewed to make certain that it contained the data contractually required in the deliverable. This included checking the data package for the results of each analyte requested for each field sample submitted in the analytical batch, along with requested QC documentation for the respective methods. The data package was complete.

1.2 Laboratory Case Narrative/Cooler Receipt Form

The laboratory case narrative indicated a TO-15 surrogate was outside evaluation criteria. Several samples were diluted due to high levels of target analytes. Samples VMP-9-5-080111, VMP-9-25.5-080111, VMP-3-31.5-080111-Dup and VMP-2-5-08011 were diluted and re-analyzed to bring the highest level compounds within calibration range of the instrument. Results for the highest level compounds were reported from the re-analysis runs and the remaining compounds were reported from the original analyses. Although not indicated in the laboratory case narrative, analytes were detected in method blanks. TO-15 LCS and CCV recoveries were outside evaluation criteria. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated the COC did not match the canister ID for sample VMP-9-25.5-080211. The sample was logged in according to the COC. No qualification of data was required.

1.3 Sample Holding Times

Review of the sample collection and analysis dates involved comparing the chains-of-custody, the summary forms, the raw data forms, and the chromatograms for accuracy, consistency, and holding time compliance. The validated samples were analyzed within the 14 day holding time criteria. No qualification of data was required due to holding time criteria.

1.4 GC/MS Instrument Performance

GC/MS instrument performance checks were performed to ensure mass resolution, identification, and instrument sensitivity. Criteria for evaluation of instrument performance included possible transcription/calculation errors, adherence to instrument tuning frequency requirements, mass assignments, and ion abundance criteria. Instrument performance check samples were evaluated against criteria established in USEPA Method TO-15.

Based on the raw data, the ion abundance criteria were within evaluation criteria for all masses, and no qualification of data was required. The raw data forms were checked against the summary forms and no calculation or transcription errors were noted.

1.5 Initial Calibration

An Initial calibration (ICAL) was established to assess whether the instrument was capable of producing acceptable qualitative and quantitative data for TO-15 analysis. Samples as part of SDG 1108060 were analyzed using instrument msd2. The ICAL for instrument msd2 was established on 7/6/2011 prior to sample analysis and using at least five concentration standards to establish the initial calibration curve as required by Method TO-15. An average response factor (RF) was determined for each target analyte, the RFs were reviewed and verified greater than 0.10 for chloromethane, 1,1-dichloroethane and bromoform, 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane and greater than 0.05 for all other target analytes.

Review of the initial calibration summary forms indicated %RSDs were $\leq 30\%$ for target analytes. Percent RSDs were recalculated from the raw data and no errors in calculation were noted; therefore, no qualification of data was required.

1.6 Calibration Verification

Review of the sample chromatograms indicated the calibration verifications (CVs) were performed at the required frequency every 12 hours. Review of continuing calibration summary forms indicated all RFs met the evaluation criteria of greater than 0.10 (chloromethane, 1,1-

dichloroethane and bromoform), 0.30 (chlorobenzene and 1,1,2,2-tetrachloroethane) and greater than 0.05 for all other analytes for each CCAL. In addition, percent differences (%Ds) and percent drift (%Drift) met the evaluation criteria of $\leq 30\%$ for all other target analytes, with the exception of the CCV in the table below.

CCV ID	Parameter	Analyte	CCV Recovery	CCV Criteria
CCV 1108060A-17B	TO-15	alpha-Chlorotoluene	31	<30%

All associated data were nondetect and associated with a CCV recovery above evaluation criteria. Therefore; no qualification of data was required. Recalculations of the RFs and %Ds for four target compounds were completed for each CV, and no errors in calculation were noted.

1.7 Blank Samples

The purpose of the method blank samples is to evaluate the existence and magnitude of contamination problems emanating from laboratory activities. Method blank samples were analyzed with each analytical batch as required by USEPA Method TO-15. All target compounds were reported as non-detect in all method blanks analyzed as part of this SDG with the exceptions summarized in the following table:

Blank ID	Parameter	Analyte	Concentration/Amount
1108060A-16B	TO-15	1,4-Dichlorobenzene	1.1 ppbv / 6.7 $\mu\text{g}/\text{m}^3$
1108060A-16B	TO-15	alpha-Chlorotoluene	1.9 ppbv / 9.9 $\mu\text{g}/\text{m}^3$
1108060A-16B	TO-15	1,2-Dichlorobenzene	1.1 ppbv / 6.8 $\mu\text{g}/\text{m}^3$
1108060A-16B	TO-15	1,2,4-Trichlorobenzene	13 ppbv / 94 $\mu\text{g}/\text{m}^3$
1108060A-16B	TO-15	Hexachlorobutadiene	7.2 ppbv / 76 $\mu\text{g}/\text{m}^3$
1108060B-16A	ASTM D-1946	Nitrogen	0.050 %

Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification. No qualification of data was required. The review of chromatograms indicates all peaks present were accounted or the concentrations reported were below the method detection limit. No qualification of data was required.

1.8 Surrogate Spike Recoveries

Surrogate compounds were used to evaluate the overall laboratory sample preparation efficiency on a per sample basis. All surrogate recoveries were within the method acceptance criteria, with the exception of those listed in the table below.

Field ID	Parameter	Surrogate	Recovery	Recovery Criteria
VMP-9-25.5-080211 ("B" FRACTION)	TO-15	1,2-Dichloroethane- d_4	131	70-130

Analytical data that required qualification based on surrogate recoveries are included in the following table.

Field ID	Parameter	Analyte	Qualification
VMP-9-25.5-080211	TO-15	Hexane	J
VMP-9-25.5-080211	TO-15	Cyclohexane	J
VMP-9-25.5-080211	TO-15	2,2,4-Trimethylpentane	J
VMP-9-25.5-080211	TO-15	Benzene	J
VMP-9-25.5-080211	TO-15	Heptane	J
VMP-9-25.5-080211	TO-15	Toluene	J
VMP-9-25.5-080211	TO-15	Butane	J

A minimum of 10% of the recoveries were recalculated, and the summary forms versus the raw data were verified. No calculation or transcription errors were noted and no qualification of data was required.

1.9 Internal Standards and Retention Times

Internal standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during each analytical run. IS areas must be within -50% to +100%, and the IS retention times must be within 30 seconds of the IS continuing calibration retention time. IS areas and retention times for the validated samples in this SDG were within evaluation criteria. The summary forms versus the raw data were verified and no transcription errors were noted.

1.10 Laboratory Control Sample (LCS)

Laboratory control samples were analyzed with each analytical batch to assess the accuracy of the analytical process. LCS recoveries were within evaluation criteria, with the exception of those listed in the table below.

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	LCS/LCSD Criteria
1108060A-18B/BB	TO-15	1,2-Dichlorobenzene	145/150	70-130
1108060A-18B/BB	TO-15	1,2,4-Trichlorobenzene	142/146	70-130

Analytical data which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. No qualification of data was required based on LCS recoveries.

A minimum of 10% of the spiking compound recoveries for the LCS's were recalculated using the LCS summary forms, and no calculation or transcription errors were noted.

1.11 Target Compound Identification and Quantitation

For validation of the compound identification, chromatograms were reviewed to verify the major target peaks were identified, the spectra of the identified compounds were verified against the library spectra, and the relative retention time was no greater than 0.06 different from the associated CV retention times. A minimum of 10% of the detected target analytes and spiking compounds were verified. No anomalies were noted with the identification of the target compounds in the samples.

For the validation of compound quantitation, 10% of the target analytes were recalculated from the raw data, and no calculation errors were noted. Additionally, the reporting limits were

verified to determine if reporting limits (RLs) were adjusted for dilutions. No qualification of the data was required and review of the data indicated the correct RLs were reported.

1.12 Overall Data Assessment

Based on the criteria outlined, it is recommended that the results reported for these analyses are accepted for their intended use. Acceptable levels of accuracy and precision, based on LCS and surrogate data were achieved for this SDG.

8/16/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562593.00009
Workorder #: 1108060A

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 8/3/2011 at Air Toxics Ltd.

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

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

Regards,



Kelly Buettner
Project Manager

Reviewed
on
8/26/2011

WORK ORDER #: 1108060A

Work Order Summary

CLIENT:	Mr. Jeff Adams URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	BILL TO:	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-429-0100	P.O. #	21562593.00009
FAX:		PROJECT #	21562593.00009 Roxana Soil Vapor
DATE RECEIVED:	08/03/2011	CONTACT:	Kelly Buettner
DATE COMPLETED:	08/16/2011		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-1-5-080111	Modified TO-15	7.0 "Hg	15 psi
02A	VMP-1-8.5-080111	Modified TO-15	9.0 "Hg	15 psi
03A	VMP-1-8.5-080111-Dup	Modified TO-15	8.5 "Hg	15 psi
04A	VMP-1-23.5-080111	Modified TO-15	6.5 "Hg	15 psi
05A	VMP-17-5-080111	Modified TO-15	9.0 "Hg	15 psi
06A	VMP-9-5-080211	Modified TO-15	9.5 "Hg	15 psi
06B	VMP-9-5-080211	Modified TO-15	9.5 "Hg	15 psi
07A	VMP-9-11.5-080211	Modified TO-15	8.5 "Hg	15 psi
08A	VMP-9-25.5-080211	Modified TO-15	8.5 "Hg	15 psi
08B	VMP-9-25.5-080211	Modified TO-15	8.5 "Hg	15 psi
09A	VMP-2-5-080211	Modified TO-15	9.0 "Hg	15 psi
09B	VMP-2-5-080211	Modified TO-15	9.0 "Hg	15 psi
10A	VMP-2-8.5-080211	Modified TO-15	1.5 "Hg	15 psi
11A	VMP-2-22-080211	Modified TO-15	8.5 "Hg	15 psi
12A	VMP-3-5-080211	Modified TO-15	10.5 "Hg	15 psi
13A	VMP-3-31.5-080211	Modified TO-15	8.5 "Hg	15 psi
14A	VMP-3-31.5-080211-Dup	Modified TO-15	8.0 "Hg	15 psi

Continued on next page

WORK ORDER #: 1108060A

Work Order Summary

CLIENT: Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-429-0100

P.O. # 21562593.00009

FAX:

PROJECT # 21562593.00009 Roxana Soil Vapor

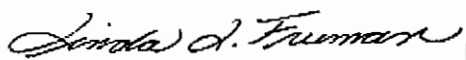
DATE RECEIVED: 08/03/2011

CONTACT: Kelly Buettner

DATE COMPLETED: 08/16/2011

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
14B	VMP-3-31.5-080211-Dup	Modified TO-15	8.0 "Hg	15 psi
15A	VMP-7-5-080211	Modified TO-15	9.0 "Hg	15 psi
16A	Lab Blank	Modified TO-15	NA	NA
16B	Lab Blank	Modified TO-15	NA	NA
17A	CCV	Modified TO-15	NA	NA
17B	CCV	Modified TO-15	NA	NA
18A	LCS	Modified TO-15	NA	NA
18AA	LCSD	Modified TO-15	NA	NA
18B	LCS	Modified TO-15	NA	NA
18BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:



Laboratory Director

DATE: 08/16/11

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1108060A**

Fifteen 1 Liter Summa Canister samples were received on August 03, 2011. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

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

Receiving Notes

The Chain of Custody (COC) information for sample VMP-9-25.5-080211 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Analytical Notes

Dilution was performed on samples VMP-1-8.5-080111, VMP-1-8.5-080111-Dup, VMP-1-23.5-080111, VMP-17-5-080111, VMP-9-5-080211, VMP-9-11.5-080211, VMP-9-25.5-080211, VMP-3-31.5-080211, VMP-3-31.5-080211-Dup and VMP-7-5-080211 due to the presence of high level target species.

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

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Due to high-level target compounds, sample VMP-9-5-080211, VMP-9-25.5-080211, VMP-2-5-080211, and VMP-3-31.5-080211-Dup were analyzed twice. In the "A" fraction, the sample was diluted to bring the highest-level compounds within the calibration range. The "B" fraction is also reported by client request and may be reported with "E" flags indicating the compound exceeds the calibration range. Both runs and associated QC are reported.

The recovery of surrogate 1,2-Dichloroethane-d4 in sample VMP-9-25.5-080211 ("B" fraction) was outside control limits due to high level hydrocarbon matrix interference.

Definition of Data Qualifying Flags

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

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

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

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

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

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

Client Sample ID: VMP-1-5-080111

Lab ID#: 1108060A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.46 J	6.5	2.3 J
Ethanol	5.3	41	9.9	78
2-Propanol	5.3	11	13	26
Carbon Disulfide	5.3	2.7 J	16	8.6 J
Methylene Chloride	1.3	2.8	4.6	9.8
Hexane	1.3	10	4.6	37
2-Butanone (Methyl Ethyl Ketone)	5.3	5.9	16	17
Tetrahydrofuran	1.3	0.56 J	3.9	1.6 J
Cyclohexane	1.3	2.4	4.5	8.3
2,2,4-Trimethylpentane	1.3	30	6.2	140
Benzene	1.3	16	4.2	51
Heptane	1.3	3.1	5.4	12
Trichloroethene	1.3	1.9	7.1	10
4-Methyl-2-pentanone	1.3	20	5.4	81
Toluene	1.3	8.4	5.0	32
2-Hexanone	5.3	0.58 J	22	2.4 J
Ethyl Benzene	1.3	0.59 J	5.7	2.6 J
m,p-Xylene	1.3	1.8	5.7	7.9
o-Xylene	1.3	0.67 J	5.7	2.9 J
Styrene	1.3	0.49 J	5.6	2.1 J
Cumene	1.3	6.2	6.5	30
Propylbenzene	1.3	0.26 J	6.5	1.3 J
4-Ethyltoluene	1.3	0.54 J	6.5	2.6 J
1,3,5-Trimethylbenzene	1.3	0.39 J	6.5	1.9 J
1,2,4-Trimethylbenzene	1.3	1.3	6.5	6.6
1,3-Dichlorobenzene	1.3	0.24 J	7.9	1.4 J
1,4-Dichlorobenzene	1.3	0.39 J	7.9	2.4 J
Butane	5.3	87	12	210
Isopentane	5.3	150	16	450

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

Client Sample ID: VMP-1-8.5-080111

Lab ID#: 1108060A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	720	1400 J	2500	5100 J
Cyclohexane	720	2100	2500	7100
2,2,4-Trimethylpentane	720	81000	3400	380000
Butane	2900	350000	6800	840000
Isopentane	2900	450000	8500	1300000

Client Sample ID: VMP-1-8.5-080111-Dup

Lab ID#: 1108060A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	700	4800 J	2500	17000 J
Cyclohexane	700	3100	2400	11000
2,2,4-Trimethylpentane	700	76000	3300	360000
Benzene	700	1900	2200	6200
Butane	2800	330000	6700	780000
Isopentane	2800	430000	8300	1300000

Client Sample ID: VMP-1-23.5-080111

Lab ID#: 1108060A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	52000	5700 J	130000	14000 J
Carbon Disulfide	13000	2000 J	40000	6200 J
Hexane	13000	90000	45000	320000
Cyclohexane	13000	32000	44000	110000
2,2,4-Trimethylpentane	13000	220000	60000	1000000
Heptane	13000	12000 J	53000	49000 J
Butane	52000	1000000	120000	2500000
Isopentane	52000	530000	150000	1600000

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

Client Sample ID: VMP-17-5-080111

Lab ID#: 1108060A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	77	90	140	170
Hexane	19	69	68	240
Cyclohexane	19	16 J	66	54 J
2,2,4-Trimethylpentane	19	200	90	950
Benzene	19	53	61	170
Heptane	19	6.9 J	79	28 J
4-Methyl-2-pentanone	19	22	79	88
Toluene	19	14 J	72	52 J
Cumene	19	7.2 J	95	35 J
Butane	77	5800	180	14000
Isopentane	77	4000	230	12000

Client Sample ID: VMP-9-5-080211

Lab ID#: 1108060A-06A

**Use these results only. All other data was reported from the 118X dilution analysis.*

DF = 237

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	120	32 J	410	110 J
2,2,4-Trimethylpentane	120	31000	550	150000
Isopentane	470	1800	1400	5300

Client Sample ID: VMP-9-5-080211

Lab ID#: 1108060A-06B

**Do not use this data. Use all other data.*

DF = 118

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	59	41 J	200	140 J
2,2,4-Trimethylpentane	59	35000 E	280	160000 E
4-Methyl-2-pentanone	59	79	240	320
Toluene	59	13 J	220	48 J
Cumene	59	12 J	290	60 J
Butane	240	97 J	560	230 J
Isopentane	240	2100	700	6100

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

Client Sample ID: VMP-9-11.5-080211

Lab ID#: 1108060A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	88	730	300	2500
2,2,4-Trimethylpentane	88	66000	410	310000
Benzene	88	150	280	480
Butane	350	2000	840	4800
Isopentane	350	18000	1000	54000

Client Sample ID: VMP-9-25.5-080211

Lab ID#: 1108060A-08A

** Use these results only. All other data was reported from the 28.2x dilution analysis.*

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	240	830	830	2900
Cyclohexane	240	8700	810	30000
2,2,4-Trimethylpentane	240	87000	1100	410000
Benzene	240	260	750	830
Butane	940	14000	2200	33000
Isopentane	940	160000	2800	460000

Client Sample ID: VMP-9-25.5-080211

Lab ID#: 1108060A-08B

** Do not use this data. Use all other data.*

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	140	800	500	2800
Cyclohexane	140	9400	480	32000
2,2,4-Trimethylpentane	140	95000	660	440000
Benzene	140	210	450	680
Heptane	140	200	580	820
Toluene	140	34 J	530	130 J
Butane	560	15000	1300	35000
Isopentane	560	170000 E	1700	490000 E

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

Client Sample ID: VMP-2-5-080211

Lab ID#: 1108060A-09A

** Use these results only. All other data was reported from the 289x dilution analysis.*
DF=518

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	12000	2200 J	28000	5400 J
Carbon Disulfide	2900	930 J	9000	2900 J
Methylene Chloride	2900	970 J	10000	3400 J
Hexane	2900	10000	10000	37000
Cyclohexane	2900	12000	9900	41000
2,2,4-Trimethylpentane	2900	320000	14000	1500000
Butane	12000	1300000	27000	3000000
Isopentane	12000	2300000	34000	6800000

Client Sample ID: VMP-2-5-080211

Lab ID#: 1108060A-09B

** Do not use this data. Use all other data*
DF=289

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1400	9100	5100	32000
Cyclohexane	1400	10000	5000	35000
2,2,4-Trimethylpentane	1400	290000	6800	1300000
Butane	5800	930000	14000	2200000
~~Isopentane~~	~~5800~~	~~1900000 E~~	~~17000~~	~~5700000 E~~

Client Sample ID: VMP-2-8.5-080211

Lab ID#: 1108060A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	21000	5200 J	50000	12000 J
2-Propanol	21000	4700 J	52000	11000 J
Carbon Disulfide	5300	2600 J	16000	8000 J
Hexane	5300	16000	19000	56000
Cyclohexane	5300	15000	18000	52000
2,2,4-Trimethylpentane	5300	350000	25000	1600000
Butane	21000	1800000	50000	4200000
Isopentane	21000	2800000	62000	8300000

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

Client Sample ID: VMP-2-22-080211

Lab ID#: 1108060A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	7000	17000	25000	59000
Cyclohexane	7000	16000	24000	57000
2,2,4-Trimethylpentane	7000	330000	33000	1500000
Butane	28000	2100000	67000	4900000
Isopentane	28000	2900000	83000	8600000

Client Sample ID: VMP-3-5-080211

Lab ID#: 1108060A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	6.2	98	12	180
2-Propanol	6.2	7.8	15	19
Carbon Disulfide	6.2	2.2 J	19	7.0 J
Methylene Chloride	1.6	0.52 J	5.4	1.8 J
Hexane	1.6	6.3	5.5	22
2-Butanone (Methyl Ethyl Ketone)	6.2	6.2	18	18
Tetrahydrofuran	1.6	0.50 J	4.6	1.5 J
Cyclohexane	1.6	2.4	5.4	8.4
2,2,4-Trimethylpentane	1.6	79	7.3	370
Benzene	1.6	47	5.0	150
Heptane	1.6	0.65 J	6.4	2.7 J
4-Methyl-2-pentanone	1.6	22	6.4	92
Toluene	1.6	5.3	5.8	20
2-Hexanone	6.2	0.86 J	25	3.5 J
Ethyl Benzene	1.6	0.65 J	6.8	2.8 J
m,p-Xylene	1.6	1.7	6.8	7.4
o-Xylene	1.6	0.59 J	6.8	2.6 J
Styrene	1.6	0.49 J	6.6	2.1 J
Cumene	1.6	4.2	7.6	21
4-Ethyltoluene	1.6	0.39 J	7.6	1.9 J
1,3,5-Trimethylbenzene	1.6	0.36 J	7.6	1.8 J

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

Client Sample ID: VMP-3-5-080211

Lab ID#: 1108060A-12A

1,2,4-Trimethylbenzene	1.6	1.4 J	7.6	6.9 J
Butane	6.2	43	15	100
Isopentane	6.2	100	18	300

Client Sample ID: VMP-3-31.5-080211

Lab ID#: 1108060A-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	94000	5000000	330000	18000000
Cyclohexane	94000	300000	320000	1000000
2,2,4-Trimethylpentane	94000	1900000	440000	9100000
Benzene	94000	27000 J	300000	86000 J
Heptane	94000	210000	380000	860000
Tetrachloroethene	94000	160000	640000	1100000
Butane	380000	41000000	890000	98000000
Isopentane	380000	27000000	1100000	80000000

Client Sample ID: VMP-3-31.5-080211-Dup

Lab ID#: 1108060A-14A

DF = 18400

** Use these results only. All other data was reported from the 11000x dilution analysis.*

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	92000	4700000	320000	16000000
Cyclohexane	92000	260000	320000	920000
2,2,4-Trimethylpentane	92000	1700000	430000	8100000
Benzene	92000	25000 J	290000	81000 J
Heptane	92000	180000	380000	740000
Butane	370000	38000000	870000	91000000
Isopentane	370000	26000000	1100000	76000000

Client Sample ID: VMP-3-31.5-080211-Dup

Lab ID#: 1108060A-14B

DF = 11000

** Do not use this data. Use all other data.*

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

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

Client Sample ID: VMP-3-31.5-080211-Dup **Do not use this data. Use all other data.*
Lab ID#: 1108060A-14B *DF=11000*

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	55000	7600000	190000	27000000
Cyclohexane	55000	420000	190000	1400000
2,2,4-Trimethylpentane	55000	2700000	260000	13000000
Benzene	55000	33000 J	180000	110000 J
Heptane	55000	290000	220000	1200000
~~Butane~~	~~220000~~	~~59000000 E~~	~~520000~~	~~140000000 E~~
Isopentane	220000	41000000	650000	120000000

Client Sample ID: VMP-7-5-080211

Lab ID#: 1108060A-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	180	3500	640	12000
Cyclohexane	180	13000	620	45000
2,2,4-Trimethylpentane	180	150000	840	710000
Benzene	180	410	580	1300
Heptane	180	1100	740	4500
Butane	720	46000	1700	110000
Isopentane	720	180000	2100	520000

Client Sample ID: VMP-1-5-080111

Lab ID#: 1108060A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080912	Date of Collection: 8/1/11 9:33:00 AM
Dil. Factor:	2.64	Date of Analysis: 8/9/11 03:03 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.46 J	6.5	2.3 J
Freon 114	1.3	Not Detected	9.2	Not Detected
Chloromethane	5.3	Not Detected	11	Not Detected
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
1,3-Butadiene	1.3	Not Detected	2.9	Not Detected
Bromomethane	1.3	Not Detected	5.1	Not Detected
Chloroethane	5.3	Not Detected	14	Not Detected
Freon 11	1.3	Not Detected	7.4	Not Detected
Ethanol	5.3	41	9.9	78
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Acetone	5.3	Not Detected	12	Not Detected
2-Propanol	5.3	11	13	26
Carbon Disulfide	5.3	2.7 J	16	8.6 J
3-Chloropropene	5.3	Not Detected	16	Not Detected
Methylene Chloride	1.3	2.8	4.6	9.8
Methyl tert-butyl ether	1.3	Not Detected	4.8	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Hexane	1.3	10	4.6	37
1,1-Dichloroethane	1.3	Not Detected	5.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.3	5.9	16	17
cis-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Tetrahydrofuran	1.3	0.56 J	3.9	1.6 J
Chloroform	1.3	Not Detected	6.4	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Cyclohexane	1.3	2.4	4.5	8.3
Carbon Tetrachloride	1.3	Not Detected	8.3	Not Detected
2,2,4-Trimethylpentane	1.3	30	6.2	140
Benzene	1.3	16	4.2	51
1,2-Dichloroethane	1.3	Not Detected	5.3	Not Detected
Heptane	1.3	3.1	5.4	12
Trichloroethene	1.3	1.9	7.1	10
1,2-Dichloropropane	1.3	Not Detected	6.1	Not Detected
1,4-Dioxane	5.3	Not Detected	19	Not Detected
Bromodichloromethane	1.3	Not Detected	8.8	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
4-Methyl-2-pentanone	1.3	20	5.4	81
Toluene	1.3	8.4	5.0	32
trans-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Tetrachloroethene	1.3	Not Detected	9.0	Not Detected

Client Sample ID: VMP-1-5-080111

Lab ID#: 1108060A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080912	Date of Collection: 8/1/11 9:33:00 AM
Dil. Factor:	2.64	Date of Analysis: 8/9/11 03:03 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.3	0.58 J	22	2.4 J
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	Not Detected	6.1	Not Detected
Ethyl Benzene	1.3	0.59 J	5.7	2.6 J
m,p-Xylene	1.3	1.8	5.7	7.9
o-Xylene	1.3	0.67 J	5.7	2.9 J
Styrene	1.3	0.49 J	5.6	2.1 J
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	6.2	6.5	30
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.1	Not Detected
Propylbenzene	1.3	0.26 J	6.5	1.3 J
4-Ethyltoluene	1.3	0.54 J	6.5	2.6 J
1,3,5-Trimethylbenzene	1.3	0.39 J	6.5	1.9 J
1,2,4-Trimethylbenzene	1.3	1.3	6.5	6.6
1,3-Dichlorobenzene	1.3	0.24 J	7.9	1.4 J
1,4-Dichlorobenzene	1.3	0.39 J	7.9	2.4 J
alpha-Chlorotoluene	1.3	Not Detected	6.8	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
1,2,4-Trichlorobenzene	5.3	Not Detected	39	Not Detected
Hexachlorobutadiene	5.3	Not Detected	56	Not Detected
Butane	5.3	87	12	210
Isopentane	5.3	150	16	450

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	106	70-130

Client Sample ID: VMP-1-8.5-080111

Lab ID#: 1108060A-02A

EPA METHOD TO-15 GC/MS

File Name:	14081508	Date of Collection: 8/1/11 10:45:00 AM		
Dil. Factor:	144	Date of Analysis: 8/15/11 07:38 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	720	Not Detected	3600	Not Detected
Freon 114	720	Not Detected	5000	Not Detected
Chloromethane	2900	Not Detected	5900	Not Detected
Vinyl Chloride	720	Not Detected	1800	Not Detected
1,3-Butadiene	720	Not Detected	1600	Not Detected
Bromomethane	720	Not Detected	2800	Not Detected
Chloroethane	2900	Not Detected	7600	Not Detected
Freon 11	720	Not Detected	4000	Not Detected
Ethanol	2900	Not Detected	5400	Not Detected
Freon 113	720	Not Detected	5500	Not Detected
1,1-Dichloroethene	720	Not Detected	2800	Not Detected
Acetone	2900	Not Detected	6800	Not Detected
2-Propanol	2900	Not Detected	7100	Not Detected
Carbon Disulfide	720	Not Detected	2200	Not Detected
3-Chloropropene	2900	Not Detected	9000	Not Detected
Methylene Chloride	720	Not Detected	2500	Not Detected
Methyl tert-butyl ether	720	Not Detected	2600	Not Detected
trans-1,2-Dichloroethene	720	Not Detected	2800	Not Detected
Hexane	720	1400 J	2500	5100
1,1-Dichloroethane	720	Not Detected	2900	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2900	Not Detected	8500	Not Detected
cis-1,2-Dichloroethene	720	Not Detected	2800	Not Detected
Tetrahydrofuran	720	Not Detected	2100	Not Detected
Chloroform	720	Not Detected	3500	Not Detected
1,1,1-Trichloroethane	720	Not Detected	3900	Not Detected
Cyclohexane	720	2100	2500	7100
Carbon Tetrachloride	720	Not Detected	4500	Not Detected
2,2,4-Trimethylpentane	720	81000	3400	380000
Benzene	720	Not Detected	2300	Not Detected
1,2-Dichloroethane	720	Not Detected	2900	Not Detected
Heptane	720	Not Detected	3000	Not Detected
Trichloroethene	720	Not Detected	3900	Not Detected
1,2-Dichloropropane	720	Not Detected	3300	Not Detected
1,4-Dioxane	2900	Not Detected	10000	Not Detected
Bromodichloromethane	720	Not Detected	4800	Not Detected
cis-1,3-Dichloropropene	720	Not Detected	3300	Not Detected
4-Methyl-2-pentanone	720	Not Detected	2900	Not Detected
Toluene	720	Not Detected	2700	Not Detected
trans-1,3-Dichloropropene	720	Not Detected	3300	Not Detected
1,1,2-Trichloroethane	720	Not Detected	3900	Not Detected
Tetrachloroethene	720	Not Detected	4900	Not Detected

Client Sample ID: VMP-1-8.5-080111

Lab ID#: 1108060A-02A

EPA METHOD TO-15 GC/MS

File Name:	14081508	Date of Collection: 8/1/11 10:45:00 AM
Dil. Factor:	144	Date of Analysis: 8/15/11 07:38 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2900	Not Detected	12000	Not Detected
Dibromochloromethane	720	Not Detected	6100	Not Detected
1,2-Dibromoethane (EDB)	720	Not Detected	5500	Not Detected
Chlorobenzene	720	Not Detected	3300	Not Detected
Ethyl Benzene	720	Not Detected	3100	Not Detected
m,p-Xylene	720	Not Detected	3100	Not Detected
o-Xylene	720	Not Detected	3100	Not Detected
Styrene	720	Not Detected	3100	Not Detected
Bromoform	720	Not Detected	7400	Not Detected
Cumene	720	Not Detected	3500	Not Detected
1,1,2,2-Tetrachloroethane	720	Not Detected	4900	Not Detected
Propylbenzene	720	Not Detected	3500	Not Detected
4-Ethyltoluene	720	Not Detected	3500	Not Detected
1,3,5-Trimethylbenzene	720	Not Detected	3500	Not Detected
1,2,4-Trimethylbenzene	720	Not Detected	3500	Not Detected
1,3-Dichlorobenzene	720	Not Detected	4300	Not Detected
1,4-Dichlorobenzene	720	Not Detected	4300	Not Detected
alpha-Chlorotoluene	720	Not Detected	3700	Not Detected
1,2-Dichlorobenzene	720	Not Detected	4300	Not Detected
1,2,4-Trichlorobenzene	2900	Not Detected	21000	Not Detected
Hexachlorobutadiene	2900	Not Detected	31000	Not Detected
Butane	2900	350000	6800	840000
Isopentane	2900	450000	8500	1300000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	93	70-130

Client Sample ID: VMP-1-8.5-080111-Dup

Lab ID#: 1108060A-03A

EPA METHOD TO-15 GC/MS

File Name:	14081532	Date of Collection: 8/1/11 10:45:00 AM		
Dil. Factor:	141	Date of Analysis: 8/15/11 07:02 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	700	Not Detected	3500	Not Detected
Freon 114	700	Not Detected	4900	Not Detected
Chloromethane	2800	Not Detected	5800	Not Detected
Vinyl Chloride	700	Not Detected	1800	Not Detected
1,3-Butadiene	700	Not Detected	1600	Not Detected
Bromomethane	700	Not Detected	2700	Not Detected
Chloroethane	2800	Not Detected	7400	Not Detected
Freon 11	700	Not Detected	4000	Not Detected
Ethanol	2800	Not Detected	5300	Not Detected
Freon 113	700	Not Detected	5400	Not Detected
1,1-Dichloroethene	700	Not Detected	2800	Not Detected
Acetone	2800	Not Detected	6700	Not Detected
2-Propanol	2800	Not Detected	6900	Not Detected
Carbon Disulfide	700	Not Detected	2200	Not Detected
3-Chloropropene	2800	Not Detected	8800	Not Detected
Methylene Chloride	700	Not Detected	2400	Not Detected
Methyl tert-butyl ether	700	Not Detected	2500	Not Detected
trans-1,2-Dichloroethene	700	Not Detected	2800	Not Detected
Hexane	700	4800	2500	17000
1,1-Dichloroethane	700	Not Detected	2800	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2800	Not Detected	8300	Not Detected
cis-1,2-Dichloroethene	700	Not Detected	2800	Not Detected
Tetrahydrofuran	700	Not Detected	2100	Not Detected
Chloroform	700	Not Detected	3400	Not Detected
1,1,1-Trichloroethane	700	Not Detected	3800	Not Detected
Cyclohexane	700	3100	2400	11000
Carbon Tetrachloride	700	Not Detected	4400	Not Detected
2,2,4-Trimethylpentane	700	76000	3300	360000
Benzene	700	1900	2200	6200
1,2-Dichloroethane	700	Not Detected	2800	Not Detected
Heptane	700	Not Detected	2900	Not Detected
Trichloroethene	700	Not Detected	3800	Not Detected
1,2-Dichloropropane	700	Not Detected	3200	Not Detected
1,4-Dioxane	2800	Not Detected	10000	Not Detected
Bromodichloromethane	700	Not Detected	4700	Not Detected
cis-1,3-Dichloropropene	700	Not Detected	3200	Not Detected
4-Methyl-2-pentanone	700	Not Detected	2900	Not Detected
Toluene	700	Not Detected	2600	Not Detected
trans-1,3-Dichloropropene	700	Not Detected	3200	Not Detected
1,1,2-Trichloroethane	700	Not Detected	3800	Not Detected
Tetrachloroethene	700	Not Detected	4800	Not Detected

Client Sample ID: VMP-1-8.5-080111-Dup

Lab ID#: 1108060A-03A

EPA METHOD TO-15 GC/MS

File Name:	14081532	Date of Collection: 8/1/11 10:45:00 AM
Dil. Factor:	141	Date of Analysis: 8/15/11 07:02 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2800	Not Detected	12000	Not Detected
Dibromochloromethane	700	Not Detected	6000	Not Detected
1,2-Dibromoethane (EDB)	700	Not Detected	5400	Not Detected
Chlorobenzene	700	Not Detected	3200	Not Detected
Ethyl Benzene	700	Not Detected	3100	Not Detected
m,p-Xylene	700	Not Detected	3100	Not Detected
o-Xylene	700	Not Detected	3100	Not Detected
Styrene	700	Not Detected	3000	Not Detected
Bromoform	700	Not Detected	7300	Not Detected
Cumene	700	Not Detected	3500	Not Detected
1,1,2,2-Tetrachloroethane	700	Not Detected	4800	Not Detected
Propylbenzene	700	Not Detected	3500	Not Detected
4-Ethyltoluene	700	Not Detected	3500	Not Detected
1,3,5-Trimethylbenzene	700	Not Detected	3500	Not Detected
1,2,4-Trimethylbenzene	700	Not Detected	3500	Not Detected
1,3-Dichlorobenzene	700	Not Detected	4200	Not Detected
1,4-Dichlorobenzene	700	Not Detected	4200	Not Detected
alpha-Chlorotoluene	700	Not Detected	3600	Not Detected
1,2-Dichlorobenzene	700	Not Detected	4200	Not Detected
1,2,4-Trichlorobenzene	2800	Not Detected	21000	Not Detected
Hexachlorobutadiene	2800	Not Detected	30000	Not Detected
Butane	2800	330000	6700	780000
Isopentane	2800	430000	8300	1300000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: VMP-1-23.5-080111

Lab ID#: 1108060A-04A

EPA METHOD TO-15 GC/MS

File Name:	14081525	Date of Collection: 8/1/11 11:58:00 AM
Dil. Factor:	2580	Date of Analysis: 8/15/11 03:08 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	13000	Not Detected	64000	Not Detected
Freon 114	13000	Not Detected	90000	Not Detected
Chloromethane	52000	Not Detected	110000	Not Detected
Vinyl Chloride	13000	Not Detected	33000	Not Detected
1,3-Butadiene	13000	Not Detected	28000	Not Detected
Bromomethane	13000	Not Detected	50000	Not Detected
Chloroethane	52000	Not Detected	140000	Not Detected
Freon 11	13000	Not Detected	72000	Not Detected
Ethanol	52000	Not Detected	97000	Not Detected
Freon 113	13000	Not Detected	99000	Not Detected
1,1-Dichloroethene	13000	Not Detected	51000	Not Detected
Acetone	52000	Not Detected	120000	Not Detected
2-Propanol	52000	5700 J	130000	14000 J
Carbon Disulfide	13000	2000 J	40000	6200 J
3-Chloropropene	52000	Not Detected	160000	Not Detected
Methylene Chloride	13000	Not Detected	45000	Not Detected
Methyl tert-butyl ether	13000	Not Detected	46000	Not Detected
trans-1,2-Dichloroethene	13000	Not Detected	51000	Not Detected
Hexane	13000	90000	45000	320000
1,1-Dichloroethane	13000	Not Detected	52000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	52000	Not Detected	150000	Not Detected
cis-1,2-Dichloroethene	13000	Not Detected	51000	Not Detected
Tetrahydrofuran	13000	Not Detected	38000	Not Detected
Chloroform	13000	Not Detected	63000	Not Detected
1,1,1-Trichloroethane	13000	Not Detected	70000	Not Detected
Cyclohexane	13000	32000	44000	110000
Carbon Tetrachloride	13000	Not Detected	81000	Not Detected
2,2,4-Trimethylpentane	13000	220000	60000	1000000
Benzene	13000	Not Detected	41000	Not Detected
1,2-Dichloroethane	13000	Not Detected	52000	Not Detected
Heptane	13000	12000 J	53000	49000 J
Trichloroethene	13000	Not Detected	69000	Not Detected
1,2-Dichloropropane	13000	Not Detected	60000	Not Detected
1,4-Dioxane	52000	Not Detected	180000	Not Detected
Bromodichloromethane	13000	Not Detected	86000	Not Detected
cis-1,3-Dichloropropene	13000	Not Detected	58000	Not Detected
4-Methyl-2-pentanone	13000	Not Detected	53000	Not Detected
Toluene	13000	Not Detected	49000	Not Detected
trans-1,3-Dichloropropene	13000	Not Detected	58000	Not Detected
1,1,2-Trichloroethane	13000	Not Detected	70000	Not Detected
Tetrachloroethene	13000	Not Detected	88000	Not Detected

Client Sample ID: VMP-1-23.5-080111

Lab ID#: 1108060A-04A

EPA METHOD TO-15 GC/MS

File Name:	14081525	Date of Collection: 8/1/11 11:58:00 AM
Dil. Factor:	2580	Date of Analysis: 8/15/11 03:08 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	52000	Not Detected	210000	Not Detected
Dibromochloromethane	13000	Not Detected	110000	Not Detected
1,2-Dibromoethane (EDB)	13000	Not Detected	99000	Not Detected
Chlorobenzene	13000	Not Detected	59000	Not Detected
Ethyl Benzene	13000	Not Detected	56000	Not Detected
m,p-Xylene	13000	Not Detected	56000	Not Detected
o-Xylene	13000	Not Detected	56000	Not Detected
Styrene	13000	Not Detected	55000	Not Detected
Bromoform	13000	Not Detected	130000	Not Detected
Cumene	13000	Not Detected	63000	Not Detected
1,1,2,2-Tetrachloroethane	13000	Not Detected	88000	Not Detected
Propylbenzene	13000	Not Detected	63000	Not Detected
4-Ethyltoluene	13000	Not Detected	63000	Not Detected
1,3,5-Trimethylbenzene	13000	Not Detected	63000	Not Detected
1,2,4-Trimethylbenzene	13000	Not Detected	63000	Not Detected
1,3-Dichlorobenzene	13000	Not Detected	78000	Not Detected
1,4-Dichlorobenzene	13000	Not Detected	78000	Not Detected
alpha-Chlorotoluene	13000	Not Detected	67000	Not Detected
1,2-Dichlorobenzene	13000	Not Detected	78000	Not Detected
1,2,4-Trichlorobenzene	52000	Not Detected	380000	Not Detected
Hexachlorobutadiene	52000	Not Detected	550000	Not Detected
Butane	52000	1000000	120000	25000000
Isopentane	52000	5300000	150000	16000000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	95	70-130

Client Sample ID: VMP-17-5-080111

Lab ID#: 1108060A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080916	Date of Collection: 8/1/11 4:26:00 PM
Dil. Factor:	38.5	Date of Analysis: 8/9/11 05:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	19	Not Detected	95	Not Detected
Freon 114	19	Not Detected	130	Not Detected
Chloromethane	77	Not Detected	160	Not Detected
Vinyl Chloride	19	Not Detected	49	Not Detected
1,3-Butadiene	19	Not Detected	42	Not Detected
Bromomethane	19	Not Detected	75	Not Detected
Chloroethane	77	Not Detected	200	Not Detected
Freon 11	19	Not Detected	110	Not Detected
Ethanol	77	90	140	170
Freon 113	19	Not Detected	150	Not Detected
1,1-Dichloroethene	19	Not Detected	76	Not Detected
Acetone	77	Not Detected	180	Not Detected
2-Propanol	77	Not Detected	190	Not Detected
Carbon Disulfide	77	Not Detected	240	Not Detected
3-Chloropropene	77	Not Detected	240	Not Detected
Methylene Chloride	19	Not Detected	67	Not Detected
Methyl tert-butyl ether	19	Not Detected	69	Not Detected
trans-1,2-Dichloroethene	19	Not Detected	76	Not Detected
Hexane	19	69	68	240
1,1-Dichloroethane	19	Not Detected	78	Not Detected
2-Butanone (Methyl Ethyl Ketone)	77	Not Detected	230	Not Detected
cis-1,2-Dichloroethene	19	Not Detected	76	Not Detected
Tetrahydrofuran	19	Not Detected	57	Not Detected
Chloroform	19	Not Detected	94	Not Detected
1,1,1-Trichloroethane	19	Not Detected	100	Not Detected
Cyclohexane	19	16 J	66	54 J
Carbon Tetrachloride	19	Not Detected	120	Not Detected
2,2,4-Trimethylpentane	19	200	90	950
Benzene	19	53	61	170
1,2-Dichloroethane	19	Not Detected	78	Not Detected
Heptane	19	6.9 J	79	28 J
Trichloroethene	19	Not Detected	100	Not Detected
1,2-Dichloropropane	19	Not Detected	89	Not Detected
1,4-Dioxane	77	Not Detected	280	Not Detected
Bromodichloromethane	19	Not Detected	130	Not Detected
cis-1,3-Dichloropropene	19	Not Detected	87	Not Detected
4-Methyl-2-pentanone	19	22	79	88
Toluene	19	14 J	72	52 J
trans-1,3-Dichloropropene	19	Not Detected	87	Not Detected
1,1,2-Trichloroethane	19	Not Detected	100	Not Detected
Tetrachloroethene	19	Not Detected	130	Not Detected

Client Sample ID: VMP-17-5-080111

Lab ID#: 1108060A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080916	Date of Collection: 8/1/11 4:26:00 PM
Dil. Factor:	38.5	Date of Analysis: 8/9/11 05:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	77	Not Detected	320	Not Detected
Dibromochloromethane	19	Not Detected	160	Not Detected
1,2-Dibromoethane (EDB)	19	Not Detected	150	Not Detected
Chlorobenzene	19	Not Detected	89	Not Detected
Ethyl Benzene	19	Not Detected	84	Not Detected
m,p-Xylene	19	Not Detected	84	Not Detected
o-Xylene	19	Not Detected	84	Not Detected
Styrene	19	Not Detected	82	Not Detected
Bromoform	19	Not Detected	200	Not Detected
Cumene	19	7.2 J	95	35 J
1,1,2,2-Tetrachloroethane	19	Not Detected	130	Not Detected
Propylbenzene	19	Not Detected	95	Not Detected
4-Ethyltoluene	19	Not Detected	95	Not Detected
1,3,5-Trimethylbenzene	19	Not Detected	95	Not Detected
1,2,4-Trimethylbenzene	19	Not Detected	95	Not Detected
1,3-Dichlorobenzene	19	Not Detected	120	Not Detected
1,4-Dichlorobenzene	19	Not Detected	120	Not Detected
alpha-Chlorotoluene	19	Not Detected	100	Not Detected
1,2-Dichlorobenzene	19	Not Detected	120	Not Detected
1,2,4-Trichlorobenzene	77	Not Detected	570	Not Detected
Hexachlorobutadiene	77	Not Detected	820	Not Detected
Butane	77	5800	180	14000
Isopentane	77	4000 ✓	230	12000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	90	70-130

** Use these results only. All other data was reported from the 118x dilution analysis.*

Client Sample ID: VMP-9-5-080211

Lab ID#: 1108060A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080914	Date of Collection:	8/2/11 10:36:00 AM	
Dil. Factor:	237	Date of Analysis:	8/9/11 04:35 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	120	Not Detected	590	Not Detected
Freon 114	120	Not Detected	830	Not Detected
Chloromethane	470	Not Detected	980	Not Detected
Vinyl Chloride	120	Not Detected	300	Not Detected
1,3-Butadiene	120	Not Detected	260	Not Detected
Bromomethane	120	Not Detected	460	Not Detected
Chloroethane	470	Not Detected	1200	Not Detected
Freon 11	120	Not Detected	660	Not Detected
Ethanol	470	Not Detected	890	Not Detected
Freon 113	120	Not Detected	910	Not Detected
1,1-Dichloroethene	120	Not Detected	470	Not Detected
Acetone	470	Not Detected	1100	Not Detected
2-Propanol	470	Not Detected	1200	Not Detected
Carbon Disulfide	470	Not Detected	1500	Not Detected
3-Chloropropene	470	Not Detected	1500	Not Detected
Methylene Chloride	120	Not Detected	410	Not Detected
Methyl tert-butyl ether	120	Not Detected	430	Not Detected
trans-1,2-Dichloroethene	120	Not Detected	470	Not Detected
Hexane	120	Not Detected	420	Not Detected
1,1-Dichloroethane	120	Not Detected	480	Not Detected
2-Butanone (Methyl Ethyl Ketone)	470	Not Detected	1400	Not Detected
cis-1,2-Dichloroethene	120	Not Detected	470	Not Detected
Tetrahydrofuran	120	Not Detected	350	Not Detected
Chloroform	120	Not Detected	580	Not Detected
1,1,1-Trichloroethane	120	Not Detected	650	Not Detected
Cyclohexane	120	32 J	410	110 J
Carbon Tetrachloride	120	Not Detected	740	Not Detected
2,2,4-Trimethylpentane	120	31000	550	150000
Benzene	120	Not Detected	380	Not Detected
1,2-Dichloroethane	120	Not Detected	480	Not Detected
Heptane	120	Not Detected	480	Not Detected
Trichloroethene	120	Not Detected	640	Not Detected
1,2-Dichloropropane	120	Not Detected	550	Not Detected
1,4-Dioxane	470	Not Detected	1700	Not Detected
Bromodichloromethane	120	Not Detected	790	Not Detected
cis-1,3-Dichloropropene	120	Not Detected	540	Not Detected
4-Methyl-2-pentanone	120	Not Detected	480	Not Detected
Toluene	120	Not Detected	450	Not Detected
trans-1,3-Dichloropropene	120	Not Detected	540	Not Detected
1,1,2-Trichloroethane	120	Not Detected	650	Not Detected
Tetrachloroethene	120	Not Detected	800	Not Detected

Client Sample ID: VMP-9-5-080211

Lab ID#: 1108060A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080914	Date of Collection: 8/2/11 10:36:00 AM
Dil. Factor:	237	Date of Analysis: 8/9/11 04:35 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	470	Not Detected	1900	Not Detected
Dibromochloromethane	120	Not Detected	1000	Not Detected
1,2-Dibromoethane (EDB)	120	Not Detected	910	Not Detected
Chlorobenzene	120	Not Detected	540	Not Detected
Ethyl Benzene	120	Not Detected	510	Not Detected
m,p-Xylene	120	Not Detected	510	Not Detected
o-Xylene	120	Not Detected	510	Not Detected
Styrene	120	Not Detected	500	Not Detected
Bromoform	120	Not Detected	1200	Not Detected
Cumene	120	Not Detected	580	Not Detected
1,1,2,2-Tetrachloroethane	120	Not Detected	810	Not Detected
Propylbenzene	120	Not Detected	580	Not Detected
4-Ethyltoluene	120	Not Detected	580	Not Detected
1,3,5-Trimethylbenzene	120	Not Detected	580	Not Detected
1,2,4-Trimethylbenzene	120	Not Detected	580	Not Detected
1,3-Dichlorobenzene	120	Not Detected	710	Not Detected
1,4-Dichlorobenzene	120	Not Detected	710	Not Detected
alpha-Chlorotoluene	120	Not Detected	610	Not Detected
1,2-Dichlorobenzene	120	Not Detected	710	Not Detected
1,2,4-Trichlorobenzene	470	Not Detected	3500	Not Detected
Hexachlorobutadiene	470	Not Detected	5000	Not Detected
Butane	470	Not Detected	1100	Not Detected
Isopentane	470	1800	1400	5300

J = Estimated value.

Container Type: 1 Liter Summa Canister

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

**Do not use this data. Use all other data.*

Client Sample ID: VMP-9-5-080211

Lab ID#: 1108060A-06B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080913	Date of Collection: 8/2/11 10:36:00 AM
Dil. Factor:	118	Date of Analysis: 8/9/11 03:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	59	Not Detected	290	Not Detected
Freon 114	59	Not Detected	410	Not Detected
Chloromethane	240	Not Detected	490	Not Detected
Vinyl Chloride	59	Not Detected	150	Not Detected
1,3-Butadiene	59	Not Detected	130	Not Detected
Bromomethane	59	Not Detected	230	Not Detected
Chloroethane	240	Not Detected	620	Not Detected
Freon 11	59	Not Detected	330	Not Detected
Ethanol	240	Not Detected	440	Not Detected
Freon 113	59	Not Detected	450	Not Detected
1,1-Dichloroethene	59	Not Detected	230	Not Detected
Acetone	240	Not Detected	560	Not Detected
2-Propanol	240	Not Detected	580	Not Detected
Carbon Disulfide	240	Not Detected	730	Not Detected
3-Chloropropene	240	Not Detected	740	Not Detected
Methylene Chloride	59	Not Detected	200	Not Detected
Methyl tert-butyl ether	59	Not Detected	210	Not Detected
trans-1,2-Dichloroethene	59	Not Detected	230	Not Detected
Hexane	59	Not Detected	210	Not Detected
1,1-Dichloroethane	59	Not Detected	240	Not Detected
2-Butanone (Methyl Ethyl Ketone)	240	Not Detected	700	Not Detected
cis-1,2-Dichloroethene	59	Not Detected	230	Not Detected
Tetrahydrofuran	59	Not Detected	170	Not Detected
Chloroform	59	Not Detected	290	Not Detected
1,1,1-Trichloroethane	59	Not Detected	320	Not Detected
Cyclohexane	59	41 J	200	140 J
Carbon Tetrachloride	59	Not Detected	370	Not Detected
~~2,2,4-Trimethylpentane~~	~~59~~	~~35000 E~~	~~280~~	~~160000 E~~
Benzene	59	Not Detected	190	Not Detected
1,2-Dichloroethane	59	Not Detected	240	Not Detected
Heptane	59	Not Detected	240	Not Detected
Trichloroethene	59	Not Detected	320	Not Detected
1,2-Dichloropropane	59	Not Detected	270	Not Detected
1,4-Dioxane	240	Not Detected	850	Not Detected
Bromodichloromethane	59	Not Detected	400	Not Detected
cis-1,3-Dichloropropene	59	Not Detected	270	Not Detected
4-Methyl-2-pentanone	59	79	240	320
Toluene	59	13 J	220	48 J
trans-1,3-Dichloropropene	59	Not Detected	270	Not Detected
1,1,2-Trichloroethane	59	Not Detected	320	Not Detected
Tetrachloroethene	59	Not Detected	400	Not Detected

Client Sample ID: VMP-9-5-080211

Lab ID#: 1108060A-06B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080913	Date of Collection: 8/2/11 10:36:00 AM
Dil. Factor:	118	Date of Analysis: 8/9/11 03:50 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	240	Not Detected	970	Not Detected
Dibromochloromethane	59	Not Detected	500	Not Detected
1,2-Dibromoethane (EDB)	59	Not Detected	450	Not Detected
Chlorobenzene	59	Not Detected	270	Not Detected
Ethyl Benzene	59	Not Detected	260	Not Detected
m,p-Xylene	59	Not Detected	260	Not Detected
o-Xylene	59	Not Detected	260	Not Detected
Styrene	59	Not Detected	250	Not Detected
Bromoform	59	Not Detected	610	Not Detected
Cumene	59	12 J	290	60 J
1,1,2,2-Tetrachloroethane	59	Not Detected	400	Not Detected
Propylbenzene	59	Not Detected	290	Not Detected
4-Ethyltoluene	59	Not Detected	290	Not Detected
1,3,5-Trimethylbenzene	59	Not Detected	290	Not Detected
1,2,4-Trimethylbenzene	59	Not Detected	290	Not Detected
1,3-Dichlorobenzene	59	Not Detected	350	Not Detected
1,4-Dichlorobenzene	59	Not Detected	350	Not Detected
alpha-Chlorotoluene	59	Not Detected	300	Not Detected
1,2-Dichlorobenzene	59	Not Detected	350	Not Detected
1,2,4-Trichlorobenzene	240	Not Detected	1800	Not Detected
Hexachlorobutadiene	240	Not Detected	2500	Not Detected
Butane	240	97 J	560	230 J
Isopentane	240	2100	700	6100

J = Estimated value.

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

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

Client Sample ID: VMP-9-11.5-080211

Lab ID#: 1108060A-07A

EPA METHOD TO-15 GC/MS

File Name:	14081509	Date of Collection: 8/2/11 11:50:00 AM
Dil. Factor:	17.6	Date of Analysis: 8/15/11 08:17 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	88	Not Detected	440	Not Detected
Freon 114	88	Not Detected	620	Not Detected
Chloromethane	350	Not Detected	730	Not Detected
Vinyl Chloride	88	Not Detected	220	Not Detected
1,3-Butadiene	88	Not Detected	190	Not Detected
Bromomethane	88	Not Detected	340	Not Detected
Chloroethane	350	Not Detected	930	Not Detected
Freon 11	88	Not Detected	490	Not Detected
Ethanol	350	Not Detected	660	Not Detected
Freon 113	88	Not Detected	670	Not Detected
1,1-Dichloroethene	88	Not Detected	350	Not Detected
Acetone	350	Not Detected	840	Not Detected
2-Propanol	350	Not Detected	860	Not Detected
Carbon Disulfide	88	Not Detected	270	Not Detected
3-Chloropropene	350	Not Detected	1100	Not Detected
Methylene Chloride	88	Not Detected	300	Not Detected
Methyl tert-butyl ether	88	Not Detected	320	Not Detected
trans-1,2-Dichloroethene	88	Not Detected	350	Not Detected
Hexane	88	Not Detected	310	Not Detected
1,1-Dichloroethane	88	Not Detected	360	Not Detected
2-Butanone (Methyl Ethyl Ketone)	350	Not Detected	1000	Not Detected
cis-1,2-Dichloroethene	88	Not Detected	350	Not Detected
Tetrahydrofuran	88	Not Detected	260	Not Detected
Chloroform	88	Not Detected	430	Not Detected
1,1,1-Trichloroethane	88	Not Detected	480	Not Detected
Cyclohexane	88	730	300	2500
Carbon Tetrachloride	88	Not Detected	550	Not Detected
2,2,4-Trimethylpentane	88	66000	410	310000
Benzene	88	150	280	480
1,2-Dichloroethane	88	Not Detected	360	Not Detected
Heptane	88	Not Detected	360	Not Detected
Trichloroethene	88	Not Detected	470	Not Detected
1,2-Dichloropropane	88	Not Detected	410	Not Detected
1,4-Dioxane	350	Not Detected	1300	Not Detected
Bromodichloromethane	88	Not Detected	590	Not Detected
cis-1,3-Dichloropropene	88	Not Detected	400	Not Detected
4-Methyl-2-pentanone	88	Not Detected	360	Not Detected
Toluene	88	Not Detected	330	Not Detected
trans-1,3-Dichloropropene	88	Not Detected	400	Not Detected
1,1,2-Trichloroethane	88	Not Detected	480	Not Detected
Tetrachloroethene	88	Not Detected	600	Not Detected

Client Sample ID: VMP-9-11.5-080211

Lab ID#: 1108060A-07A

EPA METHOD TO-15 GC/MS

File Name:	14081509	Date of Collection: 8/2/11 11:50:00 AM
Dil. Factor:	17.6	Date of Analysis: 8/15/11 08:17 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	350	Not Detected	1400	Not Detected
Dibromochloromethane	88	Not Detected	750	Not Detected
1,2-Dibromoethane (EDB)	88	Not Detected	680	Not Detected
Chlorobenzene	88	Not Detected	400	Not Detected
Ethyl Benzene	88	Not Detected	380	Not Detected
m,p-Xylene	88	Not Detected	380	Not Detected
o-Xylene	88	Not Detected	380	Not Detected
Styrene	88	Not Detected	370	Not Detected
Bromoform	88	Not Detected	910	Not Detected
Cumene	88	Not Detected	430	Not Detected
1,1,2,2-Tetrachloroethane	88	Not Detected	600	Not Detected
Propylbenzene	88	Not Detected	430	Not Detected
4-Ethyltoluene	88	Not Detected	430	Not Detected
1,3,5-Trimethylbenzene	88	Not Detected	430	Not Detected
1,2,4-Trimethylbenzene	88	Not Detected	430	Not Detected
1,3-Dichlorobenzene	88	Not Detected	530	Not Detected
1,4-Dichlorobenzene	88	Not Detected	530	Not Detected
alpha-Chlorotoluene	88	Not Detected	460	Not Detected
1,2-Dichlorobenzene	88	Not Detected	530	Not Detected
1,2,4-Trichlorobenzene	350	Not Detected	2600	Not Detected
Hexachlorobutadiene	350	Not Detected	3800	Not Detected
Butane	350	2000	840	4800
Isopentane	350	18000	1000	54000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	96	70-130

** Use these results only. All other data was reported from the 28.2 x dilution analysis.*

Client Sample ID: VMP-9-25.5-080211

Lab ID#: 1108060A-08A

EPA METHOD TO-15 GC/MS

File Name:	14081511	Date of Collection: 8/2/11 1:19:00 PM
Dil. Factor:	47.0	Date of Analysis: 8/15/11 09:16 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	240	Not Detected	1200	Not Detected
Freon 114	240	Not Detected	1600	Not Detected
Chloromethane	940	Not Detected	1900	Not Detected
Vinyl Chloride	240	Not Detected	600	Not Detected
1,3-Butadiene	240	Not Detected	520	Not Detected
Bromomethane	240	Not Detected	910	Not Detected
Chloroethane	940	Not Detected	2500	Not Detected
Freon 11	240	Not Detected	1300	Not Detected
Ethanol	940	Not Detected	1800	Not Detected
Freon 113	240	Not Detected	1800	Not Detected
1,1-Dichloroethene	240	Not Detected	930	Not Detected
Acetone	940	Not Detected	2200	Not Detected
2-Propanol	940	Not Detected	2300	Not Detected
Carbon Disulfide	240	Not Detected	730	Not Detected
3-Chloropropene	940	Not Detected	2900	Not Detected
Methylene Chloride	240	Not Detected	820	Not Detected
Methyl tert-butyl ether	240	Not Detected	850	Not Detected
trans-1,2-Dichloroethene	240	Not Detected	930	Not Detected
Hexane	240	830	830	2900
1,1-Dichloroethane	240	Not Detected	950	Not Detected
2-Butanone (Methyl Ethyl Ketone)	940	Not Detected	2800	Not Detected
cis-1,2-Dichloroethene	240	Not Detected	930	Not Detected
Tetrahydrofuran	240	Not Detected	690	Not Detected
Chloroform	240	Not Detected	1100	Not Detected
1,1,1-Trichloroethane	240	Not Detected	1300	Not Detected
Cyclohexane	240	8700	810	30000
Carbon Tetrachloride	240	Not Detected	1500	Not Detected
2,2,4-Trimethylpentane	240	87000	1100	410000
Benzene	240	260	750	830
1,2-Dichloroethane	240	Not Detected	950	Not Detected
Heptane	240	Not Detected	960	Not Detected
Trichloroethene	240	Not Detected	1300	Not Detected
1,2-Dichloropropane	240	Not Detected	1100	Not Detected
1,4-Dioxane	940	Not Detected	3400	Not Detected
Bromodichloromethane	240	Not Detected	1600	Not Detected
cis-1,3-Dichloropropene	240	Not Detected	1100	Not Detected
4-Methyl-2-pentanone	240	Not Detected	960	Not Detected
Toluene	240	Not Detected	880	Not Detected
trans-1,3-Dichloropropene	240	Not Detected	1100	Not Detected
1,1,2-Trichloroethane	240	Not Detected	1300	Not Detected
Tetrachloroethene	240	Not Detected	1600	Not Detected

Client Sample ID: VMP-9-25.5-080211

Lab ID#: 1108060A-08A

EPA METHOD TO-15 GC/MS

File Name:	14081511	Date of Collection: 8/2/11 1:19:00 PM
Dil. Factor:	47.0	Date of Analysis: 8/15/11 09:16 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	940	Not Detected	3800	Not Detected
Dibromochloromethane	240	Not Detected	2000	Not Detected
1,2-Dibromoethane (EDB)	240	Not Detected	1800	Not Detected
Chlorobenzene	240	Not Detected	1100	Not Detected
Ethyl Benzene	240	Not Detected	1000	Not Detected
m,p-Xylene	240	Not Detected	1000	Not Detected
o-Xylene	240	Not Detected	1000	Not Detected
Styrene	240	Not Detected	1000	Not Detected
Bromoform	240	Not Detected	2400	Not Detected
Cumene	240	Not Detected	1200	Not Detected
1,1,2,2-Tetrachloroethane	240	Not Detected	1600	Not Detected
Propylbenzene	240	Not Detected	1200	Not Detected
4-Ethyltoluene	240	Not Detected	1200	Not Detected
1,3,5-Trimethylbenzene	240	Not Detected	1200	Not Detected
1,2,4-Trimethylbenzene	240	Not Detected	1200	Not Detected
1,3-Dichlorobenzene	240	Not Detected	1400	Not Detected
1,4-Dichlorobenzene	240	Not Detected	1400	Not Detected
alpha-Chlorotoluene	240	Not Detected	1200	Not Detected
1,2-Dichlorobenzene	240	Not Detected	1400	Not Detected
1,2,4-Trichlorobenzene	940	Not Detected	7000	Not Detected
Hexachlorobutadiene	940	Not Detected	10000	Not Detected
Butane	940	14000	2200	33000
Isopentane	940	160000	2800	460000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	94	70-130

Do not use this data. Use all other data.

Client Sample ID: VMP-9-25.5-080211

Lab ID#: 1108060A-08B

EPA METHOD TO-15 GC/MS

File Name:	14081510	Date of Collection: 8/2/11 1:19:00 PM		
Dil. Factor:	28.2	Date of Analysis: 8/15/11 08:50 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	140	Not Detected	700	Not Detected
Freon 114	140	Not Detected	980	Not Detected
Chloromethane	560	Not Detected	1200	Not Detected
Vinyl Chloride	140	Not Detected	360	Not Detected
1,3-Butadiene	140	Not Detected	310	Not Detected
Bromomethane	140	Not Detected	550	Not Detected
Chloroethane	560	Not Detected	1500	Not Detected
Freon 11	140	Not Detected	790	Not Detected
Ethanol	560	Not Detected	1100	Not Detected
Freon 113	140	Not Detected	1100	Not Detected
1,1-Dichloroethene	140	Not Detected	560	Not Detected
Acetone	560	Not Detected	1300	Not Detected
2-Propanol	560	Not Detected	1400	Not Detected
Carbon Disulfide	140	Not Detected	440	Not Detected
3-Chloropropene	560	Not Detected	1800	Not Detected
Methylene Chloride	140	Not Detected	490	Not Detected
Methyl tert-butyl ether	140	Not Detected	510	Not Detected
trans-1,2-Dichloroethene	140	Not Detected	560	Not Detected
Hexane	140	800 J	500	2800 J
1,1-Dichloroethane	140	Not Detected	570	Not Detected
2-Butanone (Methyl Ethyl Ketone)	560	Not Detected	1700	Not Detected
cis-1,2-Dichloroethene	140	Not Detected	560	Not Detected
Tetrahydrofuran	140	Not Detected	420	Not Detected
Chloroform	140	Not Detected	690	Not Detected
1,1,1-Trichloroethane	140	Not Detected	770	Not Detected
Cyclohexane	140	9400 J	480	32000 J
Carbon Tetrachloride	140	Not Detected	890	Not Detected
2,2,4-Trimethylpentane	140	95000 J	660	440000 J
Benzene	140	210 J	450	680 J
1,2-Dichloroethane	140	Not Detected	570	Not Detected
Heptane	140	200 J	580	820 J
Trichloroethene	140	Not Detected	760	Not Detected
1,2-Dichloropropane	140	Not Detected	650	Not Detected
1,4-Dioxane	560	Not Detected	2000	Not Detected
Bromodichloromethane	140	Not Detected	940	Not Detected
cis-1,3-Dichloropropene	140	Not Detected	640	Not Detected
4-Methyl-2-pentanone	140	Not Detected	580	Not Detected
Toluene	140	34 J J	530	130 J J
trans-1,3-Dichloropropene	140	Not Detected	640	Not Detected
1,1,2-Trichloroethane	140	Not Detected	770	Not Detected
Tetrachloroethene	140	Not Detected	960	Not Detected

Client Sample ID: VMP-9-25.5-080211

Lab ID#: 1108060A-08B

EPA METHOD TO-15 GC/MS

File Name:	14081510	Date of Collection: 8/2/11 1:19:00 PM
Dil. Factor:	28.2	Date of Analysis: 8/15/11 08:50 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	560	Not Detected	2300	Not Detected
Dibromochloromethane	140	Not Detected	1200	Not Detected
1,2-Dibromoethane (EDB)	140	Not Detected	1100	Not Detected
Chlorobenzene	140	Not Detected	650	Not Detected
Ethyl Benzene	140	Not Detected	610	Not Detected
m,p-Xylene	140	Not Detected	610	Not Detected
o-Xylene	140	Not Detected	610	Not Detected
Styrene	140	Not Detected	600	Not Detected
Bromoform	140	Not Detected	1400	Not Detected
Cumene	140	Not Detected	690	Not Detected
1,1,2,2-Tetrachloroethane	140	Not Detected	970	Not Detected
Propylbenzene	140	Not Detected	690	Not Detected
4-Ethyltoluene	140	Not Detected	690	Not Detected
1,3,5-Trimethylbenzene	140	Not Detected	690	Not Detected
1,2,4-Trimethylbenzene	140	Not Detected	690	Not Detected
1,3-Dichlorobenzene	140	Not Detected	850	Not Detected
1,4-Dichlorobenzene	140	Not Detected	850	Not Detected
alpha-Chlorotoluene	140	Not Detected	730	Not Detected
1,2-Dichlorobenzene	140	Not Detected	850	Not Detected
1,2,4-Trichlorobenzene	560	Not Detected	4200	Not Detected
Hexachlorobutadiene	560	Not Detected	6000	Not Detected
Butane	560	15000 J	1300	35000 J
Isopentane	560	170000 E	1700	490000 E

J = Estimated value.

E = Exceeds instrument calibration range.

Q = Exceeds Quality Control limits.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	131.8	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	96	70-130

** Use these results only. All other data was reported from the 289x dilution analysis.*

Client Sample ID: VMP-2-5-080211

Lab ID#: 1108060A-09A

EPA METHOD TO-15 GC/MS

File Name:	14081530	Date of Collection: 8/2/11 9:26:00 AM
Dil. Factor:	578	Date of Analysis: 8/15/11 06:06 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2900	Not Detected	14000	Not Detected
Freon 114	2900	Not Detected	20000	Not Detected
Chloromethane	12000	Not Detected	24000	Not Detected
Vinyl Chloride	2900	Not Detected	7400	Not Detected
1,3-Butadiene	2900	Not Detected	6400	Not Detected
Bromomethane	2900	Not Detected	11000	Not Detected
Chloroethane	12000	Not Detected	30000	Not Detected
Freon 11	2900	Not Detected	16000	Not Detected
Ethanol	12000	Not Detected	22000	Not Detected
Freon 113	2900	Not Detected	22000	Not Detected
1,1-Dichloroethene	2900	Not Detected	11000	Not Detected
Acetone	12000	Not Detected	27000	Not Detected
2-Propanol	12000	2200 J	28000	5400 J
Carbon Disulfide	2900	930 J	9000	2900 J
3-Chloropropene	12000	Not Detected	36000	Not Detected
Methylene Chloride	2900	970 J	10000	3400 J
Methyl tert-butyl ether	2900	Not Detected	10000	Not Detected
trans-1,2-Dichloroethene	2900	Not Detected	11000	Not Detected
Hexane	2900	10000	10000	37000
1,1-Dichloroethane	2900	Not Detected	12000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	12000	Not Detected	34000	Not Detected
cis-1,2-Dichloroethene	2900	Not Detected	11000	Not Detected
Tetrahydrofuran	2900	Not Detected	8500	Not Detected
Chloroform	2900	Not Detected	14000	Not Detected
1,1,1-Trichloroethane	2900	Not Detected	16000	Not Detected
Cyclohexane	2900	12000	9900	41000
Carbon Tetrachloride	2900	Not Detected	18000	Not Detected
2,2,4-Trimethylpentane	2900	320000	14000	1500000
Benzene	2900	Not Detected	9200	Not Detected
1,2-Dichloroethane	2900	Not Detected	12000	Not Detected
Heptane	2900	Not Detected	12000	Not Detected
Trichloroethene	2900	Not Detected	16000	Not Detected
1,2-Dichloropropane	2900	Not Detected	13000	Not Detected
1,4-Dioxane	12000	Not Detected	42000	Not Detected
Bromodichloromethane	2900	Not Detected	19000	Not Detected
cis-1,3-Dichloropropene	2900	Not Detected	13000	Not Detected
4-Methyl-2-pentanone	2900	Not Detected	12000	Not Detected
Toluene	2900	Not Detected	11000	Not Detected
trans-1,3-Dichloropropene	2900	Not Detected	13000	Not Detected
1,1,2-Trichloroethane	2900	Not Detected	16000	Not Detected
Tetrachloroethene	2900	Not Detected	20000	Not Detected

Client Sample ID: VMP-2-5-080211

Lab ID#: 1108060A-09A

EPA METHOD TO-15 GC/MS

File Name:	14081530	Date of Collection: 8/2/11 9:26:00 AM
Dil. Factor:	578	Date of Analysis: 8/15/11 06:06 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	12000	Not Detected	47000	Not Detected
Dibromochloromethane	2900	Not Detected	25000	Not Detected
1,2-Dibromoethane (EDB)	2900	Not Detected	22000	Not Detected
Chlorobenzene	2900	Not Detected	13000	Not Detected
Ethyl Benzene	2900	Not Detected	12000	Not Detected
m,p-Xylene	2900	Not Detected	12000	Not Detected
o-Xylene	2900	Not Detected	12000	Not Detected
Styrene	2900	Not Detected	12000	Not Detected
Bromoform	2900	Not Detected	30000	Not Detected
Cumene	2900	Not Detected	14000	Not Detected
1,1,2,2-Tetrachloroethane	2900	Not Detected	20000	Not Detected
Propylbenzene	2900	Not Detected	14000	Not Detected
4-Ethyltoluene	2900	Not Detected	14000	Not Detected
1,3,5-Trimethylbenzene	2900	Not Detected	14000	Not Detected
1,2,4-Trimethylbenzene	2900	Not Detected	14000	Not Detected
1,3-Dichlorobenzene	2900	Not Detected	17000	Not Detected
1,4-Dichlorobenzene	2900	Not Detected	17000	Not Detected
alpha-Chlorotoluene	2900	Not Detected	15000	Not Detected
1,2-Dichlorobenzene	2900	Not Detected	17000	Not Detected
1,2,4-Trichlorobenzene	12000	Not Detected	86000	Not Detected
Hexachlorobutadiene	12000	Not Detected	120000	Not Detected
Butane	12000	1300000	27000	3000000
Isopentane	12000	2300000	34000	6800000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	103	70-130

**Do not use this data. Use all other data.*

Client Sample ID: VMP-2-5-080211

Lab ID#: 1108060A-09B

EPA METHOD TO-15 GC/MS

File Name:	14081528	Date of Collection: 8/2/11 9:26:00 AM
Dil. Factor:	289	Date of Analysis: 8/15/11 04:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1400	Not Detected	7100	Not Detected
Freon 114	1400	Not Detected	10000	Not Detected
Chloromethane	5800	Not Detected	12000	Not Detected
Vinyl Chloride	1400	Not Detected	3700	Not Detected
1,3-Butadiene	1400	Not Detected	3200	Not Detected
Bromomethane	1400	Not Detected	5600	Not Detected
Chloroethane	5800	Not Detected	15000	Not Detected
Freon 11	1400	Not Detected	8100	Not Detected
Ethanol	5800	Not Detected	11000	Not Detected
Freon 113	1400	Not Detected	11000	Not Detected
1,1-Dichloroethene	1400	Not Detected	5700	Not Detected
Acetone	5800	Not Detected	14000	Not Detected
2-Propanol	5800	Not Detected	14000	Not Detected
Carbon Disulfide	1400	Not Detected	4500	Not Detected
3-Chloropropene	5800	Not Detected	18000	Not Detected
Methylene Chloride	1400	Not Detected	5000	Not Detected
Methyl tert-butyl ether	1400	Not Detected	5200	Not Detected
trans-1,2-Dichloroethene	1400	Not Detected	5700	Not Detected
Hexane	1400	9100	5100	32000
1,1-Dichloroethane	1400	Not Detected	5800	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5800	Not Detected	17000	Not Detected
cis-1,2-Dichloroethene	1400	Not Detected	5700	Not Detected
Tetrahydrofuran	1400	Not Detected	4300	Not Detected
Chloroform	1400	Not Detected	7000	Not Detected
1,1,1-Trichloroethane	1400	Not Detected	7900	Not Detected
Cyclohexane	1400	10000	5000	35000
Carbon Tetrachloride	1400	Not Detected	9100	Not Detected
2,2,4-Trimethylpentane	1400	290000	6800	1300000
Benzene	1400	Not Detected	4600	Not Detected
1,2-Dichloroethane	1400	Not Detected	5800	Not Detected
Heptane	1400	Not Detected	5900	Not Detected
Trichloroethene	1400	Not Detected	7800	Not Detected
1,2-Dichloropropane	1400	Not Detected	6700	Not Detected
1,4-Dioxane	5800	Not Detected	21000	Not Detected
Bromodichloromethane	1400	Not Detected	9700	Not Detected
cis-1,3-Dichloropropene	1400	Not Detected	6600	Not Detected
4-Methyl-2-pentanone	1400	Not Detected	5900	Not Detected
Toluene	1400	Not Detected	5400	Not Detected
trans-1,3-Dichloropropene	1400	Not Detected	6600	Not Detected
1,1,2-Trichloroethane	1400	Not Detected	7900	Not Detected
Tetrachloroethene	1400	Not Detected	9800	Not Detected

Client Sample ID: VMP-2-5-080211

Lab ID#: 1108060A-09B

EPA METHOD TO-15 GC/MS

File Name:	14081528	Date of Collection: 8/2/11 9:26:00 AM
Dil. Factor:	289	Date of Analysis: 8/15/11 04:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5800	Not Detected	24000	Not Detected
Dibromochloromethane	1400	Not Detected	12000	Not Detected
1,2-Dibromoethane (EDB)	1400	Not Detected	11000	Not Detected
Chlorobenzene	1400	Not Detected	6600	Not Detected
Ethyl Benzene	1400	Not Detected	6300	Not Detected
m,p-Xylene	1400	Not Detected	6300	Not Detected
o-Xylene	1400	Not Detected	6300	Not Detected
Styrene	1400	Not Detected	6200	Not Detected
Bromoform	1400	Not Detected	15000	Not Detected
Cumene	1400	Not Detected	7100	Not Detected
1,1,2,2-Tetrachloroethane	1400	Not Detected	9900	Not Detected
Propylbenzene	1400	Not Detected	7100	Not Detected
4-Ethyltoluene	1400	Not Detected	7100	Not Detected
1,3,5-Trimethylbenzene	1400	Not Detected	7100	Not Detected
1,2,4-Trimethylbenzene	1400	Not Detected	7100	Not Detected
1,3-Dichlorobenzene	1400	Not Detected	8700	Not Detected
1,4-Dichlorobenzene	1400	Not Detected	8700	Not Detected
alpha-Chlorotoluene	1400	Not Detected	7500	Not Detected
1,2-Dichlorobenzene	1400	Not Detected	8700	Not Detected
1,2,4-Trichlorobenzene	5800	Not Detected	43000	Not Detected
Hexachlorobutadiene	5800	Not Detected	62000	Not Detected
Butane	5800	930000	14000	2200000
~~Isopentane~~	~~5800~~	~~1900000 E~~	~~17000~~	~~5700000 E~~

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: VMP-2-8.5-080211

Lab ID#: 1108060A-10A

EPA METHOD TO-15 GC/MS

File Name:	14081523	Date of Collection: 8/2/11 10:38:00 AM
Dil. Factor:	1060	Date of Analysis: 8/15/11 02:21 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5300	Not Detected	26000	Not Detected
Freon 114	5300	Not Detected	37000	Not Detected
Chloromethane	21000	Not Detected	44000	Not Detected
Vinyl Chloride	5300	Not Detected	14000	Not Detected
1,3-Butadiene	5300	Not Detected	12000	Not Detected
Bromomethane	5300	Not Detected	20000	Not Detected
Chloroethane	21000	Not Detected	56000	Not Detected
Freon 11	5300	Not Detected	30000	Not Detected
Ethanol	21000	Not Detected	40000	Not Detected
Freon 113	5300	Not Detected	41000	Not Detected
1,1-Dichloroethene	5300	Not Detected	21000	Not Detected
Acetone	21000	5200 J	50000	12000 J
2-Propanol	21000	4700 J	52000	11000 J
Carbon Disulfide	5300	2600 J	16000	8000 J
3-Chloropropene	21000	Not Detected	66000	Not Detected
Methylene Chloride	5300	Not Detected	18000	Not Detected
Methyl tert-butyl ether	5300	Not Detected	19000	Not Detected
trans-1,2-Dichloroethene	5300	Not Detected	21000	Not Detected
Hexane	5300	16000	19000	56000
1,1-Dichloroethane	5300	Not Detected	21000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	21000	Not Detected	62000	Not Detected
cis-1,2-Dichloroethene	5300	Not Detected	21000	Not Detected
Tetrahydrofuran	5300	Not Detected	16000	Not Detected
Chloroform	5300	Not Detected	26000	Not Detected
1,1,1-Trichloroethane	5300	Not Detected	29000	Not Detected
Cyclohexane	5300	15000	18000	52000
Carbon Tetrachloride	5300	Not Detected	33000	Not Detected
2,2,4-Trimethylpentane	5300	350000	25000	1600000
Benzene	5300	Not Detected	17000	Not Detected
1,2-Dichloroethane	5300	Not Detected	21000	Not Detected
Heptane	5300	Not Detected	22000	Not Detected
Trichloroethene	5300	Not Detected	28000	Not Detected
1,2-Dichloropropane	5300	Not Detected	24000	Not Detected
1,4-Dioxane	21000	Not Detected	76000	Not Detected
Bromodichloromethane	5300	Not Detected	36000	Not Detected
cis-1,3-Dichloropropene	5300	Not Detected	24000	Not Detected
4-Methyl-2-pentanone	5300	Not Detected	22000	Not Detected
Toluene	5300	Not Detected	20000	Not Detected
trans-1,3-Dichloropropene	5300	Not Detected	24000	Not Detected
1,1,2-Trichloroethane	5300	Not Detected	29000	Not Detected
Tetrachloroethene	5300	Not Detected	36000	Not Detected

Client Sample ID: VMP-2-8.5-080211

Lab ID#: 1108060A-10A

EPA METHOD TO-15 GC/MS

File Name:	14081523	Date of Collection: 8/2/11 10:38:00 AM
Dil. Factor:	1060	Date of Analysis: 8/15/11 02:21 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	21000	Not Detected	87000	Not Detected
Dibromochloromethane	5300	Not Detected	45000	Not Detected
1,2-Dibromoethane (EDB)	5300	Not Detected	41000	Not Detected
Chlorobenzene	5300	Not Detected	24000	Not Detected
Ethyl Benzene	5300	Not Detected	23000	Not Detected
m,p-Xylene	5300	Not Detected	23000	Not Detected
o-Xylene	5300	Not Detected	23000	Not Detected
Styrene	5300	Not Detected	22000	Not Detected
Bromoform	5300	Not Detected	55000	Not Detected
Cumene	5300	Not Detected	26000	Not Detected
1,1,2,2-Tetrachloroethane	5300	Not Detected	36000	Not Detected
Propylbenzene	5300	Not Detected	26000	Not Detected
4-Ethyltoluene	5300	Not Detected	26000	Not Detected
1,3,5-Trimethylbenzene	5300	Not Detected	26000	Not Detected
1,2,4-Trimethylbenzene	5300	Not Detected	26000	Not Detected
1,3-Dichlorobenzene	5300	Not Detected	32000	Not Detected
1,4-Dichlorobenzene	5300	Not Detected	32000	Not Detected
alpha-Chlorotoluene	5300	Not Detected	27000	Not Detected
1,2-Dichlorobenzene	5300	Not Detected	32000	Not Detected
1,2,4-Trichlorobenzene	21000	Not Detected	160000	Not Detected
Hexachlorobutadiene	21000	Not Detected	230000	Not Detected
Butane	21000	1800000	50000	4200000
Isopentane	21000	2800000	62000	8300000

J = Estimated value.

Container Type: 1 Liter Summa Canister

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

Client Sample ID: VMP-2-22-080211

Lab ID#: 1108060A-11A

EPA METHOD TO-15 GC/MS

File Name:	14081526	Date of Collection: 8/2/11 12:02:00 PM
Dil. Factor:	1410	Date of Analysis: 8/15/11 03:44 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	7000	Not Detected	35000	Not Detected
Freon 114	7000	Not Detected	49000	Not Detected
Chloromethane	28000	Not Detected	58000	Not Detected
Vinyl Chloride	7000	Not Detected	18000	Not Detected
1,3-Butadiene	7000	Not Detected	16000	Not Detected
Bromomethane	7000	Not Detected	27000	Not Detected
Chloroethane	28000	Not Detected	74000	Not Detected
Freon 11	7000	Not Detected	40000	Not Detected
Ethanol	28000	Not Detected	53000	Not Detected
Freon 113	7000	Not Detected	54000	Not Detected
1,1-Dichloroethene	7000	Not Detected	28000	Not Detected
Acetone	28000	Not Detected	67000	Not Detected
2-Propanol	28000	Not Detected	69000	Not Detected
Carbon Disulfide	7000	Not Detected	22000	Not Detected
3-Chloropropene	28000	Not Detected	88000	Not Detected
Methylene Chloride	7000	Not Detected	24000	Not Detected
Methyl tert-butyl ether	7000	Not Detected	25000	Not Detected
trans-1,2-Dichloroethene	7000	Not Detected	28000	Not Detected
Hexane	7000	17000	25000	59000
1,1-Dichloroethane	7000	Not Detected	28000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	28000	Not Detected	83000	Not Detected
cis-1,2-Dichloroethene	7000	Not Detected	28000	Not Detected
Tetrahydrofuran	7000	Not Detected	21000	Not Detected
Chloroform	7000	Not Detected	34000	Not Detected
1,1,1-Trichloroethane	7000	Not Detected	38000	Not Detected
Cyclohexane	7000	16000	24000	57000
Carbon Tetrachloride	7000	Not Detected	44000	Not Detected
2,2,4-Trimethylpentane	7000	330000	33000	1500000
Benzene	7000	Not Detected	22000	Not Detected
1,2-Dichloroethane	7000	Not Detected	28000	Not Detected
Heptane	7000	Not Detected	29000	Not Detected
Trichloroethene	7000	Not Detected	38000	Not Detected
1,2-Dichloropropane	7000	Not Detected	32000	Not Detected
1,4-Dioxane	28000	Not Detected	100000	Not Detected
Bromodichloromethane	7000	Not Detected	47000	Not Detected
cis-1,3-Dichloropropene	7000	Not Detected	32000	Not Detected
4-Methyl-2-pentanone	7000	Not Detected	29000	Not Detected
Toluene	7000	Not Detected	26000	Not Detected
trans-1,3-Dichloropropene	7000	Not Detected	32000	Not Detected
1,1,2-Trichloroethane	7000	Not Detected	38000	Not Detected
Tetrachloroethene	7000	Not Detected	48000	Not Detected

Client Sample ID: VMP-2-22-080211

Lab ID#: 1108060A-11A

EPA METHOD TO-15 GC/MS

File Name:	14081526	Date of Collection: 8/2/11 12:02:00 PM
Dil. Factor:	1410	Date of Analysis: 8/15/11 03:44 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	28000	Not Detected	120000	Not Detected
Dibromochloromethane	7000	Not Detected	60000	Not Detected
1,2-Dibromoethane (EDB)	7000	Not Detected	54000	Not Detected
Chlorobenzene	7000	Not Detected	32000	Not Detected
Ethyl Benzene	7000	Not Detected	31000	Not Detected
m,p-Xylene	7000	Not Detected	31000	Not Detected
o-Xylene	7000	Not Detected	31000	Not Detected
Styrene	7000	Not Detected	30000	Not Detected
Bromoform	7000	Not Detected	73000	Not Detected
Cumene	7000	Not Detected	35000	Not Detected
1,1,2,2-Tetrachloroethane	7000	Not Detected	48000	Not Detected
Propylbenzene	7000	Not Detected	35000	Not Detected
4-Ethyltoluene	7000	Not Detected	35000	Not Detected
1,3,5-Trimethylbenzene	7000	Not Detected	35000	Not Detected
1,2,4-Trimethylbenzene	7000	Not Detected	35000	Not Detected
1,3-Dichlorobenzene	7000	Not Detected	42000	Not Detected
1,4-Dichlorobenzene	7000	Not Detected	42000	Not Detected
alpha-Chlorotoluene	7000	Not Detected	36000	Not Detected
1,2-Dichlorobenzene	7000	Not Detected	42000	Not Detected
1,2,4-Trichlorobenzene	28000	Not Detected	210000	Not Detected
Hexachlorobutadiene	28000	Not Detected	300000	Not Detected
Butane	28000	2100000	67000	4900000
Isopentane	28000	2900000	83000	8600000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	95	70-130

Client Sample ID: VMP-3-5-080211

Lab ID#: 1108060A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080918	Date of Collection:	8/2/11 3:30:00 PM
Dil. Factor:	3.11	Date of Analysis:	8/9/11 07:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.6	Not Detected	7.7	Not Detected
Freon 114	1.6	Not Detected	11	Not Detected
Chloromethane	6.2	Not Detected	13	Not Detected
Vinyl Chloride	1.6	Not Detected	4.0	Not Detected
1,3-Butadiene	1.6	Not Detected	3.4	Not Detected
Bromomethane	1.6	Not Detected	6.0	Not Detected
Chloroethane	6.2	Not Detected	16	Not Detected
Freon 11	1.6	Not Detected	8.7	Not Detected
Ethanol	6.2	98	12	180
Freon 113	1.6	Not Detected	12	Not Detected
1,1-Dichloroethene	1.6	Not Detected	6.2	Not Detected
Acetone	6.2	Not Detected	15	Not Detected
2-Propanol	6.2	7.8	15	19
Carbon Disulfide	6.2	2.2 J	19	7.0 J
3-Chloropropene	6.2	Not Detected	19	Not Detected
Methylene Chloride	1.6	0.52 J	5.4	1.8 J
Methyl tert-butyl ether	1.6	Not Detected	5.6	Not Detected
trans-1,2-Dichloroethene	1.6	Not Detected	6.2	Not Detected
Hexane	1.6	6.3	5.5	22
1,1-Dichloroethane	1.6	Not Detected	6.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.2	6.2	18	18
cis-1,2-Dichloroethene	1.6	Not Detected	6.2	Not Detected
Tetrahydrofuran	1.6	0.50 J	4.6	1.5 J
Chloroform	1.6	Not Detected	7.6	Not Detected
1,1,1-Trichloroethane	1.6	Not Detected	8.5	Not Detected
Cyclohexane	1.6	2.4	5.4	8.4
Carbon Tetrachloride	1.6	Not Detected	9.8	Not Detected
2,2,4-Trimethylpentane	1.6	79	7.3	370
Benzene	1.6	47	5.0	150
1,2-Dichloroethane	1.6	Not Detected	6.3	Not Detected
Heptane	1.6	0.65 J	6.4	2.7 J
Trichloroethene	1.6	Not Detected	8.4	Not Detected
1,2-Dichloropropane	1.6	Not Detected	7.2	Not Detected
1,4-Dioxane	6.2	Not Detected	22	Not Detected
Bromodichloromethane	1.6	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.6	Not Detected	7.0	Not Detected
4-Methyl-2-pentanone	1.6	22	6.4	92
Toluene	1.6	5.3	5.8	20
trans-1,3-Dichloropropene	1.6	Not Detected	7.0	Not Detected
1,1,2-Trichloroethane	1.6	Not Detected	8.5	Not Detected
Tetrachloroethene	1.6	Not Detected	10	Not Detected

Client Sample ID: VMP-3-5-080211

Lab ID#: 1108060A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080918	Date of Collection: 8/2/11 3:30:00 PM
Dil. Factor:	3.11	Date of Analysis: 8/9/11 07:13 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	6.2	0.86 J	25	3.5 J
Dibromochloromethane	1.6	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.6	Not Detected	12	Not Detected
Chlorobenzene	1.6	Not Detected	7.2	Not Detected
Ethyl Benzene	1.6	0.65 J	6.8	2.8 J
m,p-Xylene	1.6	1.7	6.8	7.4
o-Xylene	1.6	0.59 J	6.8	2.6 J
Styrene	1.6	0.49 J	6.6	2.1 J
Bromoform	1.6	Not Detected	16	Not Detected
Cumene	1.6	4.2	7.6	21
1,1,2,2-Tetrachloroethane	1.6	Not Detected	11	Not Detected
Propylbenzene	1.6	Not Detected	7.6	Not Detected
4-Ethyltoluene	1.6	0.39 J	7.6	1.9 J
1,3,5-Trimethylbenzene	1.6	0.36 J	7.6	1.8 J
1,2,4-Trimethylbenzene	1.6	1.4 J	7.6	6.9 J
1,3-Dichlorobenzene	1.6	Not Detected	9.3	Not Detected
1,4-Dichlorobenzene	1.6	Not Detected	9.3	Not Detected
alpha-Chlorotoluene	1.6	Not Detected	8.0	Not Detected
1,2-Dichlorobenzene	1.6	Not Detected	9.3	Not Detected
1,2,4-Trichlorobenzene	6.2	Not Detected	46	Not Detected
Hexachlorobutadiene	6.2	Not Detected	66	Not Detected
Butane	6.2	43	15	100
Isopentane	6.2	100	18	300

J = Estimated value.

Container Type: 1 Liter Summa Canister

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

Client Sample ID: VMP-3-31.5-080211

Lab ID#: 1108060A-13A

EPA METHOD TO-15 GC/MS

File Name:	14081518	Date of Collection: 8/2/11 5:03:00 PM		
Dil. Factor:	18800	Date of Analysis: 8/15/11 12:18 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	94000	Not Detected	460000	Not Detected
Freon 114	94000	Not Detected	660000	Not Detected
Chloromethane	380000	Not Detected	780000	Not Detected
Vinyl Chloride	94000	Not Detected	240000	Not Detected
1,3-Butadiene	94000	Not Detected	210000	Not Detected
Bromomethane	94000	Not Detected	360000	Not Detected
Chloroethane	380000	Not Detected	990000	Not Detected
Freon 11	94000	Not Detected	530000	Not Detected
Ethanol	380000	Not Detected	710000	Not Detected
Freon 113	94000	Not Detected	720000	Not Detected
1,1-Dichloroethene	94000	Not Detected	370000	Not Detected
Acetone	380000	Not Detected	890000	Not Detected
2-Propanol	380000	Not Detected	920000	Not Detected
Carbon Disulfide	94000	Not Detected	290000	Not Detected
3-Chloropropene	380000	Not Detected	1200000	Not Detected
Methylene Chloride	94000	Not Detected	330000	Not Detected
Methyl tert-butyl ether	94000	Not Detected	340000	Not Detected
trans-1,2-Dichloroethene	94000	Not Detected	370000	Not Detected
Hexane	94000	5000000	330000	18000000
1,1-Dichloroethane	94000	Not Detected	380000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	380000	Not Detected	1100000	Not Detected
cis-1,2-Dichloroethene	94000	Not Detected	370000	Not Detected
Tetrahydrofuran	94000	Not Detected	280000	Not Detected
Chloroform	94000	Not Detected	460000	Not Detected
1,1,1-Trichloroethane	94000	Not Detected	510000	Not Detected
Cyclohexane	94000	300000	320000	1000000
Carbon Tetrachloride	94000	Not Detected	590000	Not Detected
2,2,4-Trimethylpentane	94000	1900000	440000	9100000
Benzene	94000	27000 J	300000	86000 J
1,2-Dichloroethane	94000	Not Detected	380000	Not Detected
Heptane	94000	210000	380000	860000
Trichloroethene	94000	Not Detected	500000	Not Detected
1,2-Dichloropropane	94000	Not Detected	430000	Not Detected
1,4-Dioxane	380000	Not Detected	1400000	Not Detected
Bromodichloromethane	94000	Not Detected	630000	Not Detected
cis-1,3-Dichloropropene	94000	Not Detected	430000	Not Detected
4-Methyl-2-pentanone	94000	Not Detected	380000	Not Detected
Toluene	94000	Not Detected	350000	Not Detected
trans-1,3-Dichloropropene	94000	Not Detected	430000	Not Detected
1,1,2-Trichloroethane	94000	Not Detected	510000	Not Detected
Tetrachloroethene	94000	160000	640000	1100000

Client Sample ID: VMP-3-31.5-080211

Lab ID#: 1108060A-13A

EPA METHOD TO-15 GC/MS

File Name:	14081518	Date of Collection: 8/2/11 5:03:00 PM
Dil. Factor:	18800	Date of Analysis: 8/15/11 12:18 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	380000	Not Detected	1500000	Not Detected
Dibromochloromethane	94000	Not Detected	800000	Not Detected
1,2-Dibromoethane (EDB)	94000	Not Detected	720000	Not Detected
Chlorobenzene	94000	Not Detected	430000	Not Detected
Ethyl Benzene	94000	Not Detected	410000	Not Detected
m,p-Xylene	94000	Not Detected	410000	Not Detected
o-Xylene	94000	Not Detected	410000	Not Detected
Styrene	94000	Not Detected	400000	Not Detected
Bromoform	94000	Not Detected	970000	Not Detected
Cumene	94000	Not Detected	460000	Not Detected
1,1,2,2-Tetrachloroethane	94000	Not Detected	640000	Not Detected
Propylbenzene	94000	Not Detected	460000	Not Detected
4-Ethyltoluene	94000	Not Detected	460000	Not Detected
1,3,5-Trimethylbenzene	94000	Not Detected	460000	Not Detected
1,2,4-Trimethylbenzene	94000	Not Detected	460000	Not Detected
1,3-Dichlorobenzene	94000	Not Detected	560000	Not Detected
1,4-Dichlorobenzene	94000	Not Detected	560000	Not Detected
alpha-Chlorotoluene	94000	Not Detected	490000	Not Detected
1,2-Dichlorobenzene	94000	Not Detected	560000	Not Detected
1,2,4-Trichlorobenzene	380000	Not Detected	2800000	Not Detected
Hexachlorobutadiene	380000	Not Detected	4000000	Not Detected
Butane	380000	41000000	890000	98000000
Isopentane	380000	27000000	1100000	80000000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	95	70-130

* Use these results only. All other data was reported from the 11000x dilution analysis.

Client Sample ID: VMP-3-31.5-080211-Dup

Lab ID#: 1108060A-14A

EPA METHOD TO-15 GC/MS

File Name:	14081516	Date of Collection: 8/2/11 5:03:00 PM		
Dil. Factor:	18400	Date of Analysis: 8/15/11 11:36 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	92000	Not Detected	450000	Not Detected
Freon 114	92000	Not Detected	640000	Not Detected
Chloromethane	370000	Not Detected	760000	Not Detected
Vinyl Chloride	92000	Not Detected	240000	Not Detected
1,3-Butadiene	92000	Not Detected	200000	Not Detected
Bromomethane	92000	Not Detected	360000	Not Detected
Chloroethane	370000	Not Detected	970000	Not Detected
Freon 11	92000	Not Detected	520000	Not Detected
Ethanol	370000	Not Detected	690000	Not Detected
Freon 113	92000	Not Detected	700000	Not Detected
1,1-Dichloroethene	92000	Not Detected	360000	Not Detected
Acetone	370000	Not Detected	870000	Not Detected
2-Propanol	370000	Not Detected	900000	Not Detected
Carbon Disulfide	92000	Not Detected	290000	Not Detected
3-Chloropropene	370000	Not Detected	1200000	Not Detected
Methylene Chloride	92000	Not Detected	320000	Not Detected
Methyl tert-butyl ether	92000	Not Detected	330000	Not Detected
trans-1,2-Dichloroethene	92000	Not Detected	360000	Not Detected
Hexane	92000	4700000	320000	16000000
1,1-Dichloroethane	92000	Not Detected	370000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	370000	Not Detected	1100000	Not Detected
cis-1,2-Dichloroethene	92000	Not Detected	360000	Not Detected
Tetrahydrofuran	92000	Not Detected	270000	Not Detected
Chloroform	92000	Not Detected	450000	Not Detected
1,1,1-Trichloroethane	92000	Not Detected	500000	Not Detected
Cyclohexane	92000	260000	320000	920000
Carbon Tetrachloride	92000	Not Detected	580000	Not Detected
2,2,4-Trimethylpentane	92000	1700000	430000	8100000
Benzene	92000	25000 J	290000	81000 J
1,2-Dichloroethane	92000	Not Detected	370000	Not Detected
Heptane	92000	180000	380000	740000
Trichloroethene	92000	Not Detected	490000	Not Detected
1,2-Dichloropropane	92000	Not Detected	420000	Not Detected
1,4-Dioxane	370000	Not Detected	1300000	Not Detected
Bromodichloromethane	92000	Not Detected	620000	Not Detected
cis-1,3-Dichloropropene	92000	Not Detected	420000	Not Detected
4-Methyl-2-pentanone	92000	Not Detected	380000	Not Detected
Toluene	92000	Not Detected	350000	Not Detected
trans-1,3-Dichloropropene	92000	Not Detected	420000	Not Detected
1,1,2-Trichloroethane	92000	Not Detected	500000	Not Detected
Tetrachloroethene	92000	Not Detected	620000	Not Detected

Client Sample ID: VMP-3-31.5-080211-Dup

Lab ID#: 1108060A-14A

EPA METHOD TO-15 GC/MS

File Name:	14081516	Date of Collection: 8/2/11 5:03:00 PM		
Dil. Factor:	18400	Date of Analysis: 8/15/11 11:36 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	370000	Not Detected	1500000	Not Detected
Dibromochloromethane	92000	Not Detected	780000	Not Detected
1,2-Dibromoethane (EDB)	92000	Not Detected	710000	Not Detected
Chlorobenzene	92000	Not Detected	420000	Not Detected
Ethyl Benzene	92000	Not Detected	400000	Not Detected
m,p-Xylene	92000	Not Detected	400000	Not Detected
o-Xylene	92000	Not Detected	400000	Not Detected
Styrene	92000	Not Detected	390000	Not Detected
Bromoform	92000	Not Detected	950000	Not Detected
Cumene	92000	Not Detected	450000	Not Detected
1,1,2,2-Tetrachloroethane	92000	Not Detected	630000	Not Detected
Propylbenzene	92000	Not Detected	450000	Not Detected
4-Ethyltoluene	92000	Not Detected	450000	Not Detected
1,3,5-Trimethylbenzene	92000	Not Detected	450000	Not Detected
1,2,4-Trimethylbenzene	92000	Not Detected	450000	Not Detected
1,3-Dichlorobenzene	92000	Not Detected	550000	Not Detected
1,4-Dichlorobenzene	92000	Not Detected	550000	Not Detected
alpha-Chlorotoluene	92000	Not Detected	480000	Not Detected
1,2-Dichlorobenzene	92000	Not Detected	550000	Not Detected
1,2,4-Trichlorobenzene	370000	Not Detected	2700000	Not Detected
Hexachlorobutadiene	370000	Not Detected	3900000	Not Detected
Butane	370000	38000000	870000	91000000
Isopentane	370000	26000000	1100000	76000000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130

**Do not use this data. Use all other data.*

Client Sample ID: VMP-3-31.5-080211-Dup

Lab ID#: 1108060A-14B

EPA METHOD TO-15 GC/MS

File Name:	14081514	Date of Collection: 8/2/11 5:03:00 PM
Dil. Factor:	11000	Date of Analysis: 8/15/11 10:42 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	55000	Not Detected	270000	Not Detected
Freon 114	55000	Not Detected	380000	Not Detected
Chloromethane	220000	Not Detected	450000	Not Detected
Vinyl Chloride	55000	Not Detected	140000	Not Detected
1,3-Butadiene	55000	Not Detected	120000	Not Detected
Bromomethane	55000	Not Detected	210000	Not Detected
Chloroethane	220000	Not Detected	580000	Not Detected
Freon 11	55000	Not Detected	310000	Not Detected
Ethanol	220000	Not Detected	410000	Not Detected
Freon 113	55000	Not Detected	420000	Not Detected
1,1-Dichloroethene	55000	Not Detected	220000	Not Detected
Acetone	220000	Not Detected	520000	Not Detected
2-Propanol	220000	Not Detected	540000	Not Detected
Carbon Disulfide	55000	Not Detected	170000	Not Detected
3-Chloropropene	220000	Not Detected	690000	Not Detected
Methylene Chloride	55000	Not Detected	190000	Not Detected
Methyl tert-butyl ether	55000	Not Detected	200000	Not Detected
trans-1,2-Dichloroethene	55000	Not Detected	220000	Not Detected
Hexane	55000	7600000	190000	27000000
1,1-Dichloroethane	55000	Not Detected	220000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	220000	Not Detected	650000	Not Detected
cis-1,2-Dichloroethene	55000	Not Detected	220000	Not Detected
Tetrahydrofuran	55000	Not Detected	160000	Not Detected
Chloroform	55000	Not Detected	270000	Not Detected
1,1,1-Trichloroethane	55000	Not Detected	300000	Not Detected
Cyclohexane	55000	420000	190000	1400000
Carbon Tetrachloride	55000	Not Detected	350000	Not Detected
2,2,4-Trimethylpentane	55000	2700000	260000	13000000
Benzene	55000	33000 J	180000	110000 J
1,2-Dichloroethane	55000	Not Detected	220000	Not Detected
Heptane	55000	290000	220000	1200000
Trichloroethene	55000	Not Detected	300000	Not Detected
1,2-Dichloropropane	55000	Not Detected	250000	Not Detected
1,4-Dioxane	220000	Not Detected	790000	Not Detected
Bromodichloromethane	55000	Not Detected	370000	Not Detected
cis-1,3-Dichloropropene	55000	Not Detected	250000	Not Detected
4-Methyl-2-pentanone	55000	Not Detected	220000	Not Detected
Toluene	55000	Not Detected	210000	Not Detected
trans-1,3-Dichloropropene	55000	Not Detected	250000	Not Detected
1,1,2-Trichloroethane	55000	Not Detected	300000	Not Detected
Tetrachloroethene	55000	Not Detected	370000	Not Detected

Client Sample ID: VMP-3-31.5-080211-Dup

Lab ID#: 1108060A-14B

EPA METHOD TO-15 GC/MS

File Name:	14081514	Date of Collection:	8/2/11 5:03:00 PM
Dil. Factor:	11000	Date of Analysis:	8/15/11 10:42 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	220000	Not Detected	900000	Not Detected
Dibromochloromethane	55000	Not Detected	470000	Not Detected
1,2-Dibromoethane (EDB)	55000	Not Detected	420000	Not Detected
Chlorobenzene	55000	Not Detected	250000	Not Detected
Ethyl Benzene	55000	Not Detected	240000	Not Detected
m,p-Xylene	55000	Not Detected	240000	Not Detected
o-Xylene	55000	Not Detected	240000	Not Detected
Styrene	55000	Not Detected	230000	Not Detected
Bromoform	55000	Not Detected	570000	Not Detected
Cumene	55000	Not Detected	270000	Not Detected
1,1,2,2-Tetrachloroethane	55000	Not Detected	380000	Not Detected
Propylbenzene	55000	Not Detected	270000	Not Detected
4-Ethyltoluene	55000	Not Detected	270000	Not Detected
1,3,5-Trimethylbenzene	55000	Not Detected	270000	Not Detected
1,2,4-Trimethylbenzene	55000	Not Detected	270000	Not Detected
1,3-Dichlorobenzene	55000	Not Detected	330000	Not Detected
1,4-Dichlorobenzene	55000	Not Detected	330000	Not Detected
alpha-Chlorotoluene	55000	Not Detected	280000	Not Detected
1,2-Dichlorobenzene	55000	Not Detected	330000	Not Detected
1,2,4-Trichlorobenzene	220000	Not Detected	1600000	Not Detected
Hexachlorobutadiene	220000	Not Detected	2300000	Not Detected
* Butane	220000	50000000 E	520000	140000000 E
Isopentane	220000	41000000 ✓	650000	120000000

J = Estimated value.

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

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

Client Sample ID: VMP-7-5-080211

Lab ID#: 1108060A-15A

EPA METHOD TO-15 GC/MS

File Name:	14081517	Date of Collection: 8/2/11 4:17:00 PM		
Dil. Factor:	36.1	Date of Analysis: 8/15/11 11:57 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	180	Not Detected	890	Not Detected
Freon 114	180	Not Detected	1300	Not Detected
Chloromethane	720	Not Detected	1500	Not Detected
Vinyl Chloride	180	Not Detected	460	Not Detected
1,3-Butadiene	180	Not Detected	400	Not Detected
Bromomethane	180	Not Detected	700	Not Detected
Chloroethane	720	Not Detected	1900	Not Detected
Freon 11	180	Not Detected	1000	Not Detected
Ethanol	720	Not Detected	1400	Not Detected
Freon 113	180	Not Detected	1400	Not Detected
1,1-Dichloroethene	180	Not Detected	720	Not Detected
Acetone	720	Not Detected	1700	Not Detected
2-Propanol	720	Not Detected	1800	Not Detected
Carbon Disulfide	180	Not Detected	560	Not Detected
3-Chloropropene	720	Not Detected	2200	Not Detected
Methylene Chloride	180	Not Detected	630	Not Detected
Methyl tert-butyl ether	180	Not Detected	650	Not Detected
trans-1,2-Dichloroethene	180	Not Detected	720	Not Detected
Hexane	180	3500	640	12000
1,1-Dichloroethane	180	Not Detected	730	Not Detected
2-Butanone (Methyl Ethyl Ketone)	720	Not Detected	2100	Not Detected
cis-1,2-Dichloroethene	180	Not Detected	720	Not Detected
Tetrahydrofuran	180	Not Detected	530	Not Detected
Chloroform	180	Not Detected	880	Not Detected
1,1,1-Trichloroethane	180	Not Detected	980	Not Detected
Cyclohexane	180	13000	620	45000
Carbon Tetrachloride	180	Not Detected	1100	Not Detected
2,2,4-Trimethylpentane	180	150000	840	710000
Benzene	180	410	580	1300
1,2-Dichloroethane	180	Not Detected	730	Not Detected
Heptane	180	1100	740	4500
Trichloroethene	180	Not Detected	970	Not Detected
1,2-Dichloropropane	180	Not Detected	830	Not Detected
1,4-Dioxane	720	Not Detected	2600	Not Detected
Bromodichloromethane	180	Not Detected	1200	Not Detected
cis-1,3-Dichloropropene	180	Not Detected	820	Not Detected
4-Methyl-2-pentanone	180	Not Detected	740	Not Detected
Toluene	180	Not Detected	680	Not Detected
trans-1,3-Dichloropropene	180	Not Detected	820	Not Detected
1,1,2-Trichloroethane	180	Not Detected	980	Not Detected
Tetrachloroethene	180	Not Detected	1200	Not Detected

Client Sample ID: VMP-7-5-080211

Lab ID#: 1108060A-15A

EPA METHOD TO-15 GC/MS

File Name:	14081517	Date of Collection: 8/2/11 4:17:00 PM
Dil. Factor:	36.1	Date of Analysis: 8/15/11 11:57 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	720	Not Detected	3000	Not Detected
Dibromochloromethane	180	Not Detected	1500	Not Detected
1,2-Dibromoethane (EDB)	180	Not Detected	1400	Not Detected
Chlorobenzene	180	Not Detected	830	Not Detected
Ethyl Benzene	180	Not Detected	780	Not Detected
m,p-Xylene	180	Not Detected	780	Not Detected
o-Xylene	180	Not Detected	780	Not Detected
Styrene	180	Not Detected	770	Not Detected
Bromoform	180	Not Detected	1900	Not Detected
Cumene	180	Not Detected	890	Not Detected
1,1,2,2-Tetrachloroethane	180	Not Detected	1200	Not Detected
Propylbenzene	180	Not Detected	890	Not Detected
4-Ethyltoluene	180	Not Detected	890	Not Detected
1,3,5-Trimethylbenzene	180	Not Detected	890	Not Detected
1,2,4-Trimethylbenzene	180	Not Detected	890	Not Detected
1,3-Dichlorobenzene	180	Not Detected	1100	Not Detected
1,4-Dichlorobenzene	180	Not Detected	1100	Not Detected
alpha-Chlorotoluene	180	Not Detected	930	Not Detected
1,2-Dichlorobenzene	180	Not Detected	1100	Not Detected
1,2,4-Trichlorobenzene	720	Not Detected	5400	Not Detected
Hexachlorobutadiene	720	Not Detected	7700	Not Detected
Butane	720	46000	1700	110000
Isopentane	720	180000	2100	520000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	128	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: Lab Blank

Lab ID#: 1108060A-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080907e	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/9/11 11:23 AM

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

Client Sample ID: Lab Blank

Lab ID#: 1108060A-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080907e	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/9/11 11:23 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	95	70-130

Client Sample ID: Lab Blank

Lab ID#: 1108060A-16B

EPA METHOD TO-15 GC/MS

File Name:	14081507a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 07:14 AM

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

Client Sample ID: Lab Blank

Lab ID#: 1108060A-16B

EPA METHOD TO-15 GC/MS

File Name:	14081507a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 07:14 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	1.1 J	30	6.7 J
alpha-Chlorotoluene	5.0	1.9 J	26	9.9 J
1,2-Dichlorobenzene	5.0	1.1 J	30	6.8 J
1,2,4-Trichlorobenzene	20	13 J	150	94 J
Hexachlorobutadiene	20	7.2 J	210	76 J
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	90	70-130

Client Sample ID: CCV

Lab ID#: 1108060A-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080904	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/9/11 09:38 AM

Compound	%Recovery
Freon 12	88
Freon 114	90
Chloromethane	92
Vinyl Chloride	91
1,3-Butadiene	86
Bromomethane	97
Chloroethane	98
Freon 11	84
Ethanol	96
Freon 113	88
1,1-Dichloroethene	87
Acetone	98
2-Propanol	90
Carbon Disulfide	89
3-Chloropropene	96
Methylene Chloride	86
Methyl tert-butyl ether	81
trans-1,2-Dichloroethene	85
Hexane	85
1,1-Dichloroethane	84
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	86
Tetrahydrofuran	88
Chloroform	86
1,1,1-Trichloroethane	86
Cyclohexane	87
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	87
Benzene	83
1,2-Dichloroethane	82
Heptane	83
Trichloroethene	87
1,2-Dichloropropane	86
1,4-Dioxane	85
Bromodichloromethane	86
cis-1,3-Dichloropropene	87
4-Methyl-2-pentanone	91
Toluene	83
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	83
Tetrachloroethene	85

Client Sample ID: CCV

Lab ID#: 1108060A-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080904	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/9/11 09:38 AM

Compound	%Recovery
2-Hexanone	87
Dibromochloromethane	87
1,2-Dibromoethane (EDB)	86
Chlorobenzene	86
Ethyl Benzene	89
m,p-Xylene	95
o-Xylene	100
Styrene	94
Bromoform	89
Cumene	102
1,1,2,2-Tetrachloroethane	85
Propylbenzene	105
4-Ethyltoluene	105
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	99
1,2-Dichlorobenzene	96
1,2,4-Trichlorobenzene	85
Hexachlorobutadiene	101
Butane	95
Isopentane	93

Container Type: NA - Not Applicable

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

Client Sample ID: CCV

Lab ID#: 1108060A-17B

EPA METHOD TO-15 GC/MS

File Name:	14081502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 05:39 AM

Compound	%Recovery
Freon 12	99
Freon 114	102
Chloromethane	104
Vinyl Chloride	114
1,3-Butadiene	117
Bromomethane	101
Chloroethane	103
Freon 11	99
Ethanol	103
Freon 113	100
1,1-Dichloroethene	107
Acetone	102
2-Propanol	104
Carbon Disulfide	98
3-Chloropropene	96
Methylene Chloride	102
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	100
Hexane	101
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	98
Tetrahydrofuran	104
Chloroform	100
1,1,1-Trichloroethane	102
Cyclohexane	101
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	100
Benzene	98
1,2-Dichloroethane	98
Heptane	100
Trichloroethene	99
1,2-Dichloropropane	99
1,4-Dioxane	99
Bromodichloromethane	100
cis-1,3-Dichloropropene	99
4-Methyl-2-pentanone	104
Toluene	99
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	101
Tetrachloroethene	93

Client Sample ID: CCV

Lab ID#: 1108060A-17B

EPA METHOD TO-15 GC/MS

File Name:	14081502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 05:39 AM

Compound	%Recovery
2-Hexanone	102
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	101
Chlorobenzene	100
Ethyl Benzene	101
m,p-Xylene	104
o-Xylene	103
Styrene	108
Bromoform	102
Cumene	107
1,1,2,2-Tetrachloroethane	96
Propylbenzene	104
4-Ethyltoluene	107
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	131 Q
1,2-Dichlorobenzene	105
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	98
Butane	107
Isopentane	100

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: LCS

Lab ID#: 1108060A-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080905	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/9/11 10:11 AM

Compound	%Recovery
Freon 12	85
Freon 114	91
Chloromethane	83
Vinyl Chloride	90
1,3-Butadiene	87
Bromomethane	95
Chloroethane	96
Freon 11	85
Ethanol	92
Freon 113	91
1,1-Dichloroethene	97
Acetone	102
2-Propanol	94
Carbon Disulfide	110
3-Chloropropene	113
Methylene Chloride	88
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	98
Hexane	85
1,1-Dichloroethane	85
2-Butanone (Methyl Ethyl Ketone)	95
cis-1,2-Dichloroethene	90
Tetrahydrofuran	86
Chloroform	87
1,1,1-Trichloroethane	88
Cyclohexane	87
Carbon Tetrachloride	89
2,2,4-Trimethylpentane	86
Benzene	84
1,2-Dichloroethane	82
Heptane	84
Trichloroethene	88
1,2-Dichloropropane	86
1,4-Dioxane	86
Bromodichloromethane	86
cis-1,3-Dichloropropene	88
4-Methyl-2-pentanone	90
Toluene	83
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	84
Tetrachloroethene	86

Client Sample ID: LCS

Lab ID#: 1108060A-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080905	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/9/11 10:11 AM

Compound	%Recovery
2-Hexanone	87
Dibromochloromethane	86
1,2-Dibromoethane (EDB)	89
Chlorobenzene	87
Ethyl Benzene	88
m,p-Xylene	95
o-Xylene	98
Styrene	91
Bromoform	87
Cumene	100
1,1,2,2-Tetrachloroethane	86
Propylbenzene	102
4-Ethyltoluene	99
1,3,5-Trimethylbenzene	94
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	100
1,2-Dichlorobenzene	94
1,2,4-Trichlorobenzene	84
Hexachlorobutadiene	99
Butane	91
Isopentane	93

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	108	70-130

Client Sample ID: LCSD

Lab ID#: 1108060A-18AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080906	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/9/11 10:42 AM

Compound	%Recovery
Freon 12	82
Freon 114	87
Chloromethane	87
Vinyl Chloride	87
1,3-Butadiene	85
Bromomethane	93
Chloroethane	94
Freon 11	82
Ethanol	98
Freon 113	89
1,1-Dichloroethene	95
Acetone	101
2-Propanol	93
Carbon Disulfide	108
3-Chloropropene	111
Methylene Chloride	86
Methyl tert-butyl ether	86
trans-1,2-Dichloroethene	96
Hexane	83
1,1-Dichloroethane	85
2-Butanone (Methyl Ethyl Ketone)	96
cis-1,2-Dichloroethene	89
Tetrahydrofuran	85
Chloroform	86
1,1,1-Trichloroethane	87
Cyclohexane	89
Carbon Tetrachloride	87
2,2,4-Trimethylpentane	85
Benzene	84
1,2-Dichloroethane	81
Heptane	83
Trichloroethene	88
1,2-Dichloropropane	86
1,4-Dioxane	86
Bromodichloromethane	85
cis-1,3-Dichloropropene	87
4-Methyl-2-pentanone	90
Toluene	82
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	85
Tetrachloroethene	86

Client Sample ID: LCSD

Lab ID#: 1108060A-18AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2080906	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/9/11 10:42 AM

Compound	%Recovery
2-Hexanone	87
Dibromochloromethane	86
1,2-Dibromoethane (EDB)	87
Chlorobenzene	88
Ethyl Benzene	88
m,p-Xylene	94
o-Xylene	97
Styrene	90
Bromoform	87
Cumene	99
1,1,2,2-Tetrachloroethane	87
Propylbenzene	100
4-Ethyltoluene	97
1,3,5-Trimethylbenzene	94
1,2,4-Trimethylbenzene	95
1,3-Dichlorobenzene	94
1,4-Dichlorobenzene	95
alpha-Chlorotoluene	101
1,2-Dichlorobenzene	94
1,2,4-Trichlorobenzene	83
Hexachlorobutadiene	99
Butane	88
Isopentane	92

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	107	70-130

Client Sample ID: LCS

Lab ID#: 1108060A-18B

EPA METHOD TO-15 GC/MS

File Name:	14081505	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 06:37 AM

Compound	%Recovery
Freon 12	90
Freon 114	92
Chloromethane	101
Vinyl Chloride	103
1,3-Butadiene	101
Bromomethane	95
Chloroethane	94
Freon 11	92
Ethanol	92
Freon 113	92
1,1-Dichloroethene	106
Acetone	93
2-Propanol	94
Carbon Disulfide	109
3-Chloropropene	101
Methylene Chloride	91
Methyl tert-butyl ether	97
trans-1,2-Dichloroethene	104
Hexane	92
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	95
cis-1,2-Dichloroethene	93
Tetrahydrofuran	92
Chloroform	94
1,1,1-Trichloroethane	91
Cyclohexane	95
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	90
Benzene	93
1,2-Dichloroethane	89
Heptane	93
Trichloroethene	90
1,2-Dichloropropane	91
1,4-Dioxane	93
Bromodichloromethane	92
cis-1,3-Dichloropropene	91
4-Methyl-2-pentanone	92
Toluene	92
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	90
Tetrachloroethene	82

Client Sample ID: LCS

Lab ID#: 1108060A-18B

EPA METHOD TO-15 GC/MS

File Name:	14081505	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 06:37 AM

Compound	%Recovery
2-Hexanone	90
Dibromochloromethane	92
1,2-Dibromoethane (EDB)	94
Chlorobenzene	92
Ethyl Benzene	93
m,p-Xylene	100
o-Xylene	94
Styrene	100
Bromoform	88
Cumene	102
1,1,2,2-Tetrachloroethane	94
Propylbenzene	101
4-Ethyltoluene	98
1,3,5-Trimethylbenzene	103
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	119
1,2-Dichlorobenzene	109
1,2,4-Trichlorobenzene	145 Q
Hexachlorobutadiene	142 Q
Butane	80
Isopentane	91

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: LCSD

Lab ID#: 1108060A-18BB

EPA METHOD TO-15 GC/MS

File Name:	14081506	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 06:55 AM

Compound	%Recovery
Freon 12	86
Freon 114	90
Chloromethane	96
Vinyl Chloride	100
1,3-Butadiene	97
Bromomethane	89
Chloroethane	89
Freon 11	89
Ethanol	97
Freon 113	87
1,1-Dichloroethene	96
Acetone	87
2-Propanol	91
Carbon Disulfide	103
3-Chloropropene	100
Methylene Chloride	90
Methyl tert-butyl ether	93
trans-1,2-Dichloroethene	97
Hexane	84
1,1-Dichloroethane	87
2-Butanone (Methyl Ethyl Ketone)	88
cis-1,2-Dichloroethene	89
Tetrahydrofuran	86
Chloroform	88
1,1,1-Trichloroethane	88
Cyclohexane	91
Carbon Tetrachloride	89
2,2,4-Trimethylpentane	86
Benzene	90
1,2-Dichloroethane	87
Heptane	90
Trichloroethene	88
1,2-Dichloropropane	88
1,4-Dioxane	92
Bromodichloromethane	88
cis-1,3-Dichloropropene	91
4-Methyl-2-pentanone	94
Toluene	88
trans-1,3-Dichloropropene	94
1,1,2-Trichloroethane	91
Tetrachloroethene	83

Client Sample ID: LCSD

Lab ID#: 1108060A-18BB

EPA METHOD TO-15 GC/MS

File Name:	14081506	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 06:55 AM

Compound	%Recovery
2-Hexanone	91
Dibromochloromethane	91
1,2-Dibromoethane (EDB)	94
Chlorobenzene	93
Ethyl Benzene	93
m,p-Xylene	95
o-Xylene	96
Styrene	100
Bromoform	89
Cumene	100
1,1,2,2-Tetrachloroethane	93
Propylbenzene	101
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	99
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	119
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	150 Q
Hexachlorobutadiene	146 Q
Butane	87
Isopentane	84

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	100	70-130



Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. Project Name: Roxana Soil Vapor Project # 21562593.00009		Lab Vendor # URS CORPORATION 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63114 TEL: 314-429-0100 FAX: 314-429-0492 E-MAIL: info@urscorp.com		Print Edit To: Contactor Name: Thomas Adams PO #		INCIDENT # (ENV. SERVICES): 9 7 2 1 8 8 4 0 DATE: 08/02/11 PAGE: 1 of 2	
Check Appropriate Box ☒ SOIL SERVICES ☐ MOTIV RETAIL ☐ MOTIV SUNCH ☐ CONSULTANT ☐ SOIL PIPELINE ☐ OTHER		Check Appropriate Box ☐ SHELL RETAIL ☐ LUMES		Print Edit To: Contactor Name: Thomas Adams PO #		INCIDENT # (ENV. SERVICES): 9 7 2 1 8 8 4 0 DATE: 08/02/11 PAGE: 1 of 2	
Lab Vendor # URS CORPORATION 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63114 TEL: 314-429-0100 FAX: 314-429-0492 E-MAIL: info@urscorp.com		Check Appropriate Box ☐ SHELL RETAIL ☐ LUMES		Print Edit To: Contactor Name: Thomas Adams PO #		INCIDENT # (ENV. SERVICES): 9 7 2 1 8 8 4 0 DATE: 08/02/11 PAGE: 1 of 2	
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Lab Vendor # URS CORPORATION 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63114 TEL: 314-429-0100 FAX: 314-429-0492 E-MAIL: info@urscorp.com		Check Appropriate Box ☐ SHELL RETAIL ☐ LUMES		Print Edit To: Contactor Name: Thomas Adams PO #		INCIDENT # (ENV. SERVICES): 9 7 2 1 8 8 4 0 DATE: 08/02/11 PAGE: 1 of 2	
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Air Toxics LTD. Project Name: Roxana Soil Vapor Project # 21562593.00008		Lab Vendor # _____ COMPANY NAME URS CORPORATION ADDRESS 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110 PROJECT ADDRESS 1001 Blue Ravine Road, Suite B, Folsom, CA 95930-4719 TEL/FAX 314-429-0100 / 314-429-0452		INCIDENT # (ENV SERVICES) _____ DATE 08/02/11 PAGE 2 of 2		Print Bill To Contact Name: Thomas Adams PO # _____ 900 SOUTH CENTRAL AVE - ROXANA ST. LOUIS, MO 63103 314-743-4178 M. Miller, W. Buchman, D. Mattingly	
Please Check Appropriate Box: ☐ ENV SERVICES ☐ MOTIV RETAIL ☐ ENVIRONMENTAL ☐ CONSULTANT ☐ SPECIAL PERMITS ☐ OTHER _____		SHELL RETAIL LUBES		INCIDENT # (ENV SERVICES) _____ DATE 08/02/11 PAGE 2 of 2			
FIELD SAMPLE IDENTIFICATION DATE TIME 08/02/11 11:32 - 1202 08/02/11 14:53 - 1504 08/02/11 16:09 - 1702 08/02/11 16:35 - 1703 08/02/11 15:40 - 1617		CARBON NUMBER 2553 3011 3851 3858 2081		COOLANT PRESSURE/VACUUM Initial Final Receipt -30 -7.5 -30 -9 -30 -7 -30 -7 -30 -8			
REQUESTED ANALYSIS Turn Around Time: ☒ Normal ☐ Rush ☐ Specify _____ Lab Use Only Pre-Submittal Fee: _____ Date: _____ Pre-Submittal Case: _____ No. _____ Big _____		ADDITIONAL NOTES: - 14 day hold time - Report results between MDL and RL - Level IV ECVP		FED EX MAIL SEAL NETE			
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8/16/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562593.00009
Workorder #: 1108060B

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 8/3/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

Reviewed
on
8/26/2011

WORK ORDER #: 1108060B

Work Order Summary

CLIENT: Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-429-0100

P.O. # 21562593.00009

FAX:

PROJECT # 21562593.00009 Roxana Soil Vapor

DATE RECEIVED: 08/03/2011

CONTACT: Kelly Buettner

DATE COMPLETED: 08/16/2011

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-1-5-080111	Modified ASTM D-1946	7.0 "Hg	15 psi
02A	VMP-1-8.5-080111	Modified ASTM D-1946	9.0 "Hg	15 psi
03A	VMP-1-8.5-080111-Dup	Modified ASTM D-1946	8.5 "Hg	15 psi
04A	VMP-1-23.5-080111	Modified ASTM D-1946	6.5 "Hg	15 psi
05A	VMP-17-5-080111	Modified ASTM D-1946	9.0 "Hg	15 psi
06A	VMP-9-5-080211	Modified ASTM D-1946	9.5 "Hg	15 psi
07A	VMP-9-11.5-080211	Modified ASTM D-1946	8.5 "Hg	15 psi
08A	VMP-9-25.5-080211	Modified ASTM D-1946	8.5 "Hg	15 psi
09A	VMP-2-5-080211	Modified ASTM D-1946	9.0 "Hg	15 psi
10A	VMP-2-8.5-080211	Modified ASTM D-1946	1.5 "Hg	15 psi
11A	VMP-2-22-080211	Modified ASTM D-1946	8.5 "Hg	15 psi
12A	VMP-3-5-080211	Modified ASTM D-1946	10.5 "Hg	15 psi
13A	VMP-3-31.5-080211	Modified ASTM D-1946	8.5 "Hg	15 psi
14A	VMP-3-31.5-080211-Dup	Modified ASTM D-1946	8.0 "Hg	15 psi
15A	VMP-7-5-080211	Modified ASTM D-1946	9.0 "Hg	15 psi
16A	Lab Blank	Modified ASTM D-1946	NA	NA
16B	Lab Blank	Modified ASTM D-1946	NA	NA

Continued on next page

WORK ORDER #: 1108060B

Work Order Summary

CLIENT: Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-429-0100

P.O. # 21562593.00009

FAX:

PROJECT # 21562593.00009 Roxana Soil Vapor

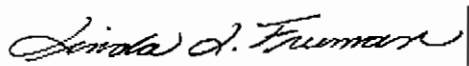
DATE RECEIVED: 08/03/2011

CONTACT: Kelly Buettner

DATE COMPLETED: 08/16/2011

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
17A	LCS	Modified ASTM D-1946	NA	NA
17AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY:



Laboratory Director

DATE: 08/16/11

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

**LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1108060B**

Fifteen 1 Liter Summa Canister samples were received on August 03, 2011. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

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

<i>Requirement</i>	<i>ASTM D-1946</i>	<i>ATL Modifications</i>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections $> 5 \times$ the RL.

Receiving Notes

The Chain of Custody (COC) information for sample VMP-9-25.5-080211 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

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 detection limit.

M - Reported value may be biased due to apparent matrix interferences.

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

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-1-5-080111

Lab ID#: 1108060B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	12
Nitrogen	0.26	80
Methane	0.00026	0.000070 J
Carbon Dioxide	0.026	7.8
Helium	0.13	0.59

Client Sample ID: VMP-1-8.5-080111

Lab ID#: 1108060B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	1.5
Nitrogen	0.29	84
Methane	0.00029	1.8
Carbon Dioxide	0.029	13
Ethane	0.0029	0.00067 J
Helium	0.14	0.017 J

Client Sample ID: VMP-1-8.5-080111-Dup

Lab ID#: 1108060B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.7
Nitrogen	0.28	83
Methane	0.00028	1.8
Carbon Dioxide	0.028	13
Ethane	0.0028	0.00065 J
Helium	0.14	0.015 J

Client Sample ID: VMP-1-23.5-080111

Lab ID#: 1108060B-04A

Summary of Detected Compounds

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-1-23.5-080111

Lab ID#: 1108060B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	2.2
Nitrogen	0.26	76
Methane	0.00026	10
Carbon Dioxide	0.026	9.3
Ethane	0.0026	0.0057
Helium	0.13	0.16

Client Sample ID: VMP-17-5-080111

Lab ID#: 1108060B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	13
Nitrogen	0.29	81
Methane	0.00029	0.0018
Carbon Dioxide	0.029	6.2
Helium	0.14	0.012 J

Client Sample ID: VMP-9-5-080211

Lab ID#: 1108060B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	1.8
Nitrogen	0.30	83
Methane	0.00030	0.24
Carbon Dioxide	0.030	15
Helium	0.15	0.015 J

Client Sample ID: VMP-9-11.5-080211

Lab ID#: 1108060B-07A

Compound	Rpt. Limit (%)	Amount (%)

Summary of Detected Compounds

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-9-11.5-080211

Lab ID#: 1108060B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.4
Nitrogen	0.28	80
Methane	0.00028	3.0
Carbon Dioxide	0.028	15
Ethane	0.0028	0.00020 J
Helium	0.14	0.013 J

Client Sample ID: VMP-9-25.5-080211

Lab ID#: 1108060B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.5
Nitrogen	0.28	81
Methane	0.00028	3.5
Carbon Dioxide	0.028	14
Ethane	0.0028	0.00024 J
Helium	0.14	0.012 J

Client Sample ID: VMP-2-5-080211

Lab ID#: 1108060B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	1.5
Nitrogen	0.29	83
Methane	0.00029	2.7
Carbon Dioxide	0.029	12
Ethane	0.0029	0.0018 J
Helium	0.14	0.0082 J

Client Sample ID: VMP-2-8.5-080211

Lab ID#: 1108060B-10A

Summary of Detected Compounds

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-2-8.5-080211

Lab ID#: 1108060B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	4.0
Nitrogen	0.21	80
Methane	0.00021	4.8
Carbon Dioxide	0.021	9.8
Ethane	0.0021	0.0029
Helium	0.11	0.0091 J

Client Sample ID: VMP-2-22-080211

Lab ID#: 1108060B-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.9
Nitrogen	0.28	79
Methane	0.00028	8.2
Carbon Dioxide	0.028	9.7
Ethane	0.0028	0.0041
Helium	0.14	0.021 J

Client Sample ID: VMP-3-5-080211

Lab ID#: 1108060B-12A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.63	7.8
Nitrogen	0.63	79
Methane	0.00063	0.00046 J
Carbon Dioxide	0.063	13
Helium	0.31	0.025 J

Client Sample ID: VMP-3-31.5-080211

Lab ID#: 1108060B-13A

Summary of Detected Compounds

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-3-31.5-080211

Lab ID#: 1108060B-13A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	0.92
Nitrogen	0.28	27
Methane	0.00028	50
Carbon Dioxide	0.028	4.7
Ethane	0.0028	0.017
Helium	0.14	0.035 J

Client Sample ID: VMP-3-31.5-080211-Dup

Lab ID#: 1108060B-14A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.4
Nitrogen	0.28	28
Methane	0.00028	49
Carbon Dioxide	0.028	4.6
Ethane	0.0028	0.017
Helium	0.14	0.041 J

Client Sample ID: VMP-7-5-080211

Lab ID#: 1108060B-15A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	1.5
Nitrogen	0.29	80
Methane	0.00029	2.3
Carbon Dioxide	0.029	16
Ethane	0.0029	0.00035 J
Helium	0.14	0.014 J

Client Sample ID: VMP-1-5-080111

Lab ID#: 1108060B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081106	Date of Collection: 8/1/11 9:33:00 AM
Dil. Factor:	2.64	Date of Analysis: 8/11/11 10:10 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	12
Nitrogen	0.26	80
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.000070 J
Carbon Dioxide	0.026	7.8
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.59

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-1-8.5-080111

Lab ID#: 1108060B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081109	Date of Collection: 8/1/11 10:45:00 AM
Dil. Factor:	2.89	Date of Analysis: 8/11/11 11:42 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	1.5
Nitrogen	0.29	84
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	1.8
Carbon Dioxide	0.029	13
Ethane	0.0029	0.00067 J
Ethene	0.0029	Not Detected
Helium	0.14	0.017 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-1-8.5-080111-Dup

Lab ID#: 1108060B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081110	Date of Collection: 8/1/11 10:45:00 AM
Dil. Factor:	2.82	Date of Analysis: 8/11/11 12:05 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.7
Nitrogen	0.28	83
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	1.8
Carbon Dioxide	0.028	13
Ethane	0.0028	0.00065 J
Ethene	0.0028	Not Detected
Helium	0.14	0.015 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-1-23.5-080111

Lab ID#: 1108060B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081111	Date of Collection: 8/1/11 11:58:00 AM
Dil. Factor:	2.58	Date of Analysis: 8/11/11 12:28 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	2.2
Nitrogen	0.26	76
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	10
Carbon Dioxide	0.026	9.3
Ethane	0.0026	0.0057
Ethene	0.0026	Not Detected
Helium	0.13	0.16

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-17-5-080111

Lab ID#: 1108060B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081107	Date of Collection: 8/1/11 4:26:00 PM
Dil. Factor:	2.89	Date of Analysis: 8/11/11 10:34 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	13
Nitrogen	0.29	81
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.0018
Carbon Dioxide	0.029	6.2
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.012 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-9-5-080211

Lab ID#: 1108060B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081108	Date of Collection: 8/2/11 10:36:00 AM
Dil. Factor:	2.96	Date of Analysis: 8/11/11 11:17 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	1.8
Nitrogen	0.30	83
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.24
Carbon Dioxide	0.030	15
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.015 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-9-11.5-080211

Lab ID#: 1108060B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081112	Date of Collection: 8/2/11 11:50:00 AM
Dil. Factor:	2.82	Date of Analysis: 8/11/11 12:54 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.4
Nitrogen	0.28	80
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	3.0
Carbon Dioxide	0.028	15
Ethane	0.0028	0.00020 J
Ethene	0.0028	Not Detected
Helium	0.14	0.013 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-9-25.5-080211

Lab ID#: 1108060B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081113	Date of Collection: 8/2/11 1:19:00 PM
Dil. Factor:	2.82	Date of Analysis: 8/11/11 01:17 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.5
Nitrogen	0.28	81
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	3.5
Carbon Dioxide	0.028	14
Ethane	0.0028	0.00024 J
Ethene	0.0028	Not Detected
Helium	0.14	0.012 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-2-5-080211

Lab ID#: 1108060B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081114	Date of Collection: 8/2/11 9:26:00 AM
Dil. Factor:	2.89	Date of Analysis: 8/11/11 01:39 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	1.5
Nitrogen	0.29	83
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	2.7
Carbon Dioxide	0.029	12
Ethane	0.0029	0.0018 J
Ethene	0.0029	Not Detected
Helium	0.14	0.0082 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-2-8.5-080211

Lab ID#: 1108060B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081115	Date of Collection: 8/2/11 10:38:00 AM
Dil. Factor:	2.13	Date of Analysis: 8/11/11 02:00 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	4.0
Nitrogen	0.21	80
Carbon Monoxide	0.021	Not Detected
Methane	0.00021	4.8
Carbon Dioxide	0.021	9.8
Ethane	0.0021	0.0029
Ethene	0.0021	Not Detected
Helium	0.11	0.0091 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-2-22-080211

Lab ID#: 1108060B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081116	Date of Collection: 8/2/11 12:02:00 PM
Dil. Factor:	2.82	Date of Analysis: 8/11/11 02:24 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.9
Nitrogen	0.28	79
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	8.2
Carbon Dioxide	0.028	9.7
Ethane	0.0028	0.0041
Ethene	0.0028	Not Detected
Helium	0.14	0.021 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-3-5-080211

Lab ID#: 1108060B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081121	Date of Collection: 8/2/11 3:30:00 PM
Dil. Factor:	6.28	Date of Analysis: 8/11/11 04:27 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.63	7.8
Nitrogen	0.63	79
Carbon Monoxide	0.063	Not Detected
Methane	0.00063	0.00046 J
Carbon Dioxide	0.063	13
Ethane	0.0063	Not Detected
Ethene	0.0063	Not Detected
Helium	0.31	0.025 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-3-31.5-080211

Lab ID#: 1108060B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081117	Date of Collection: 8/2/11 5:03:00 PM
Dil. Factor:	2.82	Date of Analysis: 8/11/11 02:45 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	0.92
Nitrogen	0.28	27
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	50
Carbon Dioxide	0.028	4.7
Ethane	0.0028	0.017
Ethene	0.0028	Not Detected
Helium	0.14	0.035 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-3-31.5-080211-Dup

Lab ID#: 1108060B-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081118	Date of Collection: 8/2/11 5:03:00 PM
Dil. Factor:	2.76	Date of Analysis: 8/11/11 03:13 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.4
Nitrogen	0.28	28
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	49
Carbon Dioxide	0.028	4.6
Ethane	0.0028	0.017
Ethene	0.0028	Not Detected
Helium	0.14	0.041 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-7-5-080211

Lab ID#: 1108060B-15A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081119	Date of Collection: 8/2/11 4:17:00 PM
Dil. Factor:	2.89	Date of Analysis: 8/11/11 03:38 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	1.5
Nitrogen	0.29	80
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	2.3
Carbon Dioxide	0.029	16
Ethane	0.0029	0.00035 J
Ethene	0.0029	Not Detected
Helium	0.14	0.014 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: Lab Blank

Lab ID#: 1108060B-16A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081105a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/11/11 09:32 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	0.050 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Client Sample ID: Lab Blank

Lab ID#: 1108060B-16B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081104b	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/11/11 09:10 AM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

Client Sample ID: LCS

Lab ID#: 1108060B-17A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081102	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/11/11 08:24 AM

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	99
Methane	98
Carbon Dioxide	99
Ethane	101
Ethene	99
Helium	97

Container Type: NA - Not Applicable

Client Sample ID: LCSD

Lab ID#: 1108060B-17AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081128	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/11/11 07:55 PM

Compound	%Recovery
Oxygen	99
Nitrogen	100
Carbon Monoxide	98
Methane	100
Carbon Dioxide	100
Ethane	103
Ethene	101
Helium	96

Container Type: NA - Not Applicable



Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. Project Name: Roxana Soil Vapor Project # 21562593.00009		Lab Vendor # URS CORPORATION 10001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110 ADDRESS: 314-429-0100 FAX: 314-429-0482 TELEPHONE:		Print Out To Contact Name: Thomas Adams PO # _____ 900 SOUTH CENTRAL AVE - ROXANA FOR DELIVERY TO NAME ORIGIN ONLY LOCATION 314-743-4179 Elizabeth Kunkel, URS, St. Louis elizabeth.kunkel@urscorp.com M. Miller, W. Buchman, D. Mattingly, C. Day, B. V.		INCIDENT # (ENV SERVICES): 9 7 2 1 8 0 4 0 DATE: 08/02/11 PAGE: 1 of 2	
Check Appropriate Box: ☒ ENV SERVICES ☐ MOTIVATION RETAIL ☐ MOTIVATION SOACH ☐ SIDL KIVLINE		☐ SHELL RETAIL ☐ LUBES		DATE ADDRESS: Moved and City STATE: IL ZIP: 62404		CONTRACT PROJECT NUMBER: Roxana Soil Vapor	
STANDARD (14 DAY) ☒ STANDARD ☐ LA - RQDC REPORT FORMAT		☐ 2 DAYS ☐ 24 HOURS ☐ OTHER (SPECIFY) _____		REQUESTED ANALYSIS: Turn Around Time: ☒ Normal ☐ Rush Specify _____		Lab Use Only: Prescribed by: _____ Date: _____ Press/Subscription Code: _____ No. _____ Hg _____	
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☒ LEVEL 3 ☐ LEVEL 4		☒ SHELL CONTRACT RATE APPLIES ☐ STATE REMBURSEMENT RATE APPLIES ☐ GDS NOT NEEDED ☒ RECEIPT VERIFICATION REQUESTED		Container Pressure/Vacuum Initial Final Receipt Final (psi)		ASTM D-1946 + Helium Modified TO-15 + Butane & Isopentane	
Field Sample Identification		SAMPLING DATE TIME		Canister Number		ASTM D-1946	
01A VMP-1-5-080111		08/01/11 0803 - 0833		605		X X	
01B VMP-1-8-5-080111		08/01/11 1016 - 1045		40978		X X	
01C VMP-1-8-5-080111-Dup		08/01/11 1016 - 1045		2074		X X	
01D VMP-1-23-5-080111		08/01/11 1127 - 1150		2149		X X	
01E VMP-17-5-080111		08/01/11 1554 - 1625		1644		X X	
01F VMP-9-5-080211		08/02/11 1004 - 1039		2197		X X	
01G VMP-9-11-5-080211		08/02/11 1116 - 1150		42004		X X	
01H VMP-8-25-5-080211		08/02/11 1248 - 1310		1471		X X	
01I VMP-2-5-080211		08/02/11 0855 - 0929		2466		X X	
01J VMP-2-8-5-080211		08/02/11 1000 - 1036		1011		X X	
(Revised by: Signature)		(Revised by: Signature)		(Revised by: Signature)		(Revised by: Signature)	
(Revised by: Signature)		(Revised by: Signature)		(Revised by: Signature)		(Revised by: Signature)	
(Revised by: Signature)		(Revised by: Signature)		(Revised by: Signature)		(Revised by: Signature)	

1108000



Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. Project Name: Roxana Soil Vapor Project # 21662693.00009		Lab Vendor # URS CORPORATION 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110 314-429-0100		URGENT COMPANY 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719 314-429-0100		INCIDENT # (ENV SERVICES) 0 7 2 1 8 8 4 0 DATE: 08/02/11 PAGE: 2 of 2	
Print Etd To Contact Name: Thomas Adams PO # 314-743-4179		Site Address (Send Analysis) 900 SOUTH CENTRAL AVE - ROXANA FOR DELIVERABLE TO FROM COMPANY OR LOCUS Elizabeth Kunkel, URS, St. Louis M. Miller, W. Buchanan, D. Melling		Phone No 314-743-4179 FAX 314-429-0462		INCIDENT # (ENV SERVICES) 0 7 2 1 8 8 4 0 DATE: 08/02/11 PAGE: 2 of 2	
Field Sample Identification VMP-2-22-080211 VMP-3-5-080211 VMP-3-31-5-080211 VMP-3-31-5-080211-Dup VMP-7-5-080211		DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☒ LEVEL 3 ☐ LEVEL 4 ☐ 1A - RWCQ REPORT FORMAT ☒ 1B - RWCQ REPORT FORMAT		REQUESTED ANALYSIS Turn Around Time: ☒ Normal ☐ Rush Specify:		ADDITIONAL NOTES: - 14 day hold time - Report results between MDL and RL - Level IV ECVF	
Field Sample Identification VMP-2-22-080211 VMP-3-5-080211 VMP-3-31-5-080211 VMP-3-31-5-080211-Dup VMP-7-5-080211		DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☒ LEVEL 3 ☐ LEVEL 4 ☐ 1A - RWCQ REPORT FORMAT ☒ 1B - RWCQ REPORT FORMAT		REQUESTED ANALYSIS Turn Around Time: ☒ Normal ☐ Rush Specify:		ADDITIONAL NOTES: - 14 day hold time - Report results between MDL and RL - Level IV ECVF	
Field Sample Identification VMP-2-22-080211 VMP-3-5-080211 VMP-3-31-5-080211 VMP-3-31-5-080211-Dup VMP-7-5-080211		DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☒ LEVEL 3 ☐ LEVEL 4 ☐ 1A - RWCQ REPORT FORMAT ☒ 1B - RWCQ REPORT FORMAT		REQUESTED ANALYSIS Turn Around Time: ☒ Normal ☐ Rush Specify:		ADDITIONAL NOTES: - 14 day hold time - Report results between MDL and RL - Level IV ECVF	

FED EX
 ONLY SEAL
 NETE

Date 8/3/11
 Time 1:00
 Date 8/3/11
 Time 0900

Roxana 3Q2011 Soil Vapor Data Review

Laboratory SDG: 1108148A, B

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 8/24/2011

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
VMP-4-5-080311	VMP-4-12-080311
VMP-4-12-080311-Dup	VMP-7-13.5-080311
VMP-7-29.5-080311	VMP-3-10-080311
VMP-3-39-080311	VMP-12-5-080411
VMP-12-11.5-080411	VMP-12-25-080411

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes, however sample VMP-3-39-080311 is not usable due to laboratory helium results in the sample (89%) that was greater than 10% of the final helium in the sampling shroud (92.1%). Due to sampling conditions, it was not possible to re-sample VMP-3-39 this quarter.

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that samples VMP-4-12-080311, VMP-12-5-080411, VMP-12-11.5-080411, and VMP-12-28-080411 were diluted and re-analyzed to bring the highest level compounds within calibration range of the instrument. Results for the highest level compounds were reported from the re-analysis runs and the remaining compounds were reported from the original analyses. Although not indicated in the laboratory case narrative, analytes were detected in the method blank. Samples were diluted due to high levels of target analytes. The compound Benzene was qualified due to field duplicate RPD outside evaluation criteria. These issues are addressed further in the appropriate sections below.

No problems were indicated in the cooler receipt form; however, COC-designated sample IDs, VMP-4-12-080311-Dup and VMP-12-28-080411 did not match canister tag-designated sample IDs. COC-designated sample ID VMP-12-28-080411 was incorrectly transcribed (correct sample ID is VMP-12-25-080411. Data were reported using the correct sample IDs.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1108148A-11A	TO-15	Ethanol	1.2 ppbv / 2.3 µg/m ³
1108148A-11A	TO-15	Methylene Chloride	0.12 ppbv / 0.42 µg/m ³
1108148A-11A	TO-15	2-Hexanone	0.15 ppbv / 0.63 µg/m ³
1108148A-11A	TO-15	4-Ethyltoluene	0.064 ppbv / 0.32 µg/m ³
1108148A-11A	TO-15	1,2,4-Trimethylbenzene	0.079 ppbv / 0.39 µg/m ³
1108148A-11A	TO-15	1,3-Dichlorobenzene	0.15 ppbv / 0.89 µg/m ³
1108148A-11A	TO-15	1,4-Dichlorobenzene	0.18 ppbv / 1.1 µg/m ³
1108148A-11A	TO-15	alpha-Chlorotoluene	0.097 ppbv / 0.50 µg/m ³
1108148A-11A	TO-15	1,2-Dichlorobenzene	0.17 ppbv / 1.0 µg/m ³
1108148A-11A	TO-15	1,2,4-Trichlorobenzene	0.39 ppbv / 2.9 µg/m ³
1108148A-11B	TO-15	1,4-Dichlorobenzene	1.1 ppbv / 6.7 µg/m ³
1108148A-11B	TO-15	alpha-Chlorotoluene	1.9 ppbv / 9.9 µg/m ³
1108148A-11B	TO-15	1,2-Dichlorobenzene	1.1 ppbv / 6.8 µg/m ³
1108148A-11B	TO-15	1,2,4-Trichlorobenzene	13 ppbv / 94 µg/m ³
1108148A-11B	TO-15	Hexachlorobutadiene	7.2 ppbv / 76 µg/m ³
1108148A-11C	TO-15	alpha-Chlorotoluene	1.1 ppbv / 5.7 µg/m ³
1108148A-11C	TO-15	1,2,4-Trichlorobenzene	11 ppbv / 82 µg/m ³
1108148B-11A	Natural gases	Nitrogen	0.042 %

Qualifications due to blank contamination are included in the table below. Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
VMP-3-39-080311	TO-15	Methylene Chloride	-	U

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	LCS/LCSD RPD	LCS/LCSD Criteria
1108148A-13B/BB	TO-15	1,2,4-Trichlorobenzene	145/150	3.4	70-130/25
1108148A-13B/BB	TO-15	Hexachlorobutadiene	142/146	3	70-130/25
1108148A-13C/CC	TO-15	1,2,4-Trichlorobenzene	158/162	2.5	70-130/25
1108148A-13C/CC	TO-15	Hexachlorobutadiene	152/147	3.3	70-130/25

All associated data were reported as non-detect or qualified by the URS chemist as nondetect due to method blank contamination and associated with an LCS recovery

above evaluation criteria, indicating a possible high bias; therefore, no qualification of data was required.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples in summa canisters.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-4-12-080311	VMP-4-12-080311-Dup

Were field duplicates within evaluation criteria?

Yes

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

The CCV recovery listed in the table below was above evaluation criteria.

CCV ID	Parameter	Analyte	CCV Recovery	CCV Criteria
1108148A-12B	TO-15	Alpha-Chlorotoluene	131	70-130

All associated data were reported as non-detect and associated with CCV recoveries above evaluation criteria, indicating a possible high bias; therefore, no qualification of data was required.

Additionally, compounds Butane and Isopentane that exceeded the calibration range of the instrument without having corresponding results with calibration range are qualified below.

Sample ID	Parameter	Analyte	Qualification	Comment
VMP-4-5-080311	TO-15	Isopentane	J	Professional Judgment
VMP-3-10-080311	TO-15	Butane	J	Professional Judgment
VMP-3-10-080311	TO-15	Isopentane	J	Professional Judgment

8/18/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562593.00009
Workorder #: 1108148A

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 8/5/2011 at Air Toxics Ltd.

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

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

Regards,



Kelly Buettner
Project Manager

REVIEWED
ON
8/24/2011

WORK ORDER #: 1108148A

Work Order Summary

CLIENT:	Mr. Jeff Adams URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	BILL TO:	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-429-0100	P.O. #	21562593.00009
FAX:		PROJECT #	21562593.00009 Roxana Soil Vapor
DATE RECEIVED:	08/05/2011	CONTACT:	Kelly Buettner
DATE COMPLETED:	08/18/2011		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-4-5-080311	Modified TO-15	10.5 "Hg	15 psi
02A	VMP-4-12-080311	Modified TO-15	9.0 "Hg	15 psi
02B	VMP-4-12-080311	Modified TO-15	9.0 "Hg	15 psi
03A	VMP-4-12-080311-Dup	Modified TO-15	9.0 "Hg	15 psi
04A	VMP-7-13.5-080311	Modified TO-15	9.0 "Hg	15 psi
05A	VMP-7-29.5-080311	Modified TO-15	9.5 "Hg	15 psi
06A	VMP-3-10-080311	Modified TO-15	1.5 "Hg	15 psi
07A	VMP-3-39-080311	Modified TO-15	12.0 "Hg	15 psi
08A	VMP-12-5-080411	Modified TO-15	9.0 "Hg	15 psi
08B	VMP-12-5-080411	Modified TO-15	9.0 "Hg	15 psi
09A	VMP-12-11.5-080411	Modified TO-15	8.5 "Hg	15 psi
09B	VMP-12-11.5-080411	Modified TO-15	8.5 "Hg	15 psi
10A	VMP-12-28-080411	Modified TO-15	7.0 "Hg	15 psi
10B	VMP-12-28-080411	Modified TO-15	7.0 "Hg	15 psi
11A	Lab Blank	Modified TO-15	NA	NA
11B	Lab Blank	Modified TO-15	NA	NA
11C	Lab Blank	Modified TO-15	NA	NA

Continued on next page

WORK ORDER #: 1108148A

Work Order Summary

CLIENT: Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-429-0100

FAX:

DATE RECEIVED: 08/05/2011

DATE COMPLETED: 08/18/2011

P.O. # 21562593.00009

PROJECT # 21562593.00009 Roxana Soil Vapor

CONTACT: Kelly Buettner

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
12A	CCV	Modified TO-15	NA	NA
12B	CCV	Modified TO-15	NA	NA
12C	CCV	Modified TO-15	NA	NA
13A	LCS	Modified TO-15	NA	NA
13AA	LCSD	Modified TO-15	NA	NA
13B	LCS	Modified TO-15	NA	NA
13BB	LCSD	Modified TO-15	NA	NA
13C	LCS	Modified TO-15	NA	NA
13CC	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:

Sandra J. Freeman

Laboratory Director

DATE: 08/18/11

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,

NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1108148A**

Ten 1 Liter Summa Canister samples were received on August 05, 2011. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

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

Receiving Notes

The Chain of Custody (COC) information for sample VMP-4-12-080311-Dup did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the sample(s).

The Chain of Custody (COC) information for sample VMP-12-28-080411 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Analytical Notes

Due to high-level target compounds, sample VMP-4-12-080311, VMP-12-5-080411, VMP-12-11.5-080411 and VMP-12-28-080411 was analyzed twice. In the "A" fraction, the sample was diluted to bring the highest-level compounds within the calibration range. The "B" fraction is also reported by client request and may be reported with "E" flags indicating the compound exceeds the calibration range. Both runs and associated QC are reported.

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 not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

UJ - Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

Client Sample ID: VMP-4-5-080311

Lab ID#: 1108148A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	62	120	120	220
2-Propanol	62	18 J	150	44 J
Hexane	16	170	55	600
Cyclohexane	16	57	54	200
2,2,4-Trimethylpentane	16	6000	73	28000
Benzene	16	33	50	100
Heptane	16	13 J	64	54 J
Toluene	16	8.1 J	58	30 J
2-Hexanone	62	2.0 J	250	8.3 J
Chlorobenzene	16	4.4 J	72	20 J
m,p-Xylene	16	2.7 J	68	12 J
Cumene	16	15 J	76	72 J
1,2,4-Trimethylbenzene	16	3.2 J	76	16 J
Butane	62	530	150	1300
Isopentane	62	6400 E	180	19000 E

Client Sample ID: VMP-4-12-080311 ** Use these results only. All other data was reported from*
Lab ID#: 1108148A-02A *DF = 289 the 144 dilution analysis*

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1400	38000	5100	140000
Cyclohexane	1400	52000	5000	180000
2,2,4-Trimethylpentane	1400	73000	6800	340000
Benzene	1400	2000	4600	6500
Heptane	1400	7900	5900	32000
Butane	5800	440000	14000	1000000
Isopentane	5800	1000000	17000	3100000

Client Sample ID: VMP-4-12-080311

Lab ID#: 1108148A-02B

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

Client Sample ID: VMP-4-12-080311 ** Do not use these results. Use all other data.*

Lab ID#: 1108148A-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	720	48000	2500	170000
Cyclohexane	720	67000	2500	230000
2,2,4-Trimethylpentane	720	94000	3400	440000
Benzene	720	2600	2300	8400
Heptane	720	10000	3000	41000
m,p-Xylene	720	180 J	3100	770 J
Butane	2900	570000	6800	1400000
~~Isopentane~~	~~2900~~	~~1400000 E~~	~~6500~~	~~4000000 E~~

Client Sample ID: VMP-4-12-080311-Dup

Lab ID#: 1108148A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1400	43000	5100	150000
Cyclohexane	1400	60000	5000	210000
2,2,4-Trimethylpentane	1400	84000	6800	390000
Benzene	1400	2000	4600	6400
Heptane	1400	8900	5900	36000
Butane	5800	500000	14000	1200000
Isopentane	5800	1200000	17000	3400000

Client Sample ID: VMP-7-13.5-080311

Lab ID#: 1108148A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	240	770	850	2700
Cyclohexane	240	2700	830	9400
2,2,4-Trimethylpentane	240	130000	1100	610000
Benzene	240	350	770	1100
Butane	960	28000	2300	67000
Isopentane	960	100000	2800	310000

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

Client Sample ID: VMP-7-29.5-080311

Lab ID#: 1108148A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	370	100000	1300	360000
Cyclohexane	370	140000	1300	470000
2,2,4-Trimethylpentane	370	200000	1700	950000
Benzene	370	12000	1200	40000
Heptane	370	86000	1500	350000
m,p-Xylene	370	83 J	1600	360 J
Cumene	370	320 J	1800	1600 J
Propylbenzene	370	230 J	1800	1100 J
Butane	1500	83000	3500	200000
Isopentane	1500	290000	4400	850000

Client Sample ID: VMP-3-10-080311

Lab ID#: 1108148A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	57	56 J	110	100 J
2-Propanol	57	18 J	140	44 J
Carbon Disulfide	57	12 J	180	38 J
Hexane	14	29	50	100
Cyclohexane	14	1000	49	3600
2,2,4-Trimethylpentane	14	5600	66	26000
Benzene	14	21	45	68
Toluene	14	7.5 J	54	28 J
Chlorobenzene	14	28	65	130
m,p-Xylene	14	3.8 J	62	16 J
Cumene	14	9.9 J	70	48 J
Propylbenzene	14	4.5 J	70	22 J
1,2,4-Trimethylbenzene	14	2.6 J	70	13 J
Butane	57	11000 E	140	26000 E
Isopentane	57	34000 E	170	100000 E

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

Client Sample ID: VMP-3-39-080311

Lab ID#: 1108148A-07A

Do not use these results, please see Section 1.0 of Data Review.

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	6.7	40	13	75
Acetone	6.7	90	16	210
2-Propanol	6.7	6.0 J	16	15 J
Carbon Disulfide	6.7	1.6 J	21	5.1 J
Methylene Chloride	1.7	~~0.50 J~~ u	5.8	~~1.7 J~~ u
Hexane	1.7	9.1	5.9	32
2-Butanone (Methyl Ethyl Ketone)	6.7	8.8	20	26
Tetrahydrofuran	1.7	0.86 J	5.0	2.5 J
Cyclohexane	1.7	9.0	5.8	31
2,2,4-Trimethylpentane	1.7	7.6	7.9	36
Benzene	1.7	10	5.4	32
Heptane	1.7	1.4 J	6.9	5.8 J
4-Methyl-2-pentanone	1.7	21	6.9	88
Toluene	1.7	5.6	6.3	21
2-Hexanone	6.7	0.83 J	28	3.4 J
Ethyl Benzene	1.7	0.41 J	7.3	1.8 J
m,p-Xylene	1.7	1.2 J	7.3	5.0 J
o-Xylene	1.7	0.38 J	7.3	1.6 J
Cumene	1.7	4.2	8.3	20
4-Ethyltoluene	1.7	0.45 J	8.3	2.2 J
1,3,5-Trimethylbenzene	1.7	0.22 J	8.3	1.1 J
1,2,4-Trimethylbenzene	1.7	0.65 J	8.3	3.2 J
Butane	6.7	21	16	51
Isopentane	6.7	20	20	59

Client Sample ID: VMP-12-5-080411

Lab ID#: 1108148A-08A

** Use those results only. All other data was reported from the 231 dilution analysis.*
DF = 963

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	4800	5000	17000	18000
Cyclohexane	4800	65000	16000	220000

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

Client Sample ID: VMP-12-5-080411

Lab ID#: 1108148A-08A

2,2,4-Trimethylpentane	4800	140000	22000	650000
Benzene	4800	64000	15000	200000
Butane	19000	1200000	46000	2800000
Isopentane	19000	2600000	57000	7700000

Client Sample ID: VMP-12-5-080411

Lab ID#: 1108148A-08B

** Do not use these results. Use all other data.*

DF = 231

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1200	4400	4100	16000
Cyclohexane	1200	68000	4000	230000
2,2,4-Trimethylpentane	1200	150000	5400	700000
Benzene	1200	62000	3700	200000
* Butane	4800	1400000 E	11000	3300000 E
* Isopentane	4800	3100000 E	14000	9100000 E

Client Sample ID: VMP-12-11.5-080411

Lab ID#: 1108148A-09A

** Use these results only. All other data was reported from the 282 dilution analysis.*

DF = 564

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	2800	3100	9900	11000
Cyclohexane	2800	54000	9700	190000
2,2,4-Trimethylpentane	2800	100000	13000	480000
Benzene	2800	430000	9000	1400000
Butane	11000	820000	27000	1900000
* Isopentane	11000	1600000	33000	4800000

Client Sample ID: VMP-12-11.5-080411

Lab ID#: 1108148A-09B

** Do not use these results. Use all other data.*

DF = 282

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1400	2600	5000	9100
Cyclohexane	1400	47000	4800	160000

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

Client Sample ID: VMP-12-11.5-080411

Lab ID#: 1108148A-09B

2,2,4-Trimethylpentane	1400	91000	6600	420000
Benzene	1400	380000	4500	1200000
Butane	5600	650000	13000	1500000
~~Isopentane~~	~~5600~~	~~1500000 E~~	~~17000~~	~~1300000 E~~

Client Sample ID: VMP-12-28-080411 **Use these results only. All other data was reported from the 550 dilution analysis.*

Lab ID#: 1108148A-10A DF=825

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	4100	57000	14000	200000
Cyclohexane	4100	98000	14000	340000
2,2,4-Trimethylpentane	4100	160000	19000	730000
Benzene	4100	1100000	13000	3500000
Butane	16000	1600000	39000	3900000
~~Isopentane~~	~~16000~~	~~3100000~~	~~49000~~	~~9200000~~

Client Sample ID: VMP-12-28-080411 **Do not use these results. Use all other data.*

Lab ID#: 1108148A-10B DF=550

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	2800	54000	9700	190000
Cyclohexane	2800	93000	9500	320000
2,2,4-Trimethylpentane	2800	150000	13000	720000
Benzene	2800	1100000	8800	3500000
Heptane	2800	2200 J	11000	9200 J
Butane	11000	1700000	26000	4000000
~~Isopentane~~	~~11000~~	~~3100000 E~~	~~32000~~	~~9600000 E~~

Client Sample ID: VMP-4-5-080311

Lab ID#: 1108148A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2081222	Date of Collection: 8/3/11 3:06:00 PM
Dil. Factor:	31.1	Date of Analysis: 8/12/11 08:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	16	Not Detected	77	Not Detected
Freon 114	16	Not Detected	110	Not Detected
Chloromethane	62	Not Detected	130	Not Detected
Vinyl Chloride	16	Not Detected	40	Not Detected
1,3-Butadiene	16	Not Detected	34	Not Detected
Bromomethane	16	Not Detected	60	Not Detected
Chloroethane	62	Not Detected	160	Not Detected
Freon 11	16	Not Detected	87	Not Detected
Ethanol	62	120	120	220
Freon 113	16	Not Detected	120	Not Detected
1,1-Dichloroethene	16	Not Detected	62	Not Detected
Acetone	62	Not Detected	150	Not Detected
2-Propanol	62	18 J	150	44 J
Carbon Disulfide	62	Not Detected	190	Not Detected
3-Chloropropene	62	Not Detected	190	Not Detected
Methylene Chloride	16	Not Detected	54	Not Detected
Methyl tert-butyl ether	16	Not Detected	56	Not Detected
trans-1,2-Dichloroethene	16	Not Detected	62	Not Detected
Hexane	16	170	55	600
1,1-Dichloroethane	16	Not Detected	63	Not Detected
2-Butanone (Methyl Ethyl Ketone)	62	Not Detected	180	Not Detected
cis-1,2-Dichloroethene	16	Not Detected	62	Not Detected
Tetrahydrofuran	16	Not Detected	46	Not Detected
Chloroform	16	Not Detected	76	Not Detected
1,1,1-Trichloroethane	16	Not Detected	85	Not Detected
Cyclohexane	16	57	54	200
Carbon Tetrachloride	16	Not Detected	98	Not Detected
2,2,4-Trimethylpentane	16	6000	73	28000
Benzene	16	33	50	100
1,2-Dichloroethane	16	Not Detected	63	Not Detected
Heptane	16	13 J	64	54 J
Trichloroethene	16	Not Detected	84	Not Detected
1,2-Dichloropropane	16	Not Detected	72	Not Detected
1,4-Dioxane	62	Not Detected	220	Not Detected
Bromodichloromethane	16	Not Detected	100	Not Detected
cis-1,3-Dichloropropene	16	Not Detected	70	Not Detected
4-Methyl-2-pentanone	16	Not Detected	64	Not Detected
Toluene	16	8.1 J	58	30 J
trans-1,3-Dichloropropene	16	Not Detected	70	Not Detected
1,1,2-Trichloroethane	16	Not Detected	85	Not Detected
Tetrachloroethene	16	Not Detected	100	Not Detected

Client Sample ID: VMP-4-5-080311

Lab ID#: 1108148A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2081222	Date of Collection:	8/3/11 3:06:00 PM	
Dil. Factor:	31.1	Date of Analysis:	8/12/11 08:49 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	62	2.0 J	250	8.3 J
Dibromochloromethane	16	Not Detected	130	Not Detected
1,2-Dibromoethane (EDB)	16	Not Detected	120	Not Detected
Chlorobenzene	16	4.4 J	72	20 J
Ethyl Benzene	16	Not Detected	68	Not Detected
m,p-Xylene	16	2.7 J	68	12 J
o-Xylene	16	Not Detected	68	Not Detected
Styrene	16	Not Detected	66	Not Detected
Bromoform	16	Not Detected	160	Not Detected
Cumene	16	15 J	76	72 J
1,1,2,2-Tetrachloroethane	16	Not Detected	110	Not Detected
Propylbenzene	16	Not Detected	76	Not Detected
4-Ethyltoluene	16	Not Detected	76	Not Detected
1,3,5-Trimethylbenzene	16	Not Detected	76	Not Detected
1,2,4-Trimethylbenzene	16	3.2 J	76	16 J
1,3-Dichlorobenzene	16	Not Detected	93	Not Detected
1,4-Dichlorobenzene	16	Not Detected	93	Not Detected
alpha-Chlorotoluene	16	Not Detected	80	Not Detected
1,2-Dichlorobenzene	16	Not Detected	93	Not Detected
1,2,4-Trichlorobenzene	62	Not Detected	460	Not Detected
Hexachlorobutadiene	62	Not Detected	660	Not Detected
Butane	62	530	150	1300
Isopentane	62	6400 E	180	19000 E

J = Estimated value.

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	106	70-130

Client Sample ID: VMP-4-12-080311

Lab ID#: 1108148A-02A

EPA METHOD TO-15 GC/MS

** Use these results only. All other data was reported from the 144 dilution analysis.*

File Name:	14081536	Date of Collection: 8/3/11 4:11:00 PM
Dil. Factor:	289	Date of Analysis: 8/15/11 09:31 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1400	Not Detected	7100	Not Detected
Freon 114	1400	Not Detected	10000	Not Detected
Chloromethane	5800	Not Detected	12000	Not Detected
Vinyl Chloride	1400	Not Detected	3700	Not Detected
1,3-Butadiene	1400	Not Detected	3200	Not Detected
Bromomethane	1400	Not Detected	5600	Not Detected
Chloroethane	5800	Not Detected	15000	Not Detected
Freon 11	1400	Not Detected	8100	Not Detected
Ethanol	5800	Not Detected	11000	Not Detected
Freon 113	1400	Not Detected	11000	Not Detected
1,1-Dichloroethene	1400	Not Detected	5700	Not Detected
Acetone	5800	Not Detected	14000	Not Detected
2-Propanol	5800	Not Detected	14000	Not Detected
Carbon Disulfide	1400	Not Detected	4500	Not Detected
3-Chloropropene	5800	Not Detected	18000	Not Detected
Methylene Chloride	1400	Not Detected	5000	Not Detected
Methyl tert-butyl ether	1400	Not Detected	5200	Not Detected
trans-1,2-Dichloroethene	1400	Not Detected	5700	Not Detected
Hexane	1400	38000	5100	140000
1,1-Dichloroethane	1400	Not Detected	5800	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5800	Not Detected	17000	Not Detected
cis-1,2-Dichloroethene	1400	Not Detected	5700	Not Detected
Tetrahydrofuran	1400	Not Detected	4300	Not Detected
Chloroform	1400	Not Detected	7000	Not Detected
1,1,1-Trichloroethane	1400	Not Detected	7900	Not Detected
Cyclohexane	1400	52000	5000	180000
Carbon Tetrachloride	1400	Not Detected	9100	Not Detected
2,2,4-Trimethylpentane	1400	73000	6800	340000
Benzene	1400	2000	4600	6500
1,2-Dichloroethane	1400	Not Detected	5800	Not Detected
Heptane	1400	7900	5900	32000
Trichloroethene	1400	Not Detected	7800	Not Detected
1,2-Dichloropropane	1400	Not Detected	6700	Not Detected
1,4-Dioxane	5800	Not Detected	21000	Not Detected
Bromodichloromethane	1400	Not Detected	9700	Not Detected
cis-1,3-Dichloropropene	1400	Not Detected	6600	Not Detected
4-Methyl-2-pentanone	1400	Not Detected	5900	Not Detected
Toluene	1400	Not Detected	5400	Not Detected
trans-1,3-Dichloropropene	1400	Not Detected	6600	Not Detected
1,1,2-Trichloroethane	1400	Not Detected	7900	Not Detected
Tetrachloroethene	1400	Not Detected	9800	Not Detected

Client Sample ID: VMP-4-12-080311

Lab ID#: 1108148A-02A

EPA METHOD TO-15 GC/MS

File Name:	14081536	Date of Collection: 8/3/11 4:11:00 PM
Dil. Factor:	289	Date of Analysis: 8/15/11 09:31 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5800	Not Detected	24000	Not Detected
Dibromochloromethane	1400	Not Detected	12000	Not Detected
1,2-Dibromoethane (EDB)	1400	Not Detected	11000	Not Detected
Chlorobenzene	1400	Not Detected	6600	Not Detected
Ethyl Benzene	1400	Not Detected	6300	Not Detected
m,p-Xylene	1400	Not Detected	6300	Not Detected
o-Xylene	1400	Not Detected	6300	Not Detected
Styrene	1400	Not Detected	6200	Not Detected
Bromoform	1400	Not Detected	15000	Not Detected
Cumene	1400	Not Detected	7100	Not Detected
1,1,2,2-Tetrachloroethane	1400	Not Detected	9900	Not Detected
Propylbenzene	1400	Not Detected	7100	Not Detected
4-Ethyltoluene	1400	Not Detected	7100	Not Detected
1,3,5-Trimethylbenzene	1400	Not Detected	7100	Not Detected
1,2,4-Trimethylbenzene	1400	Not Detected	7100	Not Detected
1,3-Dichlorobenzene	1400	Not Detected	8700	Not Detected
1,4-Dichlorobenzene	1400	Not Detected	8700	Not Detected
alpha-Chlorotoluene	1400	Not Detected	7500	Not Detected
1,2-Dichlorobenzene	1400	Not Detected	8700	Not Detected
1,2,4-Trichlorobenzene	5800	Not Detected	43000	Not Detected
Hexachlorobutadiene	5800	Not Detected	62000	Not Detected
Butane	5800	440000	14000	1000000
Isopentane	5800	1000000	17000	3100000

Container Type: 1 Liter Summa Canister

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

Client Sample ID: VMP-4-12-080311

Lab ID#: 1108148A-02B

EPA METHOD TO-15 GC/MS

** Do not use these results. Use all other data.*

File Name:	14081535	Date of Collection: 8/3/11 4:11:00 PM
Dil. Factor:	144	Date of Analysis: 8/15/11 08:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	720	Not Detected	3600	Not Detected
Freon 114	720	Not Detected	5000	Not Detected
Chloromethane	2900	Not Detected	5900	Not Detected
Vinyl Chloride	720	Not Detected	1800	Not Detected
1,3-Butadiene	720	Not Detected	1600	Not Detected
Bromomethane	720	Not Detected	2800	Not Detected
Chloroethane	2900	Not Detected	7600	Not Detected
Freon 11	720	Not Detected	4000	Not Detected
Ethanol	2900	Not Detected	5400	Not Detected
Freon 113	720	Not Detected	5500	Not Detected
1,1-Dichloroethene	720	Not Detected	2800	Not Detected
Acetone	2900	Not Detected	6800	Not Detected
2-Propanol	2900	Not Detected	7100	Not Detected
Carbon Disulfide	720	Not Detected	2200	Not Detected
3-Chloropropene	2900	Not Detected	9000	Not Detected
Methylene Chloride	720	Not Detected	2500	Not Detected
Methyl tert-butyl ether	720	Not Detected	2600	Not Detected
trans-1,2-Dichloroethene	720	Not Detected	2800	Not Detected
Hexane	720	48000	2500	170000
1,1-Dichloroethane	720	Not Detected	2900	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2900	Not Detected	8500	Not Detected
cis-1,2-Dichloroethene	720	Not Detected	2800	Not Detected
Tetrahydrofuran	720	Not Detected	2100	Not Detected
Chloroform	720	Not Detected	3500	Not Detected
1,1,1-Trichloroethane	720	Not Detected	3900	Not Detected
Cyclohexane	720	67000	2500	230000
Carbon Tetrachloride	720	Not Detected	4500	Not Detected
2,2,4-Trimethylpentane	720	94000	3400	440000
Benzene	720	2600	2300	8400
1,2-Dichloroethane	720	Not Detected	2900	Not Detected
Heptane	720	10000	3000	41000
Trichloroethene	720	Not Detected	3900	Not Detected
1,2-Dichloropropane	720	Not Detected	3300	Not Detected
1,4-Dioxane	2900	Not Detected	10000	Not Detected
Bromodichloromethane	720	Not Detected	4800	Not Detected
cis-1,3-Dichloropropene	720	Not Detected	3300	Not Detected
4-Methyl-2-pentanone	720	Not Detected	2900	Not Detected
Toluene	720	Not Detected	2700	Not Detected
trans-1,3-Dichloropropene	720	Not Detected	3300	Not Detected
1,1,2-Trichloroethane	720	Not Detected	3900	Not Detected
Tetrachloroethene	720	Not Detected	4900	Not Detected

Client Sample ID: VMP-4-12-080311

Lab ID#: 1108148A-02B

EPA METHOD TO-15 GC/MS

File Name:	14081535	Date of Collection: 8/3/11 4:11:00 PM
Dil. Factor:	144	Date of Analysis: 8/15/11 08:40 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2900	Not Detected	12000	Not Detected
Dibromochloromethane	720	Not Detected	6100	Not Detected
1,2-Dibromoethane (EDB)	720	Not Detected	5500	Not Detected
Chlorobenzene	720	Not Detected	3300	Not Detected
Ethyl Benzene	720	Not Detected	3100	Not Detected
m,p-Xylene	720	180 J	3100	770 J
o-Xylene	720	Not Detected	3100	Not Detected
Styrene	720	Not Detected	3100	Not Detected
Bromoform	720	Not Detected	7400	Not Detected
Cumene	720	Not Detected	3500	Not Detected
1,1,2,2-Tetrachloroethane	720	Not Detected	4900	Not Detected
Propylbenzene	720	Not Detected	3500	Not Detected
4-Ethyltoluene	720	Not Detected	3500	Not Detected
1,3,5-Trimethylbenzene	720	Not Detected	3500	Not Detected
1,2,4-Trimethylbenzene	720	Not Detected	3500	Not Detected
1,3-Dichlorobenzene	720	Not Detected	4300	Not Detected
1,4-Dichlorobenzene	720	Not Detected	4300	Not Detected
alpha-Chlorotoluene	720	Not Detected	3700	Not Detected
1,2-Dichlorobenzene	720	Not Detected	4300	Not Detected
1,2,4-Trichlorobenzene	2900	Not Detected	21000	Not Detected
Hexachlorobutadiene	2900	Not Detected	31000	Not Detected
Butane	2900	570000	6800	1400000
~~Isopentane~~	~~2900~~	~~1400000 E~~	~~8500~~	~~4000000 E~~

J = Estimated value.

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: VMP-4-12-080311-Dup

Lab ID#: 1108148A-03A

EPA METHOD TO-15 GC/MS

File Name:	14081609	Date of Collection:	8/3/11 4:11:00 PM
Dil. Factor:	289	Date of Analysis:	8/16/11 08:01 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1400	Not Detected	7100	Not Detected
Freon 114	1400	Not Detected	10000	Not Detected
Chloromethane	5800	Not Detected	12000	Not Detected
Vinyl Chloride	1400	Not Detected	3700	Not Detected
1,3-Butadiene	1400	Not Detected	3200	Not Detected
Bromomethane	1400	Not Detected	5600	Not Detected
Chloroethane	5800	Not Detected	15000	Not Detected
Freon 11	1400	Not Detected	8100	Not Detected
Ethanol	5800	Not Detected	11000	Not Detected
Freon 113	1400	Not Detected	11000	Not Detected
1,1-Dichloroethene	1400	Not Detected	5700	Not Detected
Acetone	5800	Not Detected	14000	Not Detected
2-Propanol	5800	Not Detected	14000	Not Detected
Carbon Disulfide	1400	Not Detected	4500	Not Detected
3-Chloropropene	5800	Not Detected	18000	Not Detected
Methylene Chloride	1400	Not Detected	5000	Not Detected
Methyl tert-butyl ether	1400	Not Detected	5200	Not Detected
trans-1,2-Dichloroethene	1400	Not Detected	5700	Not Detected
Hexane	1400	43000	5100	150000
1,1-Dichloroethane	1400	Not Detected	5800	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5800	Not Detected	17000	Not Detected
cis-1,2-Dichloroethene	1400	Not Detected	5700	Not Detected
Tetrahydrofuran	1400	Not Detected	4300	Not Detected
Chloroform	1400	Not Detected	7000	Not Detected
1,1,1-Trichloroethane	1400	Not Detected	7900	Not Detected
Cyclohexane	1400	60000	5000	210000
Carbon Tetrachloride	1400	Not Detected	9100	Not Detected
2,2,4-Trimethylpentane	1400	84000	6800	390000
Benzene	1400	2000	4600	6400
1,2-Dichloroethane	1400	Not Detected	5800	Not Detected
Heptane	1400	8900	5900	36000
Trichloroethene	1400	Not Detected	7800	Not Detected
1,2-Dichloropropane	1400	Not Detected	6700	Not Detected
1,4-Dioxane	5800	Not Detected	21000	Not Detected
Bromodichloromethane	1400	Not Detected	9700	Not Detected
cis-1,3-Dichloropropene	1400	Not Detected	6600	Not Detected
4-Methyl-2-pentanone	1400	Not Detected	5900	Not Detected
Toluene	1400	Not Detected	5400	Not Detected
trans-1,3-Dichloropropene	1400	Not Detected	6600	Not Detected
1,1,2-Trichloroethane	1400	Not Detected	7900	Not Detected
Tetrachloroethene	1400	Not Detected	9800	Not Detected

Client Sample ID: VMP-4-12-080311-Dup

Lab ID#: 1108148A-03A

EPA METHOD TO-15 GC/MS

File Name:	14081609	Date of Collection: 8/3/11 4:11:00 PM		
Dil. Factor:	289	Date of Analysis: 8/16/11 08:01 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5800	Not Detected	24000	Not Detected
Dibromochloromethane	1400	Not Detected	12000	Not Detected
1,2-Dibromoethane (EDB)	1400	Not Detected	11000	Not Detected
Chlorobenzene	1400	Not Detected	6600	Not Detected
Ethyl Benzene	1400	Not Detected	6300	Not Detected
m,p-Xylene	1400	Not Detected	6300	Not Detected
o-Xylene	1400	Not Detected	6300	Not Detected
Styrene	1400	Not Detected	6200	Not Detected
Bromoform	1400	Not Detected	15000	Not Detected
Cumene	1400	Not Detected	7100	Not Detected
1,1,2,2-Tetrachloroethane	1400	Not Detected	9900	Not Detected
Propylbenzene	1400	Not Detected	7100	Not Detected
4-Ethyltoluene	1400	Not Detected	7100	Not Detected
1,3,5-Trimethylbenzene	1400	Not Detected	7100	Not Detected
1,2,4-Trimethylbenzene	1400	Not Detected	7100	Not Detected
1,3-Dichlorobenzene	1400	Not Detected	8700	Not Detected
1,4-Dichlorobenzene	1400	Not Detected	8700	Not Detected
alpha-Chlorotoluene	1400	Not Detected	7500	Not Detected
1,2-Dichlorobenzene	1400	Not Detected	8700	Not Detected
1,2,4-Trichlorobenzene	5800	Not Detected	43000	Not Detected
Hexachlorobutadiene	5800	Not Detected	62000	Not Detected
Butane	5800	500000	14000	1200000
Isopentane	5800	1200000	17000	3400000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	93	70-130

Client Sample ID: VMP-7-13.5-080311

Lab ID#: 1108148A-04A

EPA METHOD TO-15 GC/MS

File Name:	14081610	Date of Collection: 8/3/11 9:26:00 AM
Dil. Factor:	48.2	Date of Analysis: 8/16/11 08:27 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	240	Not Detected	1200	Not Detected
Freon 114	240	Not Detected	1700	Not Detected
Chloromethane	960	Not Detected	2000	Not Detected
Vinyl Chloride	240	Not Detected	620	Not Detected
1,3-Butadiene	240	Not Detected	530	Not Detected
Bromomethane	240	Not Detected	940	Not Detected
Chloroethane	960	Not Detected	2500	Not Detected
Freon 11	240	Not Detected	1400	Not Detected
Ethanol	960	Not Detected	1800	Not Detected
Freon 113	240	Not Detected	1800	Not Detected
1,1-Dichloroethene	240	Not Detected	960	Not Detected
Acetone	960	Not Detected	2300	Not Detected
2-Propanol	960	Not Detected	2400	Not Detected
Carbon Disulfide	240	Not Detected	750	Not Detected
3-Chloropropene	960	Not Detected	3000	Not Detected
Methylene Chloride	240	Not Detected	840	Not Detected
Methyl tert-butyl ether	240	Not Detected	870	Not Detected
trans-1,2-Dichloroethene	240	Not Detected	960	Not Detected
Hexane	240	770	850	2700
1,1-Dichloroethane	240	Not Detected	980	Not Detected
2-Butanone (Methyl Ethyl Ketone)	960	Not Detected	2800	Not Detected
cis-1,2-Dichloroethene	240	Not Detected	960	Not Detected
Tetrahydrofuran	240	Not Detected	710	Not Detected
Chloroform	240	Not Detected	1200	Not Detected
1,1,1-Trichloroethane	240	Not Detected	1300	Not Detected
Cyclohexane	240	2700	830	9400
Carbon Tetrachloride	240	Not Detected	1500	Not Detected
2,2,4-Trimethylpentane	240	130000	1100	610000
Benzene	240	350	770	1100
1,2-Dichloroethane	240	Not Detected	980	Not Detected
Heptane	240	Not Detected	990	Not Detected
Trichloroethene	240	Not Detected	1300	Not Detected
1,2-Dichloropropane	240	Not Detected	1100	Not Detected
1,4-Dioxane	960	Not Detected	3500	Not Detected
Bromodichloromethane	240	Not Detected	1600	Not Detected
cis-1,3-Dichloropropene	240	Not Detected	1100	Not Detected
4-Methyl-2-pentanone	240	Not Detected	990	Not Detected
Toluene	240	Not Detected	910	Not Detected
trans-1,3-Dichloropropene	240	Not Detected	1100	Not Detected
1,1,2-Trichloroethane	240	Not Detected	1300	Not Detected
Tetrachloroethene	240	Not Detected	1600	Not Detected

Client Sample ID: VMP-7-13.5-080311

Lab ID#: 1108148A-04A

EPA METHOD TO-15 GC/MS

File Name:	14081610	Date of Collection: 8/3/11 9:26:00 AM		
Dil. Factor:	48.2	Date of Analysis: 8/16/11 08:27 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	960	Not Detected	3900	Not Detected
Dibromochloromethane	240	Not Detected	2000	Not Detected
1,2-Dibromoethane (EDB)	240	Not Detected	1800	Not Detected
Chlorobenzene	240	Not Detected	1100	Not Detected
Ethyl Benzene	240	Not Detected	1000	Not Detected
m,p-Xylene	240	Not Detected	1000	Not Detected
o-Xylene	240	Not Detected	1000	Not Detected
Styrene	240	Not Detected	1000	Not Detected
Bromoform	240	Not Detected	2500	Not Detected
Cumene	240	Not Detected	1200	Not Detected
1,1,2,2-Tetrachloroethane	240	Not Detected	1600	Not Detected
Propylbenzene	240	Not Detected	1200	Not Detected
4-Ethyltoluene	240	Not Detected	1200	Not Detected
1,3,5-Trimethylbenzene	240	Not Detected	1200	Not Detected
1,2,4-Trimethylbenzene	240	Not Detected	1200	Not Detected
1,3-Dichlorobenzene	240	Not Detected	1400	Not Detected
1,4-Dichlorobenzene	240	Not Detected	1400	Not Detected
alpha-Chlorotoluene	240	Not Detected	1200	Not Detected
1,2-Dichlorobenzene	240	Not Detected	1400	Not Detected
1,2,4-Trichlorobenzene	960	Not Detected	7200	Not Detected
Hexachlorobutadiene	960	Not Detected	10000	Not Detected
Butane	960	28000	2300	67000
Isopentane	960	100000	2800	310000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: VMP-7-29.5-080311

Lab ID#: 1108148A-05A

EPA METHOD TO-15 GC/MS

File Name:	14081611	Date of Collection:	8/3/11 10:42:00 AM
Dil. Factor:	74.0	Date of Analysis:	8/16/11 08:53 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	370	Not Detected	1800	Not Detected
Freon 114	370	Not Detected	2600	Not Detected
Chloromethane	1500	Not Detected	3000	Not Detected
Vinyl Chloride	370	Not Detected	940	Not Detected
1,3-Butadiene	370	Not Detected	820	Not Detected
Bromomethane	370	Not Detected	1400	Not Detected
Chloroethane	1500	Not Detected	3900	Not Detected
Freon 11	370	Not Detected	2100	Not Detected
Ethanol	1500	Not Detected	2800	Not Detected
Freon 113	370	Not Detected	2800	Not Detected
1,1-Dichloroethene	370	Not Detected	1500	Not Detected
Acetone	1500	Not Detected	3500	Not Detected
2-Propanol	1500	Not Detected	3600	Not Detected
Carbon Disulfide	370	Not Detected	1200	Not Detected
3-Chloropropene	1500	Not Detected	4600	Not Detected
Methylene Chloride	370	Not Detected	1300	Not Detected
Methyl tert-butyl ether	370	Not Detected	1300	Not Detected
trans-1,2-Dichloroethene	370	Not Detected	1500	Not Detected
Hexane	370	100000	1300	360000
1,1-Dichloroethane	370	Not Detected	1500	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1500	Not Detected	4400	Not Detected
cis-1,2-Dichloroethene	370	Not Detected	1500	Not Detected
Tetrahydrofuran	370	Not Detected	1100	Not Detected
Chloroform	370	Not Detected	1800	Not Detected
1,1,1-Trichloroethane	370	Not Detected	2000	Not Detected
Cyclohexane	370	140000	1300	470000
Carbon Tetrachloride	370	Not Detected	2300	Not Detected
2,2,4-Trimethylpentane	370	200000	1700	950000
Benzene	370	12000	1200	40000
1,2-Dichloroethane	370	Not Detected	1500	Not Detected
Heptane	370	86000	1500	350000
Trichloroethene	370	Not Detected	2000	Not Detected
1,2-Dichloropropane	370	Not Detected	1700	Not Detected
1,4-Dioxane	1500	Not Detected	5300	Not Detected
Bromodichloromethane	370	Not Detected	2500	Not Detected
cis-1,3-Dichloropropene	370	Not Detected	1700	Not Detected
4-Methyl-2-pentanone	370	Not Detected	1500	Not Detected
Toluene	370	Not Detected	1400	Not Detected
trans-1,3-Dichloropropene	370	Not Detected	1700	Not Detected
1,1,2-Trichloroethane	370	Not Detected	2000	Not Detected
Tetrachloroethene	370	Not Detected	2500	Not Detected

Client Sample ID: VMP-7-29.5-080311

Lab ID#: 1108148A-05A

EPA METHOD TO-15 GC/MS

File Name:	14081611	Date of Collection: 8/3/11 10:42:00 AM
Dil. Factor:	74.0	Date of Analysis: 8/16/11 08:53 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	1500	Not Detected	6100	Not Detected
Dibromochloromethane	370	Not Detected	3200	Not Detected
1,2-Dibromoethane (EDB)	370	Not Detected	2800	Not Detected
Chlorobenzene	370	Not Detected	1700	Not Detected
Ethyl Benzene	370	Not Detected	1600	Not Detected
m,p-Xylene	370	83 J	1600	360 J
o-Xylene	370	Not Detected	1600	Not Detected
Styrene	370	Not Detected	1600	Not Detected
Bromoform	370	Not Detected	3800	Not Detected
Cumene	370	320 J	1800	1600 J
1,1,2,2-Tetrachloroethane	370	Not Detected	2500	Not Detected
Propylbenzene	370	230 J	1800	1100 J
4-Ethyltoluene	370	Not Detected	1800	Not Detected
1,3,5-Trimethylbenzene	370	Not Detected	1800	Not Detected
1,2,4-Trimethylbenzene	370	Not Detected	1800	Not Detected
1,3-Dichlorobenzene	370	Not Detected	2200	Not Detected
1,4-Dichlorobenzene	370	Not Detected	2200	Not Detected
alpha-Chlorotoluene	370	Not Detected	1900	Not Detected
1,2-Dichlorobenzene	370	Not Detected	2200	Not Detected
1,2,4-Trichlorobenzene	1500	Not Detected	11000	Not Detected
Hexachlorobutadiene	1500	Not Detected	16000	Not Detected
Butane	1500	83000	3500	200000
Isopentane	1500	290000	4400	850000

J = Estimated value.

Container Type: 1 Liter Summa Canister

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

Client Sample ID: VMP-3-10-080311

Lab ID#: 1108148A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2081223	Date of Collection: 8/3/11 11:43:00 AM		
Dil. Factor:	28.4	Date of Analysis: 8/12/11 09:45 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	14	Not Detected	70	Not Detected
Freon 114	14	Not Detected	99	Not Detected
Chloromethane	57	Not Detected	120	Not Detected
Vinyl Chloride	14	Not Detected	36	Not Detected
1,3-Butadiene	14	Not Detected	31	Not Detected
Bromomethane	14	Not Detected	55	Not Detected
Chloroethane	57	Not Detected	150	Not Detected
Freon 11	14	Not Detected	80	Not Detected
Ethanol	57	56 J	110	100 J
Freon 113	14	Not Detected	110	Not Detected
1,1-Dichloroethene	14	Not Detected	56	Not Detected
Acetone	57	Not Detected	130	Not Detected
2-Propanol	57	18 J	140	44 J
Carbon Disulfide	57	12 J	180	38 J
3-Chloropropene	57	Not Detected	180	Not Detected
Methylene Chloride	14	Not Detected	49	Not Detected
Methyl tert-butyl ether	14	Not Detected	51	Not Detected
trans-1,2-Dichloroethene	14	Not Detected	56	Not Detected
Hexane	14	29	50	100
1,1-Dichloroethane	14	Not Detected	57	Not Detected
2-Butanone (Methyl Ethyl Ketone)	57	Not Detected	170	Not Detected
cis-1,2-Dichloroethene	14	Not Detected	56	Not Detected
Tetrahydrofuran	14	Not Detected	42	Not Detected
Chloroform	14	Not Detected	69	Not Detected
1,1,1-Trichloroethane	14	Not Detected	77	Not Detected
Cyclohexane	14	1000	49	3600
Carbon Tetrachloride	14	Not Detected	89	Not Detected
2,2,4-Trimethylpentane	14	5600	66	26000
Benzene	14	21	45	68
1,2-Dichloroethane	14	Not Detected	57	Not Detected
Heptane	14	Not Detected	58	Not Detected
Trichloroethene	14	Not Detected	76	Not Detected
1,2-Dichloropropane	14	Not Detected	66	Not Detected
1,4-Dioxane	57	Not Detected	200	Not Detected
Bromodichloromethane	14	Not Detected	95	Not Detected
cis-1,3-Dichloropropene	14	Not Detected	64	Not Detected
4-Methyl-2-pentanone	14	Not Detected	58	Not Detected
Toluene	14	7.5 J	54	28 J
trans-1,3-Dichloropropene	14	Not Detected	64	Not Detected
1,1,2-Trichloroethane	14	Not Detected	77	Not Detected
Tetrachloroethene	14	Not Detected	96	Not Detected

Client Sample ID: VMP-3-10-080311

Lab ID#: 1108148A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

EPA METHOD 16-31 GC/MS FID SCAN				
File Name:	2081223	Date of Collection: 8/3/11 11:43:00 AM		
Dil. Factor:	28.4	Date of Analysis: 8/12/11 09:45 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	57	Not Detected	230	Not Detected
Dibromochloromethane	14	Not Detected	120	Not Detected
1,2-Dibromoethane (EDB)	14	Not Detected	110	Not Detected
Chlorobenzene	14	28	65	130
Ethyl Benzene	14	Not Detected	62	Not Detected
m,p-Xylene	14	3.8 J	62	16 J
o-Xylene	14	Not Detected	62	Not Detected
Styrene	14	Not Detected	60	Not Detected
Bromoform	14	Not Detected	150	Not Detected
Cumene	14	9.9 J	70	48 J
1,1,2,2-Tetrachloroethane	14	Not Detected	97	Not Detected
Propylbenzene	14	4.5 J	70	22 J
4-Ethyltoluene	14	Not Detected	70	Not Detected
1,3,5-Trimethylbenzene	14	Not Detected	70	Not Detected
1,2,4-Trimethylbenzene	14	2.6 J	70	13 J
1,3-Dichlorobenzene	14	Not Detected	85	Not Detected
1,4-Dichlorobenzene	14	Not Detected	85	Not Detected
alpha-Chlorotoluene	14	Not Detected	74	Not Detected
1,2-Dichlorobenzene	14	Not Detected	85	Not Detected
1,2,4-Trichlorobenzene	57	Not Detected	420	Not Detected
Hexachlorobutadiene	57	Not Detected	600	Not Detected
Butane	57	11000 E	140	26000 E
Isopentane	57	34000 E	170	100000 E

J = Estimated value.

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	106	70-130

Do not use these results. Please See

Client Sample ID: VMP-3-39-080311

Lab ID#: 1108148A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

*Section 1.0 of
Data Review.*

File Name:	2081225	Date of Collection: 8/3/11 10:36:00 AM
Dil. Factor:	3.37	Date of Analysis: 8/12/11 11:07 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.7	Not Detected	8.3	Not Detected
Freon 114	1.7	Not Detected	12	Not Detected
Chloromethane	6.7	Not Detected	14	Not Detected
Vinyl Chloride	1.7	Not Detected	4.3	Not Detected
1,3-Butadiene	1.7	Not Detected	3.7	Not Detected
Bromomethane	1.7	Not Detected	6.5	Not Detected
Chloroethane	6.7	Not Detected	18	Not Detected
Freon 11	1.7	Not Detected	9.5	Not Detected
Ethanol	6.7	40	13	75
Freon 113	1.7	Not Detected	13	Not Detected
1,1-Dichloroethene	1.7	Not Detected	6.7	Not Detected
Acetone	6.7	90	16	210
2-Propanol	6.7	6.0 J	16	15 J
Carbon Disulfide	6.7	1.6 J	21	5.1 J
3-Chloropropene	6.7	Not Detected	21	Not Detected
Methylene Chloride	1.7	0.50 J	5.8	1.7 J
Methyl tert-butyl ether	1.7	Not Detected	6.1	Not Detected
trans-1,2-Dichloroethene	1.7	Not Detected	6.7	Not Detected
Hexane	1.7	9.1	5.9	32
1,1-Dichloroethane	1.7	Not Detected	6.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	6.7	8.8	20	26
cis-1,2-Dichloroethene	1.7	Not Detected	6.7	Not Detected
Tetrahydrofuran	1.7	0.86 J	5.0	2.5 J
Chloroform	1.7	Not Detected	8.2	Not Detected
1,1,1-Trichloroethane	1.7	Not Detected	9.2	Not Detected
Cyclohexane	1.7	9.0	5.8	31
Carbon Tetrachloride	1.7	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	1.7	7.6	7.9	36
Benzene	1.7	10	5.4	32
1,2-Dichloroethane	1.7	Not Detected	6.8	Not Detected
Heptane	1.7	1.4 J	6.9	5.8 J
Trichloroethene	1.7	Not Detected	9.0	Not Detected
1,2-Dichloropropane	1.7	Not Detected	7.8	Not Detected
1,4-Dioxane	6.7	Not Detected	24	Not Detected
Bromodichloromethane	1.7	Not Detected	11	Not Detected
cis-1,3-Dichloropropene	1.7	Not Detected	7.6	Not Detected
4-Methyl-2-pentanone	1.7	21	6.9	88
Toluene	1.7	5.6	6.3	21
trans-1,3-Dichloropropene	1.7	Not Detected	7.6	Not Detected
1,1,2-Trichloroethane	1.7	Not Detected	9.2	Not Detected
Tetrachloroethene	1.7	Not Detected	11	Not Detected

Client Sample ID: VMP-3-39-080311

Lab ID#: 1108148A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

EPA METHOD 10-13 GC/MS FULL SCAN				
File Name:	2081225	Date of Collection: 8/3/11 10:36:00 AM		
Dil. Factor:	3.37	Date of Analysis: 8/12/11 11:07 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	6.7	0.83 J	28	3.4 J
Dibromochloromethane	1.7	Not Detected	14	Not Detected
1,2-Dibromoethane (EDB)	1.7	Not Detected	13	Not Detected
Chlorobenzene	1.7	Not Detected	7.8	Not Detected
Ethyl Benzene	1.7	0.41 J	7.3	1.8 J
m,p-Xylene	1.7	1.2 J	7.3	5.0 J
o-Xylene	1.7	0.38 J	7.3	1.6 J
Styrene	1.7	Not Detected	7.2	Not Detected
Bromoform	1.7	Not Detected	17	Not Detected
Cumene	1.7	4.2	8.3	20
1,1,2,2-Tetrachloroethane	1.7	Not Detected	12	Not Detected
Propylbenzene	1.7	Not Detected	8.3	Not Detected
4-Ethyltoluene	1.7	0.45 J	8.3	2.2 J
1,3,5-Trimethylbenzene	1.7	0.22 J	8.3	1.1 J
1,2,4-Trimethylbenzene	1.7	0.65 J	8.3	3.2 J
1,3-Dichlorobenzene	1.7	Not Detected	10	Not Detected
1,4-Dichlorobenzene	1.7	Not Detected	10	Not Detected
alpha-Chlorotoluene	1.7	Not Detected	8.7	Not Detected
1,2-Dichlorobenzene	1.7	Not Detected	10	Not Detected
1,2,4-Trichlorobenzene	6.7	Not Detected	50	Not Detected
Hexachlorobutadiene	6.7	Not Detected	72	Not Detected
Butane	6.7	21	16	51
Isopentane	6.7	20	20	59

J = Estimated value.

Container Type: 1 Liter Summa Canister

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

Client Sample ID: VMP-12-5-080411

Lab ID#: 1108148A-08A

EPA METHOD TO-15 GC/MS

** Use these results only All other data was reported from the 231 dilution analysis.*

File Name:	14081619	Date of Collection: 8/4/11 10:47:00 AM		
Dil. Factor:	963	Date of Analysis: 8/16/11 12:06 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	4800	Not Detected	24000	Not Detected
Freon 114	4800	Not Detected	34000	Not Detected
Chloromethane	19000	Not Detected	40000	Not Detected
Vinyl Chloride	4800	Not Detected	12000	Not Detected
1,3-Butadiene	4800	Not Detected	11000	Not Detected
Bromomethane	4800	Not Detected	19000	Not Detected
Chloroethane	19000	Not Detected	51000	Not Detected
Freon 11	4800	Not Detected	27000	Not Detected
Ethanol	19000	Not Detected	36000	Not Detected
Freon 113	4800	Not Detected	37000	Not Detected
1,1-Dichloroethene	4800	Not Detected	19000	Not Detected
Acetone	19000	Not Detected	46000	Not Detected
2-Propanol	19000	Not Detected	47000	Not Detected
Carbon Disulfide	4800	Not Detected	15000	Not Detected
3-Chloropropene	19000	Not Detected	60000	Not Detected
Methylene Chloride	4800	Not Detected	17000	Not Detected
Methyl tert-butyl ether	4800	Not Detected	17000	Not Detected
trans-1,2-Dichloroethene	4800	Not Detected	19000	Not Detected
Hexane	4800	5000	17000	18000
1,1-Dichloroethane	4800	Not Detected	19000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	19000	Not Detected	57000	Not Detected
cis-1,2-Dichloroethene	4800	Not Detected	19000	Not Detected
Tetrahydrofuran	4800	Not Detected	14000	Not Detected
Chloroform	4800	Not Detected	24000	Not Detected
1,1,1-Trichloroethane	4800	Not Detected	26000	Not Detected
Cyclohexane	4800	65000	16000	220000
Carbon Tetrachloride	4800	Not Detected	30000	Not Detected
2,2,4-Trimethylpentane	4800	140000	22000	650000
Benzene	4800	64000	15000	200000
1,2-Dichloroethane	4800	Not Detected	19000	Not Detected
Heptane	4800	Not Detected	20000	Not Detected
Trichloroethene	4800	Not Detected	26000	Not Detected
1,2-Dichloropropane	4800	Not Detected	22000	Not Detected
1,4-Dioxane	19000	Not Detected	69000	Not Detected
Bromodichloromethane	4800	Not Detected	32000	Not Detected
cis-1,3-Dichloropropene	4800	Not Detected	22000	Not Detected
4-Methyl-2-pentanone	4800	Not Detected	20000	Not Detected
Toluene	4800	Not Detected	18000	Not Detected
trans-1,3-Dichloropropene	4800	Not Detected	22000	Not Detected
1,1,2-Trichloroethane	4800	Not Detected	26000	Not Detected
Tetrachloroethene	4800	Not Detected	33000	Not Detected

Client Sample ID: VMP-12-5-080411

Lab ID#: 1108148A-08A

EPA METHOD TO-15 GC/MS

File Name:	14081619	Date of Collection: 8/4/11 10:47:00 AM
Dil. Factor:	963	Date of Analysis: 8/16/11 12:06 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	19000	Not Detected	79000	Not Detected
Dibromochloromethane	4800	Not Detected	41000	Not Detected
1,2-Dibromoethane (EDB)	4800	Not Detected	37000	Not Detected
Chlorobenzene	4800	Not Detected	22000	Not Detected
Ethyl Benzene	4800	Not Detected	21000	Not Detected
m,p-Xylene	4800	Not Detected	21000	Not Detected
o-Xylene	4800	Not Detected	21000	Not Detected
Styrene	4800	Not Detected	20000	Not Detected
Bromoform	4800	Not Detected	50000	Not Detected
Cumene	4800	Not Detected	24000	Not Detected
1,1,2,2-Tetrachloroethane	4800	Not Detected	33000	Not Detected
Propylbenzene	4800	Not Detected	24000	Not Detected
4-Ethyltoluene	4800	Not Detected	24000	Not Detected
1,3,5-Trimethylbenzene	4800	Not Detected	24000	Not Detected
1,2,4-Trimethylbenzene	4800	Not Detected	24000	Not Detected
1,3-Dichlorobenzene	4800	Not Detected	29000	Not Detected
1,4-Dichlorobenzene	4800	Not Detected	29000	Not Detected
alpha-Chlorotoluene	4800	Not Detected	25000	Not Detected
1,2-Dichlorobenzene	4800	Not Detected	29000	Not Detected
1,2,4-Trichlorobenzene	19000	Not Detected	140000	Not Detected
Hexachlorobutadiene	19000	Not Detected	200000	Not Detected
Butane	19000	1200000	46000	2800000
Isopentane	19000	2600000	57000	7700000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: VMP-12-5-080411

Lab ID#: 1108148A-08B

EPA METHOD TO-15 GC/MS

Do not use this data. Use all other data.

File Name:	14081618	Date of Collection: 8/4/11 10:47:00 AM		
Dil. Factor:	231	Date of Analysis: 8/16/11 11:41 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1200	Not Detected	5700	Not Detected
Freon 114	1200	Not Detected	8100	Not Detected
Chloromethane	4600	Not Detected	9500	Not Detected
Vinyl Chloride	1200	Not Detected	3000	Not Detected
1,3-Butadiene	1200	Not Detected	2600	Not Detected
Bromomethane	1200	Not Detected	4500	Not Detected
Chloroethane	4600	Not Detected	12000	Not Detected
Freon 11	1200	Not Detected	6500	Not Detected
Ethanol	4600	Not Detected	8700	Not Detected
Freon 113	1200	Not Detected	8800	Not Detected
1,1-Dichloroethene	1200	Not Detected	4600	Not Detected
Acetone	4600	Not Detected	11000	Not Detected
2-Propanol	4600	Not Detected	11000	Not Detected
Carbon Disulfide	1200	Not Detected	3600	Not Detected
3-Chloropropene	4600	Not Detected	14000	Not Detected
Methylene Chloride	1200	Not Detected	4000	Not Detected
Methyl tert-butyl ether	1200	Not Detected	4200	Not Detected
trans-1,2-Dichloroethene	1200	Not Detected	4600	Not Detected
Hexane	1200	4400	4100	16000
1,1-Dichloroethane	1200	Not Detected	4700	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4600	Not Detected	14000	Not Detected
cis-1,2-Dichloroethene	1200	Not Detected	4600	Not Detected
Tetrahydrofuran	1200	Not Detected	3400	Not Detected
Chloroform	1200	Not Detected	5600	Not Detected
1,1,1-Trichloroethane	1200	Not Detected	6300	Not Detected
Cyclohexane	1200	68000	4000	230000
Carbon Tetrachloride	1200	Not Detected	7300	Not Detected
2,2,4-Trimethylpentane	1200	150000	5400	700000
Benzene	1200	62000	3700	200000
1,2-Dichloroethane	1200	Not Detected	4700	Not Detected
Heptane	1200	Not Detected	4700	Not Detected
Trichloroethene	1200	Not Detected	6200	Not Detected
1,2-Dichloropropane	1200	Not Detected	5300	Not Detected
1,4-Dioxane	4600	Not Detected	17000	Not Detected
Bromodichloromethane	1200	Not Detected	7700	Not Detected
cis-1,3-Dichloropropene	1200	Not Detected	5200	Not Detected
4-Methyl-2-pentanone	1200	Not Detected	4700	Not Detected
Toluene	1200	Not Detected	4400	Not Detected
trans-1,3-Dichloropropene	1200	Not Detected	5200	Not Detected
1,1,2-Trichloroethane	1200	Not Detected	6300	Not Detected
Tetrachloroethene	1200	Not Detected	7800	Not Detected

Client Sample ID: VMP-12-5-080411

Lab ID#: 1108148A-08B

EPA METHOD TO-15 GC/MS

File Name:	14081618	Date of Collection: 8/4/11 10:47:00 AM
Dil. Factor:	231	Date of Analysis: 8/16/11 11:41 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	4600	Not Detected	19000	Not Detected
Dibromochloromethane	1200	Not Detected	9800	Not Detected
1,2-Dibromoethane (EDB)	1200	Not Detected	8900	Not Detected
Chlorobenzene	1200	Not Detected	5300	Not Detected
Ethyl Benzene	1200	Not Detected	5000	Not Detected
m,p-Xylene	1200	Not Detected	5000	Not Detected
o-Xylene	1200	Not Detected	5000	Not Detected
Styrene	1200	Not Detected	4900	Not Detected
Bromoform	1200	Not Detected	12000	Not Detected
Cumene	1200	Not Detected	5700	Not Detected
1,1,2,2-Tetrachloroethane	1200	Not Detected	7900	Not Detected
Propylbenzene	1200	Not Detected	5700	Not Detected
4-Ethyltoluene	1200	Not Detected	5700	Not Detected
1,3,5-Trimethylbenzene	1200	Not Detected	5700	Not Detected
1,2,4-Trimethylbenzene	1200	Not Detected	5700	Not Detected
1,3-Dichlorobenzene	1200	Not Detected	6900	Not Detected
1,4-Dichlorobenzene	1200	Not Detected	6900	Not Detected
alpha-Chlorotoluene	1200	Not Detected	6000	Not Detected
1,2-Dichlorobenzene	1200	Not Detected	6900	Not Detected
1,2,4-Trichlorobenzene	4600	Not Detected	34000	Not Detected
Hexachlorobutadiene	4600	Not Detected	49000	Not Detected
X Butane	4600	1400000 E	11000	3300000 E
X Isopentane	4600	3100000 E	14000	9100000 E

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: VMP-12-11.5-080411

Lab ID#: 1108148A-09A

EPA METHOD TO-15 GC/MS

** Use these results only. All other data was reported from the 282 dilution analysis.*

File Name:	14081621	Date of Collection: 8/4/11 12:09:00 PM
Dil. Factor:	564	Date of Analysis: 8/16/11 12:56 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2800	Not Detected	14000	Not Detected
Freon 114	2800	Not Detected	20000	Not Detected
Chloromethane	11000	Not Detected	23000	Not Detected
Vinyl Chloride	2800	Not Detected	7200	Not Detected
1,3-Butadiene	2800	Not Detected	6200	Not Detected
Bromomethane	2800	Not Detected	11000	Not Detected
Chloroethane	11000	Not Detected	30000	Not Detected
Freon 11	2800	Not Detected	16000	Not Detected
Ethanol	11000	Not Detected	21000	Not Detected
Freon 113	2800	Not Detected	22000	Not Detected
1,1-Dichloroethene	2800	Not Detected	11000	Not Detected
Acetone	11000	Not Detected	27000	Not Detected
2-Propanol	11000	Not Detected	28000	Not Detected
Carbon Disulfide	2800	Not Detected	8800	Not Detected
3-Chloropropene	11000	Not Detected	35000	Not Detected
Methylene Chloride	2800	Not Detected	9800	Not Detected
Methyl tert-butyl ether	2800	Not Detected	10000	Not Detected
trans-1,2-Dichloroethene	2800	Not Detected	11000	Not Detected
Hexane	2800	3100	9900	11000
1,1-Dichloroethane	2800	Not Detected	11000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	11000	Not Detected	33000	Not Detected
cis-1,2-Dichloroethene	2800	Not Detected	11000	Not Detected
Tetrahydrofuran	2800	Not Detected	8300	Not Detected
Chloroform	2800	Not Detected	14000	Not Detected
1,1,1-Trichloroethane	2800	Not Detected	15000	Not Detected
Cyclohexane	2800	54000	9700	190000
Carbon Tetrachloride	2800	Not Detected	18000	Not Detected
2,2,4-Trimethylpentane	2800	100000	13000	480000
Benzene	2800	430000	9000	1400000
1,2-Dichloroethane	2800	Not Detected	11000	Not Detected
Heptane	2800	Not Detected	12000	Not Detected
Trichloroethene	2800	Not Detected	15000	Not Detected
1,2-Dichloropropane	2800	Not Detected	13000	Not Detected
1,4-Dioxane	11000	Not Detected	41000	Not Detected
Bromodichloromethane	2800	Not Detected	19000	Not Detected
cis-1,3-Dichloropropene	2800	Not Detected	13000	Not Detected
4-Methyl-2-pentanone	2800	Not Detected	12000	Not Detected
Toluene	2800	Not Detected	11000	Not Detected
trans-1,3-Dichloropropene	2800	Not Detected	13000	Not Detected
1,1,2-Trichloroethane	2800	Not Detected	15000	Not Detected
Tetrachloroethene	2800	Not Detected	19000	Not Detected

Client Sample ID: VMP-12-11.5-080411

Lab ID#: 1108148A-09A

EPA METHOD TO-15 GC/MS

File Name:	14081621	Date of Collection: 8/4/11 12:09:00 PM
Dil. Factor:	564	Date of Analysis: 8/16/11 12:56 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	11000	Not Detected	46000	Not Detected
Dibromochloromethane	2800	Not Detected	24000	Not Detected
1,2-Dibromoethane (EDB)	2800	Not Detected	22000	Not Detected
Chlorobenzene	2800	Not Detected	13000	Not Detected
Ethyl Benzene	2800	Not Detected	12000	Not Detected
m,p-Xylene	2800	Not Detected	12000	Not Detected
o-Xylene	2800	Not Detected	12000	Not Detected
Styrene	2800	Not Detected	12000	Not Detected
Bromoform	2800	Not Detected	29000	Not Detected
Cumene	2800	Not Detected	14000	Not Detected
1,1,2,2-Tetrachloroethane	2800	Not Detected	19000	Not Detected
Propylbenzene	2800	Not Detected	14000	Not Detected
4-Ethyltoluene	2800	Not Detected	14000	Not Detected
1,3,5-Trimethylbenzene	2800	Not Detected	14000	Not Detected
1,2,4-Trimethylbenzene	2800	Not Detected	14000	Not Detected
1,3-Dichlorobenzene	2800	Not Detected	17000	Not Detected
1,4-Dichlorobenzene	2800	Not Detected	17000	Not Detected
alpha-Chlorotoluene	2800	Not Detected	14000	Not Detected
1,2-Dichlorobenzene	2800	Not Detected	17000	Not Detected
1,2,4-Trichlorobenzene	11000	Not Detected	84000	Not Detected
Hexachlorobutadiene	11000	Not Detected	120000	Not Detected
Butane	11000	820000	27000	1900000
Isopentane	11000	1600000	33000	4800000

Container Type: 1 Liter Summa Canister

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

Client Sample ID: VMP-12-11.5-080411

Lab ID#: 1108148A-09B

** Do not use these results. Use all other data.*

EPA METHOD TO-15 GC/MS

File Name:	14081612	Date of Collection: 8/4/11 12:09:00 PM		
Dil. Factor:	282	Date of Analysis: 8/16/11 09:13 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1400	Not Detected	7000	Not Detected
Freon 114	1400	Not Detected	9800	Not Detected
Chloromethane	5600	Not Detected	12000	Not Detected
Vinyl Chloride	1400	Not Detected	3600	Not Detected
1,3-Butadiene	1400	Not Detected	3100	Not Detected
Bromomethane	1400	Not Detected	5500	Not Detected
Chloroethane	5600	Not Detected	15000	Not Detected
Freon 11	1400	Not Detected	7900	Not Detected
Ethanol	5600	Not Detected	11000	Not Detected
Freon 113	1400	Not Detected	11000	Not Detected
1,1-Dichloroethene	1400	Not Detected	5600	Not Detected
Acetone	5600	Not Detected	13000	Not Detected
2-Propanol	5600	Not Detected	14000	Not Detected
Carbon Disulfide	1400	Not Detected	4400	Not Detected
3-Chloropropene	5600	Not Detected	18000	Not Detected
Methylene Chloride	1400	Not Detected	4900	Not Detected
Methyl tert-butyl ether	1400	Not Detected	5100	Not Detected
trans-1,2-Dichloroethene	1400	Not Detected	5600	Not Detected
Hexane	1400	2600	5000	9100
1,1-Dichloroethane	1400	Not Detected	5700	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5600	Not Detected	17000	Not Detected
cis-1,2-Dichloroethene	1400	Not Detected	5600	Not Detected
Tetrahydrofuran	1400	Not Detected	4200	Not Detected
Chloroform	1400	Not Detected	6900	Not Detected
1,1,1-Trichloroethane	1400	Not Detected	7700	Not Detected
Cyclohexane	1400	47000	4800	160000
Carbon Tetrachloride	1400	Not Detected	8900	Not Detected
2,2,4-Trimethylpentane	1400	91000	6600	420000
Benzene	1400	380000	4500	1200000
1,2-Dichloroethane	1400	Not Detected	5700	Not Detected
Heptane	1400	Not Detected	5800	Not Detected
Trichloroethene	1400	Not Detected	7600	Not Detected
1,2-Dichloropropane	1400	Not Detected	6500	Not Detected
1,4-Dioxane	5600	Not Detected	20000	Not Detected
Bromodichloromethane	1400	Not Detected	9400	Not Detected
cis-1,3-Dichloropropene	1400	Not Detected	6400	Not Detected
4-Methyl-2-pentanone	1400	Not Detected	5800	Not Detected
Toluene	1400	Not Detected	5300	Not Detected
trans-1,3-Dichloropropene	1400	Not Detected	6400	Not Detected
1,1,2-Trichloroethane	1400	Not Detected	7700	Not Detected
Tetrachloroethene	1400	Not Detected	9600	Not Detected

Client Sample ID: VMP-12-11.5-080411

Lab ID#: 1108148A-09B

EPA METHOD TO-15 GC/MS

File Name:	14081612	Date of Collection: 8/4/11 12:09:00 PM
Dil. Factor:	282	Date of Analysis: 8/16/11 09:13 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5600	Not Detected	23000	Not Detected
Dibromochloromethane	1400	Not Detected	12000	Not Detected
1,2-Dibromoethane (EDB)	1400	Not Detected	11000	Not Detected
Chlorobenzene	1400	Not Detected	6500	Not Detected
Ethyl Benzene	1400	Not Detected	6100	Not Detected
m,p-Xylene	1400	Not Detected	6100	Not Detected
o-Xylene	1400	Not Detected	6100	Not Detected
Styrene	1400	Not Detected	6000	Not Detected
Bromoform	1400	Not Detected	14000	Not Detected
Cumene	1400	Not Detected	6900	Not Detected
1,1,2,2-Tetrachloroethane	1400	Not Detected	9700	Not Detected
Propylbenzene	1400	Not Detected	6900	Not Detected
4-Ethyltoluene	1400	Not Detected	6900	Not Detected
1,3,5-Trimethylbenzene	1400	Not Detected	6900	Not Detected
1,2,4-Trimethylbenzene	1400	Not Detected	6900	Not Detected
1,3-Dichlorobenzene	1400	Not Detected	8500	Not Detected
1,4-Dichlorobenzene	1400	Not Detected	8500	Not Detected
alpha-Chlorotoluene	1400	Not Detected	7300	Not Detected
1,2-Dichlorobenzene	1400	Not Detected	8500	Not Detected
1,2,4-Trichlorobenzene	5600	Not Detected	42000	Not Detected
Hexachlorobutadiene	5600	Not Detected	60000	Not Detected
Butane	5600	650000	13000	1500000
~~Isopentane~~	~~5600~~	~~1500000 E~~	~~17000~~	~~4300000 E~~

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

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

Client Sample ID: VMP-12-28-080411

Lab ID#: 1108148A-10A

EPA METHOD TO-15 GC/MS

** Use these results only. All other data was reported from the 550 dilution analysis.*

File Name:		14081623	Date of Collection: 8/4/11 1:36:00 PM	
Dil. Factor:		825	Date of Analysis: 8/16/11 02:00 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	4100	Not Detected	20000	Not Detected
Freon 114	4100	Not Detected	29000	Not Detected
Chloromethane	16000	Not Detected	34000	Not Detected
Vinyl Chloride	4100	Not Detected	10000	Not Detected
1,3-Butadiene	4100	Not Detected	9100	Not Detected
Bromomethane	4100	Not Detected	16000	Not Detected
Chloroethane	16000	Not Detected	44000	Not Detected
Freon 11	4100	Not Detected	23000	Not Detected
Ethanol	16000	Not Detected	31000	Not Detected
Freon 113	4100	Not Detected	32000	Not Detected
1,1-Dichloroethene	4100	Not Detected	16000	Not Detected
Acetone	16000	Not Detected	39000	Not Detected
2-Propanol	16000	Not Detected	40000	Not Detected
Carbon Disulfide	4100	Not Detected	13000	Not Detected
3-Chloropropene	16000	Not Detected	52000	Not Detected
Methylene Chloride	4100	Not Detected	14000	Not Detected
Methyl tert-butyl ether	4100	Not Detected	15000	Not Detected
trans-1,2-Dichloroethene	4100	Not Detected	16000	Not Detected
Hexane	4100	57000	14000	200000
1,1-Dichloroethane	4100	Not Detected	17000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	16000	Not Detected	49000	Not Detected
cis-1,2-Dichloroethene	4100	Not Detected	16000	Not Detected
Tetrahydrofuran	4100	Not Detected	12000	Not Detected
Chloroform	4100	Not Detected	20000	Not Detected
1,1,1-Trichloroethane	4100	Not Detected	22000	Not Detected
Cyclohexane	4100	98000	14000	340000
Carbon Tetrachloride	4100	Not Detected	26000	Not Detected
2,2,4-Trimethylpentane	4100	160000	19000	730000
Benzene	4100	1100000	13000	3500000
1,2-Dichloroethane	4100	Not Detected	17000	Not Detected
Heptane	4100	Not Detected	17000	Not Detected
Trichloroethene	4100	Not Detected	22000	Not Detected
1,2-Dichloropropane	4100	Not Detected	19000	Not Detected
1,4-Dioxane	16000	Not Detected	59000	Not Detected
Bromodichloromethane	4100	Not Detected	28000	Not Detected
cis-1,3-Dichloropropene	4100	Not Detected	19000	Not Detected
4-Methyl-2-pentanone	4100	Not Detected	17000	Not Detected
Toluene	4100	Not Detected	16000	Not Detected
trans-1,3-Dichloropropene	4100	Not Detected	19000	Not Detected
1,1,2-Trichloroethane	4100	Not Detected	22000	Not Detected
Tetrachloroethene	4100	Not Detected	28000	Not Detected

Client Sample ID: VMP-12-28-080411

Lab ID#: 1108148A-10A

EPA METHOD TO-15 GC/MS

File Name:	14081623	Date of Collection: 8/4/11 1:36:00 PM
Dil. Factor:	825	Date of Analysis: 8/16/11 02:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	16000	Not Detected	68000	Not Detected
Dibromochloromethane	4100	Not Detected	35000	Not Detected
1,2-Dibromoethane (EDB)	4100	Not Detected	32000	Not Detected
Chlorobenzene	4100	Not Detected	19000	Not Detected
Ethyl Benzene	4100	Not Detected	18000	Not Detected
m,p-Xylene	4100	Not Detected	18000	Not Detected
o-Xylene	4100	Not Detected	18000	Not Detected
Styrene	4100	Not Detected	18000	Not Detected
Bromoform	4100	Not Detected	43000	Not Detected
Cumene	4100	Not Detected	20000	Not Detected
1,1,2,2-Tetrachloroethane	4100	Not Detected	28000	Not Detected
Propylbenzene	4100	Not Detected	20000	Not Detected
4-Ethyltoluene	4100	Not Detected	20000	Not Detected
1,3,5-Trimethylbenzene	4100	Not Detected	20000	Not Detected
1,2,4-Trimethylbenzene	4100	Not Detected	20000	Not Detected
1,3-Dichlorobenzene	4100	Not Detected	25000	Not Detected
1,4-Dichlorobenzene	4100	Not Detected	25000	Not Detected
alpha-Chlorotoluene	4100	Not Detected	21000	Not Detected
1,2-Dichlorobenzene	4100	Not Detected	25000	Not Detected
1,2,4-Trichlorobenzene	16000	Not Detected	120000	Not Detected
Hexachlorobutadiene	16000	Not Detected	180000	Not Detected
Butane	16000	1600000	39000	3900000
Isopentane	16000	3100000	49000	9200000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: VMP-12-28-080411

Lab ID#: 1108148A-10B

EPA METHOD TO-15 GC/MS

**Do not use these results. Use all other data.*

File Name:	14081622	Date of Collection: 8/4/11 1:36:00 PM		
Dil. Factor:	550	Date of Analysis: 8/16/11 01:21 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2800	Not Detected	14000	Not Detected
Freon 114	2800	Not Detected	19000	Not Detected
Chloromethane	11000	Not Detected	23000	Not Detected
Vinyl Chloride	2800	Not Detected	7000	Not Detected
1,3-Butadiene	2800	Not Detected	6100	Not Detected
Bromomethane	2800	Not Detected	11000	Not Detected
Chloroethane	11000	Not Detected	29000	Not Detected
Freon 11	2800	Not Detected	15000	Not Detected
Ethanol	11000	Not Detected	21000	Not Detected
Freon 113	2800	Not Detected	21000	Not Detected
1,1-Dichloroethene	2800	Not Detected	11000	Not Detected
Acetone	11000	Not Detected	26000	Not Detected
2-Propanol	11000	Not Detected	27000	Not Detected
Carbon Disulfide	2800	Not Detected	8600	Not Detected
3-Chloropropene	11000	Not Detected	34000	Not Detected
Methylene Chloride	2800	Not Detected	9600	Not Detected
Methyl tert-butyl ether	2800	Not Detected	9900	Not Detected
trans-1,2-Dichloroethene	2800	Not Detected	11000	Not Detected
Hexane	2800	54000	9700	190000
1,1-Dichloroethane	2800	Not Detected	11000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	11000	Not Detected	32000	Not Detected
cis-1,2-Dichloroethene	2800	Not Detected	11000	Not Detected
Tetrahydrofuran	2800	Not Detected	8100	Not Detected
Chloroform	2800	Not Detected	13000	Not Detected
1,1,1-Trichloroethane	2800	Not Detected	15000	Not Detected
Cyclohexane	2800	93000	9500	320000
Carbon Tetrachloride	2800	Not Detected	17000	Not Detected
2,2,4-Trimethylpentane	2800	150000	13000	720000
Benzene	2800	1100000	8800	3500000
1,2-Dichloroethane	2800	Not Detected	11000	Not Detected
Heptane	2800	2200 J	11000	9200 J
Trichloroethene	2800	Not Detected	15000	Not Detected
1,2-Dichloropropane	2800	Not Detected	13000	Not Detected
1,4-Dioxane	11000	Not Detected	40000	Not Detected
Bromodichloromethane	2800	Not Detected	18000	Not Detected
cis-1,3-Dichloropropene	2800	Not Detected	12000	Not Detected
4-Methyl-2-pentanone	2800	Not Detected	11000	Not Detected
Toluene	2800	Not Detected	10000	Not Detected
trans-1,3-Dichloropropene	2800	Not Detected	12000	Not Detected
1,1,2-Trichloroethane	2800	Not Detected	15000	Not Detected
Tetrachloroethene	2800	Not Detected	19000	Not Detected

Client Sample ID: VMP-12-28-080411

Lab ID#: 1108148A-10B

EPA METHOD TO-15 GC/MS

File Name: 14081622 Date of Collection: 8/4/11 1:36:00 PM
Dil. Factor: 550 Date of Analysis: 8/16/11 01:21 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	11000	Not Detected	45000	Not Detected
Dibromochloromethane	2800	Not Detected	23000	Not Detected
1,2-Dibromoethane (EDB)	2800	Not Detected	21000	Not Detected
Chlorobenzene	2800	Not Detected	13000	Not Detected
Ethyl Benzene	2800	Not Detected	12000	Not Detected
m,p-Xylene	2800	Not Detected	12000	Not Detected
o-Xylene	2800	Not Detected	12000	Not Detected
Styrene	2800	Not Detected	12000	Not Detected
Bromoform	2800	Not Detected	28000	Not Detected
Cumene	2800	Not Detected	14000	Not Detected
1,1,2,2-Tetrachloroethane	2800	Not Detected	19000	Not Detected
Propylbenzene	2800	Not Detected	14000	Not Detected
4-Ethyltoluene	2800	Not Detected	14000	Not Detected
1,3,5-Trimethylbenzene	2800	Not Detected	14000	Not Detected
1,2,4-Trimethylbenzene	2800	Not Detected	14000	Not Detected
1,3-Dichlorobenzene	2800	Not Detected	16000	Not Detected
1,4-Dichlorobenzene	2800	Not Detected	16000	Not Detected
alpha-Chlorotoluene	2800	Not Detected	14000	Not Detected
1,2-Dichlorobenzene	2800	Not Detected	16000	Not Detected
1,2,4-Trichlorobenzene	11000	Not Detected	82000	Not Detected
Hexachlorobutadiene	11000	Not Detected	120000	Not Detected
Butane	11000	1700000	26000	4000000
Isopentane	11000	3100000 E	32000	9000000 E

J = Estimated value.

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: Lab Blank

Lab ID#: 1108148A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2081206a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/12/11 09:09 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	1.2 J	3.8	2.3 J
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	0.12 J	1.7	0.42 J
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1108148A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2081206a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/12/11 09:09 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2.0	0.15 J	8.2	0.63 J
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	0.064 J	2.4	0.32 J
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	0.079 J	2.4	0.39 J
1,3-Dichlorobenzene	0.50	0.15 J	3.0	0.89 J
1,4-Dichlorobenzene	0.50	0.18 J	3.0	1.1 J
alpha-Chlorotoluene	0.50	0.097 J	2.6	0.50 J
1,2-Dichlorobenzene	0.50	0.17 J	3.0	1.0 J
1,2,4-Trichlorobenzene	2.0	0.39 J	15	2.9 J
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	93	70-130

Client Sample ID: Lab Blank

Lab ID#: 1108148A-11B

EPA METHOD TO-15 GC/MS

File Name:	14081507a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 07:14 AM

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

Client Sample ID: Lab Blank

Lab ID#: 1108148A-11B

EPA METHOD TO-15 GC/MS

File Name:	14081507a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 07:14 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	1.1 J	30	6.7 J
alpha-Chlorotoluene	5.0	1.9 J	26	9.9 J
1,2-Dichlorobenzene	5.0	1.1 J	30	6.8 J
1,2,4-Trichlorobenzene	20	13 J	150	94 J
Hexachlorobutadiene	20	7.2 J	210	76 J
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	90	70-130

Client Sample ID: Lab Blank

Lab ID#: 1108148A-11C

EPA METHOD TO-15 GC/MS

File Name:	14081607c	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 07:17 AM

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

Client Sample ID: Lab Blank

Lab ID#: 1108148A-11C

EPA METHOD TO-15 GC/MS

File Name:	14081607c	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 07:17 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	1.1 J	26	5.7 J
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	11 J	150	82 J
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: CCV

Lab ID#: 1108148A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2081203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/12/11 07:18 AM

Compound	%Recovery
Freon 12	93
Freon 114	94
Chloromethane	90
Vinyl Chloride	95
1,3-Butadiene	89
Bromomethane	102
Chloroethane	102
Freon 11	89
Ethanol	99
Freon 113	88
1,1-Dichloroethene	85
Acetone	100
2-Propanol	84
Carbon Disulfide	91
3-Chloropropene	94
Methylene Chloride	86
Methyl tert-butyl ether	79
trans-1,2-Dichloroethene	84
Hexane	84
1,1-Dichloroethane	82
2-Butanone (Methyl Ethyl Ketone)	91
cis-1,2-Dichloroethene	85
Tetrahydrofuran	85
Chloroform	85
1,1,1-Trichloroethane	85
Cyclohexane	86
Carbon Tetrachloride	87
2,2,4-Trimethylpentane	87
Benzene	82
1,2-Dichloroethane	81
Heptane	84
Trichloroethene	87
1,2-Dichloropropane	85
1,4-Dioxane	84
Bromodichloromethane	86
cis-1,3-Dichloropropene	86
4-Methyl-2-pentanone	90
Toluene	84
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	82
Tetrachloroethene	84

Client Sample ID: CCV

Lab ID#: 1108148A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2081203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/12/11 07:18 AM

Compound	%Recovery
2-Hexanone	86
Dibromochloromethane	86
1,2-Dibromoethane (EDB)	86
Chlorobenzene	85
Ethyl Benzene	87
m,p-Xylene	93
o-Xylene	96
Styrene	91
Bromoform	90
Cumene	99
1,1,2,2-Tetrachloroethane	85
Propylbenzene	102
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	95
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	101
1,2-Dichlorobenzene	93
1,2,4-Trichlorobenzene	79
Hexachlorobutadiene	100
Butane	96
Isopentane	93

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	108	70-130

Client Sample ID: CCV

Lab ID#: 1108148A-12B

EPA METHOD TO-15 GC/MS

File Name:	14081502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 05:39 AM

Compound	%Recovery
Freon 12	99
Freon 114	102
Chloromethane	104
Vinyl Chloride	114
1,3-Butadiene	117
Bromomethane	101
Chloroethane	103
Freon 11	99
Ethanol	103
Freon 113	100
1,1-Dichloroethene	107
Acetone	102
2-Propanol	104
Carbon Disulfide	98
3-Chloropropene	96
Methylene Chloride	102
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	100
Hexane	101
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	98
Tetrahydrofuran	104
Chloroform	100
1,1,1-Trichloroethane	102
Cyclohexane	101
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	100
Benzene	98
1,2-Dichloroethane	98
Heptane	100
Trichloroethene	99
1,2-Dichloropropane	99
1,4-Dioxane	99
Bromodichloromethane	100
cis-1,3-Dichloropropene	99
4-Methyl-2-pentanone	104
Toluene	99
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	101
Tetrachloroethene	93

Client Sample ID: CCV

Lab ID#: 1108148A-12B

EPA METHOD TO-15 GC/MS

File Name:	14081502	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 05:39 AM

Compound	%Recovery
2-Hexanone	102
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	101
Chlorobenzene	100
Ethyl Benzene	101
m,p-Xylene	104
o-Xylene	103
Styrene	108
Bromoform	102
Cumene	107
1,1,2,2-Tetrachloroethane	96
Propylbenzene	104
4-Ethyltoluene	107
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	131 Q
1,2-Dichlorobenzene	105
1,2,4-Trichlorobenzene	90
Hexachlorobutadiene	98
Butane	107
Isopentane	100

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: CCV

Lab ID#: 1108148A-12C

EPA METHOD TO-15 GC/MS

File Name:	14081602	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 05:40 AM

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

Client Sample ID: CCV

Lab ID#: 1108148A-12C

EPA METHOD TO-15 GC/MS

File Name:	14081602	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 05:40 AM

Compound	%Recovery
2-Hexanone	100
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	102
Chlorobenzene	102
Ethyl Benzene	101
m,p-Xylene	104
o-Xylene	107
Styrene	109
Bromoform	104
Cumene	110
1,1,2,2-Tetrachloroethane	94
Propylbenzene	107
4-Ethyltoluene	112
1,3,5-Trimethylbenzene	112
1,2,4-Trimethylbenzene	110
1,3-Dichlorobenzene	112
1,4-Dichlorobenzene	112
alpha-Chlorotoluene	129
1,2-Dichlorobenzene	115
1,2,4-Trichlorobenzene	114
Hexachlorobutadiene	119
Butane	108
Isopentane	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: LCS

Lab ID#: 1108148A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2081204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/12/11 07:51 AM

Compound	%Recovery
Freon 12	81
Freon 114	84
Chloromethane	86
Vinyl Chloride	84
1,3-Butadiene	80
Bromomethane	92
Chloroethane	88
Freon 11	80
Ethanol	88
Freon 113	83
1,1-Dichloroethene	88
Acetone	96
2-Propanol	83
Carbon Disulfide	102
3-Chloropropene	102
Methylene Chloride	81
Methyl tert-butyl ether	79
trans-1,2-Dichloroethene	91
Hexane	78
1,1-Dichloroethane	79
2-Butanone (Methyl Ethyl Ketone)	89
cis-1,2-Dichloroethene	83
Tetrahydrofuran	78
Chloroform	81
1,1,1-Trichloroethane	82
Cyclohexane	82
Carbon Tetrachloride	83
2,2,4-Trimethylpentane	80
Benzene	80
1,2-Dichloroethane	77
Heptane	78
Trichloroethene	83
1,2-Dichloropropane	81
1,4-Dioxane	80
Bromodichloromethane	81
cis-1,3-Dichloropropene	82
4-Methyl-2-pentanone	83
Toluene	78
trans-1,3-Dichloropropene	86
1,1,2-Trichloroethane	81
Tetrachloroethene	80

Client Sample ID: LCS

Lab ID#: 1108148A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2081204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/12/11 07:51 AM

Compound	%Recovery
2-Hexanone	80
Dibromochloromethane	81
1,2-Dibromoethane (EDB)	83
Chlorobenzene	82
Ethyl Benzene	83
m,p-Xylene	90
o-Xylene	90
Styrene	83
Bromoform	82
Cumene	94
1,1,2,2-Tetrachloroethane	82
Propylbenzene	94
4-Ethyltoluene	92
1,3,5-Trimethylbenzene	88
1,2,4-Trimethylbenzene	86
1,3-Dichlorobenzene	88
1,4-Dichlorobenzene	90
alpha-Chlorotoluene	94
1,2-Dichlorobenzene	89
1,2,4-Trichlorobenzene	77
Hexachlorobutadiene	93
Butane	84
Isopentane	86

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	105	70-130

Client Sample ID: LCS D

Lab ID#: 1108148A-13AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2081205	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/12/11 08:25 AM

Compound	%Recovery
Freon 12	77
Freon 114	81
Chloromethane	82
Vinyl Chloride	81
1,3-Butadiene	78
Bromomethane	88
Chloroethane	87
Freon 11	76
Ethanol	86
Freon 113	81
1,1-Dichloroethene	84
Acetone	92
2-Propanol	79
Carbon Disulfide	97
3-Chloropropene	98
Methylene Chloride	78
Methyl tert-butyl ether	76
trans-1,2-Dichloroethene	86
Hexane	76
1,1-Dichloroethane	76
2-Butanone (Methyl Ethyl Ketone)	83
cis-1,2-Dichloroethene	79
Tetrahydrofuran	76
Chloroform	78
1,1,1-Trichloroethane	79
Cyclohexane	80
Carbon Tetrachloride	79
2,2,4-Trimethylpentane	77
Benzene	77
1,2-Dichloroethane	74
Heptane	76
Trichloroethene	80
1,2-Dichloropropane	78
1,4-Dioxane	78
Bromodichloromethane	78
cis-1,3-Dichloropropene	80
4-Methyl-2-pentanone	80
Toluene	75
trans-1,3-Dichloropropene	82
1,1,2-Trichloroethane	77
Tetrachloroethene	78

Client Sample ID: LCSD

Lab ID#: 1108148A-13AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2081205	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/12/11 08:25 AM

Compound	%Recovery
2-Hexanone	76
Dibromochloromethane	78
1,2-Dibromoethane (EDB)	79
Chlorobenzene	78
Ethyl Benzene	79
m,p-Xylene	85
o-Xylene	86
Styrene	79
Bromoform	80
Cumene	89
1,1,2,2-Tetrachloroethane	80
Propylbenzene	91
4-Ethyltoluene	87
1,3,5-Trimethylbenzene	83
1,2,4-Trimethylbenzene	83
1,3-Dichlorobenzene	86
1,4-Dichlorobenzene	87
alpha-Chlorotoluene	90
1,2-Dichlorobenzene	85
1,2,4-Trichlorobenzene	76
Hexachlorobutadiene	89
Butane	80
Isopentane	84

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	107	70-130

Client Sample ID: LCS

Lab ID#: 1108148A-13B

EPA METHOD TO-15 GC/MS

File Name:	14081505	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 06:37 AM

Compound	%Recovery
Freon 12	90
Freon 114	92
Chloromethane	101
Vinyl Chloride	103
1,3-Butadiene	101
Bromomethane	95
Chloroethane	94
Freon 11	92
Ethanol	92
Freon 113	92
1,1-Dichloroethene	106
Acetone	93
2-Propanol	94
Carbon Disulfide	109
3-Chloropropene	101
Methylene Chloride	91
Methyl tert-butyl ether	97
trans-1,2-Dichloroethene	104
Hexane	92
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	95
cis-1,2-Dichloroethene	93
Tetrahydrofuran	92
Chloroform	94
1,1,1-Trichloroethane	91
Cyclohexane	95
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	90
Benzene	93
1,2-Dichloroethane	89
Heptane	93
Trichloroethene	90
1,2-Dichloropropane	91
1,4-Dioxane	93
Bromodichloromethane	92
cis-1,3-Dichloropropene	91
4-Methyl-2-pentanone	92
Toluene	92
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	90
Tetrachloroethene	82

Client Sample ID: LCS

Lab ID#: 1108148A-13B

EPA METHOD TO-15 GC/MS

File Name:	14081505	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 06:37 AM

Compound	%Recovery
2-Hexanone	90
Dibromochloromethane	92
1,2-Dibromoethane (EDB)	94
Chlorobenzene	92
Ethyl Benzene	93
m,p-Xylene	100
o-Xylene	94
Styrene	100
Bromoform	88
Cumene	102
1,1,2,2-Tetrachloroethane	94
Propylbenzene	101
4-Ethyltoluene	98
1,3,5-Trimethylbenzene	103
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	119
1,2-Dichlorobenzene	109
1,2,4-Trichlorobenzene	145 Q
Hexachlorobutadiene	142 Q
Butane	89
Isopentane	91

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: LCSD

Lab ID#: 1108148A-13BB

EPA METHOD TO-15 GC/MS

File Name:	14081506	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 06:55 AM

Compound	%Recovery
Freon 12	86
Freon 114	90
Chloromethane	96
Vinyl Chloride	100
1,3-Butadiene	97
Bromomethane	89
Chloroethane	89
Freon 11	89
Ethanol	97
Freon 113	87
1,1-Dichloroethene	96
Acetone	87
2-Propanol	91
Carbon Disulfide	103
3-Chloropropene	100
Methylene Chloride	90
Methyl tert-butyl ether	93
trans-1,2-Dichloroethene	97
Hexane	84
1,1-Dichloroethane	87
2-Butanone (Methyl Ethyl Ketone)	88
cis-1,2-Dichloroethene	89
Tetrahydrofuran	86
Chloroform	88
1,1,1-Trichloroethane	88
Cyclohexane	91
Carbon Tetrachloride	89
2,2,4-Trimethylpentane	86
Benzene	90
1,2-Dichloroethane	87
Heptane	90
Trichloroethene	88
1,2-Dichloropropane	88
1,4-Dioxane	92
Bromodichloromethane	88
cis-1,3-Dichloropropene	91
4-Methyl-2-pentanone	94
Toluene	88
trans-1,3-Dichloropropene	94
1,1,2-Trichloroethane	91
Tetrachloroethene	83

Client Sample ID: LCSD

Lab ID#: 1108148A-13BB

EPA METHOD TO-15 GC/MS

File Name:	14081506	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 06:55 AM

Compound	%Recovery
2-Hexanone	91
Dibromochloromethane	91
1,2-Dibromoethane (EDB)	94
Chlorobenzene	93
Ethyl Benzene	93
m,p-Xylene	95
o-Xylene	96
Styrene	100
Bromoform	89
Cumene	100
1,1,2,2-Tetrachloroethane	93
Propylbenzene	101
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	99
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	119
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	150 Q
Hexachlorobutadiene	146 Q
Butane	87
Isopentane	84

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: LCS

Lab ID#: 1108148A-13C

EPA METHOD TO-15 GC/MS

File Name:	14081605	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 06:37 AM

Compound	%Recovery
Freon 12	87
Freon 114	89
Chloromethane	93
Vinyl Chloride	97
1,3-Butadiene	98
Bromomethane	90
Chloroethane	87
Freon 11	88
Ethanol	81
Freon 113	89
1,1-Dichloroethene	97
Acetone	80
2-Propanol	87
Carbon Disulfide	102
3-Chloropropene	91
Methylene Chloride	85
Methyl tert-butyl ether	90
trans-1,2-Dichloroethene	96
Hexane	84
1,1-Dichloroethane	86
2-Butanone (Methyl Ethyl Ketone)	86
cis-1,2-Dichloroethene	88
Tetrahydrofuran	83
Chloroform	87
1,1,1-Trichloroethane	88
Cyclohexane	89
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	84
Benzene	85
1,2-Dichloroethane	82
Heptane	84
Trichloroethene	86
1,2-Dichloropropane	84
1,4-Dioxane	88
Bromodichloromethane	85
cis-1,3-Dichloropropene	85
4-Methyl-2-pentanone	88
Toluene	86
trans-1,3-Dichloropropene	88
1,1,2-Trichloroethane	86
Tetrachloroethene	83

Client Sample ID: LCS

Lab ID#: 1108148A-13C

EPA METHOD TO-15 GC/MS

File Name:	14081605	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 06:37 AM

Compound	%Recovery
2-Hexanone	87
Dibromochloromethane	91
1,2-Dibromoethane (EDB)	91
Chlorobenzene	91
Ethyl Benzene	91
m,p-Xylene	95
o-Xylene	94
Styrene	97
Bromoform	88
Cumene	99
1,1,2,2-Tetrachloroethane	89
Propylbenzene	99
4-Ethyltoluene	99
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	110
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	158 Q
Hexachlorobutadiene	152 Q
Butane	86
Isopentane	81

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: LCSD

Lab ID#: 1108148A-13CC

EPA METHOD TO-15 GC/MS

File Name:	14081606	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 06:55 AM

Compound	%Recovery
Freon 12	85
Freon 114	90
Chloromethane	91
Vinyl Chloride	97
1,3-Butadiene	94
Bromomethane	91
Chloroethane	85
Freon 11	89
Ethanol	82
Freon 113	93
1,1-Dichloroethene	94
Acetone	85
2-Propanol	87
Carbon Disulfide	101
3-Chloropropene	94
Methylene Chloride	82
Methyl tert-butyl ether	90
trans-1,2-Dichloroethene	95
Hexane	84
1,1-Dichloroethane	85
2-Butanone (Methyl Ethyl Ketone)	89
cis-1,2-Dichloroethene	86
Tetrahydrofuran	84
Chloroform	86
1,1,1-Trichloroethane	88
Cyclohexane	88
Carbon Tetrachloride	91
2,2,4-Trimethylpentane	83
Benzene	86
1,2-Dichloroethane	84
Heptane	84
Trichloroethene	86
1,2-Dichloropropane	84
1,4-Dioxane	87
Bromodichloromethane	83
cis-1,3-Dichloropropene	89
4-Methyl-2-pentanone	90
Toluene	87
trans-1,3-Dichloropropene	88
1,1,2-Trichloroethane	86
Tetrachloroethene	84

Client Sample ID: LCSD

Lab ID#: 1108148A-13CC

EPA METHOD TO-15 GC/MS

File Name:	14081606	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 06:55 AM

Compound	%Recovery
2-Hexanone	87
Dibromochloromethane	90
1,2-Dibromoethane (EDB)	92
Chlorobenzene	90
Ethyl Benzene	90
m,p-Xylene	95
o-Xylene	93
Styrene	96
Bromoform	88
Cumene	98
1,1,2,2-Tetrachloroethane	86
Propylbenzene	96
4-Ethyltoluene	98
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	114
1,2-Dichlorobenzene	111
1,2,4-Trichlorobenzene	162 Q
Hexachlorobutadiene	147 Q
Butane	83
Isopentane	81

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	100	70-130

8/18/2011

Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562593.00009
Workorder #: 1108148B

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 8/5/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

Reviewed
on
9/6/2011

WORK ORDER #: 1108148B

Work Order Summary

CLIENT: Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-429-0100

P.O. # 21562593.00009

FAX:

PROJECT # 21562593.00009 Roxana Soil Vapor

DATE RECEIVED: 08/05/2011

CONTACT: Kelly Buettner

DATE COMPLETED: 08/18/2011

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-4-5-080311	Modified ASTM D-1946	10.5 "Hg	15 psi
02A	VMP-4-12-080311	Modified ASTM D-1946	9.0 "Hg	15 psi
03A	VMP-4-12-080311-Dup	Modified ASTM D-1946	9.0 "Hg	15 psi
04A	VMP-7-13.5-080311	Modified ASTM D-1946	9.0 "Hg	15 psi
05A	VMP-7-29.5-080311	Modified ASTM D-1946	9.5 "Hg	15 psi
06A	VMP-3-10-080311	Modified ASTM D-1946	1.5 "Hg	15 psi
07A	VMP-3-39-080311	Modified ASTM D-1946	12.0 "Hg	15 psi
08A	VMP-12-5-080411	Modified ASTM D-1946	9.0 "Hg	15 psi
09A	VMP-12-11.5-080411	Modified ASTM D-1946	8.5 "Hg	15 psi
10A	VMP-12-28-080411	Modified ASTM D-1946	7.0 "Hg	15 psi
11A	Lab Blank	Modified ASTM D-1946	NA	NA
11B	Lab Blank	Modified ASTM D-1946	NA	NA
12A	LCS	Modified ASTM D-1946	NA	NA
12AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY:

Sandra J. Freeman

Laboratory Director

DATE: 08/18/11

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,

NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1108148B**

Ten 1 Liter Summa Canister samples were received on August 05, 2011. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

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

<i>Requirement</i>	<i>ASTM D-1946</i>	<i>ATL Modifications</i>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections $> 5 \times$ the RL.

Receiving Notes

The Chain of Custody (COC) information for sample VMP-4-12-080311-Dup did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the sample(s).

The Chain of Custody (COC) information for sample VMP-12-28-080411 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

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 detection limit.

M - Reported value may be biased due to apparent matrix interferences.

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

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-4-5-080311

Lab ID#: 1108148B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	8.4
Nitrogen	0.31	80
Methane	0.00031	0.010
Carbon Dioxide	0.031	11
Helium	0.16	0.012 J

Client Sample ID: VMP-4-12-080311

Lab ID#: 1108148B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	1.6
Nitrogen	0.29	75
Methane	0.00029	6.9
Carbon Dioxide	0.029	15
Ethane	0.0029	0.0018 J
Helium	0.14	1.0

Client Sample ID: VMP-4-12-080311-Dup

Lab ID#: 1108148B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	1.7
Nitrogen	0.29	75
Methane	0.00029	6.9
Carbon Dioxide	0.029	15
Ethane	0.0029	0.0018 J
Helium	0.14	1.0

Client Sample ID: VMP-7-13.5-080311

Lab ID#: 1108148B-04A

Summary of Detected Compounds

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-7-13.5-080311

Lab ID#: 1108148B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	1.6
Nitrogen	0.29	79
Methane	0.00029	1.9
Carbon Dioxide	0.029	17
Ethane	0.0029	0.00029 J
Helium	0.14	0.012 J

Client Sample ID: VMP-7-29.5-080311

Lab ID#: 1108148B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	1.4
Nitrogen	0.30	80
Methane	0.00030	3.6
Carbon Dioxide	0.030	15
Ethane	0.0030	0.00071 J
Helium	0.15	0.0071 J

Client Sample ID: VMP-3-10-080311

Lab ID#: 1108148B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	6.9
Nitrogen	0.21	78
Methane	0.00021	0.29
Carbon Dioxide	0.021	14
Helium	0.11	0.29

Client Sample ID: VMP-3-39-080311

* **Lab ID#: 1108148B-07A** *Do not use these results, please see Section 1.0 of Data Review.*

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-3-39-080311

✓ Lab ID#: 1108148B-07A

Do not use these results. Please see section 1.0 of Data Review.

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.34	1.5
Nitrogen	0.34	9.5
Helium	0.17	89

Client Sample ID: VMP-12-5-080411

Lab ID#: 1108148B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	2.1
Nitrogen	0.29	61
Methane	0.00029	24
Carbon Dioxide	0.029	12
Ethane	0.0029	0.00068 J
Helium	0.14	0.062 J

Client Sample ID: VMP-12-11.5-080411

Lab ID#: 1108148B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.7
Nitrogen	0.28	64
Methane	0.00028	21
Carbon Dioxide	0.028	12
Ethane	0.0028	0.00052 J

Client Sample ID: VMP-12-28-080411

Lab ID#: 1108148B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	2.2
Nitrogen	0.26	49

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-12-28-080411

Lab ID#: 1108148B-10A

Methane	0.00026	35
Carbon Dioxide	0.026	12
Ethane	0.0026	0.0010 J
Helium	0.13	0.013 J

Client Sample ID: VMP-4-5-080311

Lab ID#: 1108148B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081216	Date of Collection: 8/3/11 3:06:00 PM
Dil. Factor:	3.11	Date of Analysis: 8/12/11 01:00 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.31	8.4
Nitrogen	0.31	80
Carbon Monoxide	0.031	Not Detected
Methane	0.00031	0.010
Carbon Dioxide	0.031	11
Ethane	0.0031	Not Detected
Ethene	0.0031	Not Detected
Helium	0.16	0.012 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-4-12-080311

Lab ID#: 1108148B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081222	Date of Collection: 8/3/11 4:11:00 PM
Dil. Factor:	2.89	Date of Analysis: 8/12/11 03:31 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	1.6
Nitrogen	0.29	75
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	6.9
Carbon Dioxide	0.029	15
Ethane	0.0029	0.0018 J
Ethene	0.0029	Not Detected
Helium	0.14	1.0

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-4-12-080311-Dup

Lab ID#: 1108148B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081223	Date of Collection: 8/3/11 4:11:00 PM
Dil. Factor:	2.89	Date of Analysis: 8/12/11 03:56 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	1.7
Nitrogen	0.29	75
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	6.9
Carbon Dioxide	0.029	15
Ethane	0.0029	0.0018 J
Ethene	0.0029	Not Detected
Helium	0.14	1.0

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-7-13.5-080311

Lab ID#: 1108148B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081224	Date of Collection: 8/3/11 9:26:00 AM
Dil. Factor:	2.89	Date of Analysis: 8/12/11 04:22 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	1.6
Nitrogen	0.29	79
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	1.9
Carbon Dioxide	0.029	17
Ethane	0.0029	0.00029 J
Ethene	0.0029	Not Detected
Helium	0.14	0.012 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-7-29.5-080311

Lab ID#: 1108148B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081225	Date of Collection: 8/3/11 10:42:00 AM
Dil. Factor:	2.96	Date of Analysis: 8/12/11 05:15 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	1.4
Nitrogen	0.30	80
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	3.6
Carbon Dioxide	0.030	15
Ethane	0.0030	0.00071 J
Ethene	0.0030	Not Detected
Helium	0.15	0.0071 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-3-10-080311

Lab ID#: 1108148B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081217	Date of Collection: 8/3/11 11:43:00 AM
Dil. Factor:	2.13	Date of Analysis: 8/12/11 01:22 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.21	6.9
Nitrogen	0.21	78
Carbon Monoxide	0.021	Not Detected
Methane	0.00021	0.29
Carbon Dioxide	0.021	14
Ethane	0.0021	Not Detected
Ethene	0.0021	Not Detected
Helium	0.11	0.29

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-3-39-080311

Lab ID#: 1108148B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081218	Date of Collection: 8/3/11 10:36:00 AM
Dil. Factor:	3.37	Date of Analysis: 8/12/11 01:47 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.34	1.5
Nitrogen	0.34	9.5
Carbon Monoxide	0.034	Not Detected
Methane	0.00034	Not Detected
Carbon Dioxide	0.034	Not Detected
Ethane	0.0034	Not Detected
Ethene	0.0034	Not Detected
Helium	0.17	89

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-12-5-080411

Lab ID#: 1108148B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081219	Date of Collection:	8/4/11 10:47:00 AM
Dil. Factor:	2.89	Date of Analysis:	8/12/11 02:09 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	2.1
Nitrogen	0.29	61
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	24
Carbon Dioxide	0.029	12
Ethane	0.0029	0.00068 J
Ethene	0.0029	Not Detected
Helium	0.14	0.062 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-12-11.5-080411

Lab ID#: 1108148B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081220	Date of Collection:	8/4/11 12:09:00 PM
Dil. Factor:	2.82	Date of Analysis:	8/12/11 02:36 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.7
Nitrogen	0.28	64
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	21
Carbon Dioxide	0.028	12
Ethane	0.0028	0.00052 J
Ethene	0.0028	Not Detected
Helium	0.14	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-12-28-080411

Lab ID#: 1108148B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name: 9081221		Date of Collection: 8/4/11 1:36:00 PM
Dil. Factor: 2.64		Date of Analysis: 8/12/11 02:59 PM
Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	2.2
Nitrogen	0.26	49
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	35
Carbon Dioxide	0.026	12
Ethane	0.0026	0.0010 J
Ethene	0.0026	Not Detected
Helium	0.13	0.013 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: Lab Blank

Lab ID#: 1108148B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081205c	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/12/11 07:49 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	0.042 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Client Sample ID: Lab Blank

Lab ID#: 1108148B-11B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081204b	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/12/11 07:27 AM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

Client Sample ID: LCS

Lab ID#: 1108148B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081202	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/12/11 06:41 AM

Compound	%Recovery
Oxygen	99
Nitrogen	101
Carbon Monoxide	99
Methane	99
Carbon Dioxide	102
Ethane	102
Ethene	101
Helium	95

Container Type: NA - Not Applicable

Client Sample ID: LCSD

Lab ID#: 1108148B-12AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081232	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/12/11 08:39 PM

Compound	%Recovery
Oxygen	99
Nitrogen	100
Carbon Monoxide	99
Methane	101
Carbon Dioxide	102
Ethane	103
Ethene	102
Helium	95

Container Type: NA - Not Applicable

1108148

URS

Shell Oil Products Chain Of Custody Record

Air Toxics LTD. Project Name: Roxana Soil Vapor Project # 21562593.00009		Print Bill To Contact Name: Thomas Adams PO #		INCIDENT # / ENV SERVICES: 9 7 2 1 8 6 4 0 DATE: 08/04/11 PAGE: 1 of 1	
Lab Vendor # URS CORPORATION ADDRESS 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110 AIR TOXICS LTD. 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4718 FAX 314-429-0100 314-429-0462		RTZ ADDRESS, Street and City 900 SOUTH CENTRAL AVE - ROXANA ST. LOUIS, MO 63105 STREET ADDRESS TO HOME COMPANY ONLY (MAILING) Elizabeth Kunkel, URS, St. Louis 314-743-4179 W. Buchman, C. Knepper, C. Basse, B. Vorn		RTZ ADDRESS, Street and City 900 SOUTH CENTRAL AVE - ROXANA ST. LOUIS, MO 63105 STREET ADDRESS TO HOME COMPANY ONLY (MAILING) Elizabeth Kunkel, URS, St. Louis 314-743-4179 W. Buchman, C. Knepper, C. Basse, B. Vorn	
DELIVERABLES: ☐ LA - RHOQI REPORT FORWAY ☐ STANDARD (14 DAY) ☐ 3 DAYS ☐ 7 DAYS ☐ 14 DAYS ☐ 21 DAYS ☐ 28 DAYS ☐ 35 DAYS ☐ 42 DAYS ☐ 49 DAYS ☐ 56 DAYS ☐ 63 DAYS ☐ 70 DAYS ☐ 77 DAYS ☐ 84 DAYS ☐ 91 DAYS ☐ 98 DAYS ☐ 105 DAYS ☐ 112 DAYS ☐ 119 DAYS ☐ 126 DAYS ☐ 133 DAYS ☐ 140 DAYS ☐ 147 DAYS ☐ 154 DAYS ☐ 161 DAYS ☐ 168 DAYS ☐ 175 DAYS ☐ 182 DAYS ☐ 189 DAYS ☐ 196 DAYS ☐ 203 DAYS ☐ 210 DAYS ☐ 217 DAYS ☐ 224 DAYS ☐ 231 DAYS ☐ 238 DAYS ☐ 245 DAYS ☐ 252 DAYS ☐ 259 DAYS ☐ 266 DAYS ☐ 273 DAYS ☐ 280 DAYS ☐ 287 DAYS ☐ 294 DAYS ☐ 301 DAYS ☐ 308 DAYS ☐ 315 DAYS ☐ 322 DAYS ☐ 329 DAYS ☐ 336 DAYS ☐ 343 DAYS ☐ 350 DAYS ☐ 357 DAYS ☐ 364 DAYS ☐ 371 DAYS ☐ 378 DAYS ☐ 385 DAYS ☐ 392 DAYS ☐ 399 DAYS ☐ 406 DAYS ☐ 413 DAYS ☐ 420 DAYS ☐ 427 DAYS ☐ 434 DAYS ☐ 441 DAYS ☐ 448 DAYS ☐ 455 DAYS ☐ 462 DAYS ☐ 469 DAYS ☐ 476 DAYS ☐ 483 DAYS ☐ 490 DAYS ☐ 497 DAYS ☐ 504 DAYS ☐ 511 DAYS ☐ 518 DAYS ☐ 525 DAYS ☐ 532 DAYS ☐ 539 DAYS ☐ 546 DAYS ☐ 553 DAYS ☐ 560 DAYS ☐ 567 DAYS ☐ 574 DAYS ☐ 581 DAYS ☐ 588 DAYS ☐ 595 DAYS ☐ 602 DAYS ☐ 609 DAYS ☐ 616 DAYS ☐ 623 DAYS ☐ 630 DAYS ☐ 637 DAYS ☐ 644 DAYS ☐ 651 DAYS ☐ 658 DAYS ☐ 665 DAYS ☐ 672 DAYS ☐ 679 DAYS ☐ 686 DAYS ☐ 693 DAYS ☐ 700 DAYS ☐ 707 DAYS ☐ 714 DAYS ☐ 721 DAYS ☐ 728 DAYS ☐ 735 DAYS ☐ 742 DAYS ☐ 749 DAYS ☐ 756 DAYS ☐ 763 DAYS ☐ 770 DAYS ☐ 777 DAYS ☐ 784 DAYS ☐ 791 DAYS ☐ 798 DAYS ☐ 805 DAYS ☐ 812 DAYS ☐ 819 DAYS ☐ 826 DAYS ☐ 833 DAYS ☐ 840 DAYS ☐ 847 DAYS ☐ 854 DAYS ☐ 861 DAYS ☐ 868 DAYS ☐ 875 DAYS ☐ 882 DAYS ☐ 889 DAYS ☐ 896 DAYS ☐ 903 DAYS ☐ 910 DAYS ☐ 917 DAYS ☐ 924 DAYS ☐ 931 DAYS ☐ 938 DAYS ☐ 945 DAYS ☐ 952 DAYS ☐ 959 DAYS ☐ 966 DAYS ☐ 973 DAYS ☐ 980 DAYS ☐ 987 DAYS ☐ 994 DAYS ☐ 1001 DAYS ☐ 1008 DAYS ☐ 1015 DAYS ☐ 1022 DAYS ☐ 1029 DAYS ☐ 1036 DAYS ☐ 1043 DAYS ☐ 1050 DAYS ☐ 1057 DAYS ☐ 1064 DAYS ☐ 1071 DAYS ☐ 1078 DAYS ☐ 1085 DAYS ☐ 1092 DAYS ☐ 1099 DAYS ☐ 1106 DAYS ☐ 1113 DAYS ☐ 1120 DAYS ☐ 1127 DAYS ☐ 1134 DAYS ☐ 1141 DAYS ☐ 1148 DAYS ☐ 1155 DAYS ☐ 1162 DAYS ☐ 1169 DAYS ☐ 1176 DAYS ☐ 1183 DAYS ☐ 1190 DAYS ☐ 1197 DAYS ☐ 1204 DAYS ☐ 1211 DAYS ☐ 1218 DAYS ☐ 1225 DAYS ☐ 1232 DAYS ☐ 1239 DAYS ☐ 1246 DAYS ☐ 1253 DAYS ☐ 1260 DAYS ☐ 1267 DAYS ☐ 1274 DAYS ☐ 1281 DAYS ☐ 1288 DAYS ☐ 1295 DAYS ☐ 1302 DAYS ☐ 1309 DAYS ☐ 1316 DAYS ☐ 1323 DAYS ☐ 1330 DAYS ☐ 1337 DAYS ☐ 1344 DAYS ☐ 1351 DAYS ☐ 1358 DAYS ☐ 1365 DAYS ☐ 1372 DAYS ☐ 1379 DAYS ☐ 1386 DAYS ☐ 1393 DAYS ☐ 1400 DAYS ☐ 1407 DAYS ☐ 1414 DAYS ☐ 1421 DAYS ☐ 1428 DAYS ☐ 1435 DAYS ☐ 1442 DAYS ☐ 1449 DAYS ☐ 1456 DAYS ☐ 1463 DAYS ☐ 1470 DAYS ☐ 1477 DAYS ☐ 1484 DAYS ☐ 1491 DAYS ☐ 1498 DAYS ☐ 1505 DAYS ☐ 1512 DAYS ☐ 1519 DAYS ☐ 1526 DAYS ☐ 1533 DAYS ☐ 1540 DAYS ☐ 1547 DAYS ☐ 1554 DAYS ☐ 1561 DAYS ☐ 1568 DAYS ☐ 1575 DAYS ☐ 1582 DAYS ☐ 1589 DAYS ☐ 1596 DAYS ☐ 1603 DAYS ☐ 1610 DAYS ☐ 1617 DAYS ☐ 1624 DAYS ☐ 1631 DAYS ☐ 1638 DAYS ☐ 1645 DAYS ☐ 1652 DAYS ☐ 1659 DAYS ☐ 1666 DAYS ☐ 1673 DAYS ☐ 1680 DAYS ☐ 1687 DAYS ☐ 1694 DAYS ☐ 1701 DAYS ☐ 1708 DAYS ☐ 1715 DAYS ☐ 1722 DAYS ☐ 1729 DAYS ☐ 1736 DAYS ☐ 1743 DAYS ☐ 1750 DAYS ☐ 1757 DAYS ☐ 1764 DAYS ☐ 1771 DAYS ☐ 1778 DAYS ☐ 1785 DAYS ☐ 1792 DAYS ☐ 1799 DAYS ☐ 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DAYS ☐ 2394 DAYS ☐ 2401 DAYS ☐ 2408 DAYS ☐ 2415 DAYS ☐ 2422 DAYS ☐ 2429 DAYS ☐ 2436 DAYS ☐ 2443 DAYS ☐ 2450 DAYS ☐ 2457 DAYS ☐ 2464 DAYS ☐ 2471 DAYS ☐ 2478 DAYS ☐ 2485 DAYS ☐ 2492 DAYS ☐ 2499 DAYS ☐ 2506 DAYS ☐ 2513 DAYS ☐ 2520 DAYS ☐ 2527 DAYS ☐ 2534 DAYS ☐ 2541 DAYS ☐ 2548 DAYS ☐ 2555 DAYS ☐ 2562 DAYS ☐ 2569 DAYS ☐ 2576 DAYS ☐ 2583 DAYS ☐ 2590 DAYS ☐ 2597 DAYS ☐ 2604 DAYS ☐ 2611 DAYS ☐ 2618 DAYS ☐ 2625 DAYS ☐ 2632 DAYS ☐ 2639 DAYS ☐ 2646 DAYS ☐ 2653 DAYS ☐ 2660 DAYS ☐ 2667 DAYS ☐ 2674 DAYS ☐ 2681 DAYS ☐ 2688 DAYS ☐ 2695 DAYS ☐ 2702 DAYS ☐ 2709 DAYS ☐ 2716 DAYS ☐ 2723 DAYS ☐ 2730 DAYS ☐ 2737 DAYS ☐ 2744 DAYS ☐ 2751 DAYS ☐ 2758 DAYS ☐ 2765 DAYS ☐ 2772 DAYS ☐ 2779 DAYS ☐ 2786 DAYS ☐ 2793 DAYS ☐ 2800 DAYS ☐ 2807 DAYS ☐ 2814 DAYS ☐ 2821 DAYS ☐ 2828 DAYS ☐ 2835 DAYS ☐ 2842 DAYS ☐ 2849 DAYS ☐ 2856 DAYS ☐ 2863 DAYS ☐ 2870 DAYS ☐ 2877 DAYS ☐ 2884 DAYS ☐ 2891 DAYS ☐ 2898 DAYS ☐ 2905 DAYS ☐ 2912 DAYS ☐ 2919 DAYS ☐ 2926 DAYS ☐ 2933 DAYS ☐ 2940 DAYS ☐ 2947 DAYS ☐ 2954 DAYS ☐ 2961 DAYS ☐ 2968 DAYS 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Roxana 3Q2011 Soil Vapor Data Review

Laboratory SDG: 1108188A

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 8/23/2011

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
VMP-5-5-080511	VMP-5-12.5-080611
VMP-5-31-080611	VMP-3-22-080611
VMP-4-23.5-080611	VMP-6-5-080411
VMP-6-10-080411	VMP-6-31.5-080411
VMP-16-5-080511	VMP-16-13.5-080511
VMP-16-19-080511	VMP-11-5-080711
VMP-11-8-080711	VMP-11-29-080711
VMP-14-5-080811	VMP-14-11.5-080811

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes, however samples VMP-16-19-080511 and VMP-11-29-080711 are not usable due to laboratory helium results in the samples (12% and 24%) that were greater than 10% of the final helium in the sampling shrouds (41.6% and 41.9%). Due to sampling conditions, it was only possible to re-sample VMP-11-29. Results from the re-sampling of VMP-11-29 are presented with SDG 1108527A,B.

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that samples VMP-5-12.5-080611, VMP-5-31-080611, VMP-4-23.5-080611, VMP-6-5-080411, VMP-6-10-080411, VMP-6-31.5-080411, VMP-16-5-080511, VMP-14-5-080811, and VMP-14-11.5-080811 were diluted due to high levels of target analytes. Samples VMP-5-12.5-080611, VMP-5-31-080611, VMP-4-23.5-080611, VMP-6-5-080411, VMP-6-10-080411, VMP-16-5-080511, VMP-14-5-080811, and VMP-14-11.5-080811 were diluted and re-analyzed to bring the highest level compounds within calibration range of the instrument. Results for the highest level compounds were reported from the re-analysis runs and the remaining compounds were reported from the original analysis. Although not indicated in the laboratory case narrative, analytes were detected in the method blank. TO-15 LCS/LCSD recoveries were outside evaluation criteria. TO-15 CCV recoveries were outside evaluation criteria. Professional judgment was used to qualify sample VMP-16-13.5-080511. These issues are addressed further in the appropriate sections below.

No issues or discrepancies were noted in the cooler receipt form.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1108188A-17A	TO-15	Bromomethane	0.10 ppbv / 0.41 µg/m ³
1108188A-17A	TO-15	Carbon Disulfide	0.22 ppbv / 0.69 µg/m ³
1108188A-17A	TO-15	1,1,1-Trichloroethane	0.060 ppbv / 0.33 µg/m ³
1108188A-17A	TO-15	Trichloroethene	0.086 ppbv / 0.46 µg/m ³
1108188A-17B	TO-15	alpha-Chlorotoluene	1.1 ppbv / 5.7 µg/m ³
1108188A-17B	TO-15	1,2,4-Trichlorobenzene	11 ppbv / 82 µg/m ³
1108188B-17A	Natural gases	Oxygen	0.013 %
1108188B-17A	Natural gases	Nitrogen	0.050 %

Qualifications due to blank contamination are included in the table below. Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
VMP-5-5-080511	TO-15	1,1,1-Trichloroethane	-	U
VMP-5-5-080511	TO-15	Trichloroethene	-	U

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS/LCSD	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD /RPD Criteria
1108188A-19B/BB	TO-15	1,2,4-Trichlorobenzene	158/162	3	70-130/25
1108188A-19B/BB	TO-15	Hexachlorobutadiene	152/147	3	70-130/25
1108188A-19C/CC	TO-15	1,2,4-Trichlorobenzene	148/167	12	70-130/25
1108188A-19C/CC	TO-15	Hexachlorobutadiene	148/155	5	70-130/25

Analytical data reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. No qualification of data was required.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples in summa canisters.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

No

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Though not requiring qualification, CCV recoveries listed in the table below were above evaluation criteria.

CCV ID	Parameter	Analyte	CCV Recovery	CCV Criteria
1108188A-18C	TO-15	1,2,4-Trichlorobenzene	132	70-130
1108188A-18C	TO-15	Hexachlorobutadiene	138	70-130

All associated data were reported as non-detect or qualified by the URS chemist as nondetect due to method blank contamination and associated with CCV recoveries above evaluation criteria, indicating a possible high bias; therefore, no qualification of data was required.

Additionally, professional judgment was used to qualify sample VMP-16-13.5-080511 due to laboratory helium result (6.4%) which was greater than 10% of the final helium in the sampling shroud (61.5%), indicating leakage during sampling.

Sample ID	Parameter	Analyte	Qualification	Comment
VMP-16-13.5-080511	TO-15	TO-15 detects/non-detects	J/UJ	Professional Judgment
VMP-16-13.5-080511	Natural gases	Natural gases detects/non-detects	J/UJ	Professional Judgment

VALIDATION OF TO-15 DATA - SDG 1108188

This section describes the validation for fourteen vapor samples which were analyzed by USEPA Method TO-15. Samples were analyzed by Air Toxics Laboratory, Folsom, California and submitted as part of sample delivery group (SDG) 1108188. Samples included as part of this validation are listed below:

Sample Identification	Sample Identification
VMP-5-5-080511	VMP-5-12.5-080611
VMP-5-31-080611	VMP-3-22-080611
VMP-4-23.5-080611	VMP-6-5-080411
VMP-6-10-080411	VMP-6-31.5-080511
VMP-16-5-080511	VMP-16-13.5-080511
VMP-11-5-080711	VMP-11-8-080711
VMP-14-5-080811	VMP-14-11.5-080811

QA/QC criteria were identified in the Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation Work Plan (URS 2009) and USEPA Method TO-15. Evaluation of the analytical data followed procedures outlined in the USEPA Contract Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA 2008) where applicable to EPA Method TO-15.

Criteria evaluated included the following method performance criteria:

- Data package completeness
- Laboratory case narrative/cooler receipt form
- Sample holding times
- GC/MS instrument performance
- Initial calibration
- Calibration verification
- Blank samples
- Surrogate spike recoveries
- Internal standards and retention times
- Laboratory control sample (LCS)
- Target compound identification and quantitation
- Overall data assessment

1.1 Data Package Completeness

The data package was reviewed to make certain that it contained the data contractually required in the deliverable. This included checking the data package for the results of each analyte requested for each field sample submitted in the analytical batch, along with requested QC documentation for the respective methods. The data package was complete for the validated samples.

1.2 Laboratory Case Narrative/Cooler Receipt Form

The laboratory case narrative indicated that samples VMP-5-12.5-080611, VMP-5-31-080611, VMP-4-23.5-080611, VMP-6-5-080411, VMP-6-10-080411, VMP-6-31.5-080411, VMP-16-5-080511, VMP-14-5-080811, and VMP-14-11.5-080811 were diluted due to high levels of target analytes. Samples VMP-5-12.5-080611, VMP-5-31-080611, VMP-4-23.5-080611, VMP-6-5-080411, VMP-6-10-080411, VMP-16-5-080511, VMP-14-5-080811, and VMP-14-11.5-080811 were diluted and re-analyzed to bring the highest level compounds within calibration range of the instrument. Results for the highest level compounds were reported from the re-analysis runs and the remaining compounds were reported from the original analysis. Although not indicated in the laboratory case narrative, analytes were detected in the method blank. TO-15 LCS/LCSD recoveries were outside evaluation criteria. TO-15 CCV recoveries were outside evaluation criteria. These issues are addressed further in the appropriate sections below.

Additionally, professional judgment was used to qualify sample VMP-16-13.5-080511 due to laboratory helium result (6.4%) which was greater than 10% of the final helium in the sampling shroud (61.5%), indicating leakage during sampling.

Sample ID	Parameter	Analyte	Qualification	Comment
VMP-16-13.5-080511	TO-15	TO-15 detects/non-detects	J/UJ	Professional Judgment

No issues or discrepancies were noted in the cooler receipt form.

1.3 Sample Holding Times

Review of the sample collection and analysis dates involved comparing the chains-of-custody, the summary forms, the raw data forms, and the chromatograms for accuracy, consistency, and holding time compliance. The validated samples were analyzed within the 14 day holding time criteria. No qualification of data was required due to holding time criteria.

1.4 GC/MS Instrument Performance

GC/MS instrument performance checks were performed to ensure mass resolution, identification, and instrument sensitivity. Criteria for evaluation of instrument performance included possible transcription/calculation errors, adherence to instrument tuning frequency requirements, mass assignments, and ion abundance criteria. Instrument performance check samples were evaluated against criteria established in USEPA Method TO-15.

Based on the raw data, the ion abundance criteria were within evaluation criteria for all masses, and no qualification of data was required. The raw data forms were checked against the summary forms and no calculation or transcription errors were noted.

1.5 Initial Calibration

An Initial calibration (ICAL) was established to assess whether the instrument was capable of producing acceptable qualitative and quantitative data for TO-15 analysis. Samples as part of SDG 1108188 were analyzed using instrument msd6. The ICAL for instrument msd6 was established on 8/2/2011 prior to sample analysis and using at least five concentration standards to establish the initial calibration curve as required by Method TO-15. An average response factor (RF) was determined for each target analyte, the RFs were reviewed and verified greater than 0.10 for chloromethane, 1,1-dichloroethane and bromoform, 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane and greater than 0.05 for all other target analytes.

Review of the initial calibration summary forms indicated %RSDs were $\leq 30\%$ for target analytes. Percent RSDs were recalculated from the raw data and no errors in calculation were noted; therefore, no qualification of data was required.

1.6 Calibration Verification

Review of the sample chromatograms indicated the calibration verifications (CVs) were performed at the required frequency every 12 hours. Review of continuing calibration summary forms indicated all RFs met the evaluation criteria of greater than 0.10 (chloromethane, 1,1-dichloroethane and bromoform), 0.30 (chlorobenzene and 1,1,2,2-tetrachloroethane) and greater than 0.05 for all other analytes for each CCV. In addition, percent differences (%Ds) and percent drift (%Drift) met the evaluation criteria of $\leq 30\%$ for all other target analytes, with the exception of the CCVs in the table below.

CCV	Parameter	Analyte	%D	Criteria
8/10/2011 19:05	TO-15	1,2,4-Trichlorobenzene	-32	<30%
8/10/2011 19:05	TO-15	Hexachlorobutadiene	-38	<30%

Analytical data associated with negative % D/ % Drift, indicating a positive bias, were non-detect and therefore did not require qualification. Additionally, data associated with CCV recoveries above evaluation criteria (132% for 1,2,4-trichlorobenzene and 138% for hexachlorobutadiene) were non-detect; therefore, no qualification of data was required. Recalculations of the RFs and %Ds for several target compounds were completed, and no errors in calculation were noted.

1.7 Blank Samples

The purpose of the method blank samples is to evaluate the existence and magnitude of contamination problems emanating from laboratory activities. Method blank samples were analyzed with each analytical batch as required by USEPA Method TO-15. All target compounds were reported as non-detect in all method blanks analyzed as part of this SDG with the exceptions summarized in the following table:

Blank ID	Parameter	Analyte	Concentration/Amount
1108188A-17A	TO-15	Bromomethane	0.10 ppbv / 0.41 $\mu\text{g}/\text{m}^3$
1108188A-17A	TO-15	Carbon Disulfide	0.22 ppbv / 0.69 $\mu\text{g}/\text{m}^3$
1108188A-17A	TO-15	1,1,1-Trichloroethane	0.060 ppbv / 0.33 $\mu\text{g}/\text{m}^3$
1108188A-17A	TO-15	Trichloroethene	0.086 ppbv / 0.46 $\mu\text{g}/\text{m}^3$
1108188A-17B	TO-15	alpha-Chlorotoluene	1.1 ppbv / 5.7 $\mu\text{g}/\text{m}^3$
1108188A-17B	TO-15	1,2,4-Trichlorobenzene	11 ppbv / 82.0 $\mu\text{g}/\text{m}^3$

Qualifications due to blank contamination are included in the table below. Analytical data that were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
VMP-5-5-080511	TO-15	1,1,1-Trichloroethane	-	U
VMP-5-5-080511	TO-15	Trichloroethene	-	U

The review of chromatograms indicates all peaks present were accounted or the concentrations reported were below the method detection limit. No qualification of data was required.

1.8 Surrogate Spike Recoveries

Surrogate compounds were used to evaluate the overall laboratory sample preparation efficiency on a per sample basis. All surrogate recoveries were within the method acceptance criteria.

A minimum of 10% of the recoveries were recalculated, and the summary forms versus the raw data were verified. No calculation or transcription errors were noted and no qualification of data was required.

1.9 Internal Standards and Retention Times

Internal standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during each analytical run. IS areas must be within -40% to +40%, and the IS retention times must be within 30 seconds of the IS continuing calibration retention time. IS areas and retention times for the validated samples in this SDG were within evaluation criteria. The summary forms versus the raw data were verified and no transcription errors were noted.

1.10 Laboratory Control Sample (LCS)

Laboratory control samples were analyzed with each analytical batch to assess the accuracy of the analytical process. LCS recoveries were within evaluation criteria, with the exception of those listed in the table below.

LCS/LCSD ID	Parameter	Analyte	LCS/LCSD Recovery	RPD	LCS/LCSD Criteria
1108188A-19B/BB	TO-15	1,2,4-Trichlorobenzene	158/162	3	70-130/25
1108188A-19B/BB	TO-15	Hexachlorobutadiene	158/162	3	70-130/25
1108188A-19C/CC	TO-15	1,2,4-Trichlorobenzene	148/167	12	70-130/25
1108188A-19C/CC	TO-15	Hexachlorobutadiene	148/155	5	70-130/25

Analytical data which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. No qualification of data was required based on LCS recoveries.

A minimum of 10% of the spiking compound recoveries for the LCS's were recalculated using the LCS summary forms, and no calculation or transcription errors were noted.

1.11 Target Compound Identification and Quantitation

For validation of the compound identification, chromatograms were reviewed to verify the major target peaks were identified, the spectra of the identified compounds were verified against the library spectra, and the relative retention time was no greater than 0.06 different from the associated CV retention times. A minimum of 10% of the detected target analytes and spiking compounds were verified. No anomalies were noted with the identification of the target compounds in the samples.

For the validation of compound quantitation, 10% of the target analytes were recalculated from the raw data, and no calculation errors were noted. Additionally, the reporting limits were verified to determine if reporting limits (RLs) were adjusted for dilutions. No qualification of the data was required and review of the data indicated the correct RLs were reported.

1.12 Overall Data Assessment

Based on the criteria outlined, it is recommended that the results reported for these analyses are accepted for their intended use. Acceptable levels of accuracy and precision, based on LCS and surrogate data were achieved for this SDG.

8/20/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562593.00009
Workorder #: 1108188A

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 8/9/2011 at Air Toxics Ltd.

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

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

Regards,



Kelly Buettner
Project Manager

Reviewed
ON
8/23/2011

WORK ORDER #: 1108188A

Work Order Summary

CLIENT: Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-429-0100

P.O. # 21562593.00009

FAX:

PROJECT # 21562593.00009 Roxana Soil Vapor

DATE RECEIVED: 08/09/2011

CONTACT: Kelly Buettner

DATE COMPLETED: 08/20/2011

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-5-5-080511	Modified TO-15	6.0 "Hg	15 psi
02A	VMP-5-12.5-080611	Modified TO-15	5.6 "Hg	15 psi
02B	VMP-5-12.5-080611	Modified TO-15	5.6 "Hg	15 psi
03A	VMP-5-31-080611	Modified TO-15	8.2 "Hg	15 psi
03B	VMP-5-31-080611	Modified TO-15	8.2 "Hg	15 psi
04A	VMP-3-22-080611	Modified TO-15	10.8 "Hg	15 psi
05A	VMP-4-23.5-080611	Modified TO-15	8.4 "Hg	15 psi
05B	VMP-4-23.5-080611	Modified TO-15	8.4 "Hg	15 psi
06A	VMP-6-5-080411	Modified TO-15	7.4 "Hg	15 psi
06B	VMP-6-5-080411	Modified TO-15	7.4 "Hg	15 psi
07A	VMP-6-10-080411	Modified TO-15	6.4 "Hg	15 psi
07B	VMP-6-10-080411	Modified TO-15	6.4 "Hg	15 psi
08A	VMP-6-31.5-080411	Modified TO-15	8.2 "Hg	15 psi
09A	VMP-16-5-080511	Modified TO-15	8.4 "Hg	15 psi
09B	VMP-16-5-080511	Modified TO-15	8.4 "Hg	15 psi
10A	VMP-16-13.5-080511	Modified TO-15	8.0 "Hg	15 psi
11A	VMP-16-19-080511	Modified TO-15	9.6 "Hg	15 psi

Continued on next page

WORK ORDER #: 1108188A

Work Order Summary

CLIENT: Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-429-0100

P.O. # 21562593.00009

FAX:

PROJECT # 21562593.00009 Roxana Soil Vapor

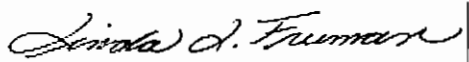
DATE RECEIVED: 08/09/2011

CONTACT: Kelly Buettner

DATE COMPLETED: 08/20/2011

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
12A	VMP-11-5-080711	Modified TO-15	9.6 "Hg	15 psi
13A	VMP-11-8-080711	Modified TO-15	9.6 "Hg	15 psi
14A	VMP-11-29-080711	Modified TO-15	9.4 "Hg	15 psi
15A	VMP-14-5-080811	Modified TO-15	8.4 "Hg	15 psi
15B	VMP-14-5-080811	Modified TO-15	8.4 "Hg	15 psi
16A	VMP-14-11.5-080811	Modified TO-15	8.2 "Hg	15 psi
16B	VMP-14-11.5-080811	Modified TO-15	8.2 "Hg	15 psi
17A	Lab Blank	Modified TO-15	NA	NA
17B	Lab Blank	Modified TO-15	NA	NA
17C	Lab Blank	Modified TO-15	NA	NA
18A	CCV	Modified TO-15	NA	NA
18B	CCV	Modified TO-15	NA	NA
18C	CCV	Modified TO-15	NA	NA
19A	LCS	Modified TO-15	NA	NA
19AA	LCSD	Modified TO-15	NA	NA
19B	LCS	Modified TO-15	NA	NA
19BB	LCSD	Modified TO-15	NA	NA
19C	LCS	Modified TO-15	NA	NA
19CC	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:



Laboratory Director

DATE: 08/20/11

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1108188A

Sixteen 1 Liter Summa Canister samples were received on August 09, 2011. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

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

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

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.

Due to high-level target compounds, samples VMP-5-12.5-080611, VMP-5-31-080611, VMP-4-23.5-080611, VMP-6-5-080411, VMP-6-10-080411, VMP-6-31.5-080411, VMP-16-5-080511, VMP-14-5-080811 and VMP-14-11.5-080811 were analyzed twice. In the "A" fraction, the sample was diluted to bring the highest-level compounds within the calibration range. The "B" fraction is also reported by client request and may be reported with "E" flags indicating the compound exceeds the calibration range, or "S" flags indicating the compound is saturated on the instrument. Both runs and associated QC are reported.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

Client Sample ID: VMP-5-5-080511

Lab ID#: 1108188A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.50 J	6.2	2.4 J
Freon 11	1.3	0.24 J	7.1	1.4 J
Ethanol	5.0	39	9.5	73
Acetone	5.0	35	12	84
2-Propanol	5.0	29	12	70
Carbon Disulfide	5.0	1.2 J	16	3.7 J
Methylene Chloride	1.3	2.2	4.4	7.5
Hexane	1.3	24	4.4	83
2-Butanone (Methyl Ethyl Ketone)	5.0	9.6	15	28
Chloroform	1.3	0.31 J	6.2	1.5 J
1,1,1-Trichloroethane	1.3	~~0.17 J~~ u	6.9	~~0.95 J~~ u
Cyclohexane	1.3	10	4.3	35
2,2,4-Trimethylpentane	1.3	49	5.9	230
Benzene	1.3	4.8	4.0	15
Heptane	1.3	11	5.2	47
Trichloroethene	1.3	~~0.41 J~~ u	6.8	~~2.2 J~~ u
4-Methyl-2-pentanone	1.3	18	5.2	72
Toluene	1.3	340	4.7	1300
Tetrachloroethene	1.3	0.46 J	8.5	3.1 J
Ethyl Benzene	1.3	0.73 J	5.5	3.2 J
m,p-Xylene	1.3	1.9	5.5	8.3
o-Xylene	1.3	0.56 J	5.5	2.4 J
Styrene	1.3	0.57 J	5.4	2.4 J
Cumene	1.3	2.1	6.2	10
Propylbenzene	1.3	0.15 J	6.2	0.75 J
4-Ethyltoluene	1.3	0.46 J	6.2	2.2 J
1,2,4-Trimethylbenzene	1.3	0.40 J	6.2	2.0 J
Butane	5.0	360	12	860
Isopentane	5.0	110	15	320

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

Client Sample ID: VMP-5-12.5-080611 *USE THESE RESULTS ONLY/ ALL OTHER DATA WAS REPORTED
Lab ID#: 1108188A-02A DF=1240 FROM THE 248X DILUTION ANALYSIS.

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	25000	3600 J	59000	8500 J
2-Propanol	25000	4400 J	61000	11000 J
Carbon Disulfide	6200	1700 J	19000	5200 J
Hexane	6200	92000	22000	320000
Cyclohexane	6200	52000	21000	180000
2,2,4-Trimethylpentane	6200	170000	29000	790000
Benzene	6200	1300 J	20000	4300 J
Heptane	6200	5900 J	25000	24000 J
* Butane	25000	3200000	59000	7600000
* Isopentane	25000	3400000	73000	10000000

Client Sample ID: VMP-5-12.5-080611 *DO NOT USE THIS DATA - USE ALL OTHER DATA
Lab ID#: 1108188A-02B DF=248

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1200	95000	4400	340000
Cyclohexane	1200	54000	4300	180000
2,2,4-Trimethylpentane	1200	170000	5800	810000
Benzene	1200	1400	4000	4600
Heptane	1200	6700	5100	27000
Toluene	1200	270 J	4700	1000 J
* Butane	5000	2900000 E	12000	6900000 E
* Isopentane	5000	3800000 E	15000	11000000 E

Client Sample ID: VMP-5-31-080611 *USE THESE RESULTS ONLY/ ALL OTHER DATA WAS REPORTED FROM THE 2320X DILUTION ANALYSIS.
Lab ID#: 1108188A-03A DF=5560

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	110000	14000 J	270000	35000 J
Hexane	28000	1500000	98000	5300000
Cyclohexane	28000	370000	96000	1300000

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

Client Sample ID: VMP-5-31-080611

Lab ID#: 1108188A-03A

2,2,4-Trimethylpentane	28000	710000	130000	3300000
Benzene	28000	19000 J	89000	60000 J
Heptane	28000	170000	110000	680000
Butane	110000	16000000	260000	38000000
Isopentane	110000	14000000	330000	43000000

Client Sample ID: VMP-5-31-080611

Lab ID#: 1108188A-03B

** Do not use this data. Use all other data.*
DF = 2320

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	46000	14000 J	110000	34000 J
Carbon Disulfide	12000	2100 J	36000	6400 J
Hexane	12000	1600000	41000	5800000
Cyclohexane	12000	410000	40000	1400000
2,2,4-Trimethylpentane	12000	790000	54000	3700000
Benzene	12000	20000	37000	64000
Heptane	12000	190000	48000	780000
* Butane	46000	16000000 E	110000	43000000 E
* Isopentane	46000	16000000 E	140000	48000000 E

Client Sample ID: VMP-3-22-080611

Lab ID#: 1108188A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	79	87	150	160
Acetone	79	32 J	190	75 J
2-Propanol	79	46 J	190	110 J
Hexane	20	860	70	3000
Cyclohexane	20	230	68	780
2,2,4-Trimethylpentane	20	5000	92	23000
Benzene	20	70	63	220
Heptane	20	120	81	510
4-Methyl-2-pentanone	20	37	81	150

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

Client Sample ID: VMP-3-22-080611

Lab ID#: 1108188A-04A

Toluene	20	23	74	87
Ethyl Benzene	20	5.7 J	86	25 J
m,p-Xylene	20	10 J	86	45 J
Cumene	20	12 J	97	59 J
1,2,4-Trimethylbenzene	20	2.9 J	97	14 J
Butane	79	7800	190	18000
Isopentane	79	8000	230	24000

Client Sample ID: VMP-4-23.5-080611

Lab ID#: 1108188A-05A

** Use these results only. All other data was reported from the 281X dilution analysis.*

DF = 7020

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
* Hexane	35000	3100000	120000	11000000
Cyclohexane	35000	570000	120000	2000000
2,2,4-Trimethylpentane	35000	600000	160000	2800000
Benzene	35000	91000	110000	290000
Heptane	35000	540000	140000	2200000
Toluene	35000	110000	130000	410000
Ethyl Benzene	35000	41000	150000	180000
m,p-Xylene	35000	60000	150000	260000
o-Xylene	35000	15000 J	150000	65000 J
Butane	140000	23000000	330000	56000000
Isopentane	140000	23000000	410000	69000000

Client Sample ID: VMP-4-23.5-080611

Lab ID#: 1108188A-05B

** Do not use this data. Use all other data.*

DF = 281

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
* Hexane	1400	3200000 E	5000	11000000 E
Cyclohexane	1400	540000	4800	1900000
2,2,4-Trimethylpentane	1400	600000	6600	2800000
Benzene	1400	88000	4500	280000
Heptane	1400	550000	5800	2200000

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

Client Sample ID: VMP-4-23.5-080611

Lab ID#: 1108188A-05B

Toluene	1400	100000	5300	390000
Ethyl Benzene	1400	42000	6100	180000
m,p-Xylene	1400	75000	6100	320000
o-Xylene	1400	21000	6100	91000
Cumene	1400	1300 J	6900	6600 J
Propylbenzene	1400	1600	6900	7600
4-Ethyltoluene	1400	4400	6900	21000
1,3,5-Trimethylbenzene	1400	1200 J	6900	6100 J
1,2,4-Trimethylbenzene	1400	2200	6900	11000
Butane	5600	>21000000 S	13000	>50000000 S
Isopentane	5600	>14000000 S	16000	>40000000 S

Client Sample ID: VMP-6-5-080411 **Use these results only. All other data was reported from the 13.4% dilution analysis.*
Lab ID#: 1108188A-06A *DF=22.3*

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	110	10000	390	36000
Cyclohexane	110	1600	380	5700
2,2,4-Trimethylpentane	110	1600	520	7600
Benzene	110	270	360	850
Heptane	110	1000	460	4300
Toluene	110	150	420	580
Ethyl Benzene	110	36 J	480	160 J
m,p-Xylene	110	42 J	480	180 J
Butane	450	69000	1100	160000
Isopentane	450	83000	1300	250000

Client Sample ID: VMP-6-5-080411 **Do not use this data. Use all other data.*
Lab ID#: 1108188A-06B *DF=13.1*

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	67	9100	240	32000
Cyclohexane	67	1500	230	5100

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

Client Sample ID: VMP-6-5-080411

Lab ID#: 1108188A-06B

2,2,4-Trimethylpentane	67	1400	310	6500
Benzene	67	230	210	740
Heptane	67	910	270	3700
Toluene	67	140	250	530
Ethyl Benzene	67	24 J	290	100 J
m,p-Xylene	67	36 J	290	160 J
* ~~Butane~~	~~270~~	~~72000 E~~	~~640~~	~~170000 E~~
* ~~Isopentane~~	~~270~~	~~81000 E~~	~~790~~	~~240000 E~~

Client Sample ID: VMP-6-10-080411

Lab ID#: 1108188A-07A

** Use these results only. All other data was reported from the 42.8X dilution analysis.*

DF = 64.2

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	320	59000	1100	210000
Cyclohexane	320	59000	1100	200000
* 2,2,4-Trimethylpentane	320	200000	1500	940000
Benzene	320	580	1000	1900
Heptane	320	18000	1300	74000
Toluene	320	77 J	1200	290 J
Ethyl Benzene	320	63 J	1400	270 J
Butane	1300	170000	3000	410000
* Isopentane	1300	260000	3800	770000

Client Sample ID: VMP-6-10-080411

Lab ID#: 1108188A-07B

** Do not use this data. Use all other data.*

DF = 42.8

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	210	59000	750	210000
Cyclohexane	210	63000	740	220000
* ~~2,2,4-Trimethylpentane~~	~~210~~	~~220000 E~~	~~1000~~	~~1000000 E~~
Benzene	210	540	680	1700
Heptane	210	18000	880	76000
Toluene	210	70 J	810	260 J

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

Client Sample ID: VMP-6-10-080411

Lab ID#: 1108188A-07B

Ethyl Benzene	210	42 J	930	180 J
Butane	860	170000	2000	400000
~~Isopentane~~	~~860~~	~~260000 E~~	~~2500~~	~~760000 E~~

Client Sample ID: VMP-6-31.5-080411

Lab ID#: 1108188A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1400	560000	4900	2000000
Cyclohexane	1400	220000	4800	770000
2,2,4-Trimethylpentane	1400	420000	6500	2000000
Benzene	1400	3500	4400	11000
Heptane	1400	250000	5700	1000000
Toluene	1400	390 J	5200	1500 J
Ethyl Benzene	1400	4600	6000	20000
m,p-Xylene	1400	1200 J	6000	5200 J
Cumene	1400	410 J	6800	2000 J
Propylbenzene	1400	630 J	6800	3100 J
Butane	5600	460000	13000	1100000
Isopentane	5600	570000	16000	1700000

Client Sample ID: VMP-16-5-080511 *Use these results only. All other data was reported from the 56.2X dilution analysis.

Lab ID#: 1108188A-09A DF = 140

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	700	1100	2500	4000
Cyclohexane	700	6100	2400	21000
2,2,4-Trimethylpentane	700	440000	3300	2100000
Benzene	700	840	2200	2700
Butane	2800	20000	6600	47000
Isopentane	2800	240000	8300	720000

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

Client Sample ID: VMP-16-5-080511 ** Do not use these results. Use all other data.*
Lab ID#: 1108188A-09B *DF = 56.2*

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	1100	210 J	2700	500 J
Methyl tert-butyl ether	280	82 J	1000	290 J
Hexane	280	410	990	1400
Cyclohexane	280	6500	970	22000
~~* 2,2,4-Trimethylpentane~~	~~280~~	~~500000 E~~	~~1300~~	~~2300000 E~~
Benzene	280	900	900	2900
Butane	1100	16000	2700	39000
Isopentane	1100	260000	3300	760000

Client Sample ID: VMP-16-13.5-080511

Lab ID#: 1108188A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	140	80 J	500	290 J
Hexane	140	1600	490	5800
Cyclohexane	140	1800	480	6400
2,2,4-Trimethylpentane	140	130000	640	610000
Benzene	140	170	440	540
Toluene	140	31 J	520	120 J
Butane	550	5900	1300	14000
Isopentane	550	64000	1600	190000

** Client Sample ID: VMP-16-19-080511 Do not use these results, please see Section 1.0 of Data Review*
Lab ID#: 1108188A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	150	19 J	540	69 J
Hexane	150	1100	520	4000
Cyclohexane	150	890	510	3100
2,2,4-Trimethylpentane	150	90000	690	420000
Benzene	150	160	470	510

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

Client Sample ID: VMP-16-19-080511

Lab ID#: 1108188A-11A

Toluene	150	34 J	560	130 J
Butane	590	1900	1400	4600
Isopentane	590	16000	1800	49000

Client Sample ID: VMP-11-5-080711

Lab ID#: 1108188A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	59	24 J	110	46 J
Acetone	59	27 J	140	65 J
2-Propanol	59	28 J	140	68 J
Benzene	15	31	47	100
4-Methyl-2-pentanone	15	39	61	160
Toluene	15	5.6 J	56	21 J
m,p-Xylene	15	2.7 J	64	12 J
Cumene	15	12 J	73	60 J
Isopentane	59	6.3 J	180	19 J

Client Sample ID: VMP-11-8-080711

Lab ID#: 1108188A-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	59	75	110	140
Acetone	59	24 J	140	57 J
2-Propanol	59	45 J	140	110 J
2-Butanone (Methyl Ethyl Ketone)	59	9.5 J	180	28 J
Benzene	15	100	47	330
4-Methyl-2-pentanone	15	34	61	140
Toluene	15	5.2 J	56	19 J
m,p-Xylene	15	2.4 J	64	10 J
Cumene	15	9.3 J	73	46 J

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

* Client Sample ID: VMP-11-29-080711 * Do not use these results, please see Section 1.0 of Data Review.

Lab ID#: 1108188A-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	59	67	110	130
Acetone	59	50 J	140	120 J
2-Propanol	59	33 J	140	82 J
2-Butanone (Methyl Ethyl Ketone)	59	10 J	170	30 J
Cyclohexane	15	21	50	72
Benzene	15	94	47	300
4-Methyl-2-pentanone	15	24	60	99
Toluene	15	50	55	190
m,p-Xylene	15	2.2 J	64	9.7 J
Cumene	15	8.0 J	72	39 J
Isopentane	59	35 J	170	100 J

Client Sample ID: VMP-14-5-080811 * Use these results only. All other data was reported from the 281 dilution analysis.

Lab ID#: 1108188A-15A DF = 468

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	9400	2700 J	22000	6400 J
Hexane	2300	34000	8200	120000
Cyclohexane	2300	26000	8000	89000
2,2,4-Trimethylpentane	2300	27000	11000	120000
Benzene	2300	3800	7500	12000
Heptane	2300	2200 J	9600	8900 J
Butane	9400	1400000	22000	3300000
* Isopentane	9400	1600000	28000	4700000

Client Sample ID: VMP-14-5-080811 * Do not use these results. Use all other data.

Lab ID#: 1108188A-15B DF = 281

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1400	35000	5000	120000
Cyclohexane	1400	26000	4800	91000

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

Client Sample ID: VMP-14-5-080811

Lab ID#: 1108188A-15B

2,2,4-Trimethylpentane	1400	27000	6600	120000
Benzene	1400	4000	4500	13000
Heptane	1400	2500	5800	10000
Butane	5600	1100000	13000	2600000

* ~~Isopentane~~ ~~5600~~ ~~1400000 E~~ ~~16000~~ ~~4200000 E~~

Client Sample ID: VMP-14-11.5-080811

Lab ID#: 1108188A-16A

** Use these results only. All other data was reported from the 27.8X dilution analysis.*

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	280	800	980	2800
Cyclohexane	280	630	960	2200
2,2,4-Trimethylpentane	280	4500	1300	21000
Benzene	280	81 J	890	260 J
Butane	1100	140000	2600	320000
* <u>Isopentane</u>	<u>1100</u>	<u>160000</u>	<u>3300</u>	<u>490000</u>

Client Sample ID: VMP-14-11.5-080811

Lab ID#: 1108188A-16B

** Do not use these results. Use all other data.*

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroethane	560	93 J	1500	240 J
Hexane	140	340	490	1200
Cyclohexane	140	470	480	1600
2,2,4-Trimethylpentane	140	4300	650	20000
Benzene	140	57 J	440	180 J
Butane	560	130000	1300	320000
* ~~Isopentane~~	~~560~~	~~160000 E~~	~~1600~~	~~480000 E~~

Client Sample ID: VMP-5-5-080511

Lab ID#: 1108188A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6081517	Date of Collection: 8/5/11 10:20:00 AM
Dil. Factor:	2.52	Date of Analysis: 8/15/11 04:51 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.50 J	6.2	2.4 J
Freon 114	1.3	Not Detected	8.8	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
1,3-Butadiene	1.3	Not Detected	2.8	Not Detected
Bromomethane	1.3	Not Detected	4.9	Not Detected
Chloroethane	5.0	Not Detected	13	Not Detected
Freon 11	1.3	0.24 J	7.1	1.4 J
Ethanol	5.0	39	9.5	73
Freon 113	1.3	Not Detected	9.6	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Acetone	5.0	35	12	84
2-Propanol	5.0	29	12	70
Carbon Disulfide	5.0	1.2 J	16	3.7 J
3-Chloropropene	5.0	Not Detected	16	Not Detected
Methylene Chloride	1.3	2.2	4.4	7.5
Methyl tert-butyl ether	1.3	Not Detected	4.5	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Hexane	1.3	24	4.4	83
1,1-Dichloroethane	1.3	Not Detected	5.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.0	9.6	15	28
cis-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.7	Not Detected
Chloroform	1.3	0.31 J	6.2	1.5 J
1,1,1-Trichloroethane	1.3	0.17 J	6.9	0.95 J
Cyclohexane	1.3	10	4.3	35
Carbon Tetrachloride	1.3	Not Detected	7.9	Not Detected
2,2,4-Trimethylpentane	1.3	49	5.9	230
Benzene	1.3	4.8	4.0	15
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected
Heptane	1.3	11	5.2	47
Trichloroethene	1.3	0.41 J	6.8	2.2 J
1,2-Dichloropropane	1.3	Not Detected	5.8	Not Detected
1,4-Dioxane	5.0	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.4	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
4-Methyl-2-pentanone	1.3	18	5.2	72
Toluene	1.3	340	4.7	1300
trans-1,3-Dichloropropene	1.3	Not Detected	5.7	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	6.9	Not Detected
Tetrachloroethene	1.3	0.46 J	8.5	3.1 J

Client Sample ID: VMP-5-5-080511

Lab ID#: 1108188A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6081517	Date of Collection: 8/5/11 10:20:00 AM
Dil. Factor:	2.52	Date of Analysis: 8/15/11 04:51 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.0	Not Detected	21	Not Detected
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.7	Not Detected
Chlorobenzene	1.3	Not Detected	5.8	Not Detected
Ethyl Benzene	1.3	0.73 J	5.5	3.2 J
m,p-Xylene	1.3	1.9	5.5	8.3
o-Xylene	1.3	0.56 J	5.5	2.4 J
Styrene	1.3	0.57 J	5.4	2.4 J
Bromoform	1.3	Not Detected	13	Not Detected
Cumene	1.3	2.1	6.2	10
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.6	Not Detected
Propylbenzene	1.3	0.15 J	6.2	0.75 J
4-Ethyltoluene	1.3	0.46 J	6.2	2.2 J
1,3,5-Trimethylbenzene	1.3	Not Detected	6.2	Not Detected
1,2,4-Trimethylbenzene	1.3	0.40 J	6.2	2.0 J
1,3-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.5	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.6	Not Detected
1,2,4-Trichlorobenzene	5.0	Not Detected	37	Not Detected
Hexachlorobutadiene	5.0	Not Detected	54	Not Detected
Butane	5.0	360	12	860
Isopentane	5.0	110	15	320

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	119	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: VMP-5-12.5-080611

Lab ID#: 1108188A-02A

EPA METHOD TO-15 GC/MS

*USE THESE RESULTS ONLY.
ALL OTHER DATA WAS REPORTED
FROM THE 248X DILUTION ANALYSIS.*

File Name:	14081628	Date of Collection: 8/6/11 11:17:00 AM
Dil. Factor:	1240	Date of Analysis: 8/16/11 04:42 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	6200	Not Detected	31000	Not Detected
Freon 114	6200	Not Detected	43000	Not Detected
Chloromethane	25000	Not Detected	51000	Not Detected
Vinyl Chloride	6200	Not Detected	16000	Not Detected
1,3-Butadiene	6200	Not Detected	14000	Not Detected
Bromomethane	6200	Not Detected	24000	Not Detected
Chloroethane	25000	Not Detected	65000	Not Detected
Freon 11	6200	Not Detected	35000	Not Detected
Ethanol	25000	Not Detected	47000	Not Detected
Freon 113	6200	Not Detected	48000	Not Detected
1,1-Dichloroethene	6200	Not Detected	24000	Not Detected
Acetone	25000	3600 J	59000	8500 J
2-Propanol	25000	4400 J	61000	11000 J
Carbon Disulfide	6200	1700 J	19000	5200 J
3-Chloropropene	25000	Not Detected	78000	Not Detected
Methylene Chloride	6200	Not Detected	22000	Not Detected
Methyl tert-butyl ether	6200	Not Detected	22000	Not Detected
trans-1,2-Dichloroethene	6200	Not Detected	24000	Not Detected
Hexane	6200	92000	22000	320000
1,1-Dichloroethane	6200	Not Detected	25000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	25000	Not Detected	73000	Not Detected
cis-1,2-Dichloroethene	6200	Not Detected	24000	Not Detected
Tetrahydrofuran	6200	Not Detected	18000	Not Detected
Chloroform	6200	Not Detected	30000	Not Detected
1,1,1-Trichloroethane	6200	Not Detected	34000	Not Detected
Cyclohexane	6200	52000	21000	180000
Carbon Tetrachloride	6200	Not Detected	39000	Not Detected
2,2,4-Trimethylpentane	6200	170000	29000	790000
Benzene	6200	1300 J	20000	4300 J
1,2-Dichloroethane	6200	Not Detected	25000	Not Detected
Heptane	6200	5900 J	25000	24000 J
Trichloroethene	6200	Not Detected	33000	Not Detected
1,2-Dichloropropane	6200	Not Detected	29000	Not Detected
1,4-Dioxane	25000	Not Detected	89000	Not Detected
Bromodichloromethane	6200	Not Detected	42000	Not Detected
cis-1,3-Dichloropropene	6200	Not Detected	28000	Not Detected
4-Methyl-2-pentanone	6200	Not Detected	25000	Not Detected
Toluene	6200	Not Detected	23000	Not Detected
trans-1,3-Dichloropropene	6200	Not Detected	28000	Not Detected
1,1,2-Trichloroethane	6200	Not Detected	34000	Not Detected
Tetrachloroethene	6200	Not Detected	42000	Not Detected

Client Sample ID: VMP-5-12.5-080611

Lab ID#: 1108188A-02A

EPA METHOD TO-15 GC/MS

File Name:	14081628	Date of Collection: 8/6/11 11:17:00 AM
Dil. Factor:	1240	Date of Analysis: 8/16/11 04:42 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	25000	Not Detected	100000	Not Detected
Dibromochloromethane	6200	Not Detected	53000	Not Detected
1,2-Dibromoethane (EDB)	6200	Not Detected	48000	Not Detected
Chlorobenzene	6200	Not Detected	28000	Not Detected
Ethyl Benzene	6200	Not Detected	27000	Not Detected
m,p-Xylene	6200	Not Detected	27000	Not Detected
o-Xylene	6200	Not Detected	27000	Not Detected
Styrene	6200	Not Detected	26000	Not Detected
Bromoform	6200	Not Detected	64000	Not Detected
Cumene	6200	Not Detected	30000	Not Detected
1,1,2,2-Tetrachloroethane	6200	Not Detected	42000	Not Detected
Propylbenzene	6200	Not Detected	30000	Not Detected
4-Ethyltoluene	6200	Not Detected	30000	Not Detected
1,3,5-Trimethylbenzene	6200	Not Detected	30000	Not Detected
1,2,4-Trimethylbenzene	6200	Not Detected	30000	Not Detected
1,3-Dichlorobenzene	6200	Not Detected	37000	Not Detected
1,4-Dichlorobenzene	6200	Not Detected	37000	Not Detected
alpha-Chlorotoluene	6200	Not Detected	32000	Not Detected
1,2-Dichlorobenzene	6200	Not Detected	37000	Not Detected
1,2,4-Trichlorobenzene	25000	Not Detected	180000	Not Detected
Hexachlorobutadiene	25000	Not Detected	260000	Not Detected
Butane	25000	3200000	59000	7600000
Isopentane	25000	3400000	73000	10000000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: VMP-5-12.5-080611

Lab ID#: 1108188A-02B

EPA METHOD TO-15 GC/MS

*Do Not Use This Data -
Use All Other Data.*

File Name:	14081625	Date of Collection: 8/6/11 11:17:00 AM
Dil. Factor:	248	Date of Analysis: 8/16/11 03:19 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1200	Not Detected	6100	Not Detected
Freon 114	1200	Not Detected	8700	Not Detected
Chloromethane	5000	Not Detected	10000	Not Detected
Vinyl Chloride	1200	Not Detected	3200	Not Detected
1,3-Butadiene	1200	Not Detected	2700	Not Detected
Bromomethane	1200	Not Detected	4800	Not Detected
Chloroethane	5000	Not Detected	13000	Not Detected
Freon 11	1200	Not Detected	7000	Not Detected
Ethanol	5000	Not Detected	9300	Not Detected
Freon 113	1200	Not Detected	9500	Not Detected
1,1-Dichloroethene	1200	Not Detected	4900	Not Detected
Acetone	5000	Not Detected	12000	Not Detected
2-Propanol	5000	Not Detected	12000	Not Detected
Carbon Disulfide	1200	Not Detected	3900	Not Detected
3-Chloropropene	5000	Not Detected	16000	Not Detected
Methylene Chloride	1200	Not Detected	4300	Not Detected
Methyl tert-butyl ether	1200	Not Detected	4500	Not Detected
trans-1,2-Dichloroethene	1200	Not Detected	4900	Not Detected
Hexane	1200	95000	4400	340000
1,1-Dichloroethane	1200	Not Detected	5000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5000	Not Detected	15000	Not Detected
cis-1,2-Dichloroethene	1200	Not Detected	4900	Not Detected
Tetrahydrofuran	1200	Not Detected	3600	Not Detected
Chloroform	1200	Not Detected	6000	Not Detected
1,1,1-Trichloroethane	1200	Not Detected	6800	Not Detected
Cyclohexane	1200	54000	4300	180000
Carbon Tetrachloride	1200	Not Detected	7800	Not Detected
2,2,4-Trimethylpentane	1200	170000	5800	810000
Benzene	1200	1400	4000	4600
1,2-Dichloroethane	1200	Not Detected	5000	Not Detected
Heptane	1200	6700	5100	27000
Trichloroethene	1200	Not Detected	6700	Not Detected
1,2-Dichloropropane	1200	Not Detected	5700	Not Detected
1,4-Dioxane	5000	Not Detected	18000	Not Detected
Bromodichloromethane	1200	Not Detected	8300	Not Detected
cis-1,3-Dichloropropene	1200	Not Detected	5600	Not Detected
4-Methyl-2-pentanone	1200	Not Detected	5100	Not Detected
Toluene	1200	270 J	4700	1000 J
trans-1,3-Dichloropropene	1200	Not Detected	5600	Not Detected
1,1,2-Trichloroethane	1200	Not Detected	6800	Not Detected
Tetrachloroethene	1200	Not Detected	8400	Not Detected

Client Sample ID: VMP-5-12.5-080611

Lab ID#: 1108188A-02B

EPA METHOD TO-15 GC/MS

File Name:	14081625	Date of Collection: 8/6/11 11:17:00 AM
Dil. Factor:	248	Date of Analysis: 8/16/11 03:19 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5000	Not Detected	20000	Not Detected
Dibromochloromethane	1200	Not Detected	10000	Not Detected
1,2-Dibromoethane (EDB)	1200	Not Detected	9500	Not Detected
Chlorobenzene	1200	Not Detected	5700	Not Detected
Ethyl Benzene	1200	Not Detected	5400	Not Detected
m,p-Xylene	1200	Not Detected	5400	Not Detected
o-Xylene	1200	Not Detected	5400	Not Detected
Styrene	1200	Not Detected	5300	Not Detected
Bromoform	1200	Not Detected	13000	Not Detected
Cumene	1200	Not Detected	6100	Not Detected
1,1,2,2-Tetrachloroethane	1200	Not Detected	8500	Not Detected
Propylbenzene	1200	Not Detected	6100	Not Detected
4-Ethyltoluene	1200	Not Detected	6100	Not Detected
1,3,5-Trimethylbenzene	1200	Not Detected	6100	Not Detected
1,2,4-Trimethylbenzene	1200	Not Detected	6100	Not Detected
1,3-Dichlorobenzene	1200	Not Detected	7400	Not Detected
1,4-Dichlorobenzene	1200	Not Detected	7400	Not Detected
alpha-Chlorotoluene	1200	Not Detected	6400	Not Detected
1,2-Dichlorobenzene	1200	Not Detected	7400	Not Detected
1,2,4-Trichlorobenzene	5000	Not Detected	37000	Not Detected
Hexachlorobutadiene	5000	Not Detected	53000	Not Detected
* Butane	5000	2000000 E	12000	6900000 E
* Isopentane	5000	3800000 E	15000	11000000 E

J = Estimated value.

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

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

Client Sample ID: VMP-5-31-080611

Lab ID#: 1108188A-03A

EPA METHOD TO-15 GC/MS

**Use these results only All other data was reported from the 2320 dilution analysis.*

File Name: 14081631 Date of Collection: 8/6/11 9:38:00 AM
Dil. Factor: 5560 Date of Analysis: 8/16/11 06:22 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	28000	Not Detected	140000	Not Detected
Freon 114	28000	Not Detected	190000	Not Detected
Chloromethane	110000	Not Detected	230000	Not Detected
Vinyl Chloride	28000	Not Detected	71000	Not Detected
1,3-Butadiene	28000	Not Detected	62000	Not Detected
Bromomethane	28000	Not Detected	110000	Not Detected
Chloroethane	110000	Not Detected	290000	Not Detected
Freon 11	28000	Not Detected	160000	Not Detected
Ethanol	110000	Not Detected	210000	Not Detected
Freon 113	28000	Not Detected	210000	Not Detected
1,1-Dichloroethene	28000	Not Detected	110000	Not Detected
Acetone	110000	Not Detected	260000	Not Detected
2-Propanol	110000	14000 J	270000	35000 J
Carbon Disulfide	28000	Not Detected	86000	Not Detected
3-Chloropropene	110000	Not Detected	350000	Not Detected
Methylene Chloride	28000	Not Detected	96000	Not Detected
Methyl tert-butyl ether	28000	Not Detected	100000	Not Detected
trans-1,2-Dichloroethene	28000	Not Detected	110000	Not Detected
Hexane	28000	1500000	98000	5300000
1,1-Dichloroethane	28000	Not Detected	110000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	110000	Not Detected	330000	Not Detected
cis-1,2-Dichloroethene	28000	Not Detected	110000	Not Detected
Tetrahydrofuran	28000	Not Detected	82000	Not Detected
Chloroform	28000	Not Detected	140000	Not Detected
1,1,1-Trichloroethane	28000	Not Detected	150000	Not Detected
Cyclohexane	28000	370000	96000	1300000
Carbon Tetrachloride	28000	Not Detected	170000	Not Detected
2,2,4-Trimethylpentane	28000	710000	130000	3300000
Benzene	28000	19000 J	89000	60000 J
1,2-Dichloroethane	28000	Not Detected	110000	Not Detected
Heptane	28000	170000	110000	680000
Trichloroethene	28000	Not Detected	150000	Not Detected
1,2-Dichloropropane	28000	Not Detected	130000	Not Detected
1,4-Dioxane	110000	Not Detected	400000	Not Detected
Bromodichloromethane	28000	Not Detected	190000	Not Detected
cis-1,3-Dichloropropene	28000	Not Detected	130000	Not Detected
4-Methyl-2-pentanone	28000	Not Detected	110000	Not Detected
Toluene	28000	Not Detected	100000	Not Detected
trans-1,3-Dichloropropene	28000	Not Detected	130000	Not Detected
1,1,2-Trichloroethane	28000	Not Detected	150000	Not Detected
Tetrachloroethene	28000	Not Detected	190000	Not Detected

Client Sample ID: VMP-5-31-080611

Lab ID#: 1108188A-03A

EPA METHOD TO-15 GC/MS

File Name:	14081631	Date of Collection: 8/6/11 9:38:00 AM
Dil. Factor:	5560	Date of Analysis: 8/16/11 06:22 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	110000	Not Detected	460000	Not Detected
Dibromochloromethane	28000	Not Detected	240000	Not Detected
1,2-Dibromoethane (EDB)	28000	Not Detected	210000	Not Detected
Chlorobenzene	28000	Not Detected	130000	Not Detected
Ethyl Benzene	28000	Not Detected	120000	Not Detected
m,p-Xylene	28000	Not Detected	120000	Not Detected
o-Xylene	28000	Not Detected	120000	Not Detected
Styrene	28000	Not Detected	120000	Not Detected
Bromoform	28000	Not Detected	290000	Not Detected
Cumene	28000	Not Detected	140000	Not Detected
1,1,2,2-Tetrachloroethane	28000	Not Detected	190000	Not Detected
Propylbenzene	28000	Not Detected	140000	Not Detected
4-Ethyltoluene	28000	Not Detected	140000	Not Detected
1,3,5-Trimethylbenzene	28000	Not Detected	140000	Not Detected
1,2,4-Trimethylbenzene	28000	Not Detected	140000	Not Detected
1,3-Dichlorobenzene	28000	Not Detected	170000	Not Detected
1,4-Dichlorobenzene	28000	Not Detected	170000	Not Detected
alpha-Chlorotoluene	28000	Not Detected	140000	Not Detected
1,2-Dichlorobenzene	28000	Not Detected	170000	Not Detected
1,2,4-Trichlorobenzene	110000	Not Detected	820000	Not Detected
Hexachlorobutadiene	110000	Not Detected	1200000	Not Detected
Butane	110000	16000000	260000	38000000
Isopentane	110000	14000000	330000	43000000

J = Estimated value.

Container Type: 1 Liter Summa Canister

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

Client Sample ID: VMP-5-31-080611

Lab ID#: 1108188A-03B

EPA METHOD TO-15 GC/MS

** Do not use this data. Use all other data.*

File Name:	14081630	Date of Collection:	8/6/11 9:38:00 AM
Dil. Factor:	2320	Date of Analysis:	8/16/11 05:56 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	12000	Not Detected	57000	Not Detected
Freon 114	12000	Not Detected	81000	Not Detected
Chloromethane	46000	Not Detected	96000	Not Detected
Vinyl Chloride	12000	Not Detected	30000	Not Detected
1,3-Butadiene	12000	Not Detected	26000	Not Detected
Bromomethane	12000	Not Detected	45000	Not Detected
Chloroethane	46000	Not Detected	120000	Not Detected
Freon 11	12000	Not Detected	65000	Not Detected
Ethanol	46000	Not Detected	87000	Not Detected
Freon 113	12000	Not Detected	89000	Not Detected
1,1-Dichloroethene	12000	Not Detected	46000	Not Detected
Acetone	46000	Not Detected	110000	Not Detected
2-Propanol	46000	14000 J	110000	34000 J
Carbon Disulfide	12000	2100 J	36000	6400 J
3-Chloropropene	46000	Not Detected	140000	Not Detected
Methylene Chloride	12000	Not Detected	40000	Not Detected
Methyl tert-butyl ether	12000	Not Detected	42000	Not Detected
trans-1,2-Dichloroethene	12000	Not Detected	46000	Not Detected
Hexane	12000	1600000	41000	5800000
1,1-Dichloroethane	12000	Not Detected	47000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	46000	Not Detected	140000	Not Detected
cis-1,2-Dichloroethene	12000	Not Detected	46000	Not Detected
Tetrahydrofuran	12000	Not Detected	34000	Not Detected
Chloroform	12000	Not Detected	57000	Not Detected
1,1,1-Trichloroethane	12000	Not Detected	63000	Not Detected
Cyclohexane	12000	410000	40000	1400000
Carbon Tetrachloride	12000	Not Detected	73000	Not Detected
2,2,4-Trimethylpentane	12000	790000	54000	3700000
Benzene	12000	20000	37000	64000
1,2-Dichloroethane	12000	Not Detected	47000	Not Detected
Heptane	12000	190000	48000	780000
Trichloroethene	12000	Not Detected	62000	Not Detected
1,2-Dichloropropane	12000	Not Detected	54000	Not Detected
1,4-Dioxane	46000	Not Detected	170000	Not Detected
Bromodichloromethane	12000	Not Detected	78000	Not Detected
cis-1,3-Dichloropropene	12000	Not Detected	53000	Not Detected
4-Methyl-2-pentanone	12000	Not Detected	48000	Not Detected
Toluene	12000	Not Detected	44000	Not Detected
trans-1,3-Dichloropropene	12000	Not Detected	53000	Not Detected
1,1,2-Trichloroethane	12000	Not Detected	63000	Not Detected
Tetrachloroethene	12000	Not Detected	79000	Not Detected

Client Sample ID: VMP-5-31-080611

Lab ID#: 1108188A-03B

EPA METHOD TO-15 GC/MS

File Name:	14081630	Date of Collection: 8/6/11 9:38:00 AM
Dil. Factor:	2320	Date of Analysis: 8/16/11 05:56 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	46000	Not Detected	190000	Not Detected
Dibromochloromethane	12000	Not Detected	99000	Not Detected
1,2-Dibromoethane (EDB)	12000	Not Detected	89000	Not Detected
Chlorobenzene	12000	Not Detected	53000	Not Detected
Ethyl Benzene	12000	Not Detected	50000	Not Detected
m,p-Xylene	12000	Not Detected	50000	Not Detected
o-Xylene	12000	Not Detected	50000	Not Detected
Styrene	12000	Not Detected	49000	Not Detected
Bromoform	12000	Not Detected	120000	Not Detected
Cumene	12000	Not Detected	57000	Not Detected
1,1,2,2-Tetrachloroethane	12000	Not Detected	80000	Not Detected
Propylbenzene	12000	Not Detected	57000	Not Detected
4-Ethyltoluene	12000	Not Detected	57000	Not Detected
1,3,5-Trimethylbenzene	12000	Not Detected	57000	Not Detected
1,2,4-Trimethylbenzene	12000	Not Detected	57000	Not Detected
1,3-Dichlorobenzene	12000	Not Detected	70000	Not Detected
1,4-Dichlorobenzene	12000	Not Detected	70000	Not Detected
alpha-Chlorotoluene	12000	Not Detected	60000	Not Detected
1,2-Dichlorobenzene	12000	Not Detected	70000	Not Detected
1,2,4-Trichlorobenzene	46000	Not Detected	340000	Not Detected
Hexachlorobutadiene	46000	Not Detected	490000	Not Detected
* Butane	46000	18000000 E	110000	43000000 E
* Isopentane	46000	10000000 E	140000	48000000 E

J = Estimated value.

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: VMP-3-22-080611

Lab ID#: 1108188A-04A

EPA METHOD TO-15 GC/MS

EPA METHOD 1631 GC/MS				
File Name:	14081629	Date of Collection: 8/6/11 2:24:00 PM		
Dil. Factor:	3.95	Date of Analysis: 8/16/11 05:25 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	20	Not Detected	98	Not Detected
Freon 114	20	Not Detected	140	Not Detected
Chloromethane	79	Not Detected	160	Not Detected
Vinyl Chloride	20	Not Detected	50	Not Detected
1,3-Butadiene	20	Not Detected	44	Not Detected
Bromomethane	20	Not Detected	77	Not Detected
Chloroethane	79	Not Detected	210	Not Detected
Freon 11	20	Not Detected	110	Not Detected
Ethanol	79	87	150	160
Freon 113	20	Not Detected	150	Not Detected
1,1-Dichloroethene	20	Not Detected	78	Not Detected
Acetone	79	32 J	190	75 J
2-Propanol	79	46 J	190	110 J
Carbon Disulfide	20	Not Detected	62	Not Detected
3-Chloropropene	79	Not Detected	250	Not Detected
Methylene Chloride	20	Not Detected	69	Not Detected
Methyl tert-butyl ether	20	Not Detected	71	Not Detected
trans-1,2-Dichloroethene	20	Not Detected	78	Not Detected
Hexane	20	860	70	3000
1,1-Dichloroethane	20	Not Detected	80	Not Detected
2-Butanone (Methyl Ethyl Ketone)	79	Not Detected	230	Not Detected
cis-1,2-Dichloroethene	20	Not Detected	78	Not Detected
Tetrahydrofuran	20	Not Detected	58	Not Detected
Chloroform	20	Not Detected	96	Not Detected
1,1,1-Trichloroethane	20	Not Detected	110	Not Detected
Cyclohexane	20	230	68	780
Carbon Tetrachloride	20	Not Detected	120	Not Detected
2,2,4-Trimethylpentane	20	5000	92	23000
Benzene	20	70	63	220
1,2-Dichloroethane	20	Not Detected	80	Not Detected
Heptane	20	120	81	510
Trichloroethene	20	Not Detected	110	Not Detected
1,2-Dichloropropane	20	Not Detected	91	Not Detected
1,4-Dioxane	79	Not Detected	280	Not Detected
Bromodichloromethane	20	Not Detected	130	Not Detected
cis-1,3-Dichloropropene	20	Not Detected	90	Not Detected
4-Methyl-2-pentanone	20	37	81	150
Toluene	20	23	74	87
trans-1,3-Dichloropropene	20	Not Detected	90	Not Detected
1,1,2-Trichloroethane	20	Not Detected	110	Not Detected
Tetrachloroethene	20	Not Detected	130	Not Detected

Client Sample ID: VMP-3-22-080611

Lab ID#: 1108188A-04A

EPA METHOD TO-15 GC/MS

File Name:	14081629	Date of Collection: 8/6/11 2:24:00 PM
Dil. Factor:	3.95	Date of Analysis: 8/16/11 05:25 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	79	Not Detected	320	Not Detected
Dibromochloromethane	20	Not Detected	170	Not Detected
1,2-Dibromoethane (EDB)	20	Not Detected	150	Not Detected
Chlorobenzene	20	Not Detected	91	Not Detected
Ethyl Benzene	20	5.7 J	86	25 J
m,p-Xylene	20	10 J	86	45 J
o-Xylene	20	Not Detected	86	Not Detected
Styrene	20	Not Detected	84	Not Detected
Bromoform	20	Not Detected	200	Not Detected
Cumene	20	12 J	97	59 J
1,1,2,2-Tetrachloroethane	20	Not Detected	140	Not Detected
Propylbenzene	20	Not Detected	97	Not Detected
4-Ethyltoluene	20	Not Detected	97	Not Detected
1,3,5-Trimethylbenzene	20	Not Detected	97	Not Detected
1,2,4-Trimethylbenzene	20	2.9 J	97	14 J
1,3-Dichlorobenzene	20	Not Detected	120	Not Detected
1,4-Dichlorobenzene	20	Not Detected	120	Not Detected
alpha-Chlorotoluene	20	Not Detected	100	Not Detected
1,2-Dichlorobenzene	20	Not Detected	120	Not Detected
1,2,4-Trichlorobenzene	79	Not Detected	590	Not Detected
Hexachlorobutadiene	79	Not Detected	840	Not Detected
Butane	79	7800	190	18000
Isopentane	79	8000	230	24000

J = Estimated value.

Container Type: 1 Liter Summa Canister

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

Client Sample ID: VMP-4-23.5-080611

Lab ID#: 1108188A-05A

EPA METHOD TO-15 GC/MS

**Use these results only. All other data was reported from the 281X dilution analysis.*

File Name: 14081813 Date of Collection: 8/6/11 12:50:00 PM
Dil. Factor: 7020 Date of Analysis: 8/18/11 10:02 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	35000	Not Detected	170000	Not Detected
Freon 114	35000	Not Detected	240000	Not Detected
Chloromethane	140000	Not Detected	290000	Not Detected
Vinyl Chloride	35000	Not Detected	90000	Not Detected
1,3-Butadiene	35000	Not Detected	78000	Not Detected
Bromomethane	35000	Not Detected	140000	Not Detected
Chloroethane	140000	Not Detected	370000	Not Detected
Freon 11	35000	Not Detected	200000	Not Detected
Ethanol	140000	Not Detected	260000	Not Detected
Freon 113	35000	Not Detected	270000	Not Detected
1,1-Dichloroethene	35000	Not Detected	140000	Not Detected
Acetone	140000	Not Detected	330000	Not Detected
2-Propanol	140000	Not Detected	340000	Not Detected
Carbon Disulfide	35000	Not Detected	110000	Not Detected
3-Chloropropene	140000	Not Detected	440000	Not Detected
Methylene Chloride	35000	Not Detected	120000	Not Detected
Methyl tert-butyl ether	35000	Not Detected	130000	Not Detected
trans-1,2-Dichloroethene	35000	Not Detected	140000	Not Detected
Hexane	35000	3100000	120000	11000000
1,1-Dichloroethane	35000	Not Detected	140000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	140000	Not Detected	410000	Not Detected
cis-1,2-Dichloroethene	35000	Not Detected	140000	Not Detected
Tetrahydrofuran	35000	Not Detected	100000	Not Detected
Chloroform	35000	Not Detected	170000	Not Detected
1,1,1-Trichloroethane	35000	Not Detected	190000	Not Detected
Cyclohexane	35000	570000	120000	2000000
Carbon Tetrachloride	35000	Not Detected	220000	Not Detected
2,2,4-Trimethylpentane	35000	600000	160000	2800000
Benzene	35000	91000	110000	290000
1,2-Dichloroethane	35000	Not Detected	140000	Not Detected
Heptane	35000	540000	140000	2200000
Trichloroethene	35000	Not Detected	190000	Not Detected
1,2-Dichloropropane	35000	Not Detected	160000	Not Detected
1,4-Dioxane	140000	Not Detected	500000	Not Detected
Bromodichloromethane	35000	Not Detected	240000	Not Detected
cis-1,3-Dichloropropene	35000	Not Detected	160000	Not Detected
4-Methyl-2-pentanone	35000	Not Detected	140000	Not Detected
Toluene	35000	110000	130000	410000
trans-1,3-Dichloropropene	35000	Not Detected	160000	Not Detected
1,1,2-Trichloroethane	35000	Not Detected	190000	Not Detected
Tetrachloroethene	35000	Not Detected	240000	Not Detected

Client Sample ID: VMP-4-23.5-080611

Lab ID#: 1108188A-05A

EPA METHOD TO-15 GC/MS

File Name:	14081813	Date of Collection: 8/6/11 12:50:00 PM
Dil. Factor:	7020	Date of Analysis: 8/18/11 10:02 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	140000	Not Detected	580000	Not Detected
Dibromochloromethane	35000	Not Detected	300000	Not Detected
1,2-Dibromoethane (EDB)	35000	Not Detected	270000	Not Detected
Chlorobenzene	35000	Not Detected	160000	Not Detected
Ethyl Benzene	35000	41000	150000	180000
m,p-Xylene	35000	60000	150000	260000
o-Xylene	35000	15000 J	150000	65000 J
Styrene	35000	Not Detected	150000	Not Detected
Bromoform	35000	Not Detected	360000	Not Detected
Cumene	35000	Not Detected	170000	Not Detected
1,1,2,2-Tetrachloroethane	35000	Not Detected	240000	Not Detected
Propylbenzene	35000	Not Detected	170000	Not Detected
4-Ethyltoluene	35000	Not Detected	170000	Not Detected
1,3,5-Trimethylbenzene	35000	Not Detected	170000	Not Detected
1,2,4-Trimethylbenzene	35000	Not Detected	170000	Not Detected
1,3-Dichlorobenzene	35000	Not Detected	210000	Not Detected
1,4-Dichlorobenzene	35000	Not Detected	210000	Not Detected
alpha-Chlorotoluene	35000	Not Detected	180000	Not Detected
1,2-Dichlorobenzene	35000	Not Detected	210000	Not Detected
1,2,4-Trichlorobenzene	140000	Not Detected	1000000	Not Detected
Hexachlorobutadiene	140000	Not Detected	1500000	Not Detected
Butane	140000	23000000	330000	56000000
Isopentane	140000	23000000	410000	69000000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: VMP-4-23.5-080611

Lab ID#: 1108188A-05B

EPA METHOD TO-15 GC/MS

** Do not use this data. Use all other data.*

File Name:	14081811	Date of Collection:	8/6/11 12:50:00 PM
Dil. Factor:	281	Date of Analysis:	8/18/11 09:07 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1400	Not Detected	6900	Not Detected
Freon 114	1400	Not Detected	9800	Not Detected
Chloromethane	5600	Not Detected	12000	Not Detected
Vinyl Chloride	1400	Not Detected	3600	Not Detected
1,3-Butadiene	1400	Not Detected	3100	Not Detected
Bromomethane	1400	Not Detected	5400	Not Detected
Chloroethane	5600	Not Detected	15000	Not Detected
Freon 11	1400	Not Detected	7900	Not Detected
Ethanol	5600	Not Detected	10000	Not Detected
Freon 113	1400	Not Detected	11000	Not Detected
1,1-Dichloroethene	1400	Not Detected	5600	Not Detected
Acetone	5600	Not Detected	13000	Not Detected
2-Propanol	5600	Not Detected	14000	Not Detected
Carbon Disulfide	1400	Not Detected	4400	Not Detected
3-Chloropropene	5600	Not Detected	18000	Not Detected
Methylene Chloride	1400	Not Detected	4900	Not Detected
Methyl tert-butyl ether	1400	Not Detected	5100	Not Detected
trans-1,2-Dichloroethene	1400	Not Detected	5600	Not Detected
Hexane	1400	3200000 E	5000	11000000 E
1,1-Dichloroethane	1400	Not Detected	5700	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5600	Not Detected	16000	Not Detected
cis-1,2-Dichloroethene	1400	Not Detected	5600	Not Detected
Tetrahydrofuran	1400	Not Detected	4100	Not Detected
Chloroform	1400	Not Detected	6900	Not Detected
1,1,1-Trichloroethane	1400	Not Detected	7700	Not Detected
Cyclohexane	1400	540000	4800	1900000
Carbon Tetrachloride	1400	Not Detected	8800	Not Detected
2,2,4-Trimethylpentane	1400	600000	6600	2800000
Benzene	1400	88000	4500	280000
1,2-Dichloroethane	1400	Not Detected	5700	Not Detected
Heptane	1400	550000	5800	2200000
Trichloroethene	1400	Not Detected	7600	Not Detected
1,2-Dichloropropane	1400	Not Detected	6500	Not Detected
1,4-Dioxane	5600	Not Detected	20000	Not Detected
Bromodichloromethane	1400	Not Detected	9400	Not Detected
cis-1,3-Dichloropropene	1400	Not Detected	6400	Not Detected
4-Methyl-2-pentanone	1400	Not Detected	5800	Not Detected
Toluene	1400	100000	5300	390000
trans-1,3-Dichloropropene	1400	Not Detected	6400	Not Detected
1,1,2-Trichloroethane	1400	Not Detected	7700	Not Detected
Tetrachloroethene	1400	Not Detected	9500	Not Detected

Client Sample ID: VMP-4-23.5-080611

Lab ID#: 1108188A-05B

EPA METHOD TO-15 GC/MS

File Name:	14081811	Date of Collection: 8/6/11 12:50:00 PM
Dil. Factor:	281	Date of Analysis: 8/18/11 09:07 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5600	Not Detected	23000	Not Detected
Dibromochloromethane	1400	Not Detected	12000	Not Detected
1,2-Dibromoethane (EDB)	1400	Not Detected	11000	Not Detected
Chlorobenzene	1400	Not Detected	6500	Not Detected
Ethyl Benzene	1400	42000	6100	180000
m,p-Xylene	1400	75000	6100	320000
o-Xylene	1400	21000	6100	91000
Styrene	1400	Not Detected	6000	Not Detected
Bromoform	1400	Not Detected	14000	Not Detected
Cumene	1400	1300 J	6900	6600 J
1,1,2,2-Tetrachloroethane	1400	Not Detected	9600	Not Detected
Propylbenzene	1400	1600	6900	7600
4-Ethyltoluene	1400	4400	6900	21000
1,3,5-Trimethylbenzene	1400	1200 J	6900	6100 J
1,2,4-Trimethylbenzene	1400	2200	6900	11000
1,3-Dichlorobenzene	1400	Not Detected	8400	Not Detected
1,4-Dichlorobenzene	1400	Not Detected	8400	Not Detected
alpha-Chlorotoluene	1400	Not Detected	7300	Not Detected
1,2-Dichlorobenzene	1400	Not Detected	8400	Not Detected
1,2,4-Trichlorobenzene	5600	Not Detected	42000	Not Detected
Hexachlorobutadiene	5600	Not Detected	60000	Not Detected
* Butane	5600	>21000000 S	13000	>50000000 S
Isopentane	5600	>14000000 S	16000	>40000000 S

E = Exceeds instrument calibration range.

J = Estimated value.

S = Saturated peak; data reported as estimated.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: VMP-6-5-080411

Lab ID#: 1108188A-06A

EPA METHOD TO-15 GC/MS

** Use these results only. All other data was reported from the 13.4X dilution analysis.*

File Name:	14081816	Date of Collection: 8/4/11 9:03:00 AM		
Dil. Factor:	22.3	Date of Analysis: 8/18/11 11:11 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	110	Not Detected	550	Not Detected
Freon 114	110	Not Detected	780	Not Detected
Chloromethane	450	Not Detected	920	Not Detected
Vinyl Chloride	110	Not Detected	280	Not Detected
1,3-Butadiene	110	Not Detected	250	Not Detected
Bromomethane	110	Not Detected	430	Not Detected
Chloroethane	450	Not Detected	1200	Not Detected
Freon 11	110	Not Detected	630	Not Detected
Ethanol	450	Not Detected	840	Not Detected
Freon 113	110	Not Detected	850	Not Detected
1,1-Dichloroethene	110	Not Detected	440	Not Detected
Acetone	450	Not Detected	1000	Not Detected
2-Propanol	450	Not Detected	1100	Not Detected
Carbon Disulfide	110	Not Detected	350	Not Detected
3-Chloropropene	450	Not Detected	1400	Not Detected
Methylene Chloride	110	Not Detected	390	Not Detected
Methyl tert-butyl ether	110	Not Detected	400	Not Detected
trans-1,2-Dichloroethene	110	Not Detected	440	Not Detected
Hexane	110	10000	390	36000
1,1-Dichloroethane	110	Not Detected	450	Not Detected
2-Butanone (Methyl Ethyl Ketone)	450	Not Detected	1300	Not Detected
cis-1,2-Dichloroethene	110	Not Detected	440	Not Detected
Tetrahydrofuran	110	Not Detected	330	Not Detected
Chloroform	110	Not Detected	540	Not Detected
1,1,1-Trichloroethane	110	Not Detected	610	Not Detected
Cyclohexane	110	1600	380	5700
Carbon Tetrachloride	110	Not Detected	700	Not Detected
2,2,4-Trimethylpentane	110	1600	520	7600
Benzene	110	270	360	850
1,2-Dichloroethane	110	Not Detected	450	Not Detected
Heptane	110	1000	460	4300
Trichloroethene	110	Not Detected	600	Not Detected
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	150	420	580
trans-1,3-Dichloropropene	110	Not Detected	510	Not Detected
1,1,2-Trichloroethane	110	Not Detected	610	Not Detected
Tetrachloroethene	110	Not Detected	760	Not Detected

Client Sample ID: VMP-6-5-080411

Lab ID#: 1108188A-06A

EPA METHOD TO-15 GC/MS

File Name:	14081816	Date of Collection: 8/4/11 9:03:00 AM
Dil. Factor:	22.3	Date of Analysis: 8/18/11 11:11 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
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	510	Not Detected
Ethyl Benzene	110	36 J	480	160 J
m,p-Xylene	110	42 J	480	180 J
o-Xylene	110	Not Detected	480	Not Detected
Styrene	110	Not Detected	470	Not Detected
Bromoform	110	Not Detected	1200	Not Detected
Cumene	110	Not Detected	550	Not Detected
1,1,2,2-Tetrachloroethane	110	Not Detected	760	Not Detected
Propylbenzene	110	Not Detected	550	Not Detected
4-Ethyltoluene	110	Not Detected	550	Not Detected
1,3,5-Trimethylbenzene	110	Not Detected	550	Not Detected
1,2,4-Trimethylbenzene	110	Not Detected	550	Not Detected
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
Butane	450	69000	1100	160000
Isopentane	450	83000	1300	250000

J = Estimated value.

Container Type: 1 Liter Summa Canister

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

Client Sample ID: VMP-6-5-080411

Lab ID#: 1108188A-06B

EPA METHOD TO-15 GC/MS

** Do not use this data. Use all other data.*

File Name:	14081815	Date of Collection: 8/4/11 9:03:00 AM
Dil. Factor:	13.4	Date of Analysis: 8/18/11 10:47 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	67	Not Detected	330	Not Detected
Freon 114	67	Not Detected	470	Not Detected
Chloromethane	270	Not Detected	550	Not Detected
Vinyl Chloride	67	Not Detected	170	Not Detected
1,3-Butadiene	67	Not Detected	150	Not Detected
Bromomethane	67	Not Detected	260	Not Detected
Chloroethane	270	Not Detected	710	Not Detected
Freon 11	67	Not Detected	380	Not Detected
Ethanol	270	Not Detected	500	Not Detected
Freon 113	67	Not Detected	510	Not Detected
1,1-Dichloroethene	67	Not Detected	260	Not Detected
Acetone	270	Not Detected	640	Not Detected
2-Propanol	270	Not Detected	660	Not Detected
Carbon Disulfide	67	Not Detected	210	Not Detected
3-Chloropropene	270	Not Detected	840	Not Detected
Methylene Chloride	67	Not Detected	230	Not Detected
Methyl tert-butyl ether	67	Not Detected	240	Not Detected
trans-1,2-Dichloroethene	67	Not Detected	260	Not Detected
Hexane	67	9100	240	32000
1,1-Dichloroethane	67	Not Detected	270	Not Detected
2-Butanone (Methyl Ethyl Ketone)	270	Not Detected	790	Not Detected
cis-1,2-Dichloroethene	67	Not Detected	260	Not Detected
Tetrahydrofuran	67	Not Detected	200	Not Detected
Chloroform	67	Not Detected	330	Not Detected
1,1,1-Trichloroethane	67	Not Detected	360	Not Detected
Cyclohexane	67	1500	230	5100
Carbon Tetrachloride	67	Not Detected	420	Not Detected
2,2,4-Trimethylpentane	67	1400	310	6500
Benzene	67	230	210	740
1,2-Dichloroethane	67	Not Detected	270	Not Detected
Heptane	67	910	270	3700
Trichloroethene	67	Not Detected	360	Not Detected
1,2-Dichloropropane	67	Not Detected	310	Not Detected
1,4-Dioxane	270	Not Detected	960	Not Detected
Bromodichloromethane	67	Not Detected	450	Not Detected
cis-1,3-Dichloropropene	67	Not Detected	300	Not Detected
4-Methyl-2-pentanone	67	Not Detected	270	Not Detected
Toluene	67	140	250	530
trans-1,3-Dichloropropene	67	Not Detected	300	Not Detected
1,1,2-Trichloroethane	67	Not Detected	360	Not Detected
Tetrachloroethene	67	Not Detected	450	Not Detected

Client Sample ID: VMP-6-5-080411

Lab ID#: 1108188A-06B

EPA METHOD TO-15 GC/MS

File Name:	14081815	Date of Collection: 8/4/11 9:03:00 AM
Dil. Factor:	13.4	Date of Analysis: 8/18/11 10:47 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	270	Not Detected	1100	Not Detected
Dibromochloromethane	67	Not Detected	570	Not Detected
1,2-Dibromoethane (EDB)	67	Not Detected	510	Not Detected
Chlorobenzene	67	Not Detected	310	Not Detected
Ethyl Benzene	67	24 J	290	100 J
m,p-Xylene	67	36 J	290	160 J
o-Xylene	67	Not Detected	290	Not Detected
Styrene	67	Not Detected	280	Not Detected
Bromoform	67	Not Detected	690	Not Detected
Cumene	67	Not Detected	330	Not Detected
1,1,2,2-Tetrachloroethane	67	Not Detected	460	Not Detected
Propylbenzene	67	Not Detected	330	Not Detected
4-Ethyltoluene	67	Not Detected	330	Not Detected
1,3,5-Trimethylbenzene	67	Not Detected	330	Not Detected
1,2,4-Trimethylbenzene	67	Not Detected	330	Not Detected
1,3-Dichlorobenzene	67	Not Detected	400	Not Detected
1,4-Dichlorobenzene	67	Not Detected	400	Not Detected
alpha-Chlorotoluene	67	Not Detected	350	Not Detected
1,2-Dichlorobenzene	67	Not Detected	400	Not Detected
1,2,4-Trichlorobenzene	270	Not Detected	2000	Not Detected
Hexachlorobutadiene	270	Not Detected	2800	Not Detected
~~Butane~~	~~270~~	~~72000 E~~	~~640~~	~~170000 E~~
~~Isopentane~~	~~270~~	~~84000 E~~	~~790~~	~~240000 E~~

J = Estimated value.

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

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

Client Sample ID: VMP-6-10-080411

Lab ID#: 1108188A-07A

EPA METHOD TO-15 GC/MS

** Use these results only. All other data was reported from the 42.8X dilution analysis.*

File Name: 14081818 Date of Collection: 8/4/11 3:33:00 PM
Dil. Factor: 64.2 Date of Analysis: 8/18/11 11:55 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	320	Not Detected	1600	Not Detected
Freon 114	320	Not Detected	2200	Not Detected
Chloromethane	1300	Not Detected	2600	Not Detected
Vinyl Chloride	320	Not Detected	820	Not Detected
1,3-Butadiene	320	Not Detected	710	Not Detected
Bromomethane	320	Not Detected	1200	Not Detected
Chloroethane	1300	Not Detected	3400	Not Detected
Freon 11	320	Not Detected	1800	Not Detected
Ethanol	1300	Not Detected	2400	Not Detected
Freon 113	320	Not Detected	2500	Not Detected
1,1-Dichloroethene	320	Not Detected	1300	Not Detected
Acetone	1300	Not Detected	3000	Not Detected
2-Propanol	1300	Not Detected	3200	Not Detected
Carbon Disulfide	320	Not Detected	1000	Not Detected
3-Chloropropene	1300	Not Detected	4000	Not Detected
Methylene Chloride	320	Not Detected	1100	Not Detected
Methyl tert-butyl ether	320	Not Detected	1200	Not Detected
trans-1,2-Dichloroethene	320	Not Detected	1300	Not Detected
Hexane	320	59000	1100	210000
1,1-Dichloroethane	320	Not Detected	1300	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1300	Not Detected	3800	Not Detected
cis-1,2-Dichloroethene	320	Not Detected	1300	Not Detected
Tetrahydrofuran	320	Not Detected	950	Not Detected
Chloroform	320	Not Detected	1600	Not Detected
1,1,1-Trichloroethane	320	Not Detected	1800	Not Detected
Cyclohexane	320	59000	1100	200000
Carbon Tetrachloride	320	Not Detected	2000	Not Detected
* 2,2,4-Trimethylpentane	320	200000	1500	940000
Benzene	320	580	1000	1900
1,2-Dichloroethane	320	Not Detected	1300	Not Detected
Heptane	320	18000	1300	74000
Trichloroethene	320	Not Detected	1700	Not Detected
1,2-Dichloropropane	320	Not Detected	1500	Not Detected
1,4-Dioxane	1300	Not Detected	4600	Not Detected
Bromodichloromethane	320	Not Detected	2200	Not Detected
cis-1,3-Dichloropropene	320	Not Detected	1400	Not Detected
4-Methyl-2-pentanone	320	Not Detected	1300	Not Detected
Toluene	320	77 J	1200	290 J
trans-1,3-Dichloropropene	320	Not Detected	1400	Not Detected
1,1,2-Trichloroethane	320	Not Detected	1800	Not Detected
Tetrachloroethene	320	Not Detected	2200	Not Detected

Client Sample ID: VMP-6-10-080411

Lab ID#: 1108188A-07A

EPA METHOD TO-15 GC/MS

File Name:	14081818	Date of Collection: 8/4/11 3:33:00 PM
Dil. Factor:	64.2	Date of Analysis: 8/18/11 11:55 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	1300	Not Detected	5200	Not Detected
Dibromochloromethane	320	Not Detected	2700	Not Detected
1,2-Dibromoethane (EDB)	320	Not Detected	2500	Not Detected
Chlorobenzene	320	Not Detected	1500	Not Detected
Ethyl Benzene	320	63 J	1400	270 J
m,p-Xylene	320	Not Detected	1400	Not Detected
o-Xylene	320	Not Detected	1400	Not Detected
Styrene	320	Not Detected	1400	Not Detected
Bromoform	320	Not Detected	3300	Not Detected
Cumene	320	Not Detected	1600	Not Detected
1,1,2,2-Tetrachloroethane	320	Not Detected	2200	Not Detected
Propylbenzene	320	Not Detected	1600	Not Detected
4-Ethyltoluene	320	Not Detected	1600	Not Detected
1,3,5-Trimethylbenzene	320	Not Detected	1600	Not Detected
1,2,4-Trimethylbenzene	320	Not Detected	1600	Not Detected
1,3-Dichlorobenzene	320	Not Detected	1900	Not Detected
1,4-Dichlorobenzene	320	Not Detected	1900	Not Detected
alpha-Chlorotoluene	320	Not Detected	1700	Not Detected
1,2-Dichlorobenzene	320	Not Detected	1900	Not Detected
1,2,4-Trichlorobenzene	1300	Not Detected	9500	Not Detected
Hexachlorobutadiene	1300	Not Detected	14000	Not Detected
Butane	1300	170000	3000	410000
Isopentane	1300	260000	3800	770000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: VMP-6-10-080411

Lab ID#: 1108188A-07B

EPA METHOD TO-15 GC/MS

**Do not use this data. Use all other data.*

File Name:	14081817	Date of Collection: 8/4/11 3:33:00 PM		
Dil. Factor:	42.8	Date of Analysis: 8/18/11 11:33 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	210	Not Detected	1000	Not Detected
Freon 114	210	Not Detected	1500	Not Detected
Chloromethane	860	Not Detected	1800	Not Detected
Vinyl Chloride	210	Not Detected	550	Not Detected
1,3-Butadiene	210	Not Detected	470	Not Detected
Bromomethane	210	Not Detected	830	Not Detected
Chloroethane	860	Not Detected	2200	Not Detected
Freon 11	210	Not Detected	1200	Not Detected
Ethanol	860	Not Detected	1600	Not Detected
Freon 113	210	Not Detected	1600	Not Detected
1,1-Dichloroethene	210	Not Detected	850	Not Detected
Acetone	860	Not Detected	2000	Not Detected
2-Propanol	860	Not Detected	2100	Not Detected
Carbon Disulfide	210	Not Detected	670	Not Detected
3-Chloropropene	860	Not Detected	2700	Not Detected
Methylene Chloride	210	Not Detected	740	Not Detected
Methyl tert-butyl ether	210	Not Detected	770	Not Detected
trans-1,2-Dichloroethene	210	Not Detected	850	Not Detected
Hexane	210	59000	750	210000
1,1-Dichloroethane	210	Not Detected	870	Not Detected
2-Butanone (Methyl Ethyl Ketone)	860	Not Detected	2500	Not Detected
cis-1,2-Dichloroethene	210	Not Detected	850	Not Detected
Tetrahydrofuran	210	Not Detected	630	Not Detected
Chloroform	210	Not Detected	1000	Not Detected
1,1,1-Trichloroethane	210	Not Detected	1200	Not Detected
Cyclohexane	210	63000	740	220000
Carbon Tetrachloride	210	Not Detected	1300	Not Detected
~~2,2,4-Trimethylpentane~~	~~210~~	~~220000 E~~	~~1000~~	~~1000000 E~~
Benzene	210	540	680	1700
1,2-Dichloroethane	210	Not Detected	870	Not Detected
Heptane	210	18000	880	76000
Trichloroethene	210	Not Detected	1200	Not Detected
1,2-Dichloropropane	210	Not Detected	990	Not Detected
1,4-Dioxane	860	Not Detected	3100	Not Detected
Bromodichloromethane	210	Not Detected	1400	Not Detected
cis-1,3-Dichloropropene	210	Not Detected	970	Not Detected
4-Methyl-2-pentanone	210	Not Detected	880	Not Detected
Toluene	210	70 J	810	260 J
trans-1,3-Dichloropropene	210	Not Detected	970	Not Detected
1,1,2-Trichloroethane	210	Not Detected	1200	Not Detected
Tetrachloroethene	210	Not Detected	1400	Not Detected

Client Sample ID: VMP-6-10-080411

Lab ID#: 1108188A-07B

EPA METHOD TO-15 GC/MS

File Name:	14081817	Date of Collection: 8/4/11 3:33:00 PM
Dil. Factor:	42.8	Date of Analysis: 8/18/11 11:33 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	860	Not Detected	3500	Not Detected
Dibromochloromethane	210	Not Detected	1800	Not Detected
1,2-Dibromoethane (EDB)	210	Not Detected	1600	Not Detected
Chlorobenzene	210	Not Detected	980	Not Detected
Ethyl Benzene	210	42 J	930	180 J
m,p-Xylene	210	Not Detected	930	Not Detected
o-Xylene	210	Not Detected	930	Not Detected
Styrene	210	Not Detected	910	Not Detected
Bromoform	210	Not Detected	2200	Not Detected
Cumene	210	Not Detected	1000	Not Detected
1,1,2,2-Tetrachloroethane	210	Not Detected	1500	Not Detected
Propylbenzene	210	Not Detected	1000	Not Detected
4-Ethyltoluene	210	Not Detected	1000	Not Detected
1,3,5-Trimethylbenzene	210	Not Detected	1000	Not Detected
1,2,4-Trimethylbenzene	210	Not Detected	1000	Not Detected
1,3-Dichlorobenzene	210	Not Detected	1300	Not Detected
1,4-Dichlorobenzene	210	Not Detected	1300	Not Detected
alpha-Chlorotoluene	210	Not Detected	1100	Not Detected
1,2-Dichlorobenzene	210	Not Detected	1300	Not Detected
1,2,4-Trichlorobenzene	860	Not Detected	6400	Not Detected
Hexachlorobutadiene	860	Not Detected	9100	Not Detected
Butane	860	170000	2000	400000
~~Isopentane~~	~~860~~	~~260000 E~~	~~2500~~	~~760000 E~~

E = Exceeds instrument calibration range.

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	126	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: VMP-6-31.5-080411

Lab ID#: 1108188A-08A

EPA METHOD TO-15 GC/MS

File Name:	14081819	Date of Collection: 8/4/11 4:49:00 PM		
Dil. Factor:	278	Date of Analysis: 8/18/11 12:20 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1400	Not Detected	6900	Not Detected
Freon 114	1400	Not Detected	9700	Not Detected
Chloromethane	5600	Not Detected	11000	Not Detected
Vinyl Chloride	1400	Not Detected	3600	Not Detected
1,3-Butadiene	1400	Not Detected	3100	Not Detected
Bromomethane	1400	Not Detected	5400	Not Detected
Chloroethane	5600	Not Detected	15000	Not Detected
Freon 11	1400	Not Detected	7800	Not Detected
Ethanol	5600	Not Detected	10000	Not Detected
Freon 113	1400	Not Detected	11000	Not Detected
1,1-Dichloroethene	1400	Not Detected	5500	Not Detected
Acetone	5600	Not Detected	13000	Not Detected
2-Propanol	5600	Not Detected	14000	Not Detected
Carbon Disulfide	1400	Not Detected	4300	Not Detected
3-Chloropropene	5600	Not Detected	17000	Not Detected
Methylene Chloride	1400	Not Detected	4800	Not Detected
Methyl tert-butyl ether	1400	Not Detected	5000	Not Detected
trans-1,2-Dichloroethene	1400	Not Detected	5500	Not Detected
Hexane	1400	560000	4900	2000000
1,1-Dichloroethane	1400	Not Detected	5600	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5600	Not Detected	16000	Not Detected
cis-1,2-Dichloroethene	1400	Not Detected	5500	Not Detected
Tetrahydrofuran	1400	Not Detected	4100	Not Detected
Chloroform	1400	Not Detected	6800	Not Detected
1,1,1-Trichloroethane	1400	Not Detected	7600	Not Detected
Cyclohexane	1400	220000	4800	770000
Carbon Tetrachloride	1400	Not Detected	8700	Not Detected
2,2,4-Trimethylpentane	1400	420000	6500	2000000
Benzene	1400	3500	4400	11000
1,2-Dichloroethane	1400	Not Detected	5600	Not Detected
Heptane	1400	250000	5700	1000000
Trichloroethene	1400	Not Detected	7500	Not Detected
1,2-Dichloropropane	1400	Not Detected	6400	Not Detected
1,4-Dioxane	5600	Not Detected	20000	Not Detected
Bromodichloromethane	1400	Not Detected	9300	Not Detected
cis-1,3-Dichloropropene	1400	Not Detected	6300	Not Detected
4-Methyl-2-pentanone	1400	Not Detected	5700	Not Detected
Toluene	1400	390 J	5200	1500 J
trans-1,3-Dichloropropene	1400	Not Detected	6300	Not Detected
1,1,2-Trichloroethane	1400	Not Detected	7600	Not Detected
Tetrachloroethene	1400	Not Detected	9400	Not Detected

Client Sample ID: VMP-6-31.5-080411

Lab ID#: 1108188A-08A

EPA METHOD TO-15 GC/MS

File Name:	14081819	Date of Collection: 8/4/11 4:49:00 PM		
Dil. Factor:	278	Date of Analysis: 8/18/11 12:20 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5600	Not Detected	23000	Not Detected
Dibromochloromethane	1400	Not Detected	12000	Not Detected
1,2-Dibromoethane (EDB)	1400	Not Detected	11000	Not Detected
Chlorobenzene	1400	Not Detected	6400	Not Detected
Ethyl Benzene	1400	4600	6000	20000
m,p-Xylene	1400	1200 J	6000	5200 J
o-Xylene	1400	Not Detected	6000	Not Detected
Styrene	1400	Not Detected	5900	Not Detected
Bromoform	1400	Not Detected	14000	Not Detected
Cumene	1400	410 J	6800	2000 J
1,1,2,2-Tetrachloroethane	1400	Not Detected	9500	Not Detected
Propylbenzene	1400	630 J	6800	3100 J
4-Ethyltoluene	1400	Not Detected	6800	Not Detected
1,3,5-Trimethylbenzene	1400	Not Detected	6800	Not Detected
1,2,4-Trimethylbenzene	1400	Not Detected	6800	Not Detected
1,3-Dichlorobenzene	1400	Not Detected	8400	Not Detected
1,4-Dichlorobenzene	1400	Not Detected	8400	Not Detected
alpha-Chlorotoluene	1400	Not Detected	7200	Not Detected
1,2-Dichlorobenzene	1400	Not Detected	8400	Not Detected
1,2,4-Trichlorobenzene	5600	Not Detected	41000	Not Detected
Hexachlorobutadiene	5600	Not Detected	59000	Not Detected
Butane	5600	460000	13000	1100000
Isopentane	5600	570000	16000	1700000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: VMP-16-5-080511

Lab ID#: 1108188A-09A

EPA METHOD TO-15 GC/MS

** Use these results only. All other data was reported from the 56.2X dilution analysis.*

File Name: 14081638 Date of Collection: 8/5/11 11:03:00 AM
Dil. Factor: 140 Date of Analysis: 8/16/11 09:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	700	Not Detected	3500	Not Detected
Freon 114	700	Not Detected	4900	Not Detected
Chloromethane	2800	Not Detected	5800	Not Detected
Vinyl Chloride	700	Not Detected	1800	Not Detected
1,3-Butadiene	700	Not Detected	1500	Not Detected
Bromomethane	700	Not Detected	2700	Not Detected
Chloroethane	2800	Not Detected	7400	Not Detected
Freon 11	700	Not Detected	3900	Not Detected
Ethanol	2800	Not Detected	5300	Not Detected
Freon 113	700	Not Detected	5400	Not Detected
1,1-Dichloroethene	700	Not Detected	2800	Not Detected
Acetone	2800	Not Detected	6600	Not Detected
2-Propanol	2800	Not Detected	6900	Not Detected
Carbon Disulfide	700	Not Detected	2200	Not Detected
3-Chloropropene	2800	Not Detected	8800	Not Detected
Methylene Chloride	700	Not Detected	2400	Not Detected
Methyl tert-butyl ether	700	Not Detected	2500	Not Detected
trans-1,2-Dichloroethene	700	Not Detected	2800	Not Detected
Hexane	700	1100	2500	4000
1,1-Dichloroethane	700	Not Detected	2800	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2800	Not Detected	8200	Not Detected
cis-1,2-Dichloroethene	700	Not Detected	2800	Not Detected
Tetrahydrofuran	700	Not Detected	2100	Not Detected
Chloroform	700	Not Detected	3400	Not Detected
1,1,1-Trichloroethane	700	Not Detected	3800	Not Detected
Cyclohexane	700	6100	2400	21000
Carbon Tetrachloride	700	Not Detected	4400	Not Detected
2,2,4-Trimethylpentane	700	440000	3300	2100000
Benzene	700	840	2200	2700
1,2-Dichloroethane	700	Not Detected	2800	Not Detected
Heptane	700	Not Detected	2900	Not Detected
Trichloroethene	700	Not Detected	3800	Not Detected
1,2-Dichloropropane	700	Not Detected	3200	Not Detected
1,4-Dioxane	2800	Not Detected	10000	Not Detected
Bromodichloromethane	700	Not Detected	4700	Not Detected
cis-1,3-Dichloropropene	700	Not Detected	3200	Not Detected
4-Methyl-2-pentanone	700	Not Detected	2900	Not Detected
Toluene	700	Not Detected	2600	Not Detected
trans-1,3-Dichloropropene	700	Not Detected	3200	Not Detected
1,1,2-Trichloroethane	700	Not Detected	3800	Not Detected
Tetrachloroethene	700	Not Detected	4700	Not Detected

Client Sample ID: VMP-16-5-080511

Lab ID#: 1108188A-09A

EPA METHOD TO-15 GC/MS

File Name:	14081638	Date of Collection: 8/5/11 11:03:00 AM
Dil. Factor:	140	Date of Analysis: 8/16/11 09:30 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2800	Not Detected	11000	Not Detected
Dibromochloromethane	700	Not Detected	6000	Not Detected
1,2-Dibromoethane (EDB)	700	Not Detected	5400	Not Detected
Chlorobenzene	700	Not Detected	3200	Not Detected
Ethyl Benzene	700	Not Detected	3000	Not Detected
m,p-Xylene	700	Not Detected	3000	Not Detected
o-Xylene	700	Not Detected	3000	Not Detected
Styrene	700	Not Detected	3000	Not Detected
Bromoform	700	Not Detected	7200	Not Detected
Cumene	700	Not Detected	3400	Not Detected
1,1,2,2-Tetrachloroethane	700	Not Detected	4800	Not Detected
Propylbenzene	700	Not Detected	3400	Not Detected
4-Ethyltoluene	700	Not Detected	3400	Not Detected
1,3,5-Trimethylbenzene	700	Not Detected	3400	Not Detected
1,2,4-Trimethylbenzene	700	Not Detected	3400	Not Detected
1,3-Dichlorobenzene	700	Not Detected	4200	Not Detected
1,4-Dichlorobenzene	700	Not Detected	4200	Not Detected
alpha-Chlorotoluene	700	Not Detected	3600	Not Detected
1,2-Dichlorobenzene	700	Not Detected	4200	Not Detected
1,2,4-Trichlorobenzene	2800	Not Detected	21000	Not Detected
Hexachlorobutadiene	2800	Not Detected	30000	Not Detected
Butane	2800	20000	6600	47000
Isopentane	2800	240000	8300	720000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: VMP-16-5-080511

Lab ID#: 1108188A-09B

EPA METHOD TO-15 GC/MS

** Do not use these results. Use all other data*

File Name: 14081637 Date of Collection: 8/5/11 11:03:00 AM
Dil. Factor: 56.2 Date of Analysis: 8/16/11 09:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	280	Not Detected	1400	Not Detected
Freon 114	280	Not Detected	2000	Not Detected
Chloromethane	1100	Not Detected	2300	Not Detected
Vinyl Chloride	280	Not Detected	720	Not Detected
1,3-Butadiene	280	Not Detected	620	Not Detected
Bromomethane	280	Not Detected	1100	Not Detected
Chloroethane	1100	Not Detected	3000	Not Detected
Freon 11	280	Not Detected	1600	Not Detected
Ethanol	1100	Not Detected	2100	Not Detected
Freon 113	280	Not Detected	2200	Not Detected
1,1-Dichloroethene	280	Not Detected	1100	Not Detected
Acetone	1100	210 J	2700	500 J
2-Propanol	1100	Not Detected	2800	Not Detected
Carbon Disulfide	280	Not Detected	880	Not Detected
3-Chloropropene	1100	Not Detected	3500	Not Detected
Methylene Chloride	280	Not Detected	980	Not Detected
Methyl tert-butyl ether	280	82 J	1000	290 J
trans-1,2-Dichloroethene	280	Not Detected	1100	Not Detected
Hexane	280	410	990	1400
1,1-Dichloroethane	280	Not Detected	1100	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1100	Not Detected	3300	Not Detected
cis-1,2-Dichloroethene	280	Not Detected	1100	Not Detected
Tetrahydrofuran	280	Not Detected	830	Not Detected
Chloroform	280	Not Detected	1400	Not Detected
1,1,1-Trichloroethane	280	Not Detected	1500	Not Detected
Cyclohexane	280	6500	970	22000
Carbon Tetrachloride	280	Not Detected	1800	Not Detected
~~2,2,4-Trimethylpentane~~	~~280~~	~~500000 E~~	~~1300~~	~~2900000 E~~
Benzene	280	900	900	2900
1,2-Dichloroethane	280	Not Detected	1100	Not Detected
Heptane	280	Not Detected	1200	Not Detected
Trichloroethene	280	Not Detected	1500	Not Detected
1,2-Dichloropropane	280	Not Detected	1300	Not Detected
1,4-Dioxane	1100	Not Detected	4000	Not Detected
Bromodichloromethane	280	Not Detected	1900	Not Detected
cis-1,3-Dichloropropene	280	Not Detected	1300	Not Detected
4-Methyl-2-pentanone	280	Not Detected	1200	Not Detected
Toluene	280	Not Detected	1000	Not Detected
trans-1,3-Dichloropropene	280	Not Detected	1300	Not Detected
1,1,2-Trichloroethane	280	Not Detected	1500	Not Detected
Tetrachloroethene	280	Not Detected	1900	Not Detected

Client Sample ID: VMP-16-5-080511

Lab ID#: 1108188A-09B

EPA METHOD TO-15 GC/MS

File Name:	14081637	Date of Collection: 8/5/11 11:03:00 AM
Dil. Factor:	56.2	Date of Analysis: 8/16/11 09:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	1100	Not Detected	4600	Not Detected
Dibromochloromethane	280	Not Detected	2400	Not Detected
1,2-Dibromoethane (EDB)	280	Not Detected	2200	Not Detected
Chlorobenzene	280	Not Detected	1300	Not Detected
Ethyl Benzene	280	Not Detected	1200	Not Detected
m,p-Xylene	280	Not Detected	1200	Not Detected
o-Xylene	280	Not Detected	1200	Not Detected
Styrene	280	Not Detected	1200	Not Detected
Bromoform	280	Not Detected	2900	Not Detected
Cumene	280	Not Detected	1400	Not Detected
1,1,2,2-Tetrachloroethane	280	Not Detected	1900	Not Detected
Propylbenzene	280	Not Detected	1400	Not Detected
4-Ethyltoluene	280	Not Detected	1400	Not Detected
1,3,5-Trimethylbenzene	280	Not Detected	1400	Not Detected
1,2,4-Trimethylbenzene	280	Not Detected	1400	Not Detected
1,3-Dichlorobenzene	280	Not Detected	1700	Not Detected
1,4-Dichlorobenzene	280	Not Detected	1700	Not Detected
alpha-Chlorotoluene	280	Not Detected	1400	Not Detected
1,2-Dichlorobenzene	280	Not Detected	1700	Not Detected
1,2,4-Trichlorobenzene	1100	Not Detected	8300	Not Detected
Hexachlorobutadiene	1100	Not Detected	12000	Not Detected
Butane	1100	16000	2700	39000
Isopentane	1100	260000	3300	760000

J = Estimated value.

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	123	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: VMP-16-13.5-080511

Lab ID#: 1108188A-10A

EPA METHOD TO-15 GC/MS

File Name:	14081820	Date of Collection: 8/5/11 12:08:00 PM
Dil. Factor:	27.6	Date of Analysis: 8/18/11 12:43 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	140	Not Detected	680	Not Detected
Freon 114	140	Not Detected	960	Not Detected
Chloromethane	550	Not Detected	1100	Not Detected
Vinyl Chloride	140	Not Detected	350	Not Detected
1,3-Butadiene	140	Not Detected	300	Not Detected
Bromomethane	140	Not Detected	540	Not Detected
Chloroethane	550	Not Detected	1400	Not Detected
Freon 11	140	Not Detected	780	Not Detected
Ethanol	550	Not Detected	1000	Not Detected
Freon 113	140	Not Detected	1000	Not Detected
1,1-Dichloroethene	140	Not Detected	550	Not Detected
Acetone	550	Not Detected	1300	Not Detected
2-Propanol	550	Not Detected	1400	Not Detected
Carbon Disulfide	140	Not Detected	430	Not Detected
3-Chloropropene	550	Not Detected	1700	Not Detected
Methylene Chloride	140	Not Detected	480	Not Detected
Methyl tert-butyl ether	140	80 J	500	290 J
trans-1,2-Dichloroethene	140	Not Detected	550	Not Detected
Hexane	140	1600	490	5800
1,1-Dichloroethane	140	Not Detected	560	Not Detected
2-Butanone (Methyl Ethyl Ketone)	550	Not Detected	1600	Not Detected
cis-1,2-Dichloroethene	140	Not Detected	550	Not Detected
Tetrahydrofuran	140	Not Detected	410	Not Detected
Chloroform	140	Not Detected	670	Not Detected
1,1,1-Trichloroethane	140	Not Detected	750	Not Detected
Cyclohexane	140	1800	480	6400
Carbon Tetrachloride	140	Not Detected	870	Not Detected
2,2,4-Trimethylpentane	140	130000	640	610000
Benzene	140	170	440	540
1,2-Dichloroethane	140	Not Detected	560	Not Detected
Heptane	140	Not Detected	560	Not Detected
Trichloroethene	140	Not Detected	740	Not Detected
1,2-Dichloropropane	140	Not Detected	640	Not Detected
1,4-Dioxane	550	Not Detected	2000	Not Detected
Bromodichloromethane	140	Not Detected	920	Not Detected
cis-1,3-Dichloropropene	140	Not Detected	630	Not Detected
4-Methyl-2-pentanone	140	Not Detected	560	Not Detected
Toluene	140	31 J	520	120 J
trans-1,3-Dichloropropene	140	Not Detected	630	Not Detected
1,1,2-Trichloroethane	140	Not Detected	750	Not Detected
Tetrachloroethene	140	Not Detected	940	Not Detected

Client Sample ID: VMP-16-13.5-080511

Lab ID#: 1108188A-10A

EPA METHOD TO-15 GC/MS

File Name: 14081820 Date of Collection: 8/5/11 12:08:00 PM
Dil. Factor: 27.6 Date of Analysis: 8/18/11 12:43 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	550	Not Detected	2300	Not Detected
Dibromochloromethane	140	Not Detected	1200	Not Detected
1,2-Dibromoethane (EDB)	140	Not Detected	1100	Not Detected
Chlorobenzene	140	Not Detected	640	Not Detected
Ethyl Benzene	140	Not Detected	600	Not Detected
m,p-Xylene	140	Not Detected	600	Not Detected
o-Xylene	140	Not Detected	600	Not Detected
Styrene	140	Not Detected	590	Not Detected
Bromoform	140	Not Detected	1400	Not Detected
Cumene	140	Not Detected	680	Not Detected
1,1,2,2-Tetrachloroethane	140	Not Detected	950	Not Detected
Propylbenzene	140	Not Detected	680	Not Detected
4-Ethyltoluene	140	Not Detected	680	Not Detected
1,3,5-Trimethylbenzene	140	Not Detected	680	Not Detected
1,2,4-Trimethylbenzene	140	Not Detected	680	Not Detected
1,3-Dichlorobenzene	140	Not Detected	830	Not Detected
1,4-Dichlorobenzene	140	Not Detected	830	Not Detected
alpha-Chlorotoluene	140	Not Detected	710	Not Detected
1,2-Dichlorobenzene	140	Not Detected	830	Not Detected
1,2,4-Trichlorobenzene	550	Not Detected	4100	Not Detected
Hexachlorobutadiene	550	Not Detected	5900	Not Detected
Butane	550	5900	1300	14000
Isopentane	550	64000	1600	190000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	98	70-130

* Client Sample ID: VMP-16-19-080511 * Do not use these results, please see Section 1.0 of Data Review.
Lab ID#: 1108188A-11A
EPA METHOD TO-15 GC/MS

File Name:	14081821	Date of Collection: 8/5/11 1:16:00 PM		
Dil. Factor:	29.7	Date of Analysis: 8/18/11 01:06 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	150	Not Detected	730	Not Detected
Freon 114	150	Not Detected	1000	Not Detected
Chloromethane	590	Not Detected	1200	Not Detected
Vinyl Chloride	150	Not Detected	380	Not Detected
1,3-Butadiene	150	Not Detected	330	Not Detected
Bromomethane	150	Not Detected	580	Not Detected
Chloroethane	590	Not Detected	1600	Not Detected
Freon 11	150	Not Detected	830	Not Detected
Ethanol	590	Not Detected	1100	Not Detected
Freon 113	150	Not Detected	1100	Not Detected
1,1-Dichloroethene	150	Not Detected	590	Not Detected
Acetone	590	Not Detected	1400	Not Detected
2-Propanol	590	Not Detected	1400	Not Detected
Carbon Disulfide	150	Not Detected	460	Not Detected
3-Chloropropene	590	Not Detected	1800	Not Detected
Methylene Chloride	150	Not Detected	520	Not Detected
Methyl tert-butyl ether	150	19 J	540	69 J
trans-1,2-Dichloroethene	150	Not Detected	590	Not Detected
Hexane	150	1100	520	4000
1,1-Dichloroethane	150	Not Detected	600	Not Detected
2-Butanone (Methyl Ethyl Ketone)	590	Not Detected	1800	Not Detected
cis-1,2-Dichloroethene	150	Not Detected	590	Not Detected
Tetrahydrofuran	150	Not Detected	440	Not Detected
Chloroform	150	Not Detected	720	Not Detected
1,1,1-Trichloroethane	150	Not Detected	810	Not Detected
Cyclohexane	150	890	510	3100
Carbon Tetrachloride	150	Not Detected	930	Not Detected
2,2,4-Trimethylpentane	150	90000	690	420000
Benzene	150	160	470	510
1,2-Dichloroethane	150	Not Detected	600	Not Detected
Heptane	150	Not Detected	610	Not Detected
Trichloroethene	150	Not Detected	800	Not Detected
1,2-Dichloropropane	150	Not Detected	690	Not Detected
1,4-Dioxane	590	Not Detected	2100	Not Detected
Bromodichloromethane	150	Not Detected	1000	Not Detected
cis-1,3-Dichloropropene	150	Not Detected	670	Not Detected
4-Methyl-2-pentanone	150	Not Detected	610	Not Detected
Toluene	150	34 J	560	130 J
trans-1,3-Dichloropropene	150	Not Detected	670	Not Detected
1,1,2-Trichloroethane	150	Not Detected	810	Not Detected
Tetrachloroethene	150	Not Detected	1000	Not Detected

Client Sample ID: VMP-16-19-080511

Lab ID#: 1108188A-11A

EPA METHOD TO-15 GC/MS

File Name:	14081821	Date of Collection: 8/5/11 1:16:00 PM		
Dil. Factor:	29.7	Date of Analysis: 8/18/11 01:06 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	590	Not Detected	2400	Not Detected
Dibromochloromethane	150	Not Detected	1300	Not Detected
1,2-Dibromoethane (EDB)	150	Not Detected	1100	Not Detected
Chlorobenzene	150	Not Detected	680	Not Detected
Ethyl Benzene	150	Not Detected	640	Not Detected
m,p-Xylene	150	Not Detected	640	Not Detected
o-Xylene	150	Not Detected	640	Not Detected
Styrene	150	Not Detected	630	Not Detected
Bromoform	150	Not Detected	1500	Not Detected
Cumene	150	Not Detected	730	Not Detected
1,1,2,2-Tetrachloroethane	150	Not Detected	1000	Not Detected
Propylbenzene	150	Not Detected	730	Not Detected
4-Ethyltoluene	150	Not Detected	730	Not Detected
1,3,5-Trimethylbenzene	150	Not Detected	730	Not Detected
1,2,4-Trimethylbenzene	150	Not Detected	730	Not Detected
1,3-Dichlorobenzene	150	Not Detected	890	Not Detected
1,4-Dichlorobenzene	150	Not Detected	890	Not Detected
alpha-Chlorotoluene	150	Not Detected	770	Not Detected
1,2-Dichlorobenzene	150	Not Detected	890	Not Detected
1,2,4-Trichlorobenzene	590	Not Detected	4400	Not Detected
Hexachlorobutadiene	590	Not Detected	6300	Not Detected
Butane	590	1900	1400	4600
Isopentane	590	16000	1800	49000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: VMP-11-5-080711

Lab ID#: 1108188A-12A

EPA METHOD TO-15 GC/MS

File Name:	14081632	Date of Collection: 8/7/11 10:35:00 AM
Dil. Factor:	2.97	Date of Analysis: 8/16/11 06:42 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	15	Not Detected	73	Not Detected
Freon 114	15	Not Detected	100	Not Detected
Chloromethane	59	Not Detected	120	Not Detected
Vinyl Chloride	15	Not Detected	38	Not Detected
1,3-Butadiene	15	Not Detected	33	Not Detected
Bromomethane	15	Not Detected	58	Not Detected
Chloroethane	59	Not Detected	160	Not Detected
Freon 11	15	Not Detected	83	Not Detected
Ethanol	59	24 J	110	46 J
Freon 113	15	Not Detected	110	Not Detected
1,1-Dichloroethene	15	Not Detected	59	Not Detected
Acetone	59	27 J	140	65 J
2-Propanol	59	28 J	140	68 J
Carbon Disulfide	15	Not Detected	46	Not Detected
3-Chloropropene	59	Not Detected	180	Not Detected
Methylene Chloride	15	Not Detected	52	Not Detected
Methyl tert-butyl ether	15	Not Detected	54	Not Detected
trans-1,2-Dichloroethene	15	Not Detected	59	Not Detected
Hexane	15	Not Detected	52	Not Detected
1,1-Dichloroethane	15	Not Detected	60	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	Not Detected	180	Not Detected
cis-1,2-Dichloroethene	15	Not Detected	59	Not Detected
Tetrahydrofuran	15	Not Detected	44	Not Detected
Chloroform	15	Not Detected	72	Not Detected
1,1,1-Trichloroethane	15	Not Detected	81	Not Detected
Cyclohexane	15	Not Detected	51	Not Detected
Carbon Tetrachloride	15	Not Detected	93	Not Detected
2,2,4-Trimethylpentane	15	Not Detected	69	Not Detected
Benzene	15	31	47	100
1,2-Dichloroethane	15	Not Detected	60	Not Detected
Heptane	15	Not Detected	61	Not Detected
Trichloroethene	15	Not Detected	80	Not Detected
1,2-Dichloropropane	15	Not Detected	69	Not Detected
1,4-Dioxane	59	Not Detected	210	Not Detected
Bromodichloromethane	15	Not Detected	100	Not Detected
cis-1,3-Dichloropropene	15	Not Detected	67	Not Detected
4-Methyl-2-pentanone	15	39	61	160
Toluene	15	5.6 J	56	21 J
trans-1,3-Dichloropropene	15	Not Detected	67	Not Detected
1,1,2-Trichloroethane	15	Not Detected	81	Not Detected
Tetrachloroethene	15	Not Detected	100	Not Detected

Client Sample ID: VMP-11-5-080711

Lab ID#: 1108188A-12A

EPA METHOD TO-15 GC/MS

File Name:	14081632	Date of Collection: 8/7/11 10:35:00 AM
Dil. Factor:	2.97	Date of Analysis: 8/16/11 06:42 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	59	Not Detected	240	Not Detected
Dibromochloromethane	15	Not Detected	130	Not Detected
1,2-Dibromoethane (EDB)	15	Not Detected	110	Not Detected
Chlorobenzene	15	Not Detected	68	Not Detected
Ethyl Benzene	15	Not Detected	64	Not Detected
m,p-Xylene	15	2.7 J	64	12 J
o-Xylene	15	Not Detected	64	Not Detected
Styrene	15	Not Detected	63	Not Detected
Bromoform	15	Not Detected	150	Not Detected
Cumene	15	12 J	73	60 J
1,1,2,2-Tetrachloroethane	15	Not Detected	100	Not Detected
Propylbenzene	15	Not Detected	73	Not Detected
4-Ethyltoluene	15	Not Detected	73	Not Detected
1,3,5-Trimethylbenzene	15	Not Detected	73	Not Detected
1,2,4-Trimethylbenzene	15	Not Detected	73	Not Detected
1,3-Dichlorobenzene	15	Not Detected	89	Not Detected
1,4-Dichlorobenzene	15	Not Detected	89	Not Detected
alpha-Chlorotoluene	15	Not Detected	77	Not Detected
1,2-Dichlorobenzene	15	Not Detected	89	Not Detected
1,2,4-Trichlorobenzene	59	Not Detected	440	Not Detected
Hexachlorobutadiene	59	Not Detected	630	Not Detected
Butane	59	Not Detected	140	Not Detected
Isopentane	59	6.3 J	180	19 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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

Client Sample ID: VMP-11-8-080711

Lab ID#: 1108188A-13A

EPA METHOD TO-15 GC/MS

File Name:	14081633	Date of Collection: 8/7/11 12:06:00 PM
Dil. Factor:	2.97	Date of Analysis: 8/16/11 07:05 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	15	Not Detected	73	Not Detected
Freon 114	15	Not Detected	100	Not Detected
Chloromethane	59	Not Detected	120	Not Detected
Vinyl Chloride	15	Not Detected	38	Not Detected
1,3-Butadiene	15	Not Detected	33	Not Detected
Bromomethane	15	Not Detected	58	Not Detected
Chloroethane	59	Not Detected	160	Not Detected
Freon 11	15	Not Detected	83	Not Detected
Ethanol	59	75	110	140
Freon 113	15	Not Detected	110	Not Detected
1,1-Dichloroethene	15	Not Detected	59	Not Detected
Acetone	59	24 J	140	57 J
2-Propanol	59	45 J	140	110 J
Carbon Disulfide	15	Not Detected	46	Not Detected
3-Chloropropene	59	Not Detected	180	Not Detected
Methylene Chloride	15	Not Detected	52	Not Detected
Methyl tert-butyl ether	15	Not Detected	54	Not Detected
trans-1,2-Dichloroethene	15	Not Detected	59	Not Detected
Hexane	15	Not Detected	52	Not Detected
1,1-Dichloroethane	15	Not Detected	60	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	9.5 J	180	28 J
cis-1,2-Dichloroethene	15	Not Detected	59	Not Detected
Tetrahydrofuran	15	Not Detected	44	Not Detected
Chloroform	15	Not Detected	72	Not Detected
1,1,1-Trichloroethane	15	Not Detected	81	Not Detected
Cyclohexane	15	Not Detected	51	Not Detected
Carbon Tetrachloride	15	Not Detected	93	Not Detected
2,2,4-Trimethylpentane	15	Not Detected	69	Not Detected
Benzene	15	100	47	330
1,2-Dichloroethane	15	Not Detected	60	Not Detected
Heptane	15	Not Detected	61	Not Detected
Trichloroethene	15	Not Detected	80	Not Detected
1,2-Dichloropropane	15	Not Detected	69	Not Detected
1,4-Dioxane	59	Not Detected	210	Not Detected
Bromodichloromethane	15	Not Detected	100	Not Detected
cis-1,3-Dichloropropene	15	Not Detected	67	Not Detected
4-Methyl-2-pentanone	15	34	61	140
Toluene	15	5.2 J	56	19 J
trans-1,3-Dichloropropene	15	Not Detected	67	Not Detected
1,1,2-Trichloroethane	15	Not Detected	81	Not Detected
Tetrachloroethene	15	Not Detected	100	Not Detected

Client Sample ID: VMP-11-8-080711

Lab ID#: 1108188A-13A

EPA METHOD TO-15 GC/MS

File Name:	14081633	Date of Collection: 8/7/11 12:06:00 PM
Dil. Factor:	2.97	Date of Analysis: 8/16/11 07:05 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	59	Not Detected	240	Not Detected
Dibromochloromethane	15	Not Detected	130	Not Detected
1,2-Dibromoethane (EDB)	15	Not Detected	110	Not Detected
Chlorobenzene	15	Not Detected	68	Not Detected
Ethyl Benzene	15	Not Detected	64	Not Detected
m,p-Xylene	15	2.4 J	64	10 J
o-Xylene	15	Not Detected	64	Not Detected
Styrene	15	Not Detected	63	Not Detected
Bromoform	15	Not Detected	150	Not Detected
Cumene	15	9.3 J	73	46 J
1,1,2,2-Tetrachloroethane	15	Not Detected	100	Not Detected
Propylbenzene	15	Not Detected	73	Not Detected
4-Ethyltoluene	15	Not Detected	73	Not Detected
1,3,5-Trimethylbenzene	15	Not Detected	73	Not Detected
1,2,4-Trimethylbenzene	15	Not Detected	73	Not Detected
1,3-Dichlorobenzene	15	Not Detected	89	Not Detected
1,4-Dichlorobenzene	15	Not Detected	89	Not Detected
alpha-Chlorotoluene	15	Not Detected	77	Not Detected
1,2-Dichlorobenzene	15	Not Detected	89	Not Detected
1,2,4-Trichlorobenzene	59	Not Detected	440	Not Detected
Hexachlorobutadiene	59	Not Detected	630	Not Detected
Butane	59	Not Detected	140	Not Detected
Isopentane	59	Not Detected	180	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	97	70-130

* Client Sample ID: VMP-11-29-080711 * Do not use these results. Please
Lab ID#: 1108188A-14A See Section 1.0 of Data
Review

EPA METHOD TO-15 GC/MS

File Name:	14081634	Date of Collection: 8/7/11 1:22:00 PM		
Dil. Factor:	2.94	Date of Analysis: 8/16/11 07:28 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	15	Not Detected	73	Not Detected
Freon 114	15	Not Detected	100	Not Detected
Chloromethane	59	Not Detected	120	Not Detected
Vinyl Chloride	15	Not Detected	38	Not Detected
1,3-Butadiene	15	Not Detected	32	Not Detected
Bromomethane	15	Not Detected	57	Not Detected
Chloroethane	59	Not Detected	160	Not Detected
Freon 11	15	Not Detected	82	Not Detected
Ethanol	59	67	110	130
Freon 113	15	Not Detected	110	Not Detected
1,1-Dichloroethene	15	Not Detected	58	Not Detected
Acetone	59	50 J	140	120 J
2-Propanol	59	33 J	140	82 J
Carbon Disulfide	15	Not Detected	46	Not Detected
3-Chloropropene	59	Not Detected	180	Not Detected
Methylene Chloride	15	Not Detected	51	Not Detected
Methyl tert-butyl ether	15	Not Detected	53	Not Detected
trans-1,2-Dichloroethene	15	Not Detected	58	Not Detected
Hexane	15	Not Detected	52	Not Detected
1,1-Dichloroethane	15	Not Detected	60	Not Detected
2-Butanone (Methyl Ethyl Ketone)	59	10 J	170	30 J
cis-1,2-Dichloroethene	15	Not Detected	58	Not Detected
Tetrahydrofuran	15	Not Detected	43	Not Detected
Chloroform	15	Not Detected	72	Not Detected
1,1,1-Trichloroethane	15	Not Detected	80	Not Detected
Cyclohexane	15	21	50	72
Carbon Tetrachloride	15	Not Detected	92	Not Detected
2,2,4-Trimethylpentane	15	Not Detected	69	Not Detected
Benzene	15	94	47	300
1,2-Dichloroethane	15	Not Detected	59	Not Detected
Heptane	15	Not Detected	60	Not Detected
Trichloroethene	15	Not Detected	79	Not Detected
1,2-Dichloropropane	15	Not Detected	68	Not Detected
1,4-Dioxane	59	Not Detected	210	Not Detected
Bromodichloromethane	15	Not Detected	98	Not Detected
cis-1,3-Dichloropropene	15	Not Detected	67	Not Detected
4-Methyl-2-pentanone	15	24	60	99
Toluene	15	50	55	190
trans-1,3-Dichloropropene	15	Not Detected	67	Not Detected
1,1,2-Trichloroethane	15	Not Detected	80	Not Detected
Tetrachloroethene	15	Not Detected	100	Not Detected

Client Sample ID: VMP-11-29-080711

Lab ID#: 1108188A-14A

EPA METHOD TO-15 GC/MS

File Name:	14081634	Date of Collection: 8/7/11 1:22:00 PM
Dil. Factor:	2.94	Date of Analysis: 8/16/11 07:28 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	59	Not Detected	240	Not Detected
Dibromochloromethane	15	Not Detected	120	Not Detected
1,2-Dibromoethane (EDB)	15	Not Detected	110	Not Detected
Chlorobenzene	15	Not Detected	68	Not Detected
Ethyl Benzene	15	Not Detected	64	Not Detected
m,p-Xylene	15	2.2 J	64	9.7 J
o-Xylene	15	Not Detected	64	Not Detected
Styrene	15	Not Detected	63	Not Detected
Bromoform	15	Not Detected	150	Not Detected
Cumene	15	8.0 J	72	39 J
1,1,2,2-Tetrachloroethane	15	Not Detected	100	Not Detected
Propylbenzene	15	Not Detected	72	Not Detected
4-Ethyltoluene	15	Not Detected	72	Not Detected
1,3,5-Trimethylbenzene	15	Not Detected	72	Not Detected
1,2,4-Trimethylbenzene	15	Not Detected	72	Not Detected
1,3-Dichlorobenzene	15	Not Detected	88	Not Detected
1,4-Dichlorobenzene	15	Not Detected	88	Not Detected
alpha-Chlorotoluene	15	Not Detected	76	Not Detected
1,2-Dichlorobenzene	15	Not Detected	88	Not Detected
1,2,4-Trichlorobenzene	59	Not Detected	440	Not Detected
Hexachlorobutadiene	59	Not Detected	630	Not Detected
Butane	59	Not Detected	140	Not Detected
Isopentane	59	35 J	170	100 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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

Client Sample ID: VMP-14-5-080811

Lab ID#: 1108188A-15A

EPA METHOD TO-15 GC/MS

**Use these results only. All other data was reported from the 281 dilution analysis.*

File Name:	14081830	Date of Collection: 8/8/11 9:11:00 AM
Dil. Factor:	468	Date of Analysis: 8/18/11 05:01 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2300	Not Detected	12000	Not Detected
Freon 114	2300	Not Detected	16000	Not Detected
Chloromethane	9400	Not Detected	19000	Not Detected
Vinyl Chloride	2300	Not Detected	6000	Not Detected
1,3-Butadiene	2300	Not Detected	5200	Not Detected
Bromomethane	2300	Not Detected	9100	Not Detected
Chloroethane	9400	Not Detected	25000	Not Detected
Freon 11	2300	Not Detected	13000	Not Detected
Ethanol	9400	Not Detected	18000	Not Detected
Freon 113	2300	Not Detected	18000	Not Detected
1,1-Dichloroethene	2300	Not Detected	9300	Not Detected
Acetone	9400	2700 J	22000	6400 J
2-Propanol	9400	Not Detected	23000	Not Detected
Carbon Disulfide	2300	Not Detected	7300	Not Detected
3-Chloropropene	9400	Not Detected	29000	Not Detected
Methylene Chloride	2300	Not Detected	8100	Not Detected
Methyl tert-butyl ether	2300	Not Detected	8400	Not Detected
trans-1,2-Dichloroethene	2300	Not Detected	9300	Not Detected
Hexane	2300	34000	8200	120000
1,1-Dichloroethane	2300	Not Detected	9500	Not Detected
2-Butanone (Methyl Ethyl Ketone)	9400	Not Detected	28000	Not Detected
cis-1,2-Dichloroethene	2300	Not Detected	9300	Not Detected
Tetrahydrofuran	2300	Not Detected	6900	Not Detected
Chloroform	2300	Not Detected	11000	Not Detected
1,1,1-Trichloroethane	2300	Not Detected	13000	Not Detected
Cyclohexane	2300	26000	8000	89000
Carbon Tetrachloride	2300	Not Detected	15000	Not Detected
2,2,4-Trimethylpentane	2300	27000	11000	120000
Benzene	2300	3800	7500	12000
1,2-Dichloroethane	2300	Not Detected	9500	Not Detected
Heptane	2300	2200 J	9600	8900 J
Trichloroethene	2300	Not Detected	12000	Not Detected
1,2-Dichloropropane	2300	Not Detected	11000	Not Detected
1,4-Dioxane	9400	Not Detected	34000	Not Detected
Bromodichloromethane	2300	Not Detected	16000	Not Detected
cis-1,3-Dichloropropene	2300	Not Detected	11000	Not Detected
4-Methyl-2-pentanone	2300	Not Detected	9600	Not Detected
Toluene	2300	Not Detected	8800	Not Detected
trans-1,3-Dichloropropene	2300	Not Detected	11000	Not Detected
1,1,2-Trichloroethane	2300	Not Detected	13000	Not Detected
Tetrachloroethene	2300	Not Detected	16000	Not Detected

Client Sample ID: VMP-14-5-080811

Lab ID#: 1108188A-15A

EPA METHOD TO-15 GC/MS

File Name:	14081830	Date of Collection: 8/8/11 9:11:00 AM
Dil. Factor:	468	Date of Analysis: 8/18/11 05:01 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	9400	Not Detected	38000	Not Detected
Dibromochloromethane	2300	Not Detected	20000	Not Detected
1,2-Dibromoethane (EDB)	2300	Not Detected	18000	Not Detected
Chlorobenzene	2300	Not Detected	11000	Not Detected
Ethyl Benzene	2300	Not Detected	10000	Not Detected
m,p-Xylene	2300	Not Detected	10000	Not Detected
o-Xylene	2300	Not Detected	10000	Not Detected
Styrene	2300	Not Detected	10000	Not Detected
Bromoform	2300	Not Detected	24000	Not Detected
Cumene	2300	Not Detected	12000	Not Detected
1,1,2,2-Tetrachloroethane	2300	Not Detected	16000	Not Detected
Propylbenzene	2300	Not Detected	12000	Not Detected
4-Ethyltoluene	2300	Not Detected	12000	Not Detected
1,3,5-Trimethylbenzene	2300	Not Detected	12000	Not Detected
1,2,4-Trimethylbenzene	2300	Not Detected	12000	Not Detected
1,3-Dichlorobenzene	2300	Not Detected	14000	Not Detected
1,4-Dichlorobenzene	2300	Not Detected	14000	Not Detected
alpha-Chlorotoluene	2300	Not Detected	12000	Not Detected
1,2-Dichlorobenzene	2300	Not Detected	14000	Not Detected
1,2,4-Trichlorobenzene	9400	Not Detected	69000	Not Detected
Hexachlorobutadiene	9400	Not Detected	100000	Not Detected
Butane	9400	1400000	22000	3300000
Isopentane	9400	1600000	28000	4700000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	110	70-130

Client Sample ID: VMP-14-5-080811

Lab ID#: 1108188A-15B

EPA METHOD TO-15 GC/MS

** Do not use these results. Use all other data.*

File Name: 14081822 Date of Collection: 8/8/11 9:11:00 AM
Dil. Factor: 281 Date of Analysis: 8/18/11 01:31 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1400	Not Detected	6900	Not Detected
Freon 114	1400	Not Detected	9800	Not Detected
Chloromethane	5600	Not Detected	12000	Not Detected
Vinyl Chloride	1400	Not Detected	3600	Not Detected
1,3-Butadiene	1400	Not Detected	3100	Not Detected
Bromomethane	1400	Not Detected	5400	Not Detected
Chloroethane	5600	Not Detected	15000	Not Detected
Freon 11	1400	Not Detected	7900	Not Detected
Ethanol	5600	Not Detected	10000	Not Detected
Freon 113	1400	Not Detected	11000	Not Detected
1,1-Dichloroethene	1400	Not Detected	5600	Not Detected
Acetone	5600	Not Detected	13000	Not Detected
2-Propanol	5600	Not Detected	14000	Not Detected
Carbon Disulfide	1400	Not Detected	4400	Not Detected
3-Chloropropene	5600	Not Detected	18000	Not Detected
Methylene Chloride	1400	Not Detected	4900	Not Detected
Methyl tert-butyl ether	1400	Not Detected	5100	Not Detected
trans-1,2-Dichloroethene	1400	Not Detected	5600	Not Detected
Hexane	1400	35000	5000	120000
1,1-Dichloroethane	1400	Not Detected	5700	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5600	Not Detected	16000	Not Detected
cis-1,2-Dichloroethene	1400	Not Detected	5600	Not Detected
Tetrahydrofuran	1400	Not Detected	4100	Not Detected
Chloroform	1400	Not Detected	6900	Not Detected
1,1,1-Trichloroethane	1400	Not Detected	7700	Not Detected
Cyclohexane	1400	26000	4800	91000
Carbon Tetrachloride	1400	Not Detected	8800	Not Detected
2,2,4-Trimethylpentane	1400	27000	6600	120000
Benzene	1400	4000	4500	13000
1,2-Dichloroethane	1400	Not Detected	5700	Not Detected
Heptane	1400	2500	5800	10000
Trichloroethene	1400	Not Detected	7600	Not Detected
1,2-Dichloropropane	1400	Not Detected	6500	Not Detected
1,4-Dioxane	5600	Not Detected	20000	Not Detected
Bromodichloromethane	1400	Not Detected	9400	Not Detected
cis-1,3-Dichloropropene	1400	Not Detected	6400	Not Detected
4-Methyl-2-pentanone	1400	Not Detected	5800	Not Detected
Toluene	1400	Not Detected	5300	Not Detected
trans-1,3-Dichloropropene	1400	Not Detected	6400	Not Detected
1,1,2-Trichloroethane	1400	Not Detected	7700	Not Detected
Tetrachloroethene	1400	Not Detected	9500	Not Detected

Client Sample ID: VMP-14-5-080811

Lab ID#: 1108188A-15B

EPA METHOD TO-15 GC/MS

File Name:	14081822	Date of Collection: 8/8/11 9:11:00 AM
Dil. Factor:	281	Date of Analysis: 8/18/11 01:31 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5600	Not Detected	23000	Not Detected
Dibromochloromethane	1400	Not Detected	12000	Not Detected
1,2-Dibromoethane (EDB)	1400	Not Detected	11000	Not Detected
Chlorobenzene	1400	Not Detected	6500	Not Detected
Ethyl Benzene	1400	Not Detected	6100	Not Detected
m,p-Xylene	1400	Not Detected	6100	Not Detected
o-Xylene	1400	Not Detected	6100	Not Detected
Styrene	1400	Not Detected	6000	Not Detected
Bromoform	1400	Not Detected	14000	Not Detected
Cumene	1400	Not Detected	6900	Not Detected
1,1,2,2-Tetrachloroethane	1400	Not Detected	9600	Not Detected
Propylbenzene	1400	Not Detected	6900	Not Detected
4-Ethyltoluene	1400	Not Detected	6900	Not Detected
1,3,5-Trimethylbenzene	1400	Not Detected	6900	Not Detected
1,2,4-Trimethylbenzene	1400	Not Detected	6900	Not Detected
1,3-Dichlorobenzene	1400	Not Detected	8400	Not Detected
1,4-Dichlorobenzene	1400	Not Detected	8400	Not Detected
alpha-Chlorotoluene	1400	Not Detected	7300	Not Detected
1,2-Dichlorobenzene	1400	Not Detected	8400	Not Detected
1,2,4-Trichlorobenzene	5600	Not Detected	42000	Not Detected
Hexachlorobutadiene	5600	Not Detected	60000	Not Detected
Butane	5600	1100000	13000	2600000
Isopentane	5600	1400000 E	16000	4200000 E

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

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

Client Sample ID: VMP-14-11.5-080811

Lab ID#: 1108188A-16A

EPA METHOD TO-15 GC/MS

**Use these results only. All other data was reported from the 27.8 dilution analysis.*

File Name: 14081636 Date of Collection: 8/8/11 10:29:00 AM
Dil. Factor: 55.6 Date of Analysis: 8/16/11 08:38 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	280	Not Detected	1400	Not Detected
Freon 114	280	Not Detected	1900	Not Detected
Chloromethane	1100	Not Detected	2300	Not Detected
Vinyl Chloride	280	Not Detected	710	Not Detected
1,3-Butadiene	280	Not Detected	620	Not Detected
Bromomethane	280	Not Detected	1100	Not Detected
Chloroethane	1100	Not Detected	2900	Not Detected
Freon 11	280	Not Detected	1600	Not Detected
Ethanol	1100	Not Detected	2100	Not Detected
Freon 113	280	Not Detected	2100	Not Detected
1,1-Dichloroethene	280	Not Detected	1100	Not Detected
Acetone	1100	Not Detected	2600	Not Detected
2-Propanol	1100	Not Detected	2700	Not Detected
Carbon Disulfide	280	Not Detected	860	Not Detected
3-Chloropropene	1100	Not Detected	3500	Not Detected
Methylene Chloride	280	Not Detected	960	Not Detected
Methyl tert-butyl ether	280	Not Detected	1000	Not Detected
trans-1,2-Dichloroethene	280	Not Detected	1100	Not Detected
Hexane	280	800	980	2800
1,1-Dichloroethane	280	Not Detected	1100	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1100	Not Detected	3300	Not Detected
cis-1,2-Dichloroethene	280	Not Detected	1100	Not Detected
Tetrahydrofuran	280	Not Detected	820	Not Detected
Chloroform	280	Not Detected	1400	Not Detected
1,1,1-Trichloroethane	280	Not Detected	1500	Not Detected
Cyclohexane	280	630	960	2200
Carbon Tetrachloride	280	Not Detected	1700	Not Detected
2,2,4-Trimethylpentane	280	4500	1300	21000
Benzene	280	81 J	890	260 J
1,2-Dichloroethane	280	Not Detected	1100	Not Detected
Heptane	280	Not Detected	1100	Not Detected
Trichloroethene	280	Not Detected	1500	Not Detected
1,2-Dichloropropane	280	Not Detected	1300	Not Detected
1,4-Dioxane	1100	Not Detected	4000	Not Detected
Bromodichloromethane	280	Not Detected	1900	Not Detected
cis-1,3-Dichloropropene	280	Not Detected	1300	Not Detected
4-Methyl-2-pentanone	280	Not Detected	1100	Not Detected
Toluene	280	Not Detected	1000	Not Detected
trans-1,3-Dichloropropene	280	Not Detected	1300	Not Detected
1,1,2-Trichloroethane	280	Not Detected	1500	Not Detected
Tetrachloroethene	280	Not Detected	1900	Not Detected

Client Sample ID: VMP-14-11.5-080811

Lab ID#: 1108188A-16A

EPA METHOD TO-15 GC/MS

File Name:	14081636	Date of Collection:	8/8/11 10:29:00 AM	
Dil. Factor:	55.6	Date of Analysis:	8/16/11 08:38 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	1100	Not Detected	4600	Not Detected
Dibromochloromethane	280	Not Detected	2400	Not Detected
1,2-Dibromoethane (EDB)	280	Not Detected	2100	Not Detected
Chlorobenzene	280	Not Detected	1300	Not Detected
Ethyl Benzene	280	Not Detected	1200	Not Detected
m,p-Xylene	280	Not Detected	1200	Not Detected
o-Xylene	280	Not Detected	1200	Not Detected
Styrene	280	Not Detected	1200	Not Detected
Bromoform	280	Not Detected	2900	Not Detected
Cumene	280	Not Detected	1400	Not Detected
1,1,2,2-Tetrachloroethane	280	Not Detected	1900	Not Detected
Propylbenzene	280	Not Detected	1400	Not Detected
4-Ethyltoluene	280	Not Detected	1400	Not Detected
1,3,5-Trimethylbenzene	280	Not Detected	1400	Not Detected
1,2,4-Trimethylbenzene	280	Not Detected	1400	Not Detected
1,3-Dichlorobenzene	280	Not Detected	1700	Not Detected
1,4-Dichlorobenzene	280	Not Detected	1700	Not Detected
alpha-Chlorotoluene	280	Not Detected	1400	Not Detected
1,2-Dichlorobenzene	280	Not Detected	1700	Not Detected
1,2,4-Trichlorobenzene	1100	Not Detected	8200	Not Detected
Hexachlorobutadiene	1100	Not Detected	12000	Not Detected
Butane	1100	140000	2600	320000
Isopentane	1100	160000	3300	490000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	92	70-130

Client Sample ID: VMP-14-11.5-080811

Lab ID#: 1108188A-16B

EPA METHOD TO-15 GC/MS

**Do not use these results. Use all other data.*

File Name:	14081635	Date of Collection: 8/8/11 10:29:00 AM
Dil. Factor:	27.8	Date of Analysis: 8/16/11 07:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	140	Not Detected	690	Not Detected
Freon 114	140	Not Detected	970	Not Detected
Chloromethane	560	Not Detected	1100	Not Detected
Vinyl Chloride	140	Not Detected	360	Not Detected
1,3-Butadiene	140	Not Detected	310	Not Detected
Bromomethane	140	Not Detected	540	Not Detected
Chloroethane	560	93 J	1500	240 J
Freon 11	140	Not Detected	780	Not Detected
Ethanol	560	Not Detected	1000	Not Detected
Freon 113	140	Not Detected	1100	Not Detected
1,1-Dichloroethene	140	Not Detected	550	Not Detected
Acetone	560	Not Detected	1300	Not Detected
2-Propanol	560	Not Detected	1400	Not Detected
Carbon Disulfide	140	Not Detected	430	Not Detected
3-Chloropropene	560	Not Detected	1700	Not Detected
Methylene Chloride	140	Not Detected	480	Not Detected
Methyl tert-butyl ether	140	Not Detected	500	Not Detected
trans-1,2-Dichloroethene	140	Not Detected	550	Not Detected
Hexane	140	340	490	1200
1,1-Dichloroethane	140	Not Detected	560	Not Detected
2-Butanone (Methyl Ethyl Ketone)	560	Not Detected	1600	Not Detected
cis-1,2-Dichloroethene	140	Not Detected	550	Not Detected
Tetrahydrofuran	140	Not Detected	410	Not Detected
Chloroform	140	Not Detected	680	Not Detected
1,1,1-Trichloroethane	140	Not Detected	760	Not Detected
Cyclohexane	140	470	480	1600
Carbon Tetrachloride	140	Not Detected	870	Not Detected
2,2,4-Trimethylpentane	140	4300	650	20000
Benzene	140	57 J	440	180 J
1,2-Dichloroethane	140	Not Detected	560	Not Detected
Heptane	140	Not Detected	570	Not Detected
Trichloroethene	140	Not Detected	750	Not Detected
1,2-Dichloropropane	140	Not Detected	640	Not Detected
1,4-Dioxane	560	Not Detected	2000	Not Detected
Bromodichloromethane	140	Not Detected	930	Not Detected
cis-1,3-Dichloropropene	140	Not Detected	630	Not Detected
4-Methyl-2-pentanone	140	Not Detected	570	Not Detected
Toluene	140	Not Detected	520	Not Detected
trans-1,3-Dichloropropene	140	Not Detected	630	Not Detected
1,1,2-Trichloroethane	140	Not Detected	760	Not Detected
Tetrachloroethene	140	Not Detected	940	Not Detected

Client Sample ID: VMP-14-11.5-080811

Lab ID#: 1108188A-16B

EPA METHOD TO-15 GC/MS

File Name:	14081635	Date of Collection: 8/8/11 10:29:00 AM
Dil. Factor:	27.8	Date of Analysis: 8/16/11 07:52 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	560	Not Detected	2300	Not Detected
Dibromochloromethane	140	Not Detected	1200	Not Detected
1,2-Dibromoethane (EDB)	140	Not Detected	1100	Not Detected
Chlorobenzene	140	Not Detected	640	Not Detected
Ethyl Benzene	140	Not Detected	600	Not Detected
m,p-Xylene	140	Not Detected	600	Not Detected
o-Xylene	140	Not Detected	600	Not Detected
Styrene	140	Not Detected	590	Not Detected
Bromoform	140	Not Detected	1400	Not Detected
Cumene	140	Not Detected	680	Not Detected
1,1,2,2-Tetrachloroethane	140	Not Detected	950	Not Detected
Propylbenzene	140	Not Detected	680	Not Detected
4-Ethyltoluene	140	Not Detected	680	Not Detected
1,3,5-Trimethylbenzene	140	Not Detected	680	Not Detected
1,2,4-Trimethylbenzene	140	Not Detected	680	Not Detected
1,3-Dichlorobenzene	140	Not Detected	840	Not Detected
1,4-Dichlorobenzene	140	Not Detected	840	Not Detected
alpha-Chlorotoluene	140	Not Detected	720	Not Detected
1,2-Dichlorobenzene	140	Not Detected	840	Not Detected
1,2,4-Trichlorobenzene	560	Not Detected	4100	Not Detected
Hexachlorobutadiene	560	Not Detected	5900	Not Detected
Butane	560	130000	1300	320000
* Isopentane	560	160000 E	1600	480000 E

J = Estimated value.

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	94	70-130

Client Sample ID: Lab Blank

Lab ID#: 1108188A-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6081511c	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 01:32 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	0.10 J	1.9	0.41 J
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	0.22 J	6.2	0.69 J
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	0.060 J	2.7	0.33 J
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	0.086 J	2.7	0.46 J
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1108188A-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6081511c	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 01:32 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	99	70-130

Client Sample ID: Lab Blank

Lab ID#: 1108188A-17B

EPA METHOD TO-15 GC/MS

File Name:	14081607c	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 07:17 AM

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

Client Sample ID: Lab Blank

Lab ID#: 1108188A-17B

EPA METHOD TO-15 GC/MS

File Name:	14081607c	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 07:17 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	1.1 J	26	5.7 J
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	11 J	150	82 J
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: Lab Blank

Lab ID#: 1108188A-17C

EPA METHOD TO-15 GC/MS

File Name:	14081808a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/18/11 08:00 AM

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

Client Sample ID: Lab Blank

Lab ID#: 1108188A-17C

EPA METHOD TO-15 GC/MS

File Name:	14081808a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/18/11 08:00 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

Container Type: NA - Not Applicable

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

Client Sample ID: CCV

Lab ID#: 1108188A-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6081503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 09:03 AM

Compound	%Recovery
Freon 12	109
Freon 114	115
Chloromethane	94
Vinyl Chloride	103
1,3-Butadiene	93
Bromomethane	103
Chloroethane	103
Freon 11	109
Ethanol	104
Freon 113	107
1,1-Dichloroethene	108
Acetone	100
2-Propanol	97
Carbon Disulfide	104
3-Chloropropene	106
Methylene Chloride	96
Methyl tert-butyl ether	107
trans-1,2-Dichloroethene	100
Hexane	99
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	98
cis-1,2-Dichloroethene	98
Tetrahydrofuran	94
Chloroform	106
1,1,1-Trichloroethane	108
Cyclohexane	95
Carbon Tetrachloride	113
2,2,4-Trimethylpentane	93
Benzene	98
1,2-Dichloroethane	109
Heptane	98
Trichloroethene	99
1,2-Dichloropropane	88
1,4-Dioxane	92
Bromodichloromethane	109
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	92
Toluene	96
trans-1,3-Dichloropropene	109
1,1,2-Trichloroethane	104
Tetrachloroethene	106

Client Sample ID: CCV

Lab ID#: 1108188A-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6081503	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 09:03 AM

Compound	%Recovery
2-Hexanone	92
Dibromochloromethane	115
1,2-Dibromoethane (EDB)	106
Chlorobenzene	100
Ethyl Benzene	100
m,p-Xylene	96
o-Xylene	95
Styrene	95
Bromoform	113
Cumene	102
1,1,2,2-Tetrachloroethane	94
Propylbenzene	102
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	93
1,2,4-Trimethylbenzene	93
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	93
alpha-Chlorotoluene	105
1,2-Dichlorobenzene	95
1,2,4-Trichlorobenzene	94
Hexachlorobutadiene	107
Butane	101
Isopentane	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: CCV

Lab ID#: 1108188A-18B

EPA METHOD TO-15 GC/MS

File Name:	14081602	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 05:40 AM

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

Client Sample ID: CCV

Lab ID#: 1108188A-18B

EPA METHOD TO-15 GC/MS

File Name:	14081602	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 05:40 AM

Compound	%Recovery
2-Hexanone	100
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	102
Chlorobenzene	102
Ethyl Benzene	101
m,p-Xylene	104
o-Xylene	107
Styrene	109
Bromoform	104
Cumene	110
1,1,2,2-Tetrachloroethane	94
Propylbenzene	107
4-Ethyltoluene	112
1,3,5-Trimethylbenzene	112
1,2,4-Trimethylbenzene	110
1,3-Dichlorobenzene	112
1,4-Dichlorobenzene	112
alpha-Chlorotoluene	129
1,2-Dichlorobenzene	115
1,2,4-Trichlorobenzene	114
Hexachlorobutadiene	119
Butane	108
Isopentane	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: CCV

Lab ID#: 1108188A-18C

EPA METHOD TO-15 GC/MS

File Name:	14081802	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/18/11 06:05 AM

Compound	%Recovery
Freon 12	88
Freon 114	100
Chloromethane	86
Vinyl Chloride	104
1,3-Butadiene	105
Bromomethane	97
Chloroethane	91
Freon 11	92
Ethanol	103
Freon 113	100
1,1-Dichloroethene	92
Acetone	91
2-Propanol	87
Carbon Disulfide	80
3-Chloropropene	85
Methylene Chloride	90
Methyl tert-butyl ether	92
trans-1,2-Dichloroethene	89
Hexane	90
1,1-Dichloroethane	89
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	89
Tetrahydrofuran	92
Chloroform	87
1,1,1-Trichloroethane	89
Cyclohexane	94
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	88
Benzene	93
1,2-Dichloroethane	92
Heptane	94
Trichloroethene	94
1,2-Dichloropropane	92
1,4-Dioxane	95
Bromodichloromethane	90
cis-1,3-Dichloropropene	92
4-Methyl-2-pentanone	98
Toluene	95
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	95
Tetrachloroethene	102

Client Sample ID: CCV

Lab ID#: 1108188A-18C

EPA METHOD TO-15 GC/MS

File Name:	14081802	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/18/11 06:05 AM

Compound	%Recovery
2-Hexanone	95
Dibromochloromethane	98
1,2-Dibromoethane (EDB)	97
Chlorobenzene	99
Ethyl Benzene	98
m,p-Xylene	103
o-Xylene	102
Styrene	106
Bromoform	100
Cumene	105
1,1,2,2-Tetrachloroethane	87
Propylbenzene	102
4-Ethyltoluene	109
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	113
1,4-Dichlorobenzene	114
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	116
1,2,4-Trichlorobenzene	132 Q
Hexachlorobutadiene	138 Q
Butane	94
Isopentane	88

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	109	70-130

Client Sample ID: LCS

Lab ID#: 1108188A-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6081504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 09:43 AM

Compound	%Recovery
Freon 12	106
Freon 114	111
Chloromethane	107
Vinyl Chloride	106
1,3-Butadiene	90
Bromomethane	100
Chloroethane	99
Freon 11	106
Ethanol	89
Freon 113	106
1,1-Dichloroethene	109
Acetone	98
2-Propanol	96
Carbon Disulfide	125
3-Chloropropene	114
Methylene Chloride	95
Methyl tert-butyl ether	105
trans-1,2-Dichloroethene	109
Hexane	95
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	95
cis-1,2-Dichloroethene	98
Tetrahydrofuran	86
Chloroform	102
1,1,1-Trichloroethane	104
Cyclohexane	94
Carbon Tetrachloride	109
2,2,4-Trimethylpentane	95
Benzene	97
1,2-Dichloroethane	105
Heptane	94
Trichloroethene	96
1,2-Dichloropropane	84
1,4-Dioxane	91
Bromodichloromethane	103
cis-1,3-Dichloropropene	93
4-Methyl-2-pentanone	86
Toluene	90
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	99
Tetrachloroethene	103

Client Sample ID: LCS

Lab ID#: 1108188A-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6081504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 09:43 AM

Compound	%Recovery
2-Hexanone	89
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	102
Chlorobenzene	96
Ethyl Benzene	97
m,p-Xylene	101
o-Xylene	96
Styrene	88
Bromoform	106
Cumene	99
1,1,2,2-Tetrachloroethane	93
Propylbenzene	101
4-Ethyltoluene	93
1,3,5-Trimethylbenzene	90
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	97
1,4-Dichlorobenzene	93
alpha-Chlorotoluene	97
1,2-Dichlorobenzene	95
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	109
Butane	96
Isopentane	95

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: LCSD

Lab ID#: 1108188A-19AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6081505	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 10:13 AM

Compound	%Recovery
Freon 12	103
Freon 114	106
Chloromethane	102
Vinyl Chloride	101
1,3-Butadiene	89
Bromomethane	90
Chloroethane	93
Freon 11	104
Ethanol	94
Freon 113	102
1,1-Dichloroethene	106
Acetone	91
2-Propanol	92
Carbon Disulfide	123
3-Chloropropene	120
Methylene Chloride	93
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	109
Hexane	91
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	93
cis-1,2-Dichloroethene	98
Tetrahydrofuran	86
Chloroform	101
1,1,1-Trichloroethane	102
Cyclohexane	89
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	88
Benzene	95
1,2-Dichloroethane	103
Heptane	91
Trichloroethene	96
1,2-Dichloropropane	82
1,4-Dioxane	91
Bromodichloromethane	100
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	86
Toluene	90
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	98
Tetrachloroethene	101

Client Sample ID: LCSD

Lab ID#: 1108188A-19AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	6081505	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/15/11 10:13 AM

Compound	%Recovery
2-Hexanone	91
Dibromochloromethane	109
1,2-Dibromoethane (EDB)	102
Chlorobenzene	94
Ethyl Benzene	94
m,p-Xylene	94
o-Xylene	92
Styrene	86
Bromoform	108
Cumene	98
1,1,2,2-Tetrachloroethane	90
Propylbenzene	100
4-Ethyltoluene	91
1,3,5-Trimethylbenzene	90
1,2,4-Trimethylbenzene	92
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	92
alpha-Chlorotoluene	96
1,2-Dichlorobenzene	96
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	109
Butane	91
Isopentane	92

Container Type: NA - Not Applicable

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

Client Sample ID: LCS

Lab ID#: 1108188A-19B

EPA METHOD TO-15 GC/MS

File Name:	14081605	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 06:37 AM

Compound	%Recovery
Freon 12	87
Freon 114	89
Chloromethane	93
Vinyl Chloride	97
1,3-Butadiene	98
Bromomethane	90
Chloroethane	87
Freon 11	88
Ethanol	81
Freon 113	89
1,1-Dichloroethene	97
Acetone	80
2-Propanol	87
Carbon Disulfide	102
3-Chloropropene	91
Methylene Chloride	85
Methyl tert-butyl ether	90
trans-1,2-Dichloroethene	96
Hexane	84
1,1-Dichloroethane	86
2-Butanone (Methyl Ethyl Ketone)	86
cis-1,2-Dichloroethene	88
Tetrahydrofuran	83
Chloroform	87
1,1,1-Trichloroethane	88
Cyclohexane	89
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	84
Benzene	85
1,2-Dichloroethane	82
Heptane	84
Trichloroethene	86
1,2-Dichloropropane	84
1,4-Dioxane	88
Bromodichloromethane	85
cis-1,3-Dichloropropene	85
4-Methyl-2-pentanone	88
Toluene	86
trans-1,3-Dichloropropene	88
1,1,2-Trichloroethane	86
Tetrachloroethene	83

Client Sample ID: LCS

Lab ID#: 1108188A-19B

EPA METHOD TO-15 GC/MS

File Name:	14081605	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 06:37 AM

Compound	%Recovery
2-Hexanone	87
Dibromochloromethane	91
1,2-Dibromoethane (EDB)	91
Chlorobenzene	91
Ethyl Benzene	91
m,p-Xylene	95
o-Xylene	94
Styrene	97
Bromoform	88
Cumene	99
1,1,2,2-Tetrachloroethane	89
Propylbenzene	99
4-Ethyltoluene	99
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	110
1,2-Dichlorobenzene	108
1,2,4-Trichlorobenzene	158 Q
Hexachlorobutadiene	152 Q
Butane	86
Isopentane	81

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: LCSD

Lab ID#: 1108188A-19BB

EPA METHOD TO-15 GC/MS

File Name:	14081606	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 06:55 AM

Compound	%Recovery
Freon 12	85
Freon 114	90
Chloromethane	91
Vinyl Chloride	97
1,3-Butadiene	94
Bromomethane	91
Chloroethane	85
Freon 11	89
Ethanol	82
Freon 113	93
1,1-Dichloroethene	94
Acetone	85
2-Propanol	87
Carbon Disulfide	101
3-Chloropropene	94
Methylene Chloride	82
Methyl tert-butyl ether	90
trans-1,2-Dichloroethene	95
Hexane	84
1,1-Dichloroethane	85
2-Butanone (Methyl Ethyl Ketone)	89
cis-1,2-Dichloroethene	86
Tetrahydrofuran	84
Chloroform	86
1,1,1-Trichloroethane	88
Cyclohexane	88
Carbon Tetrachloride	91
2,2,4-Trimethylpentane	83
Benzene	86
1,2-Dichloroethane	84
Heptane	84
Trichloroethene	86
1,2-Dichloropropane	84
1,4-Dioxane	87
Bromodichloromethane	83
cis-1,3-Dichloropropene	89
4-Methyl-2-pentanone	90
Toluene	87
trans-1,3-Dichloropropene	88
1,1,2-Trichloroethane	86
Tetrachloroethene	84

Client Sample ID: LCSD

Lab ID#: 1108188A-19BB

EPA METHOD TO-15 GC/MS

File Name:	14081606	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 06:55 AM

Compound	%Recovery
2-Hexanone	87
Dibromochloromethane	90
1,2-Dibromoethane (EDB)	92
Chlorobenzene	90
Ethyl Benzene	90
m,p-Xylene	95
o-Xylene	93
Styrene	96
Bromoform	88
Cumene	98
1,1,2,2-Tetrachloroethane	86
Propylbenzene	96
4-Ethyltoluene	98
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	114
1,2-Dichlorobenzene	111
1,2,4-Trichlorobenzene	162 Q
Hexachlorobutadiene	147 Q
Butane	83
Isopentane	81

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	100	70-130

Client Sample ID: LCS

Lab ID#: 1108188A-19C

EPA METHOD TO-15 GC/MS

File Name:	14081805	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/18/11 07:02 AM

Compound	%Recovery
Freon 12	86
Freon 114	96
Chloromethane	89
Vinyl Chloride	96
1,3-Butadiene	90
Bromomethane	91
Chloroethane	85
Freon 11	89
Ethanol	94
Freon 113	101
1,1-Dichloroethene	93
Acetone	89
2-Propanol	86
Carbon Disulfide	94
3-Chloropropene	91
Methylene Chloride	83
Methyl tert-butyl ether	91
trans-1,2-Dichloroethene	99
Hexane	84
1,1-Dichloroethane	86
2-Butanone (Methyl Ethyl Ketone)	88
cis-1,2-Dichloroethene	86
Tetrahydrofuran	84
Chloroform	87
1,1,1-Trichloroethane	87
Cyclohexane	89
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	84
Benzene	88
1,2-Dichloroethane	86
Heptane	88
Trichloroethene	88
1,2-Dichloropropane	87
1,4-Dioxane	88
Bromodichloromethane	83
cis-1,3-Dichloropropene	86
4-Methyl-2-pentanone	92
Toluene	87
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	91
Tetrachloroethene	94

Client Sample ID: LCS

Lab ID#: 1108188A-19C

EPA METHOD TO-15 GC/MS

File Name:	14081805	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/18/11 07:02 AM

Compound	%Recovery
2-Hexanone	86
Dibromochloromethane	93
1,2-Dibromoethane (EDB)	95
Chlorobenzene	96
Ethyl Benzene	95
m,p-Xylene	98
o-Xylene	96
Styrene	99
Bromoform	91
Cumene	102
1,1,2,2-Tetrachloroethane	90
Propylbenzene	101
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	103
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	103
1,2-Dichlorobenzene	115
1,2,4-Trichlorobenzene	148 Q
Hexachlorobutadiene	148 Q
Butane	82
Isopentane	83

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	110	70-130

Client Sample ID: LCS D

Lab ID#: 1108188A-19CC

EPA METHOD TO-15 GC/MS

File Name:	14081806	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/18/11 07:20 AM

Compound	%Recovery
Freon 12	84
Freon 114	98
Chloromethane	90
Vinyl Chloride	94
1,3-Butadiene	92
Bromomethane	92
Chloroethane	90
Freon 11	90
Ethanol	94
Freon 113	100
1,1-Dichloroethene	96
Acetone	88
2-Propanol	85
Carbon Disulfide	96
3-Chloropropene	92
Methylene Chloride	86
Methyl tert-butyl ether	91
trans-1,2-Dichloroethene	100
Hexane	84
1,1-Dichloroethane	88
2-Butanone (Methyl Ethyl Ketone)	90
cis-1,2-Dichloroethene	87
Tetrahydrofuran	85
Chloroform	86
1,1,1-Trichloroethane	88
Cyclohexane	89
Carbon Tetrachloride	88
2,2,4-Trimethylpentane	83
Benzene	89
1,2-Dichloroethane	86
Heptane	90
Trichloroethene	88
1,2-Dichloropropane	87
1,4-Dioxane	90
Bromodichloromethane	85
cis-1,3-Dichloropropene	87
4-Methyl-2-pentanone	90
Toluene	88
trans-1,3-Dichloropropene	91
1,1,2-Trichloroethane	91
Tetrachloroethene	94

Client Sample ID: LCSD

Lab ID#: 1108188A-19CC

EPA METHOD TO-15 GC/MS

File Name:	14081806	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/18/11 07:20 AM

Compound	%Recovery
2-Hexanone	89
Dibromochloromethane	91
1,2-Dibromoethane (EDB)	96
Chlorobenzene	95
Ethyl Benzene	94
m,p-Xylene	100
o-Xylene	97
Styrene	98
Bromoform	90
Cumene	102
1,1,2,2-Tetrachloroethane	88
Propylbenzene	98
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	110
1,2-Dichlorobenzene	114
1,2,4-Trichlorobenzene	167 Q
Hexachlorobutadiene	155 Q
Butane	86
Isopentane	83

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	105	70-130

1-203188



Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. Project Name: Roxana Soil Vapor Project # 21562593.00009		Lab Vendor # URS CORPORATION 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 900, ST. LOUIS, MO 63110 AIR TOXICS, LTD. 180 Blue Ravina Road, Suite B, Folsom, CA 95630-4719 TEL: 916-229-0100 FAX: 916-229-0462		Print Bill To Contact Name: Thomas Adams PO # 314-743-4179		INCIDENT # / ENV. SERVICES: 0 7 2 1 6 4 0 DATE: 08/08/11 PAGE: 1 of 2			
Lab Vendor # URS CORPORATION 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 900, ST. LOUIS, MO 63110 AIR TOXICS, LTD. 180 Blue Ravina Road, Suite B, Folsom, CA 95630-4719 TEL: 916-229-0100 FAX: 916-229-0462		Print Bill To Contact Name: Thomas Adams PO # 314-743-4179		INCIDENT # / ENV. SERVICES: 0 7 2 1 6 4 0 DATE: 08/08/11 PAGE: 1 of 2		COMPULSIVE PROJECT NUMBER Elizabeth Kunkel, URS, St. Louis W. Brubaker, C. Kunkel, C. Beas, B. Vern			
Field Sample Identification VMP-5-5-080511 VMP-5-12-5-080611 VMP-5-31-080611 VMP-3-22-080611 VMP-4-23-5-080611 VMP-6-5-080411 VMP-6-10-080411 VMP-8-31-5-080411 VMP-16-5-080511 VMP-16-13-5-080511		SAMPLING DATE TIME 08/03/11 0800-1020 08/05/11 0800-1117 08/08/11 0812-0828 08/08/11 1458-1424 08/08/11 1228-1250 08/04/11 0830-0807 08/04/11 1455-1523 08/04/11 1820-1849 08/05/11 1023-1103 08/05/11 1128-1228		Centrifuge Pressure/Vacuum Initial Final Receipt Final (psi) -29 -9 -30 -8.5 -30 -8.5 -30 -8 -30 -8 -28 -8 -29 -7 -30 -9.5 -30 -8 -27 -7		REQUESTED ANALYSIS Turn Around Time: ☒ Normal ☐ Rush Specify: Lab Use Only Pressurized by: Data Pressurization Case N File		ADDITIONAL NOTES: - 14 day hold time - Report results between MDL and RL - Level IV ECVIP	
Field Sample Identification VMP-5-5-080511 VMP-5-12-5-080611 VMP-5-31-080611 VMP-3-22-080611 VMP-4-23-5-080611 VMP-6-5-080411 VMP-6-10-080411 VMP-8-31-5-080411 VMP-16-5-080511 VMP-16-13-5-080511		SAMPLING DATE TIME 08/03/11 0800-1020 08/05/11 0800-1117 08/08/11 0812-0828 08/08/11 1458-1424 08/08/11 1228-1250 08/04/11 0830-0807 08/04/11 1455-1523 08/04/11 1820-1849 08/05/11 1023-1103 08/05/11 1128-1228		Centrifuge Pressure/Vacuum Initial Final Receipt Final (psi) -29 -9 -30 -8.5 -30 -8.5 -30 -8 -30 -8 -28 -8 -29 -7 -30 -9.5 -30 -8 -27 -7		REQUESTED ANALYSIS Turn Around Time: ☒ Normal ☐ Rush Specify: Lab Use Only Pressurized by: Data Pressurization Case N File		ADDITIONAL NOTES: - 14 day hold time - Report results between MDL and RL - Level IV ECVIP	

1-203188

CUSTOMER DEAL INTACT?

Y N

TEMP 28

URS

RESEARCH DESIGN

502-5



8/22/2011

Mr. Jeff Adams

URS Corporation

1001 Highlands Plaza Dr. West

Suite 300

St. Louis MO 63110

Project Name: Roxana Soil Vapor

Project #: 21562593.00009

Workorder #: 1108188B

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 8/9/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner

Project Manager

Reviewed
on
8/23/2011

WORK ORDER #: 1108188B

Work Order Summary

CLIENT:	Mr. Jeff Adams URS Corporation 1001 Highlands Plaza Dr. West Suite 300 St. Louis, MO 63110	BILL TO:	Accounts Payable Austin URS Corporation P.O. BOX 203970 Austin, TX 78720-1088
PHONE:	314-429-0100	P.O. #	21562593.00009
FAX:		PROJECT #	21562593.00009 Roxana Soil Vapor
DATE RECEIVED:	08/09/2011	CONTACT:	Kelly Buettner
DATE COMPLETED:	08/22/2011		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-5-5-080511	Modified ASTM D-1946	6.0 "Hg	15 psi
02A	VMP-5-12.5-080611	Modified ASTM D-1946	5.6 "Hg	15 psi
03A	VMP-5-31-080611	Modified ASTM D-1946	8.2 "Hg	15 psi
04A	VMP-3-22-080611	Modified ASTM D-1946	10.8 "Hg	15 psi
05A	VMP-4-23.5-080611	Modified ASTM D-1946	8.4 "Hg	15 psi
06A	VMP-6-5-080411	Modified ASTM D-1946	7.4 "Hg	15 psi
07A	VMP-6-10-080411	Modified ASTM D-1946	6.4 "Hg	15 psi
08A	VMP-6-31.5-080411	Modified ASTM D-1946	8.2 "Hg	15 psi
09A	VMP-16-5-080511	Modified ASTM D-1946	8.4 "Hg	15 psi
10A	VMP-16-13.5-080511	Modified ASTM D-1946	8.0 "Hg	15 psi
11A	VMP-16-19-080511	Modified ASTM D-1946	9.6 "Hg	15 psi
12A	VMP-11-5-080711	Modified ASTM D-1946	9.6 "Hg	15 psi
13A	VMP-11-8-080711	Modified ASTM D-1946	9.6 "Hg	15 psi
14A	VMP-11-29-080711	Modified ASTM D-1946	9.4 "Hg	15 psi
15A	VMP-14-5-080811	Modified ASTM D-1946	8.4 "Hg	15 psi
16A	VMP-14-11.5-080811	Modified ASTM D-1946	8.2 "Hg	15 psi
17A	Lab Blank	Modified ASTM D-1946	NA	NA

Continued on next page

WORK ORDER #: 1108188B

Work Order Summary

CLIENT: Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-429-0100

FAX:

DATE RECEIVED: 08/09/2011

DATE COMPLETED: 08/22/2011

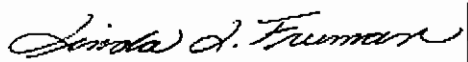
P.O. # 21562593.00009

PROJECT # 21562593.00009 Roxana Soil Vapor

CONTACT: Kelly Buettner

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
17B	Lab Blank	Modified ASTM D-1946	NA	NA
18A	LCS	Modified ASTM D-1946	NA	NA
18AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY:



Laboratory Director

DATE: 08/22/11

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

**LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1108188B**

Sixteen 1 Liter Summa Canister samples were received on August 09, 2011. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

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

<i>Requirement</i>	<i>ASTM D-1946</i>	<i>ATL Modifications</i>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections $> 5 \times$ the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

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 detection limit.

M - Reported value may be biased due to apparent matrix interferences.

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

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-5-5-080511

Lab ID#: 1108188B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	11
Nitrogen	0.25	81
Methane	0.00025	0.0013
Carbon Dioxide	0.025	7.9
Helium	0.13	0.20

Client Sample ID: VMP-5-12.5-080611

Lab ID#: 1108188B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	3.7
Nitrogen	0.25	76
Methane	0.00025	6.6
Carbon Dioxide	0.025	12
Ethane	0.0025	0.0034
Helium	0.12	0.013 J

Client Sample ID: VMP-5-31-080611

Lab ID#: 1108188B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.2
Nitrogen	0.28	58
Methane	0.00028	24
Carbon Dioxide	0.028	9.2
Ethane	0.0028	0.013
Helium	0.14	0.010 J

Client Sample ID: VMP-3-22-080611

Lab ID#: 1108188B-04A

Summary of Detected Compounds

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-3-22-080611

Lab ID#: 1108188B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.32	13
Nitrogen	0.32	84
Methane	0.00032	0.83
Carbon Dioxide	0.032	2.4
Helium	0.16	0.13 J

Client Sample ID: VMP-4-23.5-080611

Lab ID#: 1108188B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.0
Nitrogen	0.28	35
Methane	0.00028	45
Carbon Dioxide	0.028	5.9
Ethane	0.0028	0.020
Helium	0.14	0.010 J

Client Sample ID: VMP-6-5-080411

Lab ID#: 1108188B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	16
Nitrogen	0.27	80
Carbon Dioxide	0.027	3.4
Helium	0.13	0.59

Client Sample ID: VMP-6-10-080411

Lab ID#: 1108188B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.9

Summary of Detected Compounds

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-6-10-080411

Lab ID#: 1108188B-07A

Nitrogen	0.26	80
Methane	0.00026	3.2
Carbon Dioxide	0.026	15
Ethane	0.0026	0.0011 J
Helium	0.13	0.050 J

Client Sample ID: VMP-6-31.5-080411

Lab ID#: 1108188B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	2.6
Nitrogen	0.28	78
Methane	0.00028	6.2
Carbon Dioxide	0.028	12
Ethane	0.0028	0.0024 J
Helium	0.14	0.015 J

Client Sample ID: VMP-16-5-080511

Lab ID#: 1108188B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	3.9
Nitrogen	0.28	78
Methane	0.00028	4.2
Carbon Dioxide	0.028	13
Ethane	0.0028	0.00012 J
Helium	0.14	0.69

Client Sample ID: VMP-16-13.5-080511

Lab ID#: 1108188B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	9.6 J

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-16-13.5-080511

Lab ID#: 1108188B-10A

Nitrogen	0.28	74 J
Methane	0.00028	1.1
Carbon Dioxide	0.028	8.4
Helium	0.14	6.4

Client Sample ID: VMP-16-19-080511 *Do not use these results. Please see Section 1.0 of Data Review.

Lab ID#: 1108188B-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	14
Nitrogen	0.30	70
Methane	0.00030	0.090
Carbon Dioxide	0.030	3.9
Helium	0.15	12

Client Sample ID: VMP-11-5-080711

Lab ID#: 1108188B-12A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	14
Nitrogen	0.30	79
Carbon Dioxide	0.030	7.1
Helium	0.15	0.010 J

Client Sample ID: VMP-11-8-080711

Lab ID#: 1108188B-13A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	9.0
Nitrogen	0.30	81
Carbon Dioxide	0.030	10
Helium	0.15	0.015 J

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-11-29-080711 ** Do not use these results. Please see Section 1.0 of Data Review.*
Lab ID#: 1108188B-14A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	7.3
Nitrogen	0.29	63
Methane	0.00029	0.00018 J
Carbon Dioxide	0.029	5.6
Helium	0.15	24

Client Sample ID: VMP-14-5-080811

Lab ID#: 1108188B-15A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.8
Nitrogen	0.28	62
Methane	0.00028	19
Carbon Dioxide	0.028	16
Ethane	0.0028	0.0081
Helium	0.14	0.0098 J

Client Sample ID: VMP-14-11.5-080811

Lab ID#: 1108188B-16A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.6
Nitrogen	0.28	76
Methane	0.00028	4.5
Carbon Dioxide	0.028	18
Ethane	0.0028	0.0021 J
Helium	0.14	0.010 J

Client Sample ID: VMP-5-5-080511

Lab ID#: 1108188B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081609	Date of Collection:	8/5/11 10:20:00 AM
Dil. Factor:	2.52	Date of Analysis:	8/16/11 10:51 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	11
Nitrogen	0.25	81
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	0.0013
Carbon Dioxide	0.025	7.9
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.13	0.20

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-5-12.5-080611

Lab ID#: 1108188B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081615	Date of Collection: 8/6/11 11:17:00 AM
Dil. Factor:	2.48	Date of Analysis: 8/16/11 01:52 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	3.7
Nitrogen	0.25	76
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	6.6
Carbon Dioxide	0.025	12
Ethane	0.0025	0.0034
Ethene	0.0025	Not Detected
Helium	0.12	0.013 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-5-31-080611

Lab ID#: 1108188B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081616	Date of Collection: 8/6/11 9:38:00 AM
Dil. Factor:	2.78	Date of Analysis: 8/16/11 02:17 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.2
Nitrogen	0.28	58
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	24
Carbon Dioxide	0.028	9.2
Ethane	0.0028	0.013
Ethene	0.0028	Not Detected
Helium	0.14	0.010 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-3-22-080611

Lab ID#: 1108188B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081617	Date of Collection: 8/6/11 2:24:00 PM
Dil. Factor:	3.16	Date of Analysis: 8/16/11 02:40 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.32	13
Nitrogen	0.32	84
Carbon Monoxide	0.032	Not Detected
Methane	0.00032	0.83
Carbon Dioxide	0.032	2.4
Ethane	0.0032	Not Detected
Ethene	0.0032	Not Detected
Helium	0.16	0.13 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-4-23.5-080611

Lab ID#: 1108188B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081618	Date of Collection: 8/6/11 12:50:00 PM
Dil. Factor:	2.81	Date of Analysis: 8/16/11 03:09 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.0
Nitrogen	0.28	35
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	45
Carbon Dioxide	0.028	5.9
Ethane	0.0028	0.020
Ethene	0.0028	Not Detected
Helium	0.14	0.010 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-6-5-080411

Lab ID#: 1108188B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081628	Date of Collection: 8/4/11 9:03:00 AM
Dil. Factor:	2.68	Date of Analysis: 8/16/11 07:26 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	16
Nitrogen	0.27	80
Carbon Monoxide	0.027	Not Detected
Methane	0.00027	Not Detected
Carbon Dioxide	0.027	3.4
Ethane	0.0027	Not Detected
Ethene	0.0027	Not Detected
Helium	0.13	0.59

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-6-10-080411

Lab ID#: 1108188B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081620	Date of Collection: 8/4/11 3:33:00 PM
Dil. Factor:	2.57	Date of Analysis: 8/16/11 03:57 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.9
Nitrogen	0.26	80
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	3.2
Carbon Dioxide	0.026	15
Ethane	0.0026	0.0011 J
Ethene	0.0026	Not Detected
Helium	0.13	0.050 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-6-31.5-080411

Lab ID#: 1108188B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081621	Date of Collection: 8/4/11 4:49:00 PM
Dil. Factor:	2.78	Date of Analysis: 8/16/11 04:20 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	2.6
Nitrogen	0.28	78
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	6.2
Carbon Dioxide	0.028	12
Ethane	0.0028	0.0024 J
Ethene	0.0028	Not Detected
Helium	0.14	0.015 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-16-5-080511

Lab ID#: 1108188B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081622	Date of Collection: 8/5/11 11:03:00 AM
Dil. Factor:	2.81	Date of Analysis: 8/16/11 05:09 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	3.9
Nitrogen	0.28	78
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	4.2
Carbon Dioxide	0.028	13
Ethane	0.0028	0.00012 J
Ethene	0.0028	Not Detected
Helium	0.14	0.69

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-16-13.5-080511

Lab ID#: 1108188B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081624	Date of Collection: 8/5/11 12:08:00 PM
Dil. Factor:	2.76	Date of Analysis: 8/16/11 05:56 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	9.6
Nitrogen	0.28	74
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	1.1
Carbon Dioxide	0.028	8.4
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	6.4

JJ
JJ
JJ
JJ
JJ
JJ
JJ

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-16-19-080511

Lab ID#: 1108188B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:		9081625	Date of Collection: 8/5/11 1:16:00 PM
Dil. Factor:		2.97	Date of Analysis: 8/16/11 06:20 PM
Compound	Rpt. Limit (%)	Amount (%)	
Oxygen	0.30	14	
Nitrogen	0.30	70	
Carbon Monoxide	0.030	Not Detected	
Methane	0.00030	0.090	
Carbon Dioxide	0.030	3.9	
Ethane	0.0030	Not Detected	
Ethene	0.0030	Not Detected	
Helium	0.15	12	

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-11-5-080711

Lab ID#: 1108188B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081610	Date of Collection: 8/7/11 10:35:00 AM
Dil. Factor:	2.97	Date of Analysis: 8/16/11 11:15 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	14
Nitrogen	0.30	79
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	Not Detected
Carbon Dioxide	0.030	7.1
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.010 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-11-8-080711

Lab ID#: 1108188B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081612	Date of Collection: 8/7/11 12:06:00 PM
Dil. Factor:	2.97	Date of Analysis: 8/16/11 12:14 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	9.0
Nitrogen	0.30	81
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	Not Detected
Carbon Dioxide	0.030	10
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.015 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-11-29-080711

Lab ID#: 1108188B-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081613	Date of Collection: 8/7/11 1:22:00 PM
Dil. Factor:	2.94	Date of Analysis: 8/16/11 12:38 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	7.3
Nitrogen	0.29	63
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.00018 J
Carbon Dioxide	0.029	5.6
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.15	24

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-14-5-080811

Lab ID#: 1108188B-15A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081623	Date of Collection: 8/8/11 9:11:00 AM
Dil. Factor:	2.81	Date of Analysis: 8/16/11 05:34 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.8
Nitrogen	0.28	62
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	19
Carbon Dioxide	0.028	16
Ethane	0.0028	0.0081
Ethene	0.0028	Not Detected
Helium	0.14	0.0098 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-14-11.5-080811

Lab ID#: 1108188B-16A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081614	Date of Collection:	8/8/11 10:29:00 AM
Dil. Factor:	2.78	Date of Analysis:	8/16/11 01:02 PM
Compound	Rpt. Limit (%)	Amount (%)	
Oxygen	0.28	1.6	
Nitrogen	0.28	76	
Carbon Monoxide	0.028	Not Detected	
Methane	0.00028	4.5	
Carbon Dioxide	0.028	18	
Ethane	0.0028	0.0021 J	
Ethene	0.0028	Not Detected	
Helium	0.14	0.010 J	

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: Lab Blank

Lab ID#: 1108188B-17A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081605a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 08:19 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.013 J
Nitrogen	0.10	0.050 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Client Sample ID: Lab Blank

Lab ID#: 1108188B-17B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081604b	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 07:43 AM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

Client Sample ID: LCS

Lab ID#: 1108188B-18A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081603	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 07:14 AM

Compound	%Recovery
Oxygen	99
Nitrogen	101
Carbon Monoxide	98
Methane	101
Carbon Dioxide	101
Ethane	104
Ethene	102
Helium	93

Container Type: NA - Not Applicable

Client Sample ID: LCSD

Lab ID#: 1108188B-18AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081629	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 07:51 PM

Compound	%Recovery
Oxygen	98
Nitrogen	101
Carbon Monoxide	99
Methane	100
Carbon Dioxide	99
Ethane	102
Ethene	101
Helium	94

Container Type: NA - Not Applicable

URS

06/20/2018

Tel 889

CUSTOMER REAL INTACT? *for*
Y N **NO** **TEMP**



Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Soil Vapor
Project # 21562593.00009

Lab Vendor #
URS CORPORATION
 ADDRESS
 0001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
 TEL: 314-429-0462
 FAX: 314-429-0100

Print Edits To Contact Name:
 Thomas Adams
 PO #
 314-743-4179

INCIDENT # (ENV SERVICES):
 8 7 2 1 8 6 4 0
DATE: 06/08/11
PAGE: 2 of 2

Check if NO INCIDENT & APPLIES:
☐ YES ☐ NO

CONSULTING PROJECT NAME:
 Roxana Soil Vapor

Site Address: 900 SOUTH CENTRAL AVE - ROXANA
 62450-1000
 Phone No: 314-743-4179

Client: Elizabeth Kunkel, URS, St. Louis
 W. Buchman, C. Krobber, C. Bass, B. Varn

Requested Analysis:
 Turn Around Time:
☒ Normal
☐ Rush
 Specify: _____

Additional Notes:
 - 14 day hold time
 - Report results between MDL and RL
 - Level IV ECVF

Requested Analysis:
 Turn Around Time:
☒ Normal
☐ Rush
 Specify: _____

Additional Notes:
 - 14 day hold time
 - Report results between MDL and RL
 - Level IV ECVF

Field Sample Identification	Sampling Date	Time	Censtar Pressure/Vacuum		Initial	Final (psi)
			Initial	Final		
VMP-16-19-080511	08/05/11	1240 - 1315	-29	-8.5		
VMP-11-5-080711	08/07/11	1003 - 1035	-30	-9.6		
VMP-11-8-080711	08/07/11	1137 - 1208	-30	-9.6		
VMP-11-29-080711	08/07/11	1220 - 1322	-30	-9		
VMP-14-5-080811	08/08/11	0940 - 0911	-28	-9		
VMP-14-11-5-080811	08/08/11	1003 - 1026	-29	-9		

Field Sample Identification

Sampling

Censtar Pressure/Vacuum

Field Sample Identification

Sampling

Censtar Pressure/Vacuum

Field Sample Identification

Sampling

Censtar Pressure/Vacuum

Field Sample Identification

Sampling

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Field Sample Identification

Sampling

Censtar Pressure/Vacuum

Field Sample Identification

Wavelength

53-03

FACTORY SEAL
Y N METER

Roxana Soil Vapor Quarterly – 3rd Quarter 2011 Data Review

Laboratory SDG: 1108244A, B

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 9/7/2011

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
VMP-14-20-080811	VMP-15-5-080811
VMP-15-21.5-080811	VMP-19-5-080911
VMP-19-5-080911-DUP	VMP-15-25.5-080811
VMP-25-5-080911-DUP	VMP-25-21-080911
VMP-25-5-080911	VMP-13-21.5-080911
VMP-13-10.5-080911	VMP-13-5-080911
VMP-13-5-080911-DUP	VMP-8-23.5-081011

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated TO-15 LCS recoveries were outside evaluation criteria. Samples VMP-14-20-080811, VMP-15-21.5-080811, VMP-25-21-080911, VMP-13-21.5-080911, VMP-13-10.5-080911, VMP-13-5-080911, and VMP-13-5-080911-DUP were diluted due to high levels of target analytes. Samples VMP-14-20-080811 and VMP-13-21.5-080911 were diluted and re-analyzed to bring the highest level compounds within calibration range of the instrument. Results for the highest level compounds were reported from the re-analysis runs and the remaining compounds were reported from the original analyses. Although not indicated in the laboratory case narrative, analytes were detected in the method blank. These issues are addressed further in the appropriate sections below.

Sample VMP-25-5-080911-DUP showed significant difference between COC-designated canister receipt vacuum and the laboratory measured canister receipt vacuum. Analysis of sample VMP-25-5-080911-DUP was cancelled due to potential loss of sample integrity.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1108244A-15A	TO-15	Freon 12	0.065 ppbv / 0.32 µg/m ³
1108244A-15A	TO-15	Bromomethane	0.26 ppbv / 0.99 µg/m ³
1108244A-15A	TO-15	Freon 11	0.077 ppbv / 0.43 µg/m ³
1108244A-15A	TO-15	Carbon Disulfide	0.48 ppbv / 1.5 µg/m ³
1108244A-15A	TO-15	Methylene Chloride	0.22 ppbv / 0.76 µg/m ³
1108244A-15A	TO-15	trans-1,2-Dichloroethene	0.25 ppbv / 0.99 µg/m ³
1108244A-15A	TO-15	Hexane	0.073 ppbv / 0.26 µg/m ³
1108244A-15A	TO-15	Chloroform	0.090 ppbv / 0.44 µg/m ³
1108244A-15A	TO-15	1,1,1-Trichloroethane	0.065 ppbv / 0.35 µg/m ³
1108244A-15A	TO-15	Carbon Tetrachloride	0.071 ppbv / 0.45 µg/m ³
1108244A-15A	TO-15	Benzene	0.11 ppbv / 0.35 µg/m ³
1108244A-15A	TO-15	1,2-Dichloroethane	0.15 ppbv / 0.62 µg/m ³
1108244A-15A	TO-15	Heptane	0.068 ppbv / 0.28 µg/m ³
1108244A-15A	TO-15	Trichloroethene	0.16 ppbv / 0.85 µg/m ³
1108244A-15A	TO-15	1,2-Dichloropropane	0.089 ppbv / 0.41 µg/m ³
1108244A-15A	TO-15	Bromodichloromethane	0.078 ppbv / 0.52 µg/m ³
1108244A-15A	TO-15	cis-1,3-Dichloropropene	0.14 ppbv / 0.61 µg/m ³
1108244A-15A	TO-15	4-Methyl-2-pentanone	0.11 ppbv / 0.45 µg/m ³
1108244A-15A	TO-15	Toluene	0.10 ppbv / 0.39 µg/m ³
1108244A-15A	TO-15	trans-1,3-Dichloropropene	0.19 ppbv / 0.86 µg/m ³
1108244A-15A	TO-15	1,1,2-Trichloroethane	0.099 ppbv / 0.54 µg/m ³
1108244A-15A	TO-15	Tetrachloroethene	0.14 ppbv / 0.94 µg/m ³
1108244A-15A	TO-15	2-Hexanone	0.10 ppbv / 0.41 µg/m ³
1108244A-15A	TO-15	Dibromochloromethane	0.094 ppbv / 0.80 µg/m ³
1108244A-15A	TO-15	1,2-Dibromoethane (EDB)	0.17 ppbv / 1.3 µg/m ³
1108244A-15A	TO-15	Chlorobenzene	0.32 ppbv / 1.4 µg/m ³
1108244A-15A	TO-15	Ethyl Benzene	0.12 ppbv / 0.50 µg/m ³
1108244A-15A	TO-15	m,p-Xylene	0.14 ppbv / 0.63 µg/m ³
1108244A-15A	TO-15	o-Xylene	0.16 ppbv / 0.67 µg/m ³
1108244A-15A	TO-15	Styrene	0.16 ppbv / 0.68 µg/m ³
1108244A-15A	TO-15	Bromoform	0.14 ppbv / 1.4 µg/m ³
1108244A-15A	TO-15	Cumene	0.23 ppbv / 1.1 µg/m ³
1108244A-15A	TO-15	1,1,2,2-Tetrachloroethane	0.21 ppbv / 1.5 µg/m ³
1108244A-15A	TO-15	Propylbenzene	0.23 ppbv / 1.1 µg/m ³
1108244A-15A	TO-15	4-Ethyltoluene	0.25 ppbv / 1.2 µg/m ³
1108244A-15A	TO-15	1,3,5-Trimethylbenzene	0.28 ppbv / 1.4 µg/m ³
1108244A-15A	TO-15	1,2,4-Trimethylbenzene	0.30 ppbv / 1.5 µg/m ³
1108244A-15A	TO-15	1,3-Dichlorobenzene	0.43 ppbv / 2.6 µg/m ³
1108244A-15A	TO-15	1,4-Dichlorobenzene	0.45 ppbv / 0.27 µg/m ³
1108244A-15A	TO-15	alpha-Chlorotoluene	0.25 ppbv / 1.3 µg/m ³
1108244A-15A	TO-15	1,2-Dichlorobenzene	0.46 ppbv / 2.8 µg/m ³
1108244A-15A	TO-15	1,2,4-Trichlorobenzene	1.5 ppbv / 11.0 µg/m ³
1108244A-15A	TO-15	Hexachlorobutadiene	0.90 ppbv / 9.6 µg/m ³
1108244A-15C	TO-15	1,2,4-Trichlorobenzene	6.0 ppbv / 45.0 µg/m ³
1108244A-15D	TO-15	Carbon Disulfide	0.26 ppbv / 0.82 µg/m ³
1108244A-15D	TO-15	1,2-Dichloroethane	0.078 ppbv / 0.32 µg/m ³

Blank ID	Parameter	Analyte	Concentration/Amount
1108244A-15D	TO-15	cis-1,3-Dichloropropene	0.062 ppbv / 0.28 µg/m ³
1108244A-15D	TO-15	trans-1,3-Dichloropropene	0.10 ppbv / 0.47 µg/m ³
1108244A-15D	TO-15	Tetrachloroethane	0.051 ppbv / 0.35 µg/m ³
1108244A-15D	TO-15	1,2-Dibromoethane (EDB)	0.080 ppbv / 0.61 µg/m ³
1108244A-15D	TO-15	Chlorobenzene	0.16 ppbv / 0.74 µg/m ³
1108244A-15D	TO-15	Styrene	0.044 ppbv / 0.19 µg/m ³
1108244A-15D	TO-15	Bromoform	0.039 ppbv / 0.40 µg/m ³
1108244A-15D	TO-15	Cumene	0.043 ppbv / 0.21 µg/m ³
1108244A-15D	TO-15	1,1,2,2-Tetrachloroethane	0.050 ppbv / 0.34 µg/m ³
1108244A-15D	TO-15	Propylbenzene	0.071 ppbv / 0.35 µg/m ³
1108244A-15D	TO-15	4-Ethyltoluene	0.071 ppbv / 0.35 µg/m ³
1108244A-15D	TO-15	1,3,5-Trimethylbenzene	0.059 ppbv / 0.29 µg/m ³
1108244A-15D	TO-15	1,2,4-Trimethylbenzene	0.090 ppbv / 0.44 µg/m ³
1108244A-15D	TO-15	1,3-Dichlorobenzene	0.16 ppbv / 0.94 µg/m ³
1108244A-15D	TO-15	1,4-Dichlorobenzene	0.18 ppbv / 1.1 µg/m ³
1108244A-15D	TO-15	alpha-Chlorotoluene	0.090 ppbv / 0.46 µg/m ³
1108244A-15D	TO-15	1,2-Dichlorobenzene	0.14 ppbv / 0.85 µg/m ³
1108244A-15D	TO-15	1,2,4-Trichlorobenzene	0.49 ppbv / 3.6 µg/m ³
1108244A-15D	TO-15	Hexachlorobutadiene	0.15 ppbv / 1.6 µg/m ³

Qualifications due to blank contamination are included in the table below. Analytical data reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Sample ID	Parameter	Analyte	New RL	Qualification
VMP-15-5-080811	TO-15	1,2-Dichloroethane	-	U
VMP-15-5-080811	TO-15	cis-1,3-Dichloropropene	-	U
VMP-15-5-080811	TO-15	trans-1,3-Dichloropropene	-	U
VMP-15-5-080811	TO-15	1,2-Dibromoethane (EDB)	-	U
VMP-15-5-080811	TO-15	Chlorobenzene	-	U
VMP-15-5-080811	TO-15	Bromoform	-	U
VMP-15-5-080811	TO-15	Propylbenzene	-	U
VMP-15-5-080811	TO-15	4-Ethyltoluene	-	U
VMP-15-5-080811	TO-15	1,3,5-Trimethylbenzene	-	U
VMP-15-5-080811	TO-15	1,3-Dichlorobenzene	-	U
VMP-15-5-080811	TO-15	1,4-Dichlorobenzene	-	U
VMP-15-5-080811	TO-15	alpha-Chlorotoluene	-	U
VMP-15-5-080811	TO-15	1,2-Dichlorobenzene	-	U
VMP-15-5-080811	TO-15	1,2,4-Trichlorobenzene	-	U
VMP-19-5-080911	TO-15	Freon 11	-	U
VMP-19-5-080911	TO-15	Carbon Disulfide	-	U
VMP-19-5-080911	TO-15	1,2-Dichloroethane	-	U
VMP-19-5-080911	TO-15	Trichloroethene	-	U
VMP-19-5-080911	TO-15	trans-1,3-Dichloropropene	-	U
VMP-19-5-080911	TO-15	Tetrachloroethene	-	U
VMP-19-5-080911	TO-15	1,2-Dibromoethane (EDB)	-	U
VMP-19-5-080911	TO-15	Chlorobenzene	-	U
VMP-19-5-080911	TO-15	o-Xylene	-	U
VMP-19-5-080911	TO-15	Styrene	-	U

Sample ID	Parameter	Analyte	New RL	Qualification
VMP-19-5-080911	TO-15	Bromoform	-	U
VMP-19-5-080911	TO-15	Propylbenzene	-	U
VMP-19-5-080911	TO-15	4-Ethyltoluene	-	U
VMP-19-5-080911	TO-15	1,3,5-Trimethylbenzene	-	U
VMP-19-5-080911	TO-15	1,2,4-Trimethylbenzene	-	U
VMP-19-5-080911	TO-15	1,3-Dichlorobenzene	-	U
VMP-19-5-080911	TO-15	1,4-Dichlorobenzene	-	U
VMP-19-5-080911	TO-15	alpha-Chlorotoluene	-	U
VMP-19-5-080911	TO-15	1,2-Dichlorobenzene	-	U
VMP-19-5-080911	TO-15	1,2,4-Trichlorobenzene	-	U
VMP-19-5-080911-DUP	TO-15	Freon 11	-	U
VMP-19-5-080911-DUP	TO-15	Carbon Disulfide	-	U
VMP-19-5-080911-DUP	TO-15	1,2-Dichloroethane	-	U
VMP-19-5-080911-DUP	TO-15	trans-1,3-Dichloropropene	-	U
VMP-19-5-080911-DUP	TO-15	Tetrachloroethene	-	U
VMP-19-5-080911-DUP	TO-15	1,2-Dibromoethane (EBD)	-	U
VMP-19-5-080911-DUP	TO-15	Chlorobenzene	-	U
VMP-19-5-080911-DUP	TO-15	o-Xylene	-	U
VMP-19-5-080911-DUP	TO-15	Styrene	-	U
VMP-19-5-080911-DUP	TO-15	Propylbenzene	-	U
VMP-19-5-080911-DUP	TO-15	1,3,5-Trimethylbenzene	-	U
VMP-19-5-080911-DUP	TO-15	1,2,4-Trimethylbenzene	-	U
VMP-19-5-080911-DUP	TO-15	1,3-Dichlorobenzene	-	U
VMP-19-5-080911-DUP	TO-15	1,4-Dichlorobenzene	-	U
VMP-19-5-080911-DUP	TO-15	alpha-Chlorotoluene	-	U
VMP-19-5-080911-DUP	TO-15	1,2-Dichlorobenzene	-	U
VMP-19-5-080911-DUP	TO-15	1,2,4-Trichlorobenzene	-	U
VMP-25-5-080911	TO-15	trans-1,3-Dichloropropene	-	U
VMP-25-5-080911	TO-15	1,2-Dibromoethane (EDB)	-	U
VMP-25-5-080911	TO-15	Chlorobenzene	-	U
VMP-25-5-080911	TO-15	Bromoform	-	U
VMP-25-5-080911	TO-15	Propylbenzene	-	U
VMP-25-5-080911	TO-15	4-Ethyltoluene	-	U

Sample ID	Parameter	Analyte	New RL	Qualification
VMP-25-5-080911	TO-15	1,3-Dichlorobenzene	-	U
VMP-25-5-080911	TO-15	1,4-Dichlorobenzene	-	U
VMP-25-5-080911	TO-15	alpha-Chlorotoluene	-	U
VMP-25-5-080911	TO-15	1,2-Dichlorobenzene	-	U
VMP-25-5-080911	TO-15	1,2,4-Trichlorobenzene	-	U
VMP-13-5-080911	TO-15	Propylbenzene	-	U
VMP-13-5-080911	TO-15	1,3-Dichlorobenzene	-	U
VMP-13-5-080911	TO-15	1,4-Dichlorobenzene	-	U
VMP-13-5-080911	TO-15	alpha-Chlorotoluene	-	U
VMP-13-5-080911	TO-15	1,2,4-Trichlorobenzene	-	U
VMP-13-5-080911-DUP	TO-15	Carbon Disulfide	-	U
VMP-8-23.5-081011	TO-15	Carbon Disulfide	-	U
VMP-8-23.5-081011	TO-15	trans-1,3-Dichloropropene	-	U
VMP-8-23.5-081011	TO-15	Chlorobenzene	-	U
VMP-8-23.5-081011	TO-15	Propylbenzene	-	U
VMP-8-23.5-081011	TO-15	4-Ethyltoluene	-	U
VMP-8-23.5-081011	TO-15	1,3,5-Trimethylbenzene	-	U
VMP-8-23.5-081011	TO-15	1,3-Dichlorobenzene	-	U
VMP-8-23.5-081011	TO-15	1,4-Dichlorobenzene	-	U
VMP-8-23.5-081011	TO-15	alpha-Chlorotoluene	-	U
VMP-8-23.5-081011	TO-15	1,2-Dichlorobenzene	-	U
VMP-8-23.5-081011	TO-15	1,2,4-Trichlorobenzene	-	U

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	LCS/LCSD RPD	LCS/LCSD Criteria
1108244A-17B/BB	TO-15	1,2,4-Trichlorobenzene	128/ 133	4	70-130/25
1108244A-17B/BB	TO-15	Hexachlorobutadiene	134 /130	3	70-130/25
1108244A-17C/CC	TO-15	1,2,4-Trichlorobenzene	135 / 138	2.2	70-130/25
1108244A-17C/CC	TO-15	Hexachlorobutadiene	130/ 141	8	70-130/25

All associated data were reported as non-detect or qualified by the URS chemist as non-detect due to method blank contamination and associated with an LCS recovery above evaluation criteria, indicating a possible high bias; therefore, no qualification of data was required.

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-19-5-080911	VMP-19-5-080911-DUP
VMP-25-5-080911	VMP-25-5-080911-DUP
VMP-13-5-080911	VMP-13-5-080911-DUP

Were field duplicates within evaluation criteria?

No; in addition, please see Section 2.0 concerning field duplicate pair VMP-25-5-080911 and VMP-25-5-080911-DUP collected. VMP-25-5-080911-DUP was not analyzed due to reasons listed in Section 2.0.

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
VMP-19-5-080911	VMP-19-5-080911-DUP	TO-15	Ethanol	50	J/J
VMP-19-5-080911	VMP-19-5-080911-DUP	TO-15	Acetone	26	J/J
VMP-19-5-080911	VMP-19-5-080911-DUP	TO-15	Hexane	34	J/J
VMP-19-5-080911	VMP-19-5-080911-DUP	TO-15	Cyclohexane	35	J/J
VMP-19-5-080911	VMP-19-5-080911-DUP	TO-15	2,2,4-Trimethylpentane	25	J/J
VMP-19-5-080911	VMP-19-5-080911-DUP	TO-15	Butane	45	J/J
VMP-19-5-080911	VMP-19-5-080911-DUP	TO-15	Isopentane	40	J/J
VMP-13-5-080911	VMP-13-5-080911-DUP	TO-15	Ethanol	76	J/J
VMP-13-5-080911	VMP-13-5-080911-DUP	TO-15	Acetone	44	J/J
VMP-13-5-080911	VMP-13-5-080911-DUP	TO-15	2,2,4-Trimethylpentane	47	J/J
VMP-13-5-080911	VMP-13-5-080911-DUP	TO-15	Benzene	36	J/J
VMP-13-5-080911	VMP-13-5-080911-DUP	TO-15	4-Methyl-2-pentanone	39	J/J

VMP-13-5-080911	VMP-13-5-080911-DUP	TO-15	Cumene	40	J/J
VMP-13-5-080911	VMP-13-5-080911-DUP	TO-15	Butane	34	J/J
VMP-13-5-080911	VMP-13-5-080911-DUP	TO-15	Isopentane	40	J/J

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

No

8/24/2011

Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562593.00009
Workorder #: 1108244A

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 8/11/2011 at Air Toxics Ltd.

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

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

Regards,



Kelly Buettner
Project Manager

*Reviewed on
9/7/2011*

WORK ORDER #: 1108244A

Work Order Summary

CLIENT: Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-429-0100

P.O. # 21562593.00009

FAX:

PROJECT # 21562593.00009 Roxana Soil Vapor

DATE RECEIVED: 08/11/2011

CONTACT: Kelly Buettner

DATE COMPLETED: 08/24/2011

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-14-20-080811	Modified TO-15	8.0 "Hg	15 psi
01B	VMP-14-20-080811	Modified TO-15	8.0 "Hg	15 psi
02A	VMP-15-5-080811	Modified TO-15	3.5 "Hg	15 psi
03A	VMP-15-21.5-080811	Modified TO-15	8.5 "Hg	15 psi
04A	VMP-19-5-080911	Modified TO-15	9.5 "Hg	15 psi
05A	VMP-19-5-080911-DUP	Modified TO-15	8.5 "Hg	15 psi
06A	VMP-15-25.5-080811	Modified TO-15	8.5 "Hg	15 psi
07A(cancelled)	VMP-25-5-080911-DUP	Modified TO-15	0.0 "Hg	15 psi
08A	VMP-25-21-080911	Modified TO-15	7.0 "Hg	15 psi
09A	VMP-25-5-080911	Modified TO-15	4.0 "Hg	15 psi
10A	VMP-13-21.5-080911	Modified TO-15	10.0 "Hg	15 psi
10B	VMP-13-21.5-080911	Modified TO-15	10.0 "Hg	15 psi
11A	VMP-13-10.5-080911	Modified TO-15	10.0 "Hg	15 psi
12A	VMP-13-5-080911	Modified TO-15	9.5 "Hg	15 psi
13A	VMP-13-5-080911-DUP	Modified TO-15	7.0 "Hg	15 psi
14A	VMP-8-23.5-081011	Modified TO-15	7.0 "Hg	15 psi
15A	Lab Blank	Modified TO-15	NA	NA

Continued on next page

WORK ORDER #: 1108244A

Work Order Summary

CLIENT: Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-429-0100

FAX:

DATE RECEIVED: 08/11/2011

DATE COMPLETED: 08/24/2011

P.O. # 21562593.00009

PROJECT # 21562593.00009 Roxana Soil Vapor

CONTACT: Kelly Buettner

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
15B	Lab Blank	Modified TO-15	NA	NA
15C	Lab Blank	Modified TO-15	NA	NA
15D	Lab Blank	Modified TO-15	NA	NA
16A	CCV	Modified TO-15	NA	NA
16B	CCV	Modified TO-15	NA	NA
16C	CCV	Modified TO-15	NA	NA
16D	CCV	Modified TO-15	NA	NA
17A	LCS	Modified TO-15	NA	NA
17AA	LCSD	Modified TO-15	NA	NA
17B	LCS	Modified TO-15	NA	NA
17BB	LCSD	Modified TO-15	NA	NA
17C	LCS	Modified TO-15	NA	NA
17CC	LCSD	Modified TO-15	NA	NA
17D	LCS	Modified TO-15	NA	NA
17DD	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:

Sandra A. Fumara

Laboratory Director

DATE: 08/24/11

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/11 , Expiration date: 06/30/12.
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

**LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1108244A**

Fourteen 1 Liter Summa Canister samples were received on August 11, 2011. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

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

Receiving Notes

There was a significant difference (greater than 5.0" Hg) between the measured canister receipt vacuum and that which was reported on the Chain of Custody (COC) OR the canister tag for sample VMP-25-5-080911. A leak test indicated that the valve was functioning properly.

Analytical Notes

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

Dilution was performed on samples VMP-14-20-080811, VMP-15-21.5-080811, VMP-25-21-080911, VMP-13-21.5-080911, VMP-13-10.5-080911, VMP-13-5-080911 and VMP-13-5-080911-DUP due to the presence of high level target species.

Due to high-level target compounds, samples VMP-14-20-080811 and VMP-13-21.5-080911 were analyzed twice. In the "A" fraction, the sample was diluted to bring the highest-level compounds within the calibration range. The "B" fraction is also reported by client request and may be reported with "E" flags indicating the compound exceeds the calibration range. Both runs and associated QC are reported.

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified (0.2 ppbv for compounds reported at 0.5 ppbv and 0.8 ppbv for compounds reported at 2.0 ppbv) may be false positives.

Definition of Data Qualifying Flags

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

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

performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

Client Sample ID: VMP-14-20-080811 ** Use these results only. All other data was reported from the 690x dilution analysis.*
Lab ID#: 1108244A-01A DF=1720

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	8600	150000	30000	530000
2,2,4-Trimethylpentane	8600	42000	40000	200000
* Benzene	8600	5400000	27000	17000000
Heptane	8600	17000	35000	69000
Butane	34000	2300000	82000	5400000
Isopentane	34000	1900000	100000	5600000

Client Sample ID: VMP-14-20-080811 ** Do not use these results. Use all other data.*
Lab ID#: 1108244A-01B DF=690

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	3400	170000	12000	590000
2,2,4-Trimethylpentane	3400	47000	16000	220000
* Benzene	3400	5800000 E	11000	18000000 E
Heptane	3400	17000	14000	70000
Butane	14000	2500000	33000	6000000
Isopentane	14000	2100000	41000	6100000

Client Sample ID: VMP-15-5-080811

Lab ID#: 1108244A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.53 J	7.3	2.6 J
Freon 11	1.5	0.26 J	8.3	1.5 J
Ethanol	5.9	38	11	72
Acetone	5.9	37	14	88
2-Propanol	5.9	16	14	40
Carbon Disulfide	5.9	1.3 J	18	4.2 J
Methylene Chloride	1.5	3.5	5.2	12
Hexane	1.5	1.6	5.2	5.6
2-Butanone (Methyl Ethyl Ketone)	5.9	5.3 J	18	16 J

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

Client Sample ID: VMP-15-5-080811

Lab ID#: 1108244A-02A

Chloroform	1.5	0.47 J	7.2	2.3 J
2,2,4-Trimethylpentane	1.5	0.66 J	6.9	3.1 J
Benzene	1.5	43	4.7	140
1,2-Dichloroethane	1.5	~~0.27 J~~ U	6.0	~~1.1 J~~ U
Heptane	1.5	0.35 J	6.1	1.4 J
cis-1,3-Dichloropropene	1.5	~~0.20 J~~ U	6.7	~~0.89 J~~ U
4-Methyl-2-pentanone	1.5	17	6.1	70
Toluene	1.5	3.4	5.6	13
trans-1,3-Dichloropropene	1.5	~~0.27 J~~ U	6.7	~~1.2 J~~ U
Tetrachloroethene	1.5	~~0.19 J~~ U	10	~~1.3 J~~ U
2-Hexanone	5.9	0.38 J	24	1.6 J
1,2-Dibromoethane (EDB)	1.5	~~0.19 J~~ U	11	~~1.5 J~~ U
Chlorobenzene	1.5	~~0.56 J~~ U	6.8	~~2.6 J~~ U
Ethyl Benzene	1.5	0.36 J	6.4	1.6 J
m,p-Xylene	1.5	0.92 J	6.4	4.0 J
o-Xylene	1.5	0.36 J	6.4	1.6 J
Styrene	1.5	0.41 J	6.3	1.8 J
Bromoform	1.5	~~0.13 J~~ U	15	~~1.3 J~~ U
Cumene	1.5	2.1	7.3	10
Propylbenzene	1.5	~~0.16 J~~ U	7.3	~~0.81 J~~ U
4-Ethyltoluene	1.5	~~0.23 J~~ U	7.3	~~1.1 J~~ U
1,3,5-Trimethylbenzene	1.5	~~0.22 J~~ U	7.3	~~1.1 J~~ U
1,2,4-Trimethylbenzene	1.5	0.69 J	7.3	3.4 J
1,3-Dichlorobenzene	1.5	~~0.43 J~~ U	8.9	~~2.6 J~~ U
1,4-Dichlorobenzene	1.5	~~0.49 J~~ U	8.9	~~2.9 J~~ U
alpha-Chlorotoluene	1.5	~~0.31 J~~ U	7.7	~~1.6 J~~ U
1,2-Dichlorobenzene	1.5	~~0.29 J~~ U	8.9	~~1.8 J~~ U
1,2,4-Trichlorobenzene	5.9	~~0.94 J~~ U	44	~~7.0 J~~ U
Butane	5.9	2.5 J	14	5.9 J
Isopentane	5.9	4.9 J	18	14 J

Client Sample ID: VMP-15-21.5-080811

Lab ID#: 1108244A-03A

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

Client Sample ID: VMP-15-21.5-080811

Lab ID#: 1108244A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	560	160 J	1300	370 J
Methylene Chloride	140	170	490	580
2,2,4-Trimethylpentane	140	66000	660	310000
Benzene	140	250	450	800
Toluene	140	27 J	530	100 J
Butane	560	15000	1300	35000
Isopentane	560	43000	1700	130000

Client Sample ID: VMP-19-5-080911

Lab ID#: 1108244A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.54 J	7.3	2.7 J
Freon 11	1.5	~~0.18 J~~ u	8.3	~~0.98 J~~ u
Ethanol	5.9	25 J	11	47 J
Acetone	5.9	30 J	14	70 J
2-Propanol	5.9	11	14	26
Carbon Disulfide	5.9	~~0.93 J~~ u	18	~~2.9 J~~ u
Hexane	1.5	33 J	5.2	120 J
2-Butanone (Methyl Ethyl Ketone)	5.9	5.7 J	17	17 J
Cyclohexane	1.5	14 J	5.1	50 J
2,2,4-Trimethylpentane	1.5	22 J	6.9	100 J
Benzene	1.5	150	4.7	480
1,2-Dichloroethane	1.5	~~0.40 J~~ u	6.0	~~1.6 J~~ u
Heptane	1.5	8.9	6.1	36
Trichloroethene	1.5	~~0.34 J~~ u	8.0	~~1.6 J~~ u
4-Methyl-2-pentanone	1.5	40	6.1	160
Toluene	1.5	8.6	5.6	32
trans-1,3-Dichloropropene	1.5	~~0.26 J~~ u	6.7	~~1.2 J~~ u
Tetrachloroethene	1.5	~~0.41 J~~ u	10	~~2.8 J~~ u
1,2-Dibromoethane (EDB)	1.5	~~0.19 J~~ u	11	~~1.5 J~~ u

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

Client Sample ID: VMP-19-5-080911

Lab ID#: 1108244A-04A

Chlorobenzene	1.5	~~0.74 J~~ U	6.8	~~3.4 J~~ U
Ethyl Benzene	1.5	1.2 J	6.4	5.1 J
m,p-Xylene	1.5	2.5	6.4	11
o-Xylene	1.5	~~0.74 J~~ U	6.4	~~3.2 J~~ U
Styrene	1.5	~~0.54 J~~ U	6.3	~~2.3 J~~ U
Bromoform	1.5	~~0.11 J~~ U	15	~~1.1 J~~ U
Cumene	1.5	9.1	7.3	45
Propylbenzene	1.5	~~0.25 J~~ U	7.3	~~1.2 J~~ U
4-Ethyltoluene	1.5	~~0.35 J~~ U	7.3	~~1.7 J~~ U
1,3,5-Trimethylbenzene	1.5	~~0.32 J~~ U	7.3	~~1.6 J~~ U
1,2,4-Trimethylbenzene	1.5	~~1.2 J~~ U	7.3	~~5.7 J~~ U
1,3-Dichlorobenzene	1.5	~~0.29 J~~ U	8.9	~~1.7 J~~ U
1,4-Dichlorobenzene	1.5	~~0.38 J~~ U	8.9	~~2.2 J~~ U
alpha-Chlorotoluene	1.5	~~0.76 J~~ U	7.7	~~4.0 J~~ U
1,2-Dichlorobenzene	1.5	~~0.21 J~~ U	8.9	~~1.2 J~~ U
1,2,4-Trichlorobenzene	5.9	~~0.57 J~~ U	44	~~4.2 J~~ U
Butane	5.9	28 J	14	68 J
Isopentane	5.9	71 J	17	210 J

Client Sample ID: VMP-19-5-080911-DUP

Lab ID#: 1108244A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.52 J	7.0	2.6 J
Freon 11	1.4	~~0.22 J~~ U	7.9	~~1.2 J~~ U
Ethanol	5.6	42 J	11	78 J
Acetone	5.6	23 J	13	54 J
2-Propanol	5.6	11	14	28
Carbon Disulfide	5.6	~~0.75 J~~ U	18	~~2.3 J~~ U
Methylene Chloride	1.4	~~0.46 J~~ U	4.9	~~1.6 J~~ U
Hexane	1.4	24 J	5.0	85 J
2-Butanone (Methyl Ethyl Ketone)	5.6	6.0	17	18
Cyclohexane	1.4	10 J	4.8	35 J

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

Client Sample ID: VMP-19-5-080911-DUP

Lab ID#: 1108244A-05A

2,2,4-Trimethylpentane	1.4	17 J	6.6	78 J
Benzene	1.4	130	4.5	410
1,2-Dichloroethane	1.4	~~0.28 J~~ U	5.7	~~1.1 J~~ U
Heptane	1.4	7.8	5.8	32
4-Methyl-2-pentanone	1.4	39	5.8	160
Toluene	1.4	7.1	5.3	27
trans-1,3-Dichloropropene	1.4	~~0.16 J~~ U	6.4	~~0.74 J~~ U
Tetrachloroethene	1.4	~~0.32 J~~ U	9.6	~~2.1 J~~ U
1,2-Dibromoethane (EDB)	1.4	~~0.13 J~~ U	11	~~0.98 J~~ U
Chlorobenzene	1.4	~~0.75 J~~ U	6.5	~~3.4 J~~ U
Ethyl Benzene	1.4	1.2 J	6.1	5.1 J
m,p-Xylene	1.4	2.5	6.1	11
o-Xylene	1.4	~~0.74 J~~ U	6.1	~~3.2 J~~ U
Styrene	1.4	~~0.52 J~~ U	6.0	~~2.2 J~~ U
Cumene	1.4	9.1	6.9	44
Propylbenzene	1.4	~~0.22 J~~ U	6.9	~~1.0 J~~ U
1,3,5-Trimethylbenzene	1.4	~~0.30 J~~ U	6.9	~~1.5 J~~ U
1,2,4-Trimethylbenzene	1.4	~~0.98 J~~ U	6.9	~~4.8 J~~ U
1,3-Dichlorobenzene	1.4	~~0.21 J~~ U	8.5	~~1.2 J~~ U
1,4-Dichlorobenzene	1.4	~~0.30 J~~ U	8.5	~~1.8 J~~ U
alpha-Chlorotoluene	1.4	~~0.64 J~~ U	7.3	~~3.3 J~~ U
1,2-Dichlorobenzene	1.4	~~0.12 J~~ U	8.5	~~0.71 J~~ U
1,2,4-Trichlorobenzene	5.6	~~0.38 J~~ U	42	~~2.8 J~~ U
Butane	5.6	18 J	13	43 J
Isopentane	5.6	48 J	17	140 J

Client Sample ID: VMP-15-25.5-080811

Lab ID#: 1108244A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	56	46 J	110	87 J
Acetone	56	23 J	130	54 J
Chloroform	14	70	69	340

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

Client Sample ID: VMP-15-25.5-080811

Lab ID#: 1108244A-06A

2,2,4-Trimethylpentane	14	3700	66	17000
Benzene	14	40	45	130
Toluene	14	5.7 J	53	22 J
m,p-Xylene	14	3.6 J	61	16 J
Cumene	14	4.6 J	69	22 J
1,2,4-Trimethylbenzene	14	2.0 J	69	9.9 J
Butane	56	240	130	580
Isopentane	56	1600	170	4800

Client Sample ID: VMP-25-21-080911

Lab ID#: 1108244A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1-Dichloroethene	8200	5400 J	33000	22000 J
Hexane	8200	790000	29000	2800000
cis-1,2-Dichloroethene	8200	2800 J	33000	11000 J
1,1,1-Trichloroethane	8200	15000	45000	80000
2,2,4-Trimethylpentane	8200	520000	38000	2400000
Benzene	8200	350000	26000	1100000
Heptane	8200	170000	34000	700000
Trichloroethene	8200	10000	44000	54000
Toluene	8200	320000	31000	1200000
Tetrachloroethene	8200	40000	56000	270000
Ethyl Benzene	8200	48000	36000	210000
m,p-Xylene	8200	230000	36000	1000000
o-Xylene	8200	65000	36000	280000
Cumene	8200	2000 J	40000	9700 J
Propylbenzene	8200	7300 J	40000	36000 J
4-Ethyltoluene	8200	38000	40000	190000
1,3,5-Trimethylbenzene	8200	15000	40000	73000
1,2,4-Trimethylbenzene	8200	38000	40000	190000
Butane	33000	6300000	78000	15000000
Isopentane	33000	6400000	97000	19000000

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

Client Sample ID: VMP-25-5-080911

Lab ID#: 1108244A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.51 J	5.8	2.5 J
Freon 11	1.2	0.27 J	6.5	1.5 J
Ethanol	4.7	55	8.8	100
Acetone	4.7	66	11	160
2-Propanol	4.7	48	11	120
Carbon Disulfide	4.7	3.0 J	14	9.5 J
Methylene Chloride	1.2	7.4	4.0	26
Methyl tert-butyl ether	1.2	0.64 J	4.2	2.3 J
Hexane	1.2	28	4.1	100
2-Butanone (Methyl Ethyl Ketone)	4.7	20	14	58
Chloroform	1.2	0.44 J	5.7	2.1 J
Cyclohexane	1.2	11	4.0	39
2,2,4-Trimethylpentane	1.2	16	5.4	76
Benzene	1.2	97	3.7	310
1,2-Dichloroethane	1.2	0.53 J	4.7	2.2 J
Heptane	1.2	8.3	4.8	34
Trichloroethene	1.2	0.35 J	6.3	1.9 J
1,2-Dichloropropane	1.2	0.63 J	5.4	2.9 J
4-Methyl-2-pentanone	1.2	9.6	4.8	39
Toluene	1.2	270	4.4	1000
trans-1,3-Dichloropropene	1.2	~~0.20 J~~ u	5.3	~~0.90 J~~ u
Tetrachloroethene	1.2	0.84 J	7.9	5.7 J
1,2-Dibromoethane (EDB)	1.2	~~0.16 J~~ u	9.0	~~1.2 J~~ u
Chlorobenzene	1.2	~~0.79 J~~ u	5.4	~~3.6 J~~ u
Ethyl Benzene	1.2	2.3	5.0	10
m,p-Xylene	1.2	6.3	5.0	27
o-Xylene	1.2	1.8	5.0	7.8
Styrene	1.2	1.2	5.0	5.2
Bromoform	1.2	~~0.089 J~~ u	12	~~0.92 J~~ u
Cumene	1.2	1.7	5.7	8.3
Propylbenzene	1.2	~~0.28 J~~ u	5.7	~~1.4 J~~ u
4-Ethyltoluene	1.2	~~0.33 J~~ u	5.7	~~1.6 J~~ u

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

Client Sample ID: VMP-25-5-080911

Lab ID#: 1108244A-09A

1,3,5-Trimethylbenzene	1.2	0.31 J	5.7	1.5 J
1,2,4-Trimethylbenzene	1.2	0.83 J	5.7	4.1 J
1,3-Dichlorobenzene	1.2	~~0.26 J~~ U	7.0	~~1.6 J~~ U
1,4-Dichlorobenzene	1.2	~~0.35 J~~ U	7.0	~~2.1 J~~ U
alpha-Chlorotoluene	1.2	~~0.15 J~~ U	6.0	~~0.78 J~~ U
1,2-Dichlorobenzene	1.2	~~0.20 J~~ U	7.0	~~1.2 J~~ U
1,2,4-Trichlorobenzene	4.7	~~0.78 J~~ U	34	~~5.8 J~~ U
Butane	4.7	40	11	94
Isopentane	4.7	180	14	530

Client Sample ID: VMP-13-21.5-080911 *Use these results only. All other data was reported from the 25.2x dilution analysis.

Lab ID#: 1108244A-10A DF=101

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	500	360 J	1800	1300 J
2,2,4-Trimethylpentane	500	10000	2400	47000
* Benzene	500	260000	1600	830000
Butane	2000	22000	4800	53000
Isopentane	2000	32000	6000	96000

Client Sample ID: VMP-13-21.5-080911 *Do not use these results. Use all other data.

Lab ID#: 1108244A-10B DF=25.2

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	130	290	440	1000
2,2,4-Trimethylpentane	130	12000	590	55000
* Benzene	130	300000 E	400	970000 E
Toluene	130	49 J	470	180 J
Ethyl Benzene	130	87 J	550	380 J
m,p-Xylene	130	42 J	550	180 J
Butane	500	25000	1200	59000
Isopentane	500	36000	1500	100000

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

Client Sample ID: VMP-13-10.5-080911

Lab ID#: 1108244A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	30	85	110	300
2,2,4-Trimethylpentane	30	7300	140	34000
Benzene	30	16000	97	51000
Cumene	30	5.6 J	150	27 J
Butane	120	14000	290	33000
Isopentane	120	16000	360	48000

Client Sample ID: VMP-13-5-080911

Lab ID#: 1108244A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3.0	0.55 J	15	2.7 J
Ethanol	12	34 J	22	63 J
Acetone	12	26 J	28	61 J
2-Propanol	12	8.5 J	29	21 J
Methylene Chloride	3.0	2.4 J	10	8.5 J
Hexane	3.0	1.8 J	10	6.5 J
2-Butanone (Methyl Ethyl Ketone)	12	4.6 J	35	13 J
Cyclohexane	3.0	2.0 J	10	6.8 J
2,2,4-Trimethylpentane	3.0	620 J	14	2900 J
Benzene	3.0	8.3 J	9.4	26 J
4-Methyl-2-pentanone	3.0	30 J	12	120 J
Toluene	3.0	6.0	11	23
Chlorobenzene	3.0	0.99 J	14	4.6 J
Ethyl Benzene	3.0	0.57 J	13	2.5 J
m,p-Xylene	3.0	1.7 J	13	7.3 J
o-Xylene	3.0	0.42 J	13	1.8 J
Styrene	3.0	0.58 J	13	2.5 J
Cumene	3.0	8.0 J	14	39 J
Propylbenzene	3.0	~~0.19 J~~ u	14	~~0.94 J~~ u
4-Ethyltoluene	3.0	0.39 J	14	1.9 J

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

Client Sample ID: VMP-13-5-080911

Lab ID#: 1108244A-12A

1,3,5-Trimethylbenzene	3.0	0.36 J	14	1.8 J
1,2,4-Trimethylbenzene	3.0	0.99 J	14	4.9 J
1,3-Dichlorobenzene	3.0	~~0.36 J~~ u	18	~~2.2 J~~ u
1,4-Dichlorobenzene	3.0	~~0.48 J~~ u	18	~~2.9 J~~ u
alpha-Chlorotoluene	3.0	~~0.43 J~~ u	15	~~2.2 J~~ u
1,2,4-Trichlorobenzene	12	~~0.75 J~~ u	88	~~5.5 J~~ u
Butane	12	700 J	28	1700 J
Isopentane	12	1000 J	35	3000 J

Client Sample ID: VMP-13-5-080911-DUP

Lab ID#: 1108244A-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.6	0.60 J	13	3.0 J
Ethanol	10	74 J	20	140 J
Acetone	10	40 J	25	95 J
2-Propanol	10	20	26	48
Carbon Disulfide	10	~~1.0 J~~ u	33	~~3.2 J~~ u
Methylene Chloride	2.6	1.1 J	9.2	4.0 J
Hexane	2.6	2.8	9.3	9.8
2-Butanone (Methyl Ethyl Ketone)	10	5.0 J	31	15 J
Cyclohexane	2.6	1.4 J	9.1	4.8 J
2,2,4-Trimethylpentane	2.6	390 J	12	1800 J
Benzene	2.6	5.6 J	8.4	18 J
4-Methyl-2-pentanone	2.6	20 J	11	81 J
Toluene	2.6	5.9	9.9	22
2-Hexanone	10	0.57 J	43	2.4 J
Chlorobenzene	2.6	0.96 J	12	4.4 J
Ethyl Benzene	2.6	0.48 J	11	2.1 J
m,p-Xylene	2.6	1.1 J	11	5.0 J
o-Xylene	2.6	0.37 J	11	1.6 J
Styrene	2.6	0.30 J	11	1.3 J
Cumene	2.6	5.3 J	13	26 J

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

Client Sample ID: VMP-13-5-080911-DUP

Lab ID#: 1108244A-13A

1,2,4-Trimethylbenzene	2.6	0.57 J	13	2.8 J
Butane	10	490 J	25	1200 J
Isopentane	10	690 J	31	2000 J

Client Sample ID: VMP-8-23.5-081011

Lab ID#: 1108244A-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.55 J	6.5	2.7 J
Freon 11	1.3	0.26 J	7.4	1.4 J
Ethanol	5.3	27	9.9	52
Acetone	5.3	18	12	43
2-Propanol	5.3	10	13	25
Carbon Disulfide	5.3	~~0.66 J~~ u	16	~~2.7 J~~ u
Methylene Chloride	1.3	0.61 J	4.6	2.1 J
Hexane	1.3	9.4	4.6	33
2-Butanone (Methyl Ethyl Ketone)	5.3	4.3 J	16	12 J
Cyclohexane	1.3	3.4	4.5	12
2,2,4-Trimethylpentane	1.3	6.6	6.2	31
Benzene	1.3	56	4.2	180
Heptane	1.3	2.8	5.4	12
4-Methyl-2-pentanone	1.3	25	5.4	100
Toluene	1.3	4.0	5.0	15
trans-1,3-Dichloropropene	1.3	~~0.19 J~~ u	6.0	~~0.87 J~~ u
Tetrachloroethene	1.3	0.33 J	9.0	2.2 J
2-Hexanone	5.3	0.52 J	22	2.2 J
Chlorobenzene	1.3	~~0.56 J~~ u	6.1	~~2.6 J~~ u
Ethyl Benzene	1.3	0.54 J	5.7	2.3 J
m,p-Xylene	1.3	1.3 J	5.7	5.5 J
o-Xylene	1.3	0.37 J	5.7	1.6 J
Styrene	1.3	0.29 J	5.6	1.2 J
Cumene	1.3	3.9	6.5	19
Propylbenzene	1.3	~~0.12 J~~ u	6.5	~~0.58 J~~ u

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

Client Sample ID: VMP-8-23.5-081011

Lab ID#: 1108244A-14A

4-Ethyltoluene	1.3	~~0.18 J~~ U	6.5	~~0.91 J~~ U
1,3,5-Trimethylbenzene	1.3	~~0.17 J~~ U	6.5	~~0.86 J~~ U
1,2,4-Trimethylbenzene	1.3	0.50 J	6.5	2.4 J
1,3-Dichlorobenzene	1.3	~~0.16 J~~ U	7.9	~~0.99 J~~ U
1,4-Dichlorobenzene	1.3	~~0.22 J~~ U	7.9	~~1.3 J~~ U
alpha-Chlorotoluene	1.3	~~0.19 J~~ U	6.8	~~0.97 J~~ U
1,2-Dichlorobenzene	1.3	~~0.11 J~~ U	7.9	~~0.69 J~~ U
1,2,4-Trichlorobenzene	5.3	~~0.36 J~~ U	39	~~2.7 J~~ U
Butane	5.3	8.4	12	20
Isopentane	5.3	23	16	69

Client Sample ID: VMP-14-20-080811

Lab ID#: 1108244A-01A

EPA METHOD TO-15 GC/MS

** Use these results only. All other data was reported from the 690x dilution analysis.*

File Name: 14082210 Date of Collection: 8/8/11 11:49:00 AM
Dil. Factor: 1720 Date of Analysis: 8/22/11 08:18 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	8600	Not Detected	42000	Not Detected
Freon 114	8600	Not Detected	60000	Not Detected
Chloromethane	34000	Not Detected	71000	Not Detected
Vinyl Chloride	8600	Not Detected	22000	Not Detected
1,3-Butadiene	8600	Not Detected	19000	Not Detected
Bromomethane	8600	Not Detected	33000	Not Detected
Chloroethane	34000	Not Detected	91000	Not Detected
Freon 11	8600	Not Detected	48000	Not Detected
Ethanol	34000	Not Detected	65000	Not Detected
Freon 113	8600	Not Detected	66000	Not Detected
1,1-Dichloroethene	8600	Not Detected	34000	Not Detected
Acetone	34000	Not Detected	82000	Not Detected
2-Propanol	34000	Not Detected	84000	Not Detected
Carbon Disulfide	8600	Not Detected	27000	Not Detected
3-Chloropropene	34000	Not Detected	110000	Not Detected
Methylene Chloride	8600	Not Detected	30000	Not Detected
Methyl tert-butyl ether	8600	Not Detected	31000	Not Detected
trans-1,2-Dichloroethene	8600	Not Detected	34000	Not Detected
Hexane	8600	150000	30000	530000
1,1-Dichloroethane	8600	Not Detected	35000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	34000	Not Detected	100000	Not Detected
cis-1,2-Dichloroethene	8600	Not Detected	34000	Not Detected
Tetrahydrofuran	8600	Not Detected	25000	Not Detected
Chloroform	8600	Not Detected	42000	Not Detected
1,1,1-Trichloroethane	8600	Not Detected	47000	Not Detected
Cyclohexane	8600	Not Detected	30000	Not Detected
Carbon Tetrachloride	8600	Not Detected	54000	Not Detected
2,2,4-Trimethylpentane	8600	42000	40000	200000
* Benzene	8600	5400000	27000	17000000
1,2-Dichloroethane	8600	Not Detected	35000	Not Detected
Heptane	8600	17000	35000	69000
Trichloroethene	8600	Not Detected	46000	Not Detected
1,2-Dichloropropane	8600	Not Detected	40000	Not Detected
1,4-Dioxane	34000	Not Detected	120000	Not Detected
Bromodichloromethane	8600	Not Detected	58000	Not Detected
cis-1,3-Dichloropropene	8600	Not Detected	39000	Not Detected
4-Methyl-2-pentanone	8600	Not Detected	35000	Not Detected
Toluene	8600	Not Detected	32000	Not Detected
trans-1,3-Dichloropropene	8600	Not Detected	39000	Not Detected
1,1,2-Trichloroethane	8600	Not Detected	47000	Not Detected
Tetrachloroethene	8600	Not Detected	58000	Not Detected

Client Sample ID: VMP-14-20-080811

Lab ID#: 1108244A-01A

EPA METHOD TO-15 GC/MS

File Name:	14082210	Date of Collection: 8/8/11 11:49:00 AM
Dil. Factor:	1720	Date of Analysis: 8/22/11 08:18 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	34000	Not Detected	140000	Not Detected
Dibromochloromethane	8600	Not Detected	73000	Not Detected
1,2-Dibromoethane (EDB)	8600	Not Detected	66000	Not Detected
Chlorobenzene	8600	Not Detected	40000	Not Detected
Ethyl Benzene	8600	Not Detected	37000	Not Detected
m,p-Xylene	8600	Not Detected	37000	Not Detected
o-Xylene	8600	Not Detected	37000	Not Detected
Styrene	8600	Not Detected	37000	Not Detected
Bromoform	8600	Not Detected	89000	Not Detected
Cumene	8600	Not Detected	42000	Not Detected
1,1,2,2-Tetrachloroethane	8600	Not Detected	59000	Not Detected
Propylbenzene	8600	Not Detected	42000	Not Detected
4-Ethyltoluene	8600	Not Detected	42000	Not Detected
1,3,5-Trimethylbenzene	8600	Not Detected	42000	Not Detected
1,2,4-Trimethylbenzene	8600	Not Detected	42000	Not Detected
1,3-Dichlorobenzene	8600	Not Detected	52000	Not Detected
1,4-Dichlorobenzene	8600	Not Detected	52000	Not Detected
alpha-Chlorotoluene	8600	Not Detected	44000	Not Detected
1,2-Dichlorobenzene	8600	Not Detected	52000	Not Detected
1,2,4-Trichlorobenzene	34000	Not Detected	260000	Not Detected
Hexachlorobutadiene	34000	Not Detected	370000	Not Detected
Butane	34000	2300000	82000	5400000
Isopentane	34000	1900000	100000	5600000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: VMP-14-20-080811

Lab ID#: 1108244A-01B

EPA METHOD TO-15 GC/MS

**Do not use these results. Use
all other data.*

File Name: 14082209 Date of Collection: 8/8/11 11:49:00 AM
Dil. Factor: 690 Date of Analysis: 8/22/11 07:54 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3400	Not Detected	17000	Not Detected
Freon 114	3400	Not Detected	24000	Not Detected
Chloromethane	14000	Not Detected	28000	Not Detected
Vinyl Chloride	3400	Not Detected	8800	Not Detected
1,3-Butadiene	3400	Not Detected	7600	Not Detected
Bromomethane	3400	Not Detected	13000	Not Detected
Chloroethane	14000	Not Detected	36000	Not Detected
Freon 11	3400	Not Detected	19000	Not Detected
Ethanol	14000	Not Detected	26000	Not Detected
Freon 113	3400	Not Detected	26000	Not Detected
1,1-Dichloroethene	3400	Not Detected	14000	Not Detected
Acetone	14000	Not Detected	33000	Not Detected
2-Propanol	14000	Not Detected	34000	Not Detected
Carbon Disulfide	3400	Not Detected	11000	Not Detected
3-Chloropropene	14000	Not Detected	43000	Not Detected
Methylene Chloride	3400	Not Detected	12000	Not Detected
Methyl tert-butyl ether	3400	Not Detected	12000	Not Detected
trans-1,2-Dichloroethene	3400	Not Detected	14000	Not Detected
Hexane	3400	170000	12000	590000
1,1-Dichloroethane	3400	Not Detected	14000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	14000	Not Detected	41000	Not Detected
cis-1,2-Dichloroethene	3400	Not Detected	14000	Not Detected
Tetrahydrofuran	3400	Not Detected	10000	Not Detected
Chloroform	3400	Not Detected	17000	Not Detected
1,1,1-Trichloroethane	3400	Not Detected	19000	Not Detected
Cyclohexane	3400	Not Detected	12000	Not Detected
Carbon Tetrachloride	3400	Not Detected	22000	Not Detected
2,2,4-Trimethylpentane	3400	47000	16000	220000
~~Benzene~~	~~3400~~	~~5800000 E~~	~~11000~~	~~18000000 E~~
1,2-Dichloroethane	3400	Not Detected	14000	Not Detected
Heptane	3400	17000	14000	70000
Trichloroethene	3400	Not Detected	18000	Not Detected
1,2-Dichloropropane	3400	Not Detected	16000	Not Detected
1,4-Dioxane	14000	Not Detected	50000	Not Detected
Bromodichloromethane	3400	Not Detected	23000	Not Detected
cis-1,3-Dichloropropene	3400	Not Detected	16000	Not Detected
4-Methyl-2-pentanone	3400	Not Detected	14000	Not Detected
Toluene	3400	Not Detected	13000	Not Detected
trans-1,3-Dichloropropene	3400	Not Detected	16000	Not Detected
1,1,2-Trichloroethane	3400	Not Detected	19000	Not Detected
Tetrachloroethene	3400	Not Detected	23000	Not Detected

Client Sample ID: VMP-14-20-080811

Lab ID#: 1108244A-01B

EPA METHOD TO-15 GC/MS

File Name:	14082209	Date of Collection: 8/8/11 11:49:00 AM
Dil. Factor:	690	Date of Analysis: 8/22/11 07:54 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	14000	Not Detected	56000	Not Detected
Dibromochloromethane	3400	Not Detected	29000	Not Detected
1,2-Dibromoethane (EDB)	3400	Not Detected	26000	Not Detected
Chlorobenzene	3400	Not Detected	16000	Not Detected
Ethyl Benzene	3400	Not Detected	15000	Not Detected
m,p-Xylene	3400	Not Detected	15000	Not Detected
o-Xylene	3400	Not Detected	15000	Not Detected
Styrene	3400	Not Detected	15000	Not Detected
Bromoform	3400	Not Detected	36000	Not Detected
Cumene	3400	Not Detected	17000	Not Detected
1,1,2,2-Tetrachloroethane	3400	Not Detected	24000	Not Detected
Propylbenzene	3400	Not Detected	17000	Not Detected
4-Ethyltoluene	3400	Not Detected	17000	Not Detected
1,3,5-Trimethylbenzene	3400	Not Detected	17000	Not Detected
1,2,4-Trimethylbenzene	3400	Not Detected	17000	Not Detected
1,3-Dichlorobenzene	3400	Not Detected	21000	Not Detected
1,4-Dichlorobenzene	3400	Not Detected	21000	Not Detected
alpha-Chlorotoluene	3400	Not Detected	18000	Not Detected
1,2-Dichlorobenzene	3400	Not Detected	21000	Not Detected
1,2,4-Trichlorobenzene	14000	Not Detected	100000	Not Detected
Hexachlorobutadiene	14000	Not Detected	150000	Not Detected
Butane	14000	2500000	33000	6000000
Isopentane	14000	2100000	41000	6100000

E = Exceeds instrument calibration range.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: VMP-15-5-080811

Lab ID#: 1108244A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o082208	Date of Collection:	8/8/11 3:33:00 PM	
Dil. Factor:	2.97	Date of Analysis:	8/22/11 12:12 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.53 J	7.3	2.6 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	5.9	Not Detected	12	Not Detected
Vinyl Chloride	1.5	Not Detected	3.8	Not Detected
1,3-Butadiene	1.5	Not Detected	3.3	Not Detected
Bromomethane	1.5	Not Detected	5.8	Not Detected
Chloroethane	5.9	Not Detected	16	Not Detected
Freon 11	1.5	0.26 J	8.3	1.5 J
Ethanol	5.9	38	11	72
Freon 113	1.5	Not Detected	11	Not Detected
1,1-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Acetone	5.9	37	14	88
2-Propanol	5.9	16	14	40
Carbon Disulfide	5.9	1.3 J	18	4.2 J
3-Chloropropene	5.9	Not Detected	18	Not Detected
Methylene Chloride	1.5	3.5	5.2	12
Methyl tert-butyl ether	1.5	Not Detected	5.4	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Hexane	1.5	1.6	5.2	5.6
1,1-Dichloroethane	1.5	Not Detected	6.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.9	5.3 J	18	16 J
cis-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.4	Not Detected
Chloroform	1.5	0.47 J	7.2	2.3 J
1,1,1-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Cyclohexane	1.5	Not Detected	5.1	Not Detected
Carbon Tetrachloride	1.5	Not Detected	9.3	Not Detected
2,2,4-Trimethylpentane	1.5	0.66 J	6.9	3.1 J
Benzene	1.5	43	4.7	140
1,2-Dichloroethane	1.5	~~0.27 J~~ u	6.0	~~1.1 J~~ u
Heptane	1.5	0.35 J	6.1	1.4 J
Trichloroethene	1.5	Not Detected	8.0	Not Detected
1,2-Dichloropropane	1.5	Not Detected	6.9	Not Detected
1,4-Dioxane	5.9	Not Detected	21	Not Detected
Bromodichloromethane	1.5	Not Detected	10	Not Detected
cis-1,3-Dichloropropene	1.5	~~0.20 J~~ u	6.7	~~0.89 J~~ u
4-Methyl-2-pentanone	1.5	17	6.1	70
Toluene	1.5	3.4	5.6	13
trans-1,3-Dichloropropene	1.5	~~0.27 J~~ u	6.7	~~1.2 J~~ u
1,1,2-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Tetrachloroethene	1.5	0.19 J	10	1.3 J

Client Sample ID: VMP-15-5-080811

Lab ID#: 1108244A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o082208	Date of Collection: 8/8/11 3:33:00 PM
Dil. Factor:	2.97	Date of Analysis: 8/22/11 12:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.9	0.38 J	24	1.6 J
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	~~0.19 J~~ U	11	~~1.5 J~~ U
Chlorobenzene	1.5	~~0.56 J~~ U	6.8	~~2.6 J~~ U
Ethyl Benzene	1.5	0.36 J	6.4	1.6 J
m,p-Xylene	1.5	0.92 J	6.4	4.0 J
o-Xylene	1.5	0.36 J	6.4	1.6 J
Styrene	1.5	0.41 J	6.3	1.8 J
Bromoform	1.5	~~0.13 J~~ U	15	~~1.3 J~~ U
Cumene	1.5	2.1	7.3	10
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	~~0.16 J~~ U	7.3	~~0.81 J~~ U
4-Ethyltoluene	1.5	~~0.23 J~~ U	7.3	~~1.1 J~~ U
1,3,5-Trimethylbenzene	1.5	~~0.22 J~~ U	7.3	~~1.1 J~~ U
1,2,4-Trimethylbenzene	1.5	0.69 J	7.3	3.4 J
1,3-Dichlorobenzene	1.5	~~0.43 J~~ U	8.9	~~2.6 J~~ U
1,4-Dichlorobenzene	1.5	~~0.49 J~~ U	8.9	~~2.9 J~~ U
alpha-Chlorotoluene	1.5	~~0.31 J~~ U	7.7	~~1.6 J~~ U
1,2-Dichlorobenzene	1.5	~~0.29 J~~ U	8.9	~~1.8 J~~ U
1,2,4-Trichlorobenzene	5.9	~~0.94 J~~ U	44	~~7.0 J~~ U
Hexachlorobutadiene	5.9	Not Detected	63	Not Detected
Butane	5.9	2.5 J	14	5.9 J
Isopentane	5.9	4.9 J	18	14 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	114	70-130

Client Sample ID: VMP-15-21.5-080811

Lab ID#: 1108244A-03A

EPA METHOD TO-15 GC/MS

File Name:	14082123	Date of Collection: 8/8/11 4:44:00 PM		
Dil. Factor:	28.2	Date of Analysis: 8/21/11 01:37 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	140	Not Detected	700	Not Detected
Freon 114	140	Not Detected	980	Not Detected
Chloromethane	560	Not Detected	1200	Not Detected
Vinyl Chloride	140	Not Detected	360	Not Detected
1,3-Butadiene	140	Not Detected	310	Not Detected
Bromomethane	140	Not Detected	550	Not Detected
Chloroethane	560	Not Detected	1500	Not Detected
Freon 11	140	Not Detected	790	Not Detected
Ethanol	560	Not Detected	1100	Not Detected
Freon 113	140	Not Detected	1100	Not Detected
1,1-Dichloroethene	140	Not Detected	560	Not Detected
Acetone	560	160 J	1300	370 J
2-Propanol	560	Not Detected	1400	Not Detected
Carbon Disulfide	140	Not Detected	440	Not Detected
3-Chloropropene	560	Not Detected	1800	Not Detected
Methylene Chloride	140	170	490	580
Methyl tert-butyl ether	140	Not Detected	510	Not Detected
trans-1,2-Dichloroethene	140	Not Detected	560	Not Detected
Hexane	140	Not Detected	500	Not Detected
1,1-Dichloroethane	140	Not Detected	570	Not Detected
2-Butanone (Methyl Ethyl Ketone)	560	Not Detected	1700	Not Detected
cis-1,2-Dichloroethene	140	Not Detected	560	Not Detected
Tetrahydrofuran	140	Not Detected	420	Not Detected
Chloroform	140	Not Detected	690	Not Detected
1,1,1-Trichloroethane	140	Not Detected	770	Not Detected
Cyclohexane	140	Not Detected	480	Not Detected
Carbon Tetrachloride	140	Not Detected	890	Not Detected
2,2,4-Trimethylpentane	140	66000	660	310000
Benzene	140	250	450	800
1,2-Dichloroethane	140	Not Detected	570	Not Detected
Heptane	140	Not Detected	580	Not Detected
Trichloroethene	140	Not Detected	760	Not Detected
1,2-Dichloropropane	140	Not Detected	650	Not Detected
1,4-Dioxane	560	Not Detected	2000	Not Detected
Bromodichloromethane	140	Not Detected	940	Not Detected
cis-1,3-Dichloropropene	140	Not Detected	640	Not Detected
4-Methyl-2-pentanone	140	Not Detected	580	Not Detected
Toluene	140	27 J	530	100 J
trans-1,3-Dichloropropene	140	Not Detected	640	Not Detected
1,1,2-Trichloroethane	140	Not Detected	770	Not Detected
Tetrachloroethene	140	Not Detected	960	Not Detected

Client Sample ID: VMP-15-21.5-080811

Lab ID#: 1108244A-03A

EPA METHOD TO-15 GC/MS

File Name:	14082123	Date of Collection: 8/8/11 4:44:00 PM
Dil. Factor:	28.2	Date of Analysis: 8/21/11 01:37 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	560	Not Detected	2300	Not Detected
Dibromochloromethane	140	Not Detected	1200	Not Detected
1,2-Dibromoethane (EDB)	140	Not Detected	1100	Not Detected
Chlorobenzene	140	Not Detected	650	Not Detected
Ethyl Benzene	140	Not Detected	610	Not Detected
m,p-Xylene	140	Not Detected	610	Not Detected
o-Xylene	140	Not Detected	610	Not Detected
Styrene	140	Not Detected	600	Not Detected
Bromoform	140	Not Detected	1400	Not Detected
Cumene	140	Not Detected	690	Not Detected
1,1,2,2-Tetrachloroethane	140	Not Detected	970	Not Detected
Propylbenzene	140	Not Detected	690	Not Detected
4-Ethyltoluene	140	Not Detected	690	Not Detected
1,3,5-Trimethylbenzene	140	Not Detected	690	Not Detected
1,2,4-Trimethylbenzene	140	Not Detected	690	Not Detected
1,3-Dichlorobenzene	140	Not Detected	850	Not Detected
1,4-Dichlorobenzene	140	Not Detected	850	Not Detected
alpha-Chlorotoluene	140	Not Detected	730	Not Detected
1,2-Dichlorobenzene	140	Not Detected	850	Not Detected
1,2,4-Trichlorobenzene	560	Not Detected	4200	Not Detected
Hexachlorobutadiene	560	Not Detected	6000	Not Detected
Butane	560	15000	1300	35000
Isopentane	560	43000	1700	130000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	97	70-130

Client Sample ID: VMP-19-5-080911

Lab ID#: 1108244A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

ETA METHOD TO-15 GC/MS FULL SCAN

File Name:	o081614	Date of Collection:	8/9/11 1:44:00 PM
Dil. Factor:	2.96	Date of Analysis:	8/17/11 07:00 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.54 J	7.3	2.7 J
Freon 114	1.5	Not Detected	10	Not Detected
Chloromethane	5.9	Not Detected	12	Not Detected
Vinyl Chloride	1.5	Not Detected	3.8	Not Detected
1,3-Butadiene	1.5	Not Detected	3.3	Not Detected
Bromomethane	1.5	Not Detected	5.7	Not Detected
Chloroethane	5.9	Not Detected	16	Not Detected
Freon 11	1.5	~~0.18 J~~ u	8.3	~~0.08 J~~ u
Ethanol	5.9	25 J	11	47 J
Freon 113	1.5	Not Detected	11	Not Detected
1,1-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Acetone	5.9	30 J	14	70 J
2-Propanol	5.9	11	14	26
Carbon Disulfide	5.9	~~0.03 J~~ u	18	~~2.0 J~~ u
3-Chloropropene	5.9	Not Detected	18	Not Detected
Methylene Chloride	1.5	Not Detected	5.1	Not Detected
Methyl tert-butyl ether	1.5	Not Detected	5.3	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Hexane	1.5	33 J	5.2	120 J
1,1-Dichloroethane	1.5	Not Detected	6.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.9	5.7 J	17	17 J
cis-1,2-Dichloroethene	1.5	Not Detected	5.9	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.4	Not Detected
Chloroform	1.5	Not Detected	7.2	Not Detected
1,1,1-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Cyclohexane	1.5	14 J	5.1	50 J
Carbon Tetrachloride	1.5	Not Detected	9.3	Not Detected
2,2,4-Trimethylpentane	1.5	22 J	6.9	100 J
Benzene	1.5	150	4.7	480
1,2-Dichloroethane	1.5	~~0.40 J~~ u	6.0	~~1.6 J~~ u
Heptane	1.5	8.9	6.1	36
Trichloroethene	1.5	~~0.31 J~~ u	8.0	~~1.6 J~~ u
1,2-Dichloropropane	1.5	Not Detected	6.8	Not Detected
1,4-Dioxane	5.9	Not Detected	21	Not Detected
Bromodichloromethane	1.5	Not Detected	9.9	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
4-Methyl-2-pentanone	1.5	40	6.1	160
Toluene	1.5	8.6	5.6	32
trans-1,3-Dichloropropene	1.5	~~0.26 J~~ u	6.7	~~1.2 J~~ u
1,1,2-Trichloroethane	1.5	Not Detected	8.1	Not Detected
Tetrachloroethene	1.5	~~0.41 J~~ u	10	~~2.8 J~~ u

Client Sample ID: VMP-19-5-080911

Lab ID#: 1108244A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o081614	Date of Collection:	8/9/11 1:44:00 PM	
Dil. Factor:	2.96	Date of Analysis:	8/17/11 07:00 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.9	Not Detected	24	Not Detected
Dibromochloromethane	1.5	Not Detected	13	Not Detected
1,2-Dibromoethane (EDB)	1.5	~~0.19 J~~ U	11	~~1.5 J~~ U
Chlorobenzene	1.5	~~0.74 J~~ U	6.8	~~3.4 J~~ U
Ethyl Benzene	1.5	1.2 J	6.4	5.1 J
m,p-Xylene	1.5	2.5	6.4	11
o-Xylene	1.5	~~0.74 J~~ U	6.4	~~3.2 J~~ U
Styrene	1.5	~~0.54 J~~ U	6.3	~~2.3 J~~ U
Bromoform	1.5	~~0.11 J~~ U	15	~~1.1 J~~ U
Cumene	1.5	9.1	7.3	45
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	~~0.25 J~~ U	7.3	~~1.2 J~~ U
4-Ethyltoluene	1.5	~~0.35 J~~ U	7.3	~~1.7 J~~ U
1,3,5-Trimethylbenzene	1.5	~~0.32 J~~ U	7.3	~~1.6 J~~ U
1,2,4-Trimethylbenzene	1.5	~~1.2 J~~ U	7.3	~~5.7 J~~ U
1,3-Dichlorobenzene	1.5	~~0.29 J~~ U	8.9	~~1.7 J~~ U
1,4-Dichlorobenzene	1.5	~~0.36 J~~ U	8.9	~~2.2 J~~ U
alpha-Chlorotoluene	1.5	~~0.76 J~~ U	7.7	~~4.0 J~~ U
1,2-Dichlorobenzene	1.5	~~0.21 J~~ U	8.9	~~1.2 J~~ U
1,2,4-Trichlorobenzene	5.9	~~0.57 J~~ U	44	~~4.2 J~~ U
Hexachlorobutadiene	5.9	Not Detected	63	Not Detected
Butane	5.9	28 J	14	68 J
Isopentane	5.9	71 J	17	210 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	108	70-130

Client Sample ID: VMP-19-5-080911-DUP

Lab ID#: 1108244A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o081615	Date of Collection: 8/9/11 1:44:00 PM
Dil. Factor:	2.82	Date of Analysis: 8/17/11 07:46 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.52 J	7.0	2.6 J
Freon 114	1.4	Not Detected	9.8	Not Detected
Chloromethane	5.6	Not Detected	12	Not Detected
Vinyl Chloride	1.4	Not Detected	3.6	Not Detected
1,3-Butadiene	1.4	Not Detected	3.1	Not Detected
Bromomethane	1.4	Not Detected	5.5	Not Detected
Chloroethane	5.6	Not Detected	15	Not Detected
Freon 11	1.4	0.22 J	7.9	1.2 J
Ethanol	5.6	42 J	11	78 J
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Acetone	5.6	23 J	13	54 J
2-Propanol	5.6	11	14	28
Carbon Disulfide	5.6	0.75 J	18	2.3 J
3-Chloropropene	5.6	Not Detected	18	Not Detected
Methylene Chloride	1.4	0.46 J	4.9	1.6 J
Methyl tert-butyl ether	1.4	Not Detected	5.1	Not Detected
trans-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Hexane	1.4	24 J	5.0	85 J
1,1-Dichloroethane	1.4	Not Detected	5.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.6	6.0	17	18
cis-1,2-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.2	Not Detected
Chloroform	1.4	Not Detected	6.9	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Cyclohexane	1.4	10 J	4.8	35 J
Carbon Tetrachloride	1.4	Not Detected	8.9	Not Detected
2,2,4-Trimethylpentane	1.4	17 J	6.6	78 J
Benzene	1.4	130	4.5	410
1,2-Dichloroethane	1.4	0.26 J	5.7	1.1 J
Heptane	1.4	7.8	5.8	32
Trichloroethene	1.4	Not Detected	7.6	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.5	Not Detected
1,4-Dioxane	5.6	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.4	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
4-Methyl-2-pentanone	1.4	39	5.8	160
Toluene	1.4	7.1	5.3	27
trans-1,3-Dichloropropene	1.4	0.16 J	6.4	0.74 J
1,1,2-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Tetrachloroethene	1.4	0.32 J	9.6	2.1 J

Client Sample ID: VMP-19-5-080911-DUP

Lab ID#: 1108244A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

EPA METHOD 10-15 GC/MS FID SCAN				
File Name:	o081615	Date of Collection: 8/9/11 1:44:00 PM		
Dil. Factor:	2.82	Date of Analysis: 8/17/11 07:46 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.6	Not Detected	23	Not Detected
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	~~0.13 J~~ U	11	~~0.98 J~~ U
Chlorobenzene	1.4	~~0.75 J~~ U	6.5	~~3.4 J~~ U
Ethyl Benzene	1.4	1.2 J	6.1	5.1 J
m,p-Xylene	1.4	2.5	6.1	11
o-Xylene	1.4	~~0.74 J~~ U	6.1	~~3.2 J~~ U
Styrene	1.4	~~0.52 J~~ U	6.0	~~2.2 J~~ U
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	9.1	6.9	44
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.7	Not Detected
Propylbenzene	1.4	~~0.22 J~~ U	6.9	~~1.0 J~~ U
4-Ethyltoluene	1.4	Not Detected	6.9	Not Detected
1,3,5-Trimethylbenzene	1.4	~~0.30 J~~ U	6.9	~~1.5 J~~ U
1,2,4-Trimethylbenzene	1.4	~~0.98 J~~ U	6.9	~~4.8 J~~ U
1,3-Dichlorobenzene	1.4	~~0.21 J~~ U	8.5	~~1.2 J~~ U
1,4-Dichlorobenzene	1.4	~~0.30 J~~ U	8.5	~~1.8 J~~ U
alpha-Chlorotoluene	1.4	~~0.64 J~~ U	7.3	~~3.3 J~~ U
1,2-Dichlorobenzene	1.4	~~0.12 J~~ U	8.5	~~0.71 J~~ U
1,2,4-Trichlorobenzene	5.6	~~0.38 J~~ U	42	~~2.8 J~~ U
Hexachlorobutadiene	5.6	Not Detected	60	Not Detected
Butane	5.6	18 J	13	43 J
Isopentane	5.6	48 J	17	140 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	111	70-130

Client Sample ID: VMP-15-25.5-080811

Lab ID#: 1108244A-06A

EPA METHOD TO-15 GC/MS

File Name:	14082124	Date of Collection: 8/8/11 6:05:00 PM		
Dil. Factor:	2.82	Date of Analysis: 8/21/11 01:59 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	14	Not Detected	70	Not Detected
Freon 114	14	Not Detected	98	Not Detected
Chloromethane	56	Not Detected	120	Not Detected
Vinyl Chloride	14	Not Detected	36	Not Detected
1,3-Butadiene	14	Not Detected	31	Not Detected
Bromomethane	14	Not Detected	55	Not Detected
Chloroethane	56	Not Detected	150	Not Detected
Freon 11	14	Not Detected	79	Not Detected
Ethanol	56	46 J	110	87 J
Freon 113	14	Not Detected	110	Not Detected
1,1-Dichloroethene	14	Not Detected	56	Not Detected
Acetone	56	23 J	130	54 J
2-Propanol	56	Not Detected	140	Not Detected
Carbon Disulfide	14	Not Detected	44	Not Detected
3-Chloropropene	56	Not Detected	180	Not Detected
Methylene Chloride	14	Not Detected	49	Not Detected
Methyl tert-butyl ether	14	Not Detected	51	Not Detected
trans-1,2-Dichloroethene	14	Not Detected	56	Not Detected
Hexane	14	Not Detected	50	Not Detected
1,1-Dichloroethane	14	Not Detected	57	Not Detected
2-Butanone (Methyl Ethyl Ketone)	56	Not Detected	170	Not Detected
cis-1,2-Dichloroethene	14	Not Detected	56	Not Detected
Tetrahydrofuran	14	Not Detected	42	Not Detected
Chloroform	14	70	69	340
1,1,1-Trichloroethane	14	Not Detected	77	Not Detected
Cyclohexane	14	Not Detected	48	Not Detected
Carbon Tetrachloride	14	Not Detected	89	Not Detected
2,2,4-Trimethylpentane	14	3700	66	17000
Benzene	14	40	45	130
1,2-Dichloroethane	14	Not Detected	57	Not Detected
Heptane	14	Not Detected	58	Not Detected
Trichloroethene	14	Not Detected	76	Not Detected
1,2-Dichloropropane	14	Not Detected	65	Not Detected
1,4-Dioxane	56	Not Detected	200	Not Detected
Bromodichloromethane	14	Not Detected	94	Not Detected
cis-1,3-Dichloropropene	14	Not Detected	64	Not Detected
4-Methyl-2-pentanone	14	Not Detected	58	Not Detected
Toluene	14	5.7 J	53	22 J
trans-1,3-Dichloropropene	14	Not Detected	64	Not Detected
1,1,2-Trichloroethane	14	Not Detected	77	Not Detected
Tetrachloroethene	14	Not Detected	96	Not Detected

Client Sample ID: VMP-15-25.5-080811

Lab ID#: 1108244A-06A

EPA METHOD TO-15 GC/MS

File Name:	14082124	Date of Collection: 8/8/11 6:05:00 PM		
Dil. Factor:	2.82	Date of Analysis: 8/21/11 01:59 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	56	Not Detected	230	Not Detected
Dibromochloromethane	14	Not Detected	120	Not Detected
1,2-Dibromoethane (EDB)	14	Not Detected	110	Not Detected
Chlorobenzene	14	Not Detected	65	Not Detected
Ethyl Benzene	14	Not Detected	61	Not Detected
m,p-Xylene	14	3.6 J	61	16 J
o-Xylene	14	Not Detected	61	Not Detected
Styrene	14	Not Detected	60	Not Detected
Bromoform	14	Not Detected	140	Not Detected
Cumene	14	4.6 J	69	22 J
1,1,2,2-Tetrachloroethane	14	Not Detected	97	Not Detected
Propylbenzene	14	Not Detected	69	Not Detected
4-Ethyltoluene	14	Not Detected	69	Not Detected
1,3,5-Trimethylbenzene	14	Not Detected	69	Not Detected
1,2,4-Trimethylbenzene	14	2.0 J	69	9.9 J
1,3-Dichlorobenzene	14	Not Detected	85	Not Detected
1,4-Dichlorobenzene	14	Not Detected	85	Not Detected
alpha-Chlorotoluene	14	Not Detected	73	Not Detected
1,2-Dichlorobenzene	14	Not Detected	85	Not Detected
1,2,4-Trichlorobenzene	56	Not Detected	420	Not Detected
Hexachlorobutadiene	56	Not Detected	600	Not Detected
Butane	56	240	130	580
Isopentane	56	1600	170	4800

J = Estimated value.

Container Type: 1 Liter Summa Canister

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

Client Sample ID: VMP-25-21-080911

Lab ID#: 1108244A-08A

EPA METHOD TO-15 GC/MS

File Name:	14082211	Date of Collection: 8/9/11 10:48:00 AM		
Dil. Factor:	1650	Date of Analysis: 8/22/11 08:46 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	8200	Not Detected	41000	Not Detected
Freon 114	8200	Not Detected	58000	Not Detected
Chloromethane	33000	Not Detected	68000	Not Detected
Vinyl Chloride	8200	Not Detected	21000	Not Detected
1,3-Butadiene	8200	Not Detected	18000	Not Detected
Bromomethane	8200	Not Detected	32000	Not Detected
Chloroethane	33000	Not Detected	87000	Not Detected
Freon 11	8200	Not Detected	46000	Not Detected
Ethanol	33000	Not Detected	62000	Not Detected
Freon 113	8200	Not Detected	63000	Not Detected
1,1-Dichloroethene	8200	5400 J	33000	22000 J
Acetone	33000	Not Detected	78000	Not Detected
2-Propanol	33000	Not Detected	81000	Not Detected
Carbon Disulfide	8200	Not Detected	26000	Not Detected
3-Chloropropene	33000	Not Detected	100000	Not Detected
Methylene Chloride	8200	Not Detected	29000	Not Detected
Methyl tert-butyl ether	8200	Not Detected	30000	Not Detected
trans-1,2-Dichloroethene	8200	Not Detected	33000	Not Detected
Hexane	8200	790000	29000	2800000
1,1-Dichloroethane	8200	Not Detected	33000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	33000	Not Detected	97000	Not Detected
cis-1,2-Dichloroethene	8200	2800 J	33000	11000 J
Tetrahydrofuran	8200	Not Detected	24000	Not Detected
Chloroform	8200	Not Detected	40000	Not Detected
1,1,1-Trichloroethane	8200	15000	45000	80000
Cyclohexane	8200	Not Detected	28000	Not Detected
Carbon Tetrachloride	8200	Not Detected	52000	Not Detected
2,2,4-Trimethylpentane	8200	520000	38000	2400000
Benzene	8200	350000	26000	1100000
1,2-Dichloroethane	8200	Not Detected	33000	Not Detected
Heptane	8200	170000	34000	700000
Trichloroethene	8200	10000	44000	54000
1,2-Dichloropropane	8200	Not Detected	38000	Not Detected
1,4-Dioxane	33000	Not Detected	120000	Not Detected
Bromodichloromethane	8200	Not Detected	55000	Not Detected
cis-1,3-Dichloropropene	8200	Not Detected	37000	Not Detected
4-Methyl-2-pentanone	8200	Not Detected	34000	Not Detected
Toluene	8200	320000	31000	1200000
trans-1,3-Dichloropropene	8200	Not Detected	37000	Not Detected
1,1,2-Trichloroethane	8200	Not Detected	45000	Not Detected
Tetrachloroethene	8200	40000	56000	270000

Client Sample ID: VMP-25-21-080911

Lab ID#: 1108244A-08A

EPA METHOD TO-15 GC/MS

ETA METHOD 10-15 GC/MS

File Name:	14082211	Date of Collection:	8/9/11 10:48:00 AM	
Dil. Factor:	1650	Date of Analysis:	8/22/11 08:46 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	33000	Not Detected	140000	Not Detected
Dibromochloromethane	8200	Not Detected	70000	Not Detected
1,2-Dibromoethane (EDB)	8200	Not Detected	63000	Not Detected
Chlorobenzene	8200	Not Detected	38000	Not Detected
Ethyl Benzene	8200	48000	36000	210000
m,p-Xylene	8200	230000	36000	1000000
o-Xylene	8200	65000	36000	280000
Styrene	8200	Not Detected	35000	Not Detected
Bromoform	8200	Not Detected	85000	Not Detected
Cumene	8200	2000 J	40000	9700 J
1,1,2,2-Tetrachloroethane	8200	Not Detected	57000	Not Detected
Propylbenzene	8200	7300 J	40000	36000 J
4-Ethyltoluene	8200	38000	40000	190000
1,3,5-Trimethylbenzene	8200	15000	40000	73000
1,2,4-Trimethylbenzene	8200	38000	40000	190000
1,3-Dichlorobenzene	8200	Not Detected	50000	Not Detected
1,4-Dichlorobenzene	8200	Not Detected	50000	Not Detected
alpha-Chlorotoluene	8200	Not Detected	43000	Not Detected
1,2-Dichlorobenzene	8200	Not Detected	50000	Not Detected
1,2,4-Trichlorobenzene	33000	Not Detected	240000	Not Detected
Hexachlorobutadiene	33000	Not Detected	350000	Not Detected
Butane	33000	6300000	78000	15000000
Isopentane	33000	6400000	97000	19000000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130

Client Sample ID: VMP-25-5-080911

Lab ID#: 1108244A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o082209	Date of Collection:	8/9/11 9:33:00 AM	
Dil. Factor:	2.33	Date of Analysis:	8/22/11 02:44 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.51 J	5.8	2.5 J
Freon 114	1.2	Not Detected	8.1	Not Detected
Chloromethane	4.7	Not Detected	9.6	Not Detected
Vinyl Chloride	1.2	Not Detected	3.0	Not Detected
1,3-Butadiene	1.2	Not Detected	2.6	Not Detected
Bromomethane	1.2	Not Detected	4.5	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Freon 11	1.2	0.27 J	6.5	1.5 J
Ethanol	4.7	55	8.8	100
Freon 113	1.2	Not Detected	8.9	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Acetone	4.7	66	11	160
2-Propanol	4.7	48	11	120
Carbon Disulfide	4.7	3.0 J	14	9.5 J
3-Chloropropene	4.7	Not Detected	14	Not Detected
Methylene Chloride	1.2	7.4	4.0	26
Methyl tert-butyl ether	1.2	0.64 J	4.2	2.3 J
trans-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Hexane	1.2	28	4.1	100
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.7	20	14	58
cis-1,2-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.4	Not Detected
Chloroform	1.2	0.44 J	5.7	2.1 J
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Cyclohexane	1.2	11	4.0	39
Carbon Tetrachloride	1.2	Not Detected	7.3	Not Detected
2,2,4-Trimethylpentane	1.2	16	5.4	76
Benzene	1.2	97	3.7	310
1,2-Dichloroethane	1.2	0.53 J	4.7	2.2 J
Heptane	1.2	8.3	4.8	34
Trichloroethene	1.2	0.35 J	6.3	1.9 J
1,2-Dichloropropane	1.2	0.63 J	5.4	2.9 J
1,4-Dioxane	4.7	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	7.8	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
4-Methyl-2-pentanone	1.2	9.6	4.8	39
Toluene	1.2	270	4.4	1000
trans-1,3-Dichloropropene	1.2	0.20 J u	5.3	0.00 J u
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	0.84 J	7.9	5.7 J

Client Sample ID: VMP-25-5-080911

Lab ID#: 1108244A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o082209	Date of Collection:	8/9/11 9:33:00 AM
Dil. Factor:	2.33	Date of Analysis:	8/22/11 02:44 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	4.7	Not Detected	19	Not Detected
Dibromochloromethane	1.2	Not Detected	9.9	Not Detected
1,2-Dibromoethane (EDB)	1.2	~~0.16 J~~ U	9.0	~~1.2 J~~ U
Chlorobenzene	1.2	~~0.79 J~~ U	5.4	~~3.6 J~~ U
Ethyl Benzene	1.2	2.3	5.0	10
m,p-Xylene	1.2	6.3	5.0	27
o-Xylene	1.2	1.8	5.0	7.8
Styrene	1.2	1.2	5.0	5.2
Bromoform	1.2	~~0.089 J~~ U	12	~~0.92 J~~ U
Cumene	1.2	1.7	5.7	8.3
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
Propylbenzene	1.2	~~0.28 J~~ U	5.7	~~1.4 J~~ U
4-Ethyltoluene	1.2	~~0.33 J~~ U	5.7	~~1.6 J~~ U
1,3,5-Trimethylbenzene	1.2	0.31 J	5.7	1.5 J
1,2,4-Trimethylbenzene	1.2	0.83 J	5.7	4.1 J
1,3-Dichlorobenzene	1.2	~~0.26 J~~ U	7.0	~~1.6 J~~ U
1,4-Dichlorobenzene	1.2	~~0.35 J~~ U	7.0	~~2.1 J~~ U
alpha-Chlorotoluene	1.2	~~0.15 J~~ U	6.0	~~0.78 J~~ U
1,2-Dichlorobenzene	1.2	~~0.20 J~~ U	7.0	~~1.2 J~~ U
1,2,4-Trichlorobenzene	4.7	~~0.78 J~~ U	34	~~5.8 J~~ U
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected
Butane	4.7	40	11	94
Isopentane	4.7	180	14	530

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	113	70-130

Client Sample ID: VMP-13-21.5-080911

Lab ID#: 1108244A-10A

EPA METHOD TO-15 GC/MS

** Use these results only. All other data was reported from the 25.2x dilution analysis.*

File Name: 14082128 Date of Collection: 8/9/11 5:54:00 PM
Dil. Factor: 101 Date of Analysis: 8/21/11 03:29 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	4200	Not Detected
Vinyl Chloride	500	Not Detected	1300	Not Detected
1,3-Butadiene	500	Not Detected	1100	Not Detected
Bromomethane	500	Not Detected	2000	Not Detected
Chloroethane	2000	Not Detected	5300	Not Detected
Freon 11	500	Not Detected	2800	Not Detected
Ethanol	2000	Not Detected	3800	Not Detected
Freon 113	500	Not Detected	3900	Not Detected
1,1-Dichloroethene	500	Not Detected	2000	Not Detected
Acetone	2000	Not Detected	4800	Not Detected
2-Propanol	2000	Not Detected	5000	Not Detected
Carbon Disulfide	500	Not Detected	1600	Not Detected
3-Chloropropene	2000	Not Detected	6300	Not Detected
Methylene Chloride	500	Not Detected	1800	Not Detected
Methyl tert-butyl ether	500	Not Detected	1800	Not Detected
trans-1,2-Dichloroethene	500	Not Detected	2000	Not Detected
Hexane	500	360 J	1800	1300 J
1,1-Dichloroethane	500	Not Detected	2000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2000	Not Detected	6000	Not Detected
cis-1,2-Dichloroethene	500	Not Detected	2000	Not Detected
Tetrahydrofuran	500	Not Detected	1500	Not Detected
Chloroform	500	Not Detected	2500	Not Detected
1,1,1-Trichloroethane	500	Not Detected	2800	Not Detected
Cyclohexane	500	Not Detected	1700	Not Detected
Carbon Tetrachloride	500	Not Detected	3200	Not Detected
2,2,4-Trimethylpentane	500	10000	2400	47000
* Benzene	500	260000	1600	830000
1,2-Dichloroethane	500	Not Detected	2000	Not Detected
Heptane	500	Not Detected	2100	Not Detected
Trichloroethene	500	Not Detected	2700	Not Detected
1,2-Dichloropropane	500	Not Detected	2300	Not Detected
1,4-Dioxane	2000	Not Detected	7300	Not Detected
Bromodichloromethane	500	Not Detected	3400	Not Detected
cis-1,3-Dichloropropene	500	Not Detected	2300	Not Detected
4-Methyl-2-pentanone	500	Not Detected	2100	Not Detected
Toluene	500	Not Detected	1900	Not Detected
trans-1,3-Dichloropropene	500	Not Detected	2300	Not Detected
1,1,2-Trichloroethane	500	Not Detected	2800	Not Detected
Tetrachloroethene	500	Not Detected	3400	Not Detected

Client Sample ID: VMP-13-21.5-080911

Lab ID#: 1108244A-10A

EPA METHOD TO-15 GC/MS

File Name:	14082128	Date of Collection:	8/9/11 5:54:00 PM
Dil. Factor:	101	Date of Analysis:	8/21/11 03:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2000	Not Detected	8300	Not Detected
Dibromochloromethane	500	Not Detected	4300	Not Detected
1,2-Dibromoethane (EDB)	500	Not Detected	3900	Not Detected
Chlorobenzene	500	Not Detected	2300	Not Detected
Ethyl Benzene	500	Not Detected	2200	Not Detected
m,p-Xylene	500	Not Detected	2200	Not Detected
o-Xylene	500	Not Detected	2200	Not Detected
Styrene	500	Not Detected	2200	Not Detected
Bromoform	500	Not Detected	5200	Not Detected
Cumene	500	Not Detected	2500	Not Detected
1,1,2,2-Tetrachloroethane	500	Not Detected	3500	Not Detected
Propylbenzene	500	Not Detected	2500	Not Detected
4-Ethyltoluene	500	Not Detected	2500	Not Detected
1,3,5-Trimethylbenzene	500	Not Detected	2500	Not Detected
1,2,4-Trimethylbenzene	500	Not Detected	2500	Not Detected
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	22000	Not Detected
Butane	2000	22000	4800	53000
Isopentane	2000	32000	6000	96000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: VMP-13-21.5-080911

Lab ID#: 1108244A-10B

**Do not use these results. Use all other data.*

EPA METHOD TO-15 GC/MS

File Name:	14082127	Date of Collection:	8/9/11 5:54:00 PM
Dil. Factor:	25.2	Date of Analysis:	8/21/11 03:08 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	130	Not Detected	620	Not Detected
Freon 114	130	Not Detected	880	Not Detected
Chloromethane	500	Not Detected	1000	Not Detected
Vinyl Chloride	130	Not Detected	320	Not Detected
1,3-Butadiene	130	Not Detected	280	Not Detected
Bromomethane	130	Not Detected	490	Not Detected
Chloroethane	500	Not Detected	1300	Not Detected
Freon 11	130	Not Detected	710	Not Detected
Ethanol	500	Not Detected	950	Not Detected
Freon 113	130	Not Detected	960	Not Detected
1,1-Dichloroethene	130	Not Detected	500	Not Detected
Acetone	500	Not Detected	1200	Not Detected
2-Propanol	500	Not Detected	1200	Not Detected
Carbon Disulfide	130	Not Detected	390	Not Detected
3-Chloropropene	500	Not Detected	1600	Not Detected
Methylene Chloride	130	Not Detected	440	Not Detected
Methyl tert-butyl ether	130	Not Detected	450	Not Detected
trans-1,2-Dichloroethene	130	Not Detected	500	Not Detected
Hexane	130	290	440	1000
1,1-Dichloroethane	130	Not Detected	510	Not Detected
2-Butanone (Methyl Ethyl Ketone)	500	Not Detected	1500	Not Detected
cis-1,2-Dichloroethene	130	Not Detected	500	Not Detected
Tetrahydrofuran	130	Not Detected	370	Not Detected
Chloroform	130	Not Detected	620	Not Detected
1,1,1-Trichloroethane	130	Not Detected	690	Not Detected
Cyclohexane	130	Not Detected	430	Not Detected
Carbon Tetrachloride	130	Not Detected	790	Not Detected
2,2,4-Trimethylpentane	130	12000	590	55000
~~Benzene~~	~~130~~	~~300000 E~~	~~400~~	~~970000 E~~
1,2-Dichloroethane	130	Not Detected	510	Not Detected
Heptane	130	Not Detected	520	Not Detected
Trichloroethene	130	Not Detected	680	Not Detected
1,2-Dichloropropane	130	Not Detected	580	Not Detected
1,4-Dioxane	500	Not Detected	1800	Not Detected
Bromodichloromethane	130	Not Detected	840	Not Detected
cis-1,3-Dichloropropene	130	Not Detected	570	Not Detected
4-Methyl-2-pentanone	130	Not Detected	520	Not Detected
Toluene	130	49 J	470	180 J
trans-1,3-Dichloropropene	130	Not Detected	570	Not Detected
1,1,2-Trichloroethane	130	Not Detected	690	Not Detected
Tetrachloroethene	130	Not Detected	850	Not Detected

Client Sample ID: VMP-13-21.5-080911

Lab ID#: 1108244A-10B

EPA METHOD TO-15 GC/MS

File Name:	14082127	Date of Collection:	8/9/11 5:54:00 PM	
Dil. Factor:	25.2	Date of Analysis:	8/21/11 03:08 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	500	Not Detected	2100	Not Detected
Dibromochloromethane	130	Not Detected	1100	Not Detected
1,2-Dibromoethane (EDB)	130	Not Detected	970	Not Detected
Chlorobenzene	130	Not Detected	580	Not Detected
Ethyl Benzene	130	87 J	550	380 J
m,p-Xylene	130	42 J	550	180 J
o-Xylene	130	Not Detected	550	Not Detected
Styrene	130	Not Detected	540	Not Detected
Bromoform	130	Not Detected	1300	Not Detected
Cumene	130	Not Detected	620	Not Detected
1,1,2,2-Tetrachloroethane	130	Not Detected	860	Not Detected
Propylbenzene	130	Not Detected	620	Not Detected
4-Ethyltoluene	130	Not Detected	620	Not Detected
1,3,5-Trimethylbenzene	130	Not Detected	620	Not Detected
1,2,4-Trimethylbenzene	130	Not Detected	620	Not Detected
1,3-Dichlorobenzene	130	Not Detected	760	Not Detected
1,4-Dichlorobenzene	130	Not Detected	760	Not Detected
alpha-Chlorotoluene	130	Not Detected	650	Not Detected
1,2-Dichlorobenzene	130	Not Detected	760	Not Detected
1,2,4-Trichlorobenzene	500	Not Detected	3700	Not Detected
Hexachlorobutadiene	500	Not Detected	5400	Not Detected
Butane	500	25000	1200	59000
Isopentane	500	36000	1500	100000

E = Exceeds instrument calibration range.

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	94	70-130

Client Sample ID: VMP-13-10.5-080911

Lab ID#: 1108244A-11A

EPA METHOD TO-15 GC/MS

File Name:	14082129	Date of Collection: 8/9/11 5:01:00 PM
Dil. Factor:	6.06	Date of Analysis: 8/21/11 03:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	30	Not Detected	150	Not Detected
Freon 114	30	Not Detected	210	Not Detected
Chloromethane	120	Not Detected	250	Not Detected
Vinyl Chloride	30	Not Detected	77	Not Detected
1,3-Butadiene	30	Not Detected	67	Not Detected
Bromomethane	30	Not Detected	120	Not Detected
Chloroethane	120	Not Detected	320	Not Detected
Freon 11	30	Not Detected	170	Not Detected
Ethanol	120	Not Detected	230	Not Detected
Freon 113	30	Not Detected	230	Not Detected
1,1-Dichloroethene	30	Not Detected	120	Not Detected
Acetone	120	Not Detected	290	Not Detected
2-Propanol	120	Not Detected	300	Not Detected
Carbon Disulfide	30	Not Detected	94	Not Detected
3-Chloropropene	120	Not Detected	380	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	85	110	300
1,1-Dichloroethane	30	Not Detected	120	Not Detected
2-Butanone (Methyl Ethyl Ketone)	120	Not Detected	360	Not Detected
cis-1,2-Dichloroethene	30	Not Detected	120	Not Detected
Tetrahydrofuran	30	Not Detected	89	Not Detected
Chloroform	30	Not Detected	150	Not Detected
1,1,1-Trichloroethane	30	Not Detected	160	Not Detected
Cyclohexane	30	Not Detected	100	Not Detected
Carbon Tetrachloride	30	Not Detected	190	Not Detected
2,2,4-Trimethylpentane	30	7300	140	34000
Benzene	30	16000	97	51000
1,2-Dichloroethane	30	Not Detected	120	Not Detected
Heptane	30	Not Detected	120	Not Detected
Trichloroethene	30	Not Detected	160	Not Detected
1,2-Dichloropropane	30	Not Detected	140	Not Detected
1,4-Dioxane	120	Not Detected	440	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	Not Detected	110	Not Detected
trans-1,3-Dichloropropene	30	Not Detected	140	Not Detected
1,1,2-Trichloroethane	30	Not Detected	160	Not Detected
Tetrachloroethene	30	Not Detected	200	Not Detected

Client Sample ID: VMP-13-10.5-080911

Lab ID#: 1108244A-11A

EPA METHOD TO-15 GC/MS

File Name:	14082129	Date of Collection: 8/9/11 5:01:00 PM		
Dil. Factor:	6.06	Date of Analysis: 8/21/11 03:49 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	120	Not Detected	500	Not Detected
Dibromochloromethane	30	Not Detected	260	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	5.6 J	150	27 J
1,1,2,2-Tetrachloroethane	30	Not Detected	210	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	160	Not Detected
1,2-Dichlorobenzene	30	Not Detected	180	Not Detected
1,2,4-Trichlorobenzene	120	Not Detected	900	Not Detected
Hexachlorobutadiene	120	Not Detected	1300	Not Detected
Butane	120	14000	290	33000
Isopentane	120	16000	360	48000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	95	70-130

Client Sample ID: VMP-13-5-080911

Lab ID#: 1108244A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o082210	Date of Collection:	8/9/11 4:00:00 PM	
Dil. Factor:	5.92	Date of Analysis:	8/22/11 04:00 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3.0	0.55 J	15	2.7 J
Freon 114	3.0	Not Detected	21	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	3.0	Not Detected	7.6	Not Detected
1,3-Butadiene	3.0	Not Detected	6.5	Not Detected
Bromomethane	3.0	Not Detected	11	Not Detected
Chloroethane	12	Not Detected	31	Not Detected
Freon 11	3.0	Not Detected	17	Not Detected
Ethanol	12	34 J	22	63 J
Freon 113	3.0	Not Detected	23	Not Detected
1,1-Dichloroethene	3.0	Not Detected	12	Not Detected
Acetone	12	26 J	28	61 J
2-Propanol	12	8.5 J	29	21 J
Carbon Disulfide	12	Not Detected	37	Not Detected
3-Chloropropene	12	Not Detected	37	Not Detected
Methylene Chloride	3.0	2.4 J	10	8.5 J
Methyl tert-butyl ether	3.0	Not Detected	11	Not Detected
trans-1,2-Dichloroethene	3.0	Not Detected	12	Not Detected
Hexane	3.0	1.8 J	10	6.5 J
1,1-Dichloroethane	3.0	Not Detected	12	Not Detected
2-Butanone (Methyl Ethyl Ketone)	12	4.6 J	35	13 J
cis-1,2-Dichloroethene	3.0	Not Detected	12	Not Detected
Tetrahydrofuran	3.0	Not Detected	8.7	Not Detected
Chloroform	3.0	Not Detected	14	Not Detected
1,1,1-Trichloroethane	3.0	Not Detected	16	Not Detected
Cyclohexane	3.0	2.0 J	10	6.8 J
Carbon Tetrachloride	3.0	Not Detected	19	Not Detected
2,2,4-Trimethylpentane	3.0	620 J	14	2900 J
Benzene	3.0	8.3 J	9.4	26 J
1,2-Dichloroethane	3.0	Not Detected	12	Not Detected
Heptane	3.0	Not Detected	12	Not Detected
Trichloroethene	3.0	Not Detected	16	Not Detected
1,2-Dichloropropane	3.0	Not Detected	14	Not Detected
1,4-Dioxane	12	Not Detected	43	Not Detected
Bromodichloromethane	3.0	Not Detected	20	Not Detected
cis-1,3-Dichloropropene	3.0	Not Detected	13	Not Detected
4-Methyl-2-pentanone	3.0	30 J	12	120 J
Toluene	3.0	6.0	11	23
trans-1,3-Dichloropropene	3.0	Not Detected	13	Not Detected
1,1,2-Trichloroethane	3.0	Not Detected	16	Not Detected
Tetrachloroethene	3.0	Not Detected	20	Not Detected

Client Sample ID: VMP-13-5-080911

Lab ID#: 1108244A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o082210	Date of Collection: 8/9/11 4:00:00 PM
Dil. Factor:	5.92	Date of Analysis: 8/22/11 04:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	12	Not Detected	48	Not Detected
Dibromochloromethane	3.0	Not Detected	25	Not Detected
1,2-Dibromoethane (EDB)	3.0	Not Detected	23	Not Detected
Chlorobenzene	3.0	0.99 J	14	4.6 J
Ethyl Benzene	3.0	0.57 J	13	2.5 J
m,p-Xylene	3.0	1.7 J	13	7.3 J
o-Xylene	3.0	0.42 J	13	1.8 J
Styrene	3.0	0.58 J	13	2.5 J
Bromoform	3.0	Not Detected	31	Not Detected
Cumene	3.0	8.0 J	14	39 J
1,1,2,2-Tetrachloroethane	3.0	Not Detected	20	Not Detected
Propylbenzene	3.0	~~0.19 J~~ U	14	~~0.94 J~~ U
4-Ethyltoluene	3.0	0.39 J	14	1.9 J
1,3,5-Trimethylbenzene	3.0	0.36 J	14	1.8 J
1,2,4-Trimethylbenzene	3.0	0.99 J	14	4.9 J
1,3-Dichlorobenzene	3.0	~~0.36 J~~ U	18	~~2.2 J~~ U
1,4-Dichlorobenzene	3.0	~~0.48 J~~ U	18	~~2.9 J~~ U
alpha-Chlorotoluene	3.0	~~0.43 J~~ U	15	~~2.2 J~~ U
1,2-Dichlorobenzene	3.0	Not Detected	18	Not Detected
1,2,4-Trichlorobenzene	12	~~0.75 J~~ U	88	~~5.5 J~~ U
Hexachlorobutadiene	12	Not Detected	130	Not Detected
Butane	12	700 J	28	1700 J
Isopentane	12	1000 J	35	3000 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	113	70-130

Client Sample ID: VMP-13-5-080911-DUP

Lab ID#: 1108244A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o082211	Date of Collection:	8/9/11 4:00:00 PM	
Dil. Factor:	5.28	Date of Analysis:	8/22/11 04:42 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.6	0.60 J	13	3.0 J
Freon 114	2.6	Not Detected	18	Not Detected
Chloromethane	10	Not Detected	22	Not Detected
Vinyl Chloride	2.6	Not Detected	6.7	Not Detected
1,3-Butadiene	2.6	Not Detected	5.8	Not Detected
Bromomethane	2.6	Not Detected	10	Not Detected
Chloroethane	10	Not Detected	28	Not Detected
Freon 11	2.6	Not Detected	15	Not Detected
Ethanol	10	74 J	20	140 J
Freon 113	2.6	Not Detected	20	Not Detected
1,1-Dichloroethene	2.6	Not Detected	10	Not Detected
Acetone	10	40 J	25	95 J
2-Propanol	10	20	26	48
Carbon Disulfide	10	~~1.0 J~~ U	33	~~3.2 J~~ U
3-Chloropropene	10	Not Detected	33	Not Detected
Methylene Chloride	2.6	1.1 J	9.2	4.0 J
Methyl tert-butyl ether	2.6	Not Detected	9.5	Not Detected
trans-1,2-Dichloroethene	2.6	Not Detected	10	Not Detected
Hexane	2.6	2.8	9.3	9.8
1,1-Dichloroethane	2.6	Not Detected	11	Not Detected
2-Butanone (Methyl Ethyl Ketone)	10	5.0 J	31	15 J
cis-1,2-Dichloroethene	2.6	Not Detected	10	Not Detected
Tetrahydrofuran	2.6	Not Detected	7.8	Not Detected
Chloroform	2.6	Not Detected	13	Not Detected
1,1,1-Trichloroethane	2.6	Not Detected	14	Not Detected
Cyclohexane	2.6	1.4 J	9.1	4.8 J
Carbon Tetrachloride	2.6	Not Detected	17	Not Detected
2,2,4-Trimethylpentane	2.6	390 J	12	1800 J
Benzene	2.6	5.6 J	8.4	18 J
1,2-Dichloroethane	2.6	Not Detected	11	Not Detected
Heptane	2.6	Not Detected	11	Not Detected
Trichloroethene	2.6	Not Detected	14	Not Detected
1,2-Dichloropropane	2.6	Not Detected	12	Not Detected
1,4-Dioxane	10	Not Detected	38	Not Detected
Bromodichloromethane	2.6	Not Detected	18	Not Detected
cis-1,3-Dichloropropene	2.6	Not Detected	12	Not Detected
4-Methyl-2-pentanone	2.6	20 J	11	81 J
Toluene	2.6	5.9	9.9	22
trans-1,3-Dichloropropene	2.6	Not Detected	12	Not Detected
1,1,2-Trichloroethane	2.6	Not Detected	14	Not Detected
Tetrachloroethene	2.6	Not Detected	18	Not Detected

Client Sample ID: VMP-13-5-080911-DUP

Lab ID#: 1108244A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o082211	Date of Collection:	8/9/11 4:00:00 PM	
Dil. Factor:	5.28	Date of Analysis:	8/22/11 04:42 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	10	0.57 J	43	2.4 J
Dibromochloromethane	2.6	Not Detected	22	Not Detected
1,2-Dibromoethane (EDB)	2.6	Not Detected	20	Not Detected
Chlorobenzene	2.6	0.96 J	12	4.4 J
Ethyl Benzene	2.6	0.48 J	11	2.1 J
m,p-Xylene	2.6	1.1 J	11	5.0 J
o-Xylene	2.6	0.37 J	11	1.6 J
Styrene	2.6	0.30 J	11	1.3 J
Bromoform	2.6	Not Detected	27	Not Detected
Cumene	2.6	5.3 J	13	26 J
1,1,2,2-Tetrachloroethane	2.6	Not Detected	18	Not Detected
Propylbenzene	2.6	Not Detected	13	Not Detected
4-Ethyltoluene	2.6	Not Detected	13	Not Detected
1,3,5-Trimethylbenzene	2.6	Not Detected	13	Not Detected
1,2,4-Trimethylbenzene	2.6	0.57 J	13	2.8 J
1,3-Dichlorobenzene	2.6	Not Detected	16	Not Detected
1,4-Dichlorobenzene	2.6	Not Detected	16	Not Detected
alpha-Chlorotoluene	2.6	Not Detected	14	Not Detected
1,2-Dichlorobenzene	2.6	Not Detected	16	Not Detected
1,2,4-Trichlorobenzene	10	Not Detected	78	Not Detected
Hexachlorobutadiene	10	Not Detected	110	Not Detected
Butane	10	490 J	25	1200 J
Isopentane	10	690 J	31	2000 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	115	70-130

Client Sample ID: VMP-8-23.5-081011

Lab ID#: 1108244A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

ETA METHOD TO-15 GC/MS FULL SCAN

File Name:	o082212	Date of Collection:	8/10/11 9:14:00 AM
Dil. Factor:	2.64	Date of Analysis:	8/22/11 05:35 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.3	0.52 J	22	2.2 J
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	~~0.56 J~~ U	6.1	~~2.6 J~~ U
Ethyl Benzene	1.3	0.54 J	5.7	2.3 J
m,p-Xylene	1.3	1.3 J	5.7	5.5 J
o-Xylene	1.3	0.37 J	5.7	1.6 J
Styrene	1.3	0.29 J	5.6	1.2 J
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	3.9	6.5	19
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.1	Not Detected
Propylbenzene	1.3	~~0.12 J~~ U	6.5	~~0.58 J~~ U
4-Ethyltoluene	1.3	~~0.18 J~~ U	6.5	~~0.91 J~~ U
1,3,5-Trimethylbenzene	1.3	~~0.17 J~~ U	6.5	~~0.85 J~~ U
1,2,4-Trimethylbenzene	1.3	0.50 J	6.5	2.4 J
1,3-Dichlorobenzene	1.3	~~0.16 J~~ U	7.9	~~0.99 J~~ U
1,4-Dichlorobenzene	1.3	~~0.22 J~~ U	7.9	~~1.3 J~~ U
alpha-Chlorotoluene	1.3	~~0.19 J~~ U	6.8	~~0.97 J~~ U
1,2-Dichlorobenzene	1.3	~~0.11 J~~ U	7.9	~~0.69 J~~ U
1,2,4-Trichlorobenzene	5.3	~~0.36 J~~ U	39	~~2.7 J~~ U
Hexachlorobutadiene	5.3	Not Detected	56	Not Detected
Butane	5.3	8.4	12	20
Isopentane	5.3	23	16	69

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	113	70-130

Client Sample ID: VMP-8-23.5-081011

Lab ID#: 1108244A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

EPA METHOD 816-15 GC/MS FULL SCAN				
File Name:	o082212	Date of Collection: 8/10/11 9:14:00 AM		
Dil. Factor:	2.64	Date of Analysis: 8/22/11 05:35 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.55 J	6.5	2.7 J
Freon 114	1.3	Not Detected	9.2	Not Detected
Chloromethane	5.3	Not Detected	11	Not Detected
Vinyl Chloride	1.3	Not Detected	3.4	Not Detected
1,3-Butadiene	1.3	Not Detected	2.9	Not Detected
Bromomethane	1.3	Not Detected	5.1	Not Detected
Chloroethane	5.3	Not Detected	14	Not Detected
Freon 11	1.3	0.26 J	7.4	1.4 J
Ethanol	5.3	27	9.9	52
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Acetone	5.3	18	12	43
2-Propanol	5.3	10	13	25
Carbon Disulfide	5.3	~~0.86 J~~ u	16	~~2.7 J~~ u
3-Chloropropene	5.3	Not Detected	16	Not Detected
Methylene Chloride	1.3	0.61 J	4.6	2.1 J
Methyl tert-butyl ether	1.3	Not Detected	4.8	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Hexane	1.3	9.4	4.6	33
1,1-Dichloroethane	1.3	Not Detected	5.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.3	4.3 J	16	12 J
cis-1,2-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.9	Not Detected
Chloroform	1.3	Not Detected	6.4	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Cyclohexane	1.3	3.4	4.5	12
Carbon Tetrachloride	1.3	Not Detected	8.3	Not Detected
2,2,4-Trimethylpentane	1.3	6.6	6.2	31
Benzene	1.3	56	4.2	180
1,2-Dichloroethane	1.3	Not Detected	5.3	Not Detected
Heptane	1.3	2.8	5.4	12
Trichloroethene	1.3	Not Detected	7.1	Not Detected
1,2-Dichloropropane	1.3	Not Detected	6.1	Not Detected
1,4-Dioxane	5.3	Not Detected	19	Not Detected
Bromodichloromethane	1.3	Not Detected	8.8	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	6.0	Not Detected
4-Methyl-2-pentanone	1.3	25	5.4	100
Toluene	1.3	4.0	5.0	15
trans-1,3-Dichloropropene	1.3	~~0.49 J~~ u	6.0	~~0.87 J~~ u
1,1,2-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Tetrachloroethene	1.3	0.33 J	9.0	2.2 J

Client Sample ID: Lab Blank

Lab ID#: 1108244A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o081605a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 04:46 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	0.065 J	2.5	0.32 J
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	0.26 J	1.9	0.99 J
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	0.077 J	2.8	0.43 J
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	0.48 J	6.2	1.5 J
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	0.22 J	1.7	0.76 J
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	0.25 J	2.0	0.99 J
Hexane	0.50	0.073 J	1.8	0.26 J
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	0.090 J	2.4	0.44 J
1,1,1-Trichloroethane	0.50	0.065 J	2.7	0.35 J
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	0.071 J	3.1	0.45 J
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	0.11 J	1.6	0.35 J
1,2-Dichloroethane	0.50	0.15 J	2.0	0.62 J
Heptane	0.50	0.068 J	2.0	0.28 J
Trichloroethene	0.50	0.16 J	2.7	0.85 J
1,2-Dichloropropane	0.50	0.089 J	2.3	0.41 J
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	0.078 J	3.4	0.52 J
cis-1,3-Dichloropropene	0.50	0.14 J	2.3	0.61 J
4-Methyl-2-pentanone	0.50	0.11 J	2.0	0.45 J
Toluene	0.50	0.10 J	1.9	0.39 J
trans-1,3-Dichloropropene	0.50	0.19 J	2.3	0.86 J
1,1,2-Trichloroethane	0.50	0.099 J	2.7	0.54 J
Tetrachloroethene	0.50	0.14 J	3.4	0.94 J

Client Sample ID: Lab Blank

Lab ID#: 1108244A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o081605a	Date of Collection:	NA	
Dil. Factor:	1.00	Date of Analysis:	8/16/11 04:46 PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2.0	0.10 J	8.2	0.41 J
Dibromochloromethane	0.50	0.094 J	4.2	0.80 J
1,2-Dibromoethane (EDB)	0.50	0.17 J	3.8	1.3 J
Chlorobenzene	0.50	0.32 J	2.3	1.4 J
Ethyl Benzene	0.50	0.12 J	2.2	0.50 J
m,p-Xylene	0.50	0.14 J	2.2	0.63 J
o-Xylene	0.50	0.16 J	2.2	0.67 J
Styrene	0.50	0.16 J	2.1	0.68 J
Bromoform	0.50	0.14 J	5.2	1.4 J
Cumene	0.50	0.23 J	2.4	1.1 J
1,1,2,2-Tetrachloroethane	0.50	0.21 J	3.4	1.5 J
Propylbenzene	0.50	0.23 J	2.4	1.1 J
4-Ethyltoluene	0.50	0.25 J	2.4	1.2 J
1,3,5-Trimethylbenzene	0.50	0.28 J	2.4	1.4 J
1,2,4-Trimethylbenzene	0.50	0.30 J	2.4	1.5 J
1,3-Dichlorobenzene	0.50	0.43 J	3.0	2.6 J
1,4-Dichlorobenzene	0.50	0.45 J	3.0	2.7 J
alpha-Chlorotoluene	0.50	0.25 J	2.6	1.3 J
1,2-Dichlorobenzene	0.50	0.46 J	3.0	2.8 J
1,2,4-Trichlorobenzene	2.0	1.5 J	15	11 J
Hexachlorobutadiene	2.0	0.90 J	21	9.6 J
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	111	70-130

Client Sample ID: Lab Blank

Lab ID#: 1108244A-15B

EPA METHOD TO-15 GC/MS

File Name:	14082108a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/20/11 10:53 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	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1108244A-15B

EPA METHOD TO-15 GC/MS

File Name:	14082108a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/20/11 10:53 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

Client Sample ID: Lab Blank

Lab ID#: 1108244A-15C

EPA METHOD TO-15 GC/MS

File Name:	14082206a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/11 06:46 AM

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

Client Sample ID: Lab Blank

Lab ID#: 1108244A-15C

EPA METHOD TO-15 GC/MS

File Name:	14082206a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/11 06:46 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	20	Not Detected	82	Not Detected
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	6.0 J	150	45 J
Hexachlorobutadiene	20	Not Detected	210	Not Detected
Butane	20	Not Detected	48	Not Detected
Isopentane	20	Not Detected	59	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	95	70-130

Client Sample ID: Lab Blank

Lab ID#: 1108244A-15D

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o082207a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/11 11:01 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	0.26 J	6.2	0.82 J
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	0.078 J	2.0	0.32 J
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	0.062 J	2.3	0.28 J
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	0.10 J	2.3	0.47 J
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	0.051 J	3.4	0.35 J

Client Sample ID: Lab Blank

Lab ID#: 1108244A-15D

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o082207a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/11 11:01 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	0.080 J	3.8	0.61 J
Chlorobenzene	0.50	0.16 J	2.3	0.74 J
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	0.044 J	2.1	0.19 J
Bromoform	0.50	0.039 J	5.2	0.40 J
Cumene	0.50	0.043 J	2.4	0.21 J
1,1,2,2-Tetrachloroethane	0.50	0.050 J	3.4	0.34 J
Propylbenzene	0.50	0.071 J	2.4	0.35 J
4-Ethyltoluene	0.50	0.071 J	2.4	0.35 J
1,3,5-Trimethylbenzene	0.50	0.059 J	2.4	0.29 J
1,2,4-Trimethylbenzene	0.50	0.090 J	2.4	0.44 J
1,3-Dichlorobenzene	0.50	0.16 J	3.0	0.94 J
1,4-Dichlorobenzene	0.50	0.18 J	3.0	1.1 J
alpha-Chlorotoluene	0.50	0.090 J	2.6	0.46 J
1,2-Dichlorobenzene	0.50	0.14 J	3.0	0.85 J
1,2,4-Trichlorobenzene	2.0	0.49 J	15	3.6 J
Hexachlorobutadiene	2.0	0.15 J	21	1.6 J
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	115	70-130
4-Bromofluorobenzene	114	70-130

Client Sample ID: CCV

Lab ID#: 1108244A-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o081602	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 02:38 PM

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

Client Sample ID: CCV

Lab ID#: 1108244A-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o081602	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 02:38 PM

Compound	%Recovery
2-Hexanone	98
Dibromochloromethane	97
1,2-Dibromoethane (EDB)	92
Chlorobenzene	86
Ethyl Benzene	97
m,p-Xylene	97
o-Xylene	97
Styrene	100
Bromoform	99
Cumene	94
1,1,2,2-Tetrachloroethane	95
Propylbenzene	98
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	100
1,3-Dichlorobenzene	92
1,4-Dichlorobenzene	95
alpha-Chlorotoluene	109
1,2-Dichlorobenzene	92
1,2,4-Trichlorobenzene	91
Hexachlorobutadiene	90
Butane	92
Isopentane	102

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	110	70-130

Client Sample ID: CCV

Lab ID#: 1108244A-16B

EPA METHOD TO-15 GC/MS

File Name:	14082102	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/20/11 08:23 PM

Compound	%Recovery
Freon 12	103
Freon 114	100
Chloromethane	117
Vinyl Chloride	114
1,3-Butadiene	118
Bromomethane	102
Chloroethane	106
Freon 11	98
Ethanol	98
Freon 113	101
1,1-Dichloroethene	116
Acetone	106
2-Propanol	104
Carbon Disulfide	101
3-Chloropropene	105
Methylene Chloride	112
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	106
Hexane	109
1,1-Dichloroethane	112
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	109
Tetrahydrofuran	112
Chloroform	108
1,1,1-Trichloroethane	103
Cyclohexane	108
Carbon Tetrachloride	101
2,2,4-Trimethylpentane	108
Benzene	104
1,2-Dichloroethane	107
Heptane	110
Trichloroethene	103
1,2-Dichloropropane	107
1,4-Dioxane	101
Bromodichloromethane	104
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	103
Toluene	104
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	106
Tetrachloroethene	96

Client Sample ID: CCV

Lab ID#: 1108244A-16B

EPA METHOD TO-15 GC/MS

File Name:	14082102	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/20/11 08:23 PM

Compound	%Recovery
2-Hexanone	106
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	104
Chlorobenzene	103
Ethyl Benzene	104
m,p-Xylene	108
o-Xylene	106
Styrene	114
Bromoform	103
Cumene	111
1,1,2,2-Tetrachloroethane	102
Propylbenzene	114
4-Ethyltoluene	114
1,3,5-Trimethylbenzene	114
1,2,4-Trimethylbenzene	110
1,3-Dichlorobenzene	107
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	127
1,2-Dichlorobenzene	112
1,2,4-Trichlorobenzene	120
Hexachlorobutadiene	121
Butane	111
Isopentane	106

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	107	70-130

Client Sample ID: CCV

Lab ID#: 1108244A-16C

EPA METHOD TO-15 GC/MS

File Name:	14082202	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/11 05:23 AM

Compound	%Recovery
Freon 12	98
Freon 114	95
Chloromethane	104
Vinyl Chloride	113
1,3-Butadiene	112
Bromomethane	100
Chloroethane	104
Freon 11	95
Ethanol	105
Freon 113	95
1,1-Dichloroethene	106
Acetone	100
2-Propanol	100
Carbon Disulfide	97
3-Chloropropene	96
Methylene Chloride	103
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	96
Hexane	100
1,1-Dichloroethane	101
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	102
Tetrahydrofuran	101
Chloroform	99
1,1,1-Trichloroethane	96
Cyclohexane	100
Carbon Tetrachloride	97
2,2,4-Trimethylpentane	100
Benzene	100
1,2-Dichloroethane	96
Heptane	100
Trichloroethene	101
1,2-Dichloropropane	98
1,4-Dioxane	101
Bromodichloromethane	99
cis-1,3-Dichloropropene	97
4-Methyl-2-pentanone	100
Toluene	99
trans-1,3-Dichloropropene	104
1,1,2-Trichloroethane	101
Tetrachloroethene	94

Client Sample ID: CCV

Lab ID#: 1108244A-16C

EPA METHOD TO-15 GC/MS

File Name:	14082202	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/11 05:23 AM

Compound	%Recovery
2-Hexanone	100
Dibromochloromethane	98
1,2-Dibromoethane (EDB)	100
Chlorobenzene	98
Ethyl Benzene	100
m,p-Xylene	102
o-Xylene	102
Styrene	108
Bromoform	99
Cumene	106
1,1,2,2-Tetrachloroethane	95
Propylbenzene	108
4-Ethyltoluene	109
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	107
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	126
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	105
Hexachlorobutadiene	111
Butane	102
Isopentane	95

Container Type: NA - Not Applicable

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

Client Sample ID: CCV

Lab ID#: 1108244A-16D

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o082203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/11 08:04 AM

Compound	%Recovery
Freon 12	115
Freon 114	111
Chloromethane	121
Vinyl Chloride	113
1,3-Butadiene	113
Bromomethane	105
Chloroethane	103
Freon 11	112
Ethanol	108
Freon 113	101
1,1-Dichloroethene	102
Acetone	106
2-Propanol	110
Carbon Disulfide	105
3-Chloropropene	94
Methylene Chloride	103
Methyl tert-butyl ether	106
trans-1,2-Dichloroethene	98
Hexane	107
1,1-Dichloroethane	107
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	102
Tetrahydrofuran	117
Chloroform	108
1,1,1-Trichloroethane	106
Cyclohexane	96
Carbon Tetrachloride	109
2,2,4-Trimethylpentane	102
Benzene	98
1,2-Dichloroethane	115
Heptane	106
Trichloroethene	94
1,2-Dichloropropane	98
1,4-Dioxane	96
Bromodichloromethane	109
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	113
Toluene	96
trans-1,3-Dichloropropene	99
1,1,2-Trichloroethane	88
Tetrachloroethene	87

Client Sample ID: CCV

Lab ID#: 1108244A-16D

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o082203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/11 08:04 AM

Compound	%Recovery
2-Hexanone	95
Dibromochloromethane	97
1,2-Dibromoethane (EDB)	90
Chlorobenzene	85
Ethyl Benzene	96
m,p-Xylene	97
o-Xylene	100
Styrene	102
Bromoform	103
Cumene	98
1,1,2,2-Tetrachloroethane	98
Propylbenzene	102
4-Ethyltoluene	105
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	103
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	98
1,2,4-Trichlorobenzene	91
Hexachlorobutadiene	92
Butane	104
Isopentane	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	119	70-130
4-Bromofluorobenzene	117	70-130

Client Sample ID: LCS

Lab ID#: 1108244A-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o081603	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 03:24 PM

Compound	%Recovery
Freon 12	110
Freon 114	110
Chloromethane	121
Vinyl Chloride	117
1,3-Butadiene	117
Bromomethane	115
Chloroethane	111
Freon 11	108
Ethanol	110
Freon 113	103
1,1-Dichloroethene	117
Acetone	112
2-Propanol	113
Carbon Disulfide	130
3-Chloropropene	113
Methylene Chloride	105
Methyl tert-butyl ether	110
trans-1,2-Dichloroethene	121
Hexane	105
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	105
Tetrahydrofuran	110
Chloroform	104
1,1,1-Trichloroethane	104
Cyclohexane	102
Carbon Tetrachloride	112
2,2,4-Trimethylpentane	100
Benzene	102
1,2-Dichloroethane	108
Heptane	104
Trichloroethene	97
1,2-Dichloropropane	100
1,4-Dioxane	98
Bromodichloromethane	104
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	106
Toluene	97
trans-1,3-Dichloropropene	101
1,1,2-Trichloroethane	90
Tetrachloroethene	91

Client Sample ID: LCS

Lab ID#: 1108244A-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o081603	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 03:24 PM

Compound	%Recovery
2-Hexanone	98
Dibromochloromethane	97
1,2-Dibromoethane (EDB)	93
Chlorobenzene	88
Ethyl Benzene	98
m,p-Xylene	100
o-Xylene	99
Styrene	102
Bromoform	99
Cumene	96
1,1,2,2-Tetrachloroethane	97
Propylbenzene	101
4-Ethyltoluene	98
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	99
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	95
alpha-Chlorotoluene	108
1,2-Dichlorobenzene	95
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	88
Butane	107
Isopentane	112

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	111	70-130

Client Sample ID: LCSD

Lab ID#: 1108244A-17AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o081604	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 04:02 PM

Compound	%Recovery
Freon 12	104
Freon 114	106
Chloromethane	114
Vinyl Chloride	112
1,3-Butadiene	113
Bromomethane	110
Chloroethane	105
Freon 11	102
Ethanol	109
Freon 113	103
1,1-Dichloroethene	112
Acetone	106
2-Propanol	110
Carbon Disulfide	126
3-Chloropropene	121
Methylene Chloride	103
Methyl tert-butyl ether	107
trans-1,2-Dichloroethene	116
Hexane	104
1,1-Dichloroethane	103
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	103
Tetrahydrofuran	108
Chloroform	100
1,1,1-Trichloroethane	100
Cyclohexane	100
Carbon Tetrachloride	108
2,2,4-Trimethylpentane	97
Benzene	101
1,2-Dichloroethane	103
Heptane	103
Trichloroethene	96
1,2-Dichloropropane	99
1,4-Dioxane	97
Bromodichloromethane	102
cis-1,3-Dichloropropene	102
4-Methyl-2-pentanone	102
Toluene	94
trans-1,3-Dichloropropene	100
1,1,2-Trichloroethane	91
Tetrachloroethene	89

Client Sample ID: LCSD

Lab ID#: 1108244A-17AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o081604	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/16/11 04:02 PM

Compound	%Recovery
2-Hexanone	98
Dibromochloromethane	95
1,2-Dibromoethane (EDB)	92
Chlorobenzene	87
Ethyl Benzene	96
m,p-Xylene	98
o-Xylene	98
Styrene	100
Bromoform	97
Cumene	95
1,1,2,2-Tetrachloroethane	96
Propylbenzene	100
4-Ethyltoluene	97
1,3,5-Trimethylbenzene	97
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	94
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	107
1,2-Dichlorobenzene	94
1,2,4-Trichlorobenzene	92
Hexachlorobutadiene	88
Butane	102
Isopentane	108

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	110	70-130

Client Sample ID: LCS

Lab ID#: 1108244A-17B

EPA METHOD TO-15 GC/MS

File Name:	14082105	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/20/11 09:36 PM

Compound	%Recovery
Freon 12	112
Freon 114	110
Chloromethane	124
Vinyl Chloride	127
1,3-Butadiene	125
Bromomethane	110
Chloroethane	112
Freon 11	105
Ethanol	107
Freon 113	114
1,1-Dichloroethene	127
Acetone	109
2-Propanol	105
Carbon Disulfide	131
3-Chloropropene	111
Methylene Chloride	117
Methyl tert-butyl ether	106
trans-1,2-Dichloroethene	119
Hexane	108
1,1-Dichloroethane	115
2-Butanone (Methyl Ethyl Ketone)	112
cis-1,2-Dichloroethene	116
Tetrahydrofuran	108
Chloroform	112
1,1,1-Trichloroethane	108
Cyclohexane	109
Carbon Tetrachloride	103
2,2,4-Trimethylpentane	107
Benzene	116
1,2-Dichloroethane	110
Heptane	114
Trichloroethene	109
1,2-Dichloropropane	113
1,4-Dioxane	105
Bromodichloromethane	107
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	100
Toluene	110
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	107
Tetrachloroethene	98

Client Sample ID: LCS

Lab ID#: 1108244A-17B

EPA METHOD TO-15 GC/MS

File Name:	14082105	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/20/11 09:36 PM

Compound	%Recovery
2-Hexanone	99
Dibromochloromethane	97
1,2-Dibromoethane (EDB)	109
Chlorobenzene	109
Ethyl Benzene	107
m,p-Xylene	106
o-Xylene	106
Styrene	108
Bromoform	96
Cumene	115
1,1,2,2-Tetrachloroethane	116
Propylbenzene	118
4-Ethyltoluene	110
1,3,5-Trimethylbenzene	114
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	111
1,4-Dichlorobenzene	110
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	114
1,2,4-Trichlorobenzene	128
Hexachlorobutadiene	134 Q
Butane	115
Isopentane	111

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	101	70-130

Client Sample ID: LCSD

Lab ID#: 1108244A-17BB

EPA METHOD TO-15 GC/MS

File Name:	14082106	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/20/11 10:01 PM

Compound	%Recovery
Freon 12	109
Freon 114	109
Chloromethane	126
Vinyl Chloride	123
1,3-Butadiene	128
Bromomethane	106
Chloroethane	110
Freon 11	105
Ethanol	109
Freon 113	108
1,1-Dichloroethene	126
Acetone	113
2-Propanol	104
Carbon Disulfide	130
3-Chloropropene	116
Methylene Chloride	114
Methyl tert-butyl ether	111
trans-1,2-Dichloroethene	119
Hexane	106
1,1-Dichloroethane	115
2-Butanone (Methyl Ethyl Ketone)	109
cis-1,2-Dichloroethene	112
Tetrahydrofuran	109
Chloroform	113
1,1,1-Trichloroethane	107
Cyclohexane	112
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	108
Benzene	112
1,2-Dichloroethane	110
Heptane	110
Trichloroethene	104
1,2-Dichloropropane	111
1,4-Dioxane	101
Bromodichloromethane	108
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	98
Toluene	109
trans-1,3-Dichloropropene	104
1,1,2-Trichloroethane	109
Tetrachloroethene	98

Client Sample ID: LCSD

Lab ID#: 1108244A-17BB

EPA METHOD TO-15 GC/MS

File Name:	14082106	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/20/11 10:01 PM

Compound	%Recovery
2-Hexanone	105
Dibromochloromethane	99
1,2-Dibromoethane (EDB)	105
Chlorobenzene	108
Ethyl Benzene	108
m,p-Xylene	110
o-Xylene	105
Styrene	111
Bromoform	96
Cumene	111
1,1,2,2-Tetrachloroethane	114
Propylbenzene	117
4-Ethyltoluene	111
1,3,5-Trimethylbenzene	114
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	112
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	107
1,2-Dichlorobenzene	116
1,2,4-Trichlorobenzene	133 Q
Hexachlorobutadiene	130
Butane	112
Isopentane	107

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	103	70-130

Client Sample ID: LCS

Lab ID#: 1108244A-17C

EPA METHOD TO-15 GC/MS

File Name:	14082204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/11 06:00 AM

Compound	%Recovery
Freon 12	106
Freon 114	100
Chloromethane	112
Vinyl Chloride	118
1,3-Butadiene	118
Bromomethane	106
Chloroethane	100
Freon 11	99
Ethanol	101
Freon 113	105
1,1-Dichloroethene	118
Acetone	101
2-Propanol	100
Carbon Disulfide	118
3-Chloropropene	110
Methylene Chloride	105
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	109
Hexane	98
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	102
Tetrahydrofuran	100
Chloroform	105
1,1,1-Trichloroethane	101
Cyclohexane	103
Carbon Tetrachloride	97
2,2,4-Trimethylpentane	99
Benzene	100
1,2-Dichloroethane	96
Heptane	98
Trichloroethene	94
1,2-Dichloropropane	95
1,4-Dioxane	94
Bromodichloromethane	95
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	90
Toluene	96
trans-1,3-Dichloropropene	99
1,1,2-Trichloroethane	102
Tetrachloroethene	94

Client Sample ID: LCS

Lab ID#: 1108244A-17C

EPA METHOD TO-15 GC/MS

File Name:	14082204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/11 06:00 AM

Compound	%Recovery
2-Hexanone	95
Dibromochloromethane	93
1,2-Dibromoethane (EDB)	102
Chlorobenzene	102
Ethyl Benzene	100
m,p-Xylene	104
o-Xylene	100
Styrene	104
Bromoform	88
Cumene	105
1,1,2,2-Tetrachloroethane	103
Propylbenzene	108
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	100
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	101
1,2-Dichlorobenzene	111
1,2,4-Trichlorobenzene	135 Q
Hexachlorobutadiene	130
Butane	108
Isopentane	98

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

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

Client Sample ID: LCSD

Lab ID#: 1108244A-17CC

EPA METHOD TO-15 GC/MS

File Name:	14082205	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/11 06:22 AM

Compound	%Recovery
Freon 12	101
Freon 114	98
Chloromethane	110
Vinyl Chloride	112
1,3-Butadiene	112
Bromomethane	98
Chloroethane	102
Freon 11	98
Ethanol	90
Freon 113	97
1,1-Dichloroethene	116
Acetone	101
2-Propanol	96
Carbon Disulfide	116
3-Chloropropene	109
Methylene Chloride	103
Methyl tert-butyl ether	97
trans-1,2-Dichloroethene	108
Hexane	96
1,1-Dichloroethane	102
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	99
Tetrahydrofuran	99
Chloroform	102
1,1,1-Trichloroethane	96
Cyclohexane	99
Carbon Tetrachloride	96
2,2,4-Trimethylpentane	97
Benzene	102
1,2-Dichloroethane	100
Heptane	101
Trichloroethene	97
1,2-Dichloropropane	102
1,4-Dioxane	106
Bromodichloromethane	99
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	94
Toluene	98
trans-1,3-Dichloropropene	100
1,1,2-Trichloroethane	102
Tetrachloroethene	93

Client Sample ID: LCSD

Lab ID#: 1108244A-17CC

EPA METHOD TO-15 GC/MS

File Name:	14082205	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/11 06:22 AM

Compound	%Recovery
2-Hexanone	94
Dibromochloromethane	94
1,2-Dibromoethane (EDB)	100
Chlorobenzene	100
Ethyl Benzene	100
m,p-Xylene	105
o-Xylene	103
Styrene	101
Bromoform	87
Cumene	105
1,1,2,2-Tetrachloroethane	102
Propylbenzene	107
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	100
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	138 Q
Hexachlorobutadiene	141 Q
Butane	98
Isopentane	99

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	102	70-130

Client Sample ID: LCS

Lab ID#: 1108244A-17D

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o082204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/11 08:53 AM

Compound	%Recovery
Freon 12	120
Freon 114	113
Chloromethane	124
Vinyl Chloride	119
1,3-Butadiene	120
Bromomethane	112
Chloroethane	108
Freon 11	111
Ethanol	112
Freon 113	102
1,1-Dichloroethene	112
Acetone	110
2-Propanol	114
Carbon Disulfide	129
3-Chloropropene	109
Methylene Chloride	104
Methyl tert-butyl ether	109
trans-1,2-Dichloroethene	114
Hexane	104
1,1-Dichloroethane	107
2-Butanone (Methyl Ethyl Ketone)	101
cis-1,2-Dichloroethene	102
Tetrahydrofuran	112
Chloroform	106
1,1,1-Trichloroethane	106
Cyclohexane	96
Carbon Tetrachloride	112
2,2,4-Trimethylpentane	97
Benzene	100
1,2-Dichloroethane	113
Heptane	104
Trichloroethene	94
1,2-Dichloropropane	100
1,4-Dioxane	97
Bromodichloromethane	108
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	108
Toluene	94
trans-1,3-Dichloropropene	101
1,1,2-Trichloroethane	89
Tetrachloroethene	88

Client Sample ID: LCS

Lab ID#: 1108244A-17D

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o082204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/11 08:53 AM

Compound	%Recovery
2-Hexanone	96
Dibromochloromethane	96
1,2-Dibromoethane (EDB)	91
Chlorobenzene	87
Ethyl Benzene	97
m,p-Xylene	100
o-Xylene	100
Styrene	103
Bromoform	101
Cumene	100
1,1,2,2-Tetrachloroethane	100
Propylbenzene	105
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	102
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	111
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	100
Butane	109
Isopentane	111

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	117	70-130

Client Sample ID: LCSD

Lab ID#: 1108244A-17DD

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o082205	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/11 09:32 AM

Compound	%Recovery
Freon 12	112
Freon 114	110
Chloromethane	123
Vinyl Chloride	119
1,3-Butadiene	117
Bromomethane	109
Chloroethane	105
Freon 11	108
Ethanol	103
Freon 113	103
1,1-Dichloroethene	113
Acetone	111
2-Propanol	112
Carbon Disulfide	127
3-Chloropropene	108
Methylene Chloride	104
Methyl tert-butyl ether	109
trans-1,2-Dichloroethene	112
Hexane	104
1,1-Dichloroethane	105
2-Butanone (Methyl Ethyl Ketone)	101
cis-1,2-Dichloroethene	103
Tetrahydrofuran	110
Chloroform	104
1,1,1-Trichloroethane	101
Cyclohexane	93
Carbon Tetrachloride	109
2,2,4-Trimethylpentane	94
Benzene	99
1,2-Dichloroethane	114
Heptane	102
Trichloroethene	93
1,2-Dichloropropane	98
1,4-Dioxane	96
Bromodichloromethane	106
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	108
Toluene	93
trans-1,3-Dichloropropene	101
1,1,2-Trichloroethane	89
Tetrachloroethene	88

Client Sample ID: LCSD

Lab ID#: 1108244A-17DD

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	o082205	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/22/11 09:32 AM

Compound	%Recovery
2-Hexanone	96
Dibromochloromethane	97
1,2-Dibromoethane (EDB)	92
Chlorobenzene	87
Ethyl Benzene	98
m,p-Xylene	100
o-Xylene	101
Styrene	103
Bromoform	101
Cumene	99
1,1,2,2-Tetrachloroethane	100
Propylbenzene	104
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	112
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	105
Hexachlorobutadiene	101
Butane	106
Isopentane	109

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	117	70-130

1108244

URS

Shell Oil Products Chain of Custody Record

Air Toxics LTD. Project Name: Roxana Soil Vapor Project # 21662693.00009		Please Check Appropriate Box: ☒ ENV SERVICES ☐ MOTIVA RETAIL ☐ MOTIVA SOLOCH ☐ CONSULTANT ☐ SHELL PIPELINE ☐ OTHER		Print Bill To Contact Name: Thomas Adams PO #		INCIDENT # (ENV SERVICES) 0 7 2 1 8 8 4 0 DATE: 08/10/11 PAGE 1 of 2	
Lab Vendor # URS CORPORATION 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110		SFR ADDRESS: Street and City 800 SOUTH CENTRAL AVE - ROXANA ILL		SFR ADDRESS: State and City ILL		SFR ADDRESS: Zip 62450	
Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95600-4719 TEL: 916-429-0100 FAX: 916-429-0452		SFR ADDRESS: State and City ILL		SFR ADDRESS: Zip 62450		SFR ADDRESS: Other Elizabeth Kunkel, URS, St. Louis 514-743-4179	
TURNAROUND TIME (CALENDAR DAYS): ☒ STANDARD (4 DAY) ☐ 5 DAYS ☐ 7 DAYS ☐ 10 DAYS		LIST AGENCY: ☐ LEVEL 1 ☐ LEVEL 2 ☒ LEVEL 4 ☐ OTHER (SPECIFY)		RESULTS NEEDED ON WEDNESDAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS		REQUESTED ANALYSIS Turn Around Time: ☒ Normal ☐ Crush ☐ Specify	
DELIVERABLES: ☐ LA - RWCC REPORT FORMAT ☐ LA - RWCC REPORT FORMAT		SHELL CONTRACT RATE APPLIES ☐ STATE REIMBURSEMENT RATE APPLIES ☐ EEO NOT NEEDED ☒ ACCEPT VERIFICATION REQUESTED		Modified T-10 + Butane & Isopentane ASTM D-1946 + Helium ASTM D-1946		Lab Use Only Pressurized by Date Pressure/Force Gas N ₂	
Field Sample Identification DATE TIME SAMPLE NUMBER		DATE TIME SAMPLE NUMBER		DATE TIME SAMPLE NUMBER		DATE TIME SAMPLE NUMBER	
08/08/11 11:12 - 11:40 3871 08/08/11 16:02 - 16:30 3461 08/08/11 16:10 - 16:44 1788 08/08/11 15:04 - 15:44 2301 08/08/11 13:04 - 13:44 9527 08/08/11 17:23 - 18:03 3307 08/08/11 06:10 - 06:33 3225 08/08/11 10:23 - 10:45 3048 08/08/11 09:10 - 09:33 3780 08/08/11 17:23 - 17:54 3464		Initial Final Receipts Final (gal) -30 -7.5 -27.5 -9.5 -30 -8 -30 -9 -30 -8.5 -30 -7.5 -29 -11 -29 7 -27 -5 -28 -9.5		ADDITIONAL NOTES: - 14 day hold time - Report results between MDL and RL - Level IV ECVP		Date: 8/10/11 Time: 1300 Date: 8.11.11 Time: 0900	
Signature for (Signature) Signature for (Signature)		Signature for (Signature) Signature for (Signature)		Signature for (Signature) Signature for (Signature)		Signature for (Signature) Signature for (Signature)	

1108244
CUSTOMER'S INITIALS
DN NUC SMP



Shell Oil Products Chain Of Custody Record

URS

[illegible]

Teletype

CUSTOMER DEAL INTACT?
YES NO. TEMP. 24

8/24/2011

Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562593.00009
Workorder #: 1108244B

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 8/11/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

*Reviewed on
9/8/2011*

WORK ORDER #: 1108244B

Work Order Summary

CLIENT: Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-429-0100

P.O. # 21562593.00009

FAX:

PROJECT # 21562593.00009 Roxana Soil Vapor

DATE RECEIVED: 08/11/2011

CONTACT: Kelly Buettner

DATE COMPLETED: 08/24/2011

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-14-20-080811	Modified ASTM D-1946	8.0 "Hg	15 psi
02A	VMP-15-5-080811	Modified ASTM D-1946	3.5 "Hg	15 psi
03A	VMP-15-21.5-080811	Modified ASTM D-1946	8.5 "Hg	15 psi
04A	VMP-19-5-080911	Modified ASTM D-1946	9.5 "Hg	15 psi
05A	VMP-19-5-080911-DUP	Modified ASTM D-1946	8.5 "Hg	15 psi
06A	VMP-15-25.5-080811	Modified ASTM D-1946	8.5 "Hg	15 psi
07A(cancelled)	VMP-25-5-080911-DUP	Modified ASTM D-1946	0.0 "Hg	15 psi
08A	VMP-25-21-080911	Modified ASTM D-1946	7.0 "Hg	15 psi
09A	VMP-25-5-080911	Modified ASTM D-1946	4.0 "Hg	15 psi
10A	VMP-13-21.5-080911	Modified ASTM D-1946	10.0 "Hg	15 psi
11A	VMP-13-10.5-080911	Modified ASTM D-1946	10.0 "Hg	15 psi
12A	VMP-13-5-080911	Modified ASTM D-1946	9.5 "Hg	15 psi
13A	VMP-13-5-080911-DUP	Modified ASTM D-1946	7.0 "Hg	15 psi
14A	VMP-8-23.5-081011	Modified ASTM D-1946	7.0 "Hg	15 psi
15A	Lab Blank	Modified ASTM D-1946	NA	NA
15B	Lab Blank	Modified ASTM D-1946	NA	NA
16A	LCS	Modified ASTM D-1946	NA	NA

Continued on next page

WORK ORDER #: 1108244B

Work Order Summary

CLIENT: Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-429-0100

FAX:

DATE RECEIVED: 08/11/2011

DATE COMPLETED: 08/24/2011

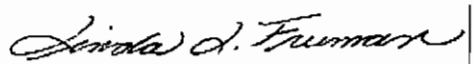
P.O. # 21562593.00009

PROJECT # 21562593.00009 Roxana Soil Vapor

CONTACT: Kelly Buettner

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
16AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY:



Laboratory Director

DATE: 08/24/11

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,

NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1108244B

Fourteen 1 Liter Summa Canister samples were received on August 11, 2011. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Since Nitrogen is used to pressurize samples, the reported Nitrogen values are calculated by adding all the sample components and subtracting from 100%.

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

<i>Requirement</i>	<i>ASTM D-1946</i>	<i>ATL Modifications</i>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections $> 5 \times$ the RL.

Receiving Notes

There was a significant difference (greater than 5.0" Hg) between the measured canister receipt vacuum and that which was reported on the Chain of Custody (COC) OR the canister tag for sample VMP-25-5-080911-DUP. A leak test indicated that the valve was functioning properly. Sample VMP-25-5-080911-DUP was cancelled on 8/19/11 per client's request.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

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 detection limit.

M - Reported value may be biased due to apparent matrix interferences.

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

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-14-20-080811

Lab ID#: 1108244B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.8
Nitrogen	0.28	58
Methane	0.00028	21
Carbon Dioxide	0.028	16
Ethane	0.0028	0.0088
Helium	0.14	1.2

Client Sample ID: VMP-15-5-080811

Lab ID#: 1108244B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	7.6
Nitrogen	0.23	78
Methane	0.00023	0.00011 J
Carbon Dioxide	0.023	14
Helium	0.11	0.013 J

Client Sample ID: VMP-15-21.5-080811

Lab ID#: 1108244B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.3
Nitrogen	0.28	64
Methane	0.00028	16
Carbon Dioxide	0.028	19
Ethane	0.0028	0.013
Helium	0.14	0.016 J

Client Sample ID: VMP-19-5-080911

Lab ID#: 1108244B-04A

Summary of Detected Compounds

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-19-5-080911

Lab ID#: 1108244B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	11
Nitrogen	0.30	80
Carbon Dioxide	0.030	9.1
Helium	0.15	0.012 J

Client Sample ID: VMP-19-5-080911-DUP

Lab ID#: 1108244B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	11
Nitrogen	0.28	80
Carbon Dioxide	0.028	8.7
Helium	0.14	0.010 J

Client Sample ID: VMP-15-25.5-080811

Lab ID#: 1108244B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	5.9
Nitrogen	0.28	75
Methane	0.00028	0.0036
Carbon Dioxide	0.028	15
Helium	0.14	3.6

Client Sample ID: VMP-25-21-080911

Lab ID#: 1108244B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	7.3
Nitrogen	0.26	61
Methane	0.00026	22

Summary of Detected Compounds

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-25-21-080911

Lab ID#: 1108244B-08A

Carbon Dioxide	0.026	9.2
Ethane	0.0026	0.016
Helium	0.13	0.0086 J

Client Sample ID: VMP-25-5-080911

Lab ID#: 1108244B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	14
Nitrogen	0.23	81
Methane	0.00023	0.00094
Carbon Dioxide	0.023	5.3
Helium	0.12	0.012 J

Client Sample ID: VMP-13-21.5-080911

Lab ID#: 1108244B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	1.6
Nitrogen	0.30	85
Methane	0.00030	1.9
Carbon Dioxide	0.030	11
Ethane	0.0030	0.00038 J
Helium	0.15	0.0062 J

Client Sample ID: VMP-13-10.5-080911

Lab ID#: 1108244B-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	1.7
Nitrogen	0.30	87
Methane	0.00030	0.59
Carbon Dioxide	0.030	11

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-13-10.5-080911

Lab ID#: 1108244B-11A

Ethane	0.0030	0.00012 J
Helium	0.15	0.0088 J

Client Sample ID: VMP-13-5-080911

Lab ID#: 1108244B-12A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	6.5
Nitrogen	0.30	84
Methane	0.00030	0.0095
Carbon Dioxide	0.030	9.1
Helium	0.15	0.24

Client Sample ID: VMP-13-5-080911-DUP

Lab ID#: 1108244B-13A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	11
Nitrogen	0.26	83
Methane	0.00026	0.0061
Carbon Dioxide	0.026	6.2
Helium	0.13	0.17

Client Sample ID: VMP-8-23.5-081011

Lab ID#: 1108244B-14A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	12
Nitrogen	0.26	79
Carbon Dioxide	0.026	8.8
Helium	0.13	0.0086 J

Client Sample ID: VMP-14-20-080811

Lab ID#: 1108244B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081705	Date of Collection: 8/8/11 11:49:00 AM
Dil. Factor:	2.76	Date of Analysis: 8/17/11 08:44 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.8
Nitrogen	0.28	58
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	21
Carbon Dioxide	0.028	16
Ethane	0.0028	0.0088
Ethene	0.0028	Not Detected
Helium	0.14	1.2

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-15-5-080811

Lab ID#: 1108244B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081706	Date of Collection: 8/8/11 3:33:00 PM
Dil. Factor:	2.29	Date of Analysis: 8/17/11 09:29 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	7.6
Nitrogen	0.23	78
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	0.00011 J
Carbon Dioxide	0.023	14
Ethane	0.0023	Not Detected
Ethene	0.0023	Not Detected
Helium	0.11	0.013 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-15-21.5-080811

Lab ID#: 1108244B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081717	Date of Collection: 8/8/11 4:44:00 PM
Dil. Factor:	2.82	Date of Analysis: 8/17/11 03:30 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.3
Nitrogen	0.28	64
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	16
Carbon Dioxide	0.028	19
Ethane	0.0028	0.013
Ethene	0.0028	Not Detected
Helium	0.14	0.016 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-19-5-080911

Lab ID#: 1108244B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081712	Date of Collection: 8/9/11 1:44:00 PM
Dil. Factor:	2.96	Date of Analysis: 8/17/11 12:11 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	11
Nitrogen	0.30	80
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	Not Detected
Carbon Dioxide	0.030	9.1
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.012 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-19-5-080911-DUP

Lab ID#: 1108244B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081713	Date of Collection: 8/9/11 1:44:00 PM
Dil. Factor:	2.82	Date of Analysis: 8/17/11 12:43 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	11
Nitrogen	0.28	80
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	Not Detected
Carbon Dioxide	0.028	8.7
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.010 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-15-25.5-080811

Lab ID#: 1108244B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081714	Date of Collection: 8/8/11 6:05:00 PM
Dil. Factor:	2.82	Date of Analysis: 8/17/11 01:14 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	5.9
Nitrogen	0.28	75
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.0036
Carbon Dioxide	0.028	15
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	3.6

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-25-21-080911

Lab ID#: 1108244B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081718	Date of Collection: 8/9/11 10:48:00 AM
Dil. Factor:	2.64	Date of Analysis: 8/17/11 03:53 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	7.3
Nitrogen	0.26	61
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	22
Carbon Dioxide	0.026	9.2
Ethane	0.0026	0.016
Ethene	0.0026	Not Detected
Helium	0.13	0.0086 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-25-5-080911

Lab ID#: 1108244B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081711	Date of Collection: 8/9/11 9:33:00 AM
Dil. Factor:	2.33	Date of Analysis: 8/17/11 11:47 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	14
Nitrogen	0.23	81
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	0.00094
Carbon Dioxide	0.023	5.3
Ethane	0.0023	Not Detected
Ethene	0.0023	Not Detected
Helium	0.12	0.012 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-13-21.5-080911

Lab ID#: 1108244B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081715	Date of Collection: 8/9/11 5:54:00 PM
Dil. Factor:	3.03	Date of Analysis: 8/17/11 02:05 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	1.6
Nitrogen	0.30	85
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	1.9
Carbon Dioxide	0.030	11
Ethane	0.0030	0.00038 J
Ethene	0.0030	Not Detected
Helium	0.15	0.0062 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-13-10.5-080911

Lab ID#: 1108244B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081710	Date of Collection: 8/9/11 5:01:00 PM
Dil. Factor:	3.03	Date of Analysis: 8/17/11 11:21 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	1.7
Nitrogen	0.30	87
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.59
Carbon Dioxide	0.030	11
Ethane	0.0030	0.00012 J
Ethene	0.0030	Not Detected
Helium	0.15	0.0088 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-13-5-080911

Lab ID#: 1108244B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081707	Date of Collection: 8/9/11 4:00:00 PM
Dil. Factor:	2.96	Date of Analysis: 8/17/11 10:00 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	6.5
Nitrogen	0.30	84
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.0095
Carbon Dioxide	0.030	9.1
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.24

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-13-5-080911-DUP

Lab ID#: 1108244B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081708	Date of Collection: 8/9/11 4:00:00 PM
Dil. Factor:	2.64	Date of Analysis: 8/17/11 10:26 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	11
Nitrogen	0.26	83
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.0061
Carbon Dioxide	0.026	6.2
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.17

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-8-23.5-081011

Lab ID#: 1108244B-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081709	Date of Collection: 8/10/11 9:14:00 AM
Dil. Factor:	2.64	Date of Analysis: 8/17/11 10:51 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	12
Nitrogen	0.26	79
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	Not Detected
Carbon Dioxide	0.026	8.8
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.0086 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: Lab Blank

Lab ID#: 1108244B-15A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081704	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/17/11 07:23 AM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	Not Detected
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

Container Type: NA - Not Applicable

Client Sample ID: Lab Blank

Lab ID#: 1108244B-15B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081703b	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/17/11 06:46 AM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

Client Sample ID: LCS

Lab ID#: 1108244B-16A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081702	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/17/11 06:18 AM

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	99
Methane	98
Carbon Dioxide	101
Ethane	101
Ethene	99
Helium	94

Container Type: NA - Not Applicable

Client Sample ID: LCSD

Lab ID#: 1108244B-16AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9081726	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/17/11 07:48 PM

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	99
Methane	101
Carbon Dioxide	99
Ethane	104
Ethene	102
Helium	94

Container Type: NA - Not Applicable

1108244

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. Project Name: Roxana Soil Vapor Project # 21562593.00009		Please Check Appropriate Box: ☒ ENV. SERVICES ☐ MOTIVA RETAIL ☐ MOTIVA SORCH ☐ CONSULTANT ☐ OTHER: _____ ☐ SHELL PIPELINE		INCIDENT & ENV. SERVICES: 0 7 2 1 8 6 4 0 DATE: 08/10/11 PAGE: 1 of 2	
Lab Vendor: URS CORPORATION 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110 ADDRESS: Air Toxics, LTD. 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719 TEL: 314-429-0100 FAX: 314-429-0482		Print Bill To Contact Name: Thomas Adams PO # _____ SITE ADDRESS: Street and City 800 SOUTH CENTRAL AVE - ROXANA ILL. 62451-1146 PHONE NO: 314-743-4178 E-MAIL: Elizabeth.Kunkel@URS.com ROXANA SOIL VAPOR		CHECK IF NO INCIDENT # APPLIES DATE: 08/10/11 PAGE: 1 of 2	
TURNAROUND TIME (CALENDAR DAYS): ☒ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ 5 DAYS ☐ 7 DAYS ☐ 14 DAYS ☐ 21 DAYS ☐ 28 DAYS ☐ 35 DAYS ☐ 42 DAYS ☐ 49 DAYS ☐ 56 DAYS ☐ 63 DAYS ☐ 70 DAYS ☐ 77 DAYS ☐ 84 DAYS ☐ 91 DAYS ☐ 98 DAYS ☐ 105 DAYS ☐ 112 DAYS ☐ 119 DAYS ☐ 126 DAYS ☐ 133 DAYS ☐ 140 DAYS ☐ 147 DAYS ☐ 154 DAYS ☐ 161 DAYS ☐ 168 DAYS ☐ 175 DAYS ☐ 182 DAYS ☐ 189 DAYS ☐ 196 DAYS ☐ 203 DAYS ☐ 210 DAYS ☐ 217 DAYS ☐ 224 DAYS ☐ 231 DAYS ☐ 238 DAYS ☐ 245 DAYS ☐ 252 DAYS ☐ 259 DAYS ☐ 266 DAYS ☐ 273 DAYS ☐ 280 DAYS ☐ 287 DAYS ☐ 294 DAYS ☐ 301 DAYS ☐ 308 DAYS ☐ 315 DAYS ☐ 322 DAYS ☐ 329 DAYS ☐ 336 DAYS ☐ 343 DAYS ☐ 350 DAYS ☐ 357 DAYS ☐ 364 DAYS ☐ 371 DAYS ☐ 378 DAYS ☐ 385 DAYS ☐ 392 DAYS ☐ 399 DAYS ☐ 406 DAYS ☐ 413 DAYS ☐ 420 DAYS ☐ 427 DAYS ☐ 434 DAYS ☐ 441 DAYS ☐ 448 DAYS ☐ 455 DAYS ☐ 462 DAYS ☐ 469 DAYS ☐ 476 DAYS ☐ 483 DAYS ☐ 490 DAYS ☐ 497 DAYS ☐ 504 DAYS ☐ 511 DAYS ☐ 518 DAYS ☐ 525 DAYS ☐ 532 DAYS ☐ 539 DAYS ☐ 546 DAYS ☐ 553 DAYS ☐ 560 DAYS ☐ 567 DAYS ☐ 574 DAYS ☐ 581 DAYS ☐ 588 DAYS ☐ 595 DAYS ☐ 602 DAYS ☐ 609 DAYS ☐ 616 DAYS ☐ 623 DAYS ☐ 630 DAYS ☐ 637 DAYS ☐ 644 DAYS ☐ 651 DAYS ☐ 658 DAYS ☐ 665 DAYS ☐ 672 DAYS ☐ 679 DAYS ☐ 686 DAYS ☐ 693 DAYS ☐ 700 DAYS ☐ 707 DAYS ☐ 714 DAYS ☐ 721 DAYS ☐ 728 DAYS ☐ 735 DAYS ☐ 742 DAYS ☐ 749 DAYS ☐ 756 DAYS ☐ 763 DAYS ☐ 770 DAYS ☐ 777 DAYS ☐ 784 DAYS ☐ 791 DAYS ☐ 798 DAYS ☐ 805 DAYS ☐ 812 DAYS ☐ 819 DAYS ☐ 826 DAYS ☐ 833 DAYS ☐ 840 DAYS ☐ 847 DAYS ☐ 854 DAYS ☐ 861 DAYS ☐ 868 DAYS ☐ 875 DAYS ☐ 882 DAYS ☐ 889 DAYS ☐ 896 DAYS ☐ 903 DAYS ☐ 910 DAYS ☐ 917 DAYS ☐ 924 DAYS ☐ 931 DAYS ☐ 938 DAYS ☐ 945 DAYS ☐ 952 DAYS ☐ 959 DAYS ☐ 966 DAYS ☐ 973 DAYS ☐ 980 DAYS ☐ 987 DAYS ☐ 994 DAYS ☐ 1001 DAYS ☐ 1008 DAYS ☐ 1015 DAYS ☐ 1022 DAYS ☐ 1029 DAYS ☐ 1036 DAYS ☐ 1043 DAYS ☐ 1050 DAYS ☐ 1057 DAYS ☐ 1064 DAYS ☐ 1071 DAYS ☐ 1078 DAYS ☐ 1085 DAYS ☐ 1092 DAYS ☐ 1099 DAYS ☐ 1106 DAYS ☐ 1113 DAYS ☐ 1120 DAYS ☐ 1127 DAYS ☐ 1134 DAYS ☐ 1141 DAYS ☐ 1148 DAYS ☐ 1155 DAYS ☐ 1162 DAYS ☐ 1169 DAYS ☐ 1176 DAYS ☐ 1183 DAYS ☐ 1190 DAYS ☐ 1197 DAYS ☐ 1204 DAYS ☐ 1211 DAYS ☐ 1218 DAYS ☐ 1225 DAYS ☐ 1232 DAYS ☐ 1239 DAYS ☐ 1246 DAYS ☐ 1253 DAYS ☐ 1260 DAYS ☐ 1267 DAYS ☐ 1274 DAYS ☐ 1281 DAYS ☐ 1288 DAYS ☐ 1295 DAYS ☐ 1302 DAYS ☐ 1309 DAYS ☐ 1316 DAYS ☐ 1323 DAYS ☐ 1330 DAYS ☐ 1337 DAYS ☐ 1344 DAYS ☐ 1351 DAYS ☐ 1358 DAYS ☐ 1365 DAYS ☐ 1372 DAYS ☐ 1379 DAYS ☐ 1386 DAYS ☐ 1393 DAYS ☐ 1400 DAYS ☐ 1407 DAYS ☐ 1414 DAYS ☐ 1421 DAYS ☐ 1428 DAYS ☐ 1435 DAYS ☐ 1442 DAYS ☐ 1449 DAYS ☐ 1456 DAYS ☐ 1463 DAYS ☐ 1470 DAYS ☐ 1477 DAYS ☐ 1484 DAYS ☐ 1491 DAYS ☐ 1498 DAYS ☐ 1505 DAYS ☐ 1512 DAYS ☐ 1519 DAYS ☐ 1526 DAYS ☐ 1533 DAYS ☐ 1540 DAYS ☐ 1547 DAYS ☐ 1554 DAYS ☐ 1561 DAYS ☐ 1568 DAYS ☐ 1575 DAYS ☐ 1582 DAYS ☐ 1589 DAYS ☐ 1596 DAYS ☐ 1603 DAYS ☐ 1610 DAYS ☐ 1617 DAYS ☐ 1624 DAYS ☐ 1631 DAYS ☐ 1638 DAYS ☐ 1645 DAYS ☐ 1652 DAYS ☐ 1659 DAYS ☐ 1666 DAYS ☐ 1673 DAYS ☐ 1680 DAYS ☐ 1687 DAYS ☐ 1694 DAYS ☐ 1701 DAYS ☐ 1708 DAYS ☐ 1715 DAYS ☐ 1722 DAYS ☐ 1729 DAYS ☐ 1736 DAYS ☐ 1743 DAYS ☐ 1750 DAYS ☐ 1757 DAYS ☐ 1764 DAYS ☐ 1771 DAYS ☐ 1778 DAYS ☐ 1785 DAYS ☐ 1792 DAYS ☐ 1799 DAYS ☐ 1806 DAYS ☐ 1813 DAYS ☐ 1820 DAYS ☐ 1827 DAYS ☐ 1834 DAYS ☐ 1841 DAYS ☐ 1848 DAYS ☐ 1855 DAYS ☐ 1862 DAYS ☐ 1869 DAYS ☐ 1876 DAYS ☐ 1883 DAYS ☐ 1890 DAYS ☐ 1897 DAYS ☐ 1904 DAYS ☐ 1911 DAYS ☐ 1918 DAYS ☐ 1925 DAYS ☐ 1932 DAYS ☐ 1939 DAYS ☐ 1946 DAYS ☐ 1953 DAYS ☐ 1960 DAYS ☐ 1967 DAYS ☐ 1974 DAYS ☐ 1981 DAYS ☐ 1988 DAYS ☐ 1995 DAYS ☐ 2002 DAYS ☐ 2009 DAYS ☐ 2016 DAYS ☐ 2023 DAYS ☐ 2030 DAYS ☐ 2037 DAYS ☐ 2044 DAYS ☐ 2051 DAYS ☐ 2058 DAYS ☐ 2065 DAYS ☐ 2072 DAYS ☐ 2079 DAYS ☐ 2086 DAYS ☐ 2093 DAYS ☐ 2100 DAYS ☐ 2107 DAYS ☐ 2114 DAYS ☐ 2121 DAYS ☐ 2128 DAYS ☐ 2135 DAYS ☐ 2142 DAYS ☐ 2149 DAYS ☐ 2156 DAYS ☐ 2163 DAYS ☐ 2170 DAYS ☐ 2177 DAYS ☐ 2184 DAYS ☐ 2191 DAYS ☐ 2198 DAYS ☐ 2205 DAYS ☐ 2212 DAYS ☐ 2219 DAYS ☐ 2226 DAYS ☐ 2233 DAYS ☐ 2240 DAYS ☐ 2247 DAYS ☐ 2254 DAYS ☐ 2261 DAYS ☐ 2268 DAYS ☐ 2275 DAYS ☐ 2282 DAYS ☐ 2289 DAYS ☐ 2296 DAYS ☐ 2303 DAYS ☐ 2310 DAYS ☐ 2317 DAYS ☐ 2324 DAYS ☐ 2331 DAYS ☐ 2338 DAYS ☐ 2345 DAYS ☐ 2352 DAYS ☐ 2359 DAYS ☐ 2366 DAYS ☐ 2373 DAYS ☐ 2380 DAYS ☐ 2387 DAYS ☐ 2394 DAYS ☐ 2401 DAYS ☐ 2408 DAYS ☐ 2415 DAYS ☐ 2422 DAYS ☐ 2429 DAYS ☐ 2436 DAYS ☐ 2443 DAYS ☐ 2450 DAYS ☐ 2457 DAYS ☐ 2464 DAYS ☐ 2471 DAYS ☐ 2478 DAYS ☐ 2485 DAYS ☐ 2492 DAYS ☐ 2499 DAYS ☐ 2506 DAYS ☐ 2513 DAYS ☐ 2520 DAYS ☐ 2527 DAYS ☐ 2534 DAYS ☐ 2541 DAYS ☐ 2548 DAYS ☐ 2555 DAYS ☐ 2562 DAYS ☐ 2569 DAYS ☐ 2576 DAYS ☐ 2583 DAYS ☐ 2590 DAYS ☐ 2597 DAYS ☐ 2604 DAYS ☐ 2611 DAYS ☐ 2618 DAYS ☐ 2625 DAYS ☐ 2632 DAYS ☐ 2639 DAYS ☐ 2646 DAYS ☐ 2653 DAYS ☐ 2660 DAYS ☐ 2667 DAYS ☐ 2674 DAYS ☐ 2681 DAYS ☐ 2688 DAYS ☐ 2695 DAYS ☐ 2702 DAYS ☐ 2709 DAYS ☐ 2716 DAYS ☐ 2723 DAYS ☐ 2730 DAYS ☐ 2737 DAYS ☐ 2744 DAYS ☐ 2751 DAYS ☐ 2758 DAYS ☐ 2765 DAYS ☐ 2772 DAYS ☐ 2779 DAYS ☐ 2786 DAYS ☐ 2793 DAYS ☐ 2800 DAYS ☐ 2807 DAYS ☐ 2814 DAYS ☐ 2821 DAYS ☐ 2828 DAYS ☐ 2835 DAYS ☐ 2842 DAYS ☐ 2849 DAYS ☐ 2856 DAYS ☐ 2863 DAYS ☐ 2870 DAYS ☐ 2877 DAYS ☐ 2884 DAYS ☐ 2891 DAYS ☐ 2898 DAYS ☐ 2905 DAYS ☐ 2912 DAYS ☐ 2919 DAYS ☐ 2926 DAYS ☐ 2933 DAYS ☐ 2940 DAYS ☐ 2947 DAYS ☐ 2954 DAYS ☐ 2961 DAYS ☐ 2968 DAYS ☐ 2975 DAYS ☐ 2982 DAYS ☐ 2989 DAYS ☐ 2996 DAYS ☐ 3003 DAYS ☐ 3010 DAYS ☐ 3017 DAYS ☐ 3024 DAYS ☐ 3031 DAYS ☐ 3038 DAYS ☐ 3045 DAYS ☐ 3052 DAYS ☐ 3059 DAYS ☐ 3066 DAYS ☐ 3073 DAYS ☐ 3080 DAYS ☐ 3087 DAYS ☐ 3094 DAYS ☐ 3101 DAYS ☐ 3108 DAYS ☐ 3115 DAYS ☐ 3122 DAYS ☐ 3129 DAYS ☐ 3136 DAYS ☐ 3143 DAYS ☐ 3150 DAYS ☐ 3157 DAYS ☐ 3164 DAYS ☐ 3171 DAYS ☐ 3178 DAYS ☐ 3185 DAYS ☐ 3192 DAYS ☐ 3199 DAYS ☐ 3206 DAYS ☐ 3213 DAYS ☐ 3220 DAYS ☐ 3227 DAYS ☐ 3234 DAYS ☐ 3241 DAYS ☐ 3248 DAYS ☐ 3255 DAYS ☐ 3262 DAYS ☐ 3269 DAYS ☐ 3276 DAYS ☐ 3283 DAYS ☐ 3290 DAYS ☐ 3297 DAYS ☐ 3304 DAYS ☐ 3311 DAYS ☐ 3318 DAYS ☐ 3325 DAYS ☐ 3332 DAYS ☐ 3339 DAYS ☐ 3346 DAYS ☐ 3353 DAYS ☐ 3360 DAYS ☐ 3367 DAYS ☐ 3374 DAYS ☐ 3381 DAYS ☐ 3388 DAYS ☐ 3395 DAYS ☐ 3402 DAYS ☐ 3409 DAYS ☐ 3416 DAYS ☐ 3423 DAYS ☐ 3430 DAYS ☐ 3437 DAYS ☐ 3444 DAYS ☐ 3451 DAYS ☐ 3458 DAYS ☐ 3465 DAYS ☐ 3472 DAYS ☐ 3479 DAYS ☐ 3486 DAYS ☐ 3493 DAYS ☐ 3500 DAYS ☐ 3507 DAYS ☐ 3514 DAYS ☐ 3521 DAYS ☐ 3528 DAYS ☐ 3535 DAYS ☐ 3542 DAYS ☐ 3549 DAYS ☐ 3556 DAYS ☐ 3563 DAYS ☐ 3570 DAYS ☐ 3577 DAYS ☐ 3584 DAYS ☐ 3591 DAYS ☐ 3598 DAYS ☐ 3605 DAYS ☐ 3612 DAYS ☐ 3619 DAYS ☐ 3626 DAYS ☐ 3633 DAYS ☐ 3640 DAYS ☐ 3647 DAYS ☐ 3654 DAYS ☐ 3661 DAYS ☐ 3668 DAYS ☐ 3675 DAYS ☐ 3682 DAYS ☐ 3689 DAYS ☐ 3696 DAYS ☐ 3703 DAYS ☐ 3710 DAYS ☐ 3717 DAYS ☐ 3724 DAYS ☐ 3731 DAYS ☐ 3738 DAYS ☐ 3745 DAYS ☐ 3752 DAYS ☐ 3759 DAYS ☐ 3766 DAYS ☐ 3773 DAYS ☐ 3780 DAYS ☐ 3787 DAYS ☐ 3794 DAYS ☐ 3801 DAYS ☐ 3808 DAYS ☐ 3815 DAYS ☐ 3822 DAYS ☐ 3829 DAYS ☐ 3836 DAYS ☐ 3843 DAYS ☐ 3850 DAYS ☐ 3857 DAYS ☐ 3864 DAYS ☐ 3871 DAYS ☐ 3878 DAYS ☐ 3885 DAYS ☐ 3892 DAYS ☐ 3899 DAYS ☐ 3906 DAYS ☐ 3913 DAYS ☐ 3920 DAYS ☐ 3927 DAYS ☐ 3934 DAYS ☐ 3941 DAYS ☐ 3948 DAYS ☐ 3955 DAYS ☐ 3962 DAYS ☐ 3969 DAYS ☐ 3976 DAYS ☐ 3983 DAYS ☐ 3990 DAYS ☐ 3997 DAYS ☐ 4004 DAYS ☐ 4011 DAYS ☐ 4018 DAYS ☐ 4025 DAYS ☐ 4032 DAYS ☐ 4039 DAYS ☐ 4046 DAYS ☐ 4053 DAYS ☐ 4060 DAYS ☐ 4067 DAYS ☐ 4074 DAYS ☐ 4081 DAYS ☐ 4088 DAYS ☐ 4095 DAYS ☐ 4102 DAYS ☐ 4109 DAYS ☐ 4116 DAYS ☐ 4123 DAYS ☐ 4130 DAYS ☐ 4137 DAYS ☐ 4144 DAYS ☐ 4151 DAYS ☐ 4158 DAYS ☐ 4165 DAYS ☐ 4172 DAYS ☐ 4179 DAYS ☐ 4186 DAYS ☐ 4193 DAYS ☐ 4200 DAYS ☐ 4207 DAYS ☐ 4214 DAYS ☐ 4221 DAYS ☐ 4228 DAYS ☐ 4235 DAYS ☐ 4242 DAYS ☐ 4249 DAYS ☐ 4256 DAYS ☐ 4263 DAYS ☐ 4270 DAYS ☐ 4277 DAYS ☐ 4284 DAYS ☐ 4291 DAYS ☐ 4298 DAYS ☐ 4305 DAYS ☐ 4312 DAYS ☐ 4319 DAYS ☐ 4326 DAYS ☐ 4333 DAYS ☐ 4340 DAYS ☐ 4347 DAYS ☐ 4354 DAYS ☐ 4361 DAYS ☐ 4368 DAYS ☐ 4375 DAYS ☐ 4382 DAYS ☐ 4389 DAYS ☐ 4396 DAYS ☐ 4403 DAYS ☐ 4410 DAYS ☐ 4417 DAYS ☐ 4424 DAYS ☐ 4431 DAYS ☐ 4438 DAYS ☐ 4445 DAYS ☐ 4452 DAYS ☐ 4459 DAYS ☐ 4466 DAYS ☐ 4473 DAYS ☐ 4480 DAYS ☐ 4487 DAYS ☐ 4494 DAYS ☐ 4501 DAYS ☐ 4508 DAYS ☐ 4515 DAYS ☐ 4522 DAYS ☐ 4529 DAYS ☐ 4536 DAYS ☐ 4543 DAYS ☐ 4550 DAYS ☐ 4557 DAYS ☐ 4564 DAYS ☐ 4571 DAYS ☐ 4578 DAYS ☐ 4585 DAYS ☐ 4592 DAYS ☐ 4599 DAYS ☐ 4606 DAYS ☐ 4613 DAYS ☐ 4620 DAYS ☐ 4627 DAYS ☐ 4634 DAYS ☐ 4641 DAYS ☐ 4648 DAYS ☐ 4655 DAYS ☐ 4662 DAYS ☐ 4669 DAYS ☐ 4676 DAYS ☐ 4683 DAYS ☐ 4690 DAYS ☐ 4697 DAYS ☐ 4704 DAYS ☐ 4711 DAYS ☐ 4718 DAYS ☐ 4725 DAYS ☐ 4732 DAYS ☐ 4739 DAYS ☐ 4746 DAYS ☐ 4753 DAYS ☐ 4760 DAYS ☐ 4767 DAYS ☐ 4774 DAYS ☐ 4781 DAYS ☐ 4788 DAYS ☐ 4795 DAYS ☐ 4802 DAYS ☐ 4809 DAYS ☐ 4816 DAYS ☐ 4823 DAYS ☐ 4830 DAYS ☐ 4837 DAYS ☐ 4844 DAYS ☐ 4851 DAYS ☐ 4858 DAYS ☐ 4865 DAYS ☐ 4872 DAYS ☐ 4879 DAYS ☐ 4886 DAYS ☐ 4893 DAYS ☐ 4900 DAYS ☐ 4907 DAYS ☐ 4914 DAYS ☐ 4921 DAYS ☐ 4928 DAYS ☐ 4935 DAYS ☐ 4942 DAYS ☐ 4949 DAYS ☐ 4956 DAYS ☐ 4963 DAYS ☐ 4970 DAYS ☐ 4977 DAYS ☐ 4984 DAYS ☐ 4991 DAYS ☐ 4998 DAYS ☐ 5005 DAYS ☐ 5012 DAYS ☐ 5019 DAYS ☐ 5026 DAYS ☐ 5033 DAYS ☐ 5040 DAYS ☐ 5047 DAYS ☐ 5054 DAYS ☐ 5061 DAYS ☐ 5068 DAYS ☐ 5075 DAYS ☐ 5082 DAYS ☐ 5089 DAYS ☐ 5096 DAYS ☐ 5103 DAYS ☐ 5110 DAYS ☐ 5117 DAYS ☐ 5124 DAYS ☐ 5131 DAYS ☐ 5138 DAYS ☐ 5145 DAYS ☐ 5152 DAYS ☐ 5159 DAYS ☐ 5166 DAYS ☐ 5173 DAYS ☐ 5180 DAYS ☐ 5187 DAYS ☐ 5194 DAYS ☐ 5201 DAYS ☐ 5208 DAYS ☐ 5215 DAYS ☐ 5222 DAYS ☐ 5229 DAYS ☐ 5236 DAYS ☐ 5243 DAYS ☐ 5250 DAYS ☐ 5257 DAYS ☐ 5264 DAYS ☐ 5271 DAYS ☐ 5278 DAYS ☐ 5285 DAYS ☐ 5292 DAYS ☐ 5299 DAYS ☐ 5306 DAYS ☐ 5313 DAYS ☐ 5320 DAYS ☐ 5327 DAYS ☐ 5334 DAYS ☐ 5341 DAYS ☐ 5348 DAYS ☐ 5355 DAYS ☐ 5362 DAYS ☐ 5369 DAYS ☐ 5376 DAYS ☐ 5383 DAYS ☐ 5390 DAYS ☐ 5397 DAYS ☐ 5404 DAYS ☐ 5411 DAYS ☐ 5418 DAYS ☐ 5425 DAYS ☐ 5432 DAYS ☐ 5439 DAYS ☐ 5446 DAYS ☐ 5453 DAYS ☐ 5460 DAYS ☐ 5467 DAYS ☐ 5474 DAYS ☐ 5481 DAYS ☐ 5488 DAYS ☐ 5495 DAYS ☐ 5502 DAYS ☐ 5509 DAYS ☐ 5516 DAYS ☐ 5523 DAYS ☐ 5530 DAYS ☐ 5537 DAYS ☐ 5544 DAYS ☐ 5551 DAYS ☐ 5558 DAYS ☐ 5565 DAYS ☐ 5572 DAYS ☐ 5579 DAYS ☐ 5586 DAYS ☐ 5593 DAYS ☐ 5600 DAYS ☐ 5607 DAYS ☐ 5614 DAYS ☐ 5621 DAYS ☐ 5628 DAYS ☐ 5635 DAYS ☐ 5642 DAYS ☐ 5649 DAYS ☐ 5656 DAYS ☐ 5663 DAYS ☐ 5670 DAYS ☐ 5677 DAYS ☐ 5684 DAYS ☐ 5691 DAYS ☐ 5698 DAYS ☐ 5705 DAYS ☐ 5712 DAYS ☐ 5719 DAYS ☐ 5726 DAYS ☐ 5733 DAYS ☐ 5740 DAYS ☐ 5747 DAYS ☐ 5754 DAYS ☐ 5761 DAYS ☐ 5768 DAYS ☐ 5775 DAYS ☐ 5782 DAYS ☐ 5789 DAYS ☐ 5796 DAYS ☐ 5803 DAYS ☐ 5810 DAYS ☐ 5817 DAYS ☐ 5824 DAYS ☐ 5831 DAYS ☐ 5838 DAYS ☐ 5845 DAYS ☐ 5852 DAYS ☐ 5859 DAYS ☐ 5866 DAYS ☐ 5873 DAYS ☐ 5880 DAYS ☐ 5887 DAYS ☐ 5894 DAYS ☐ 5901 DAYS ☐ 5908 DAYS ☐ 5915 DAYS ☐ 5922 DAYS ☐ 5929 DAYS ☐ 5936 DAYS ☐ 5943 DAYS ☐ 5950 DAYS ☐ 5957 DAYS ☐ 5964 DAYS ☐ 5971 DAYS ☐ 5978 DAYS ☐ 5985 DAYS ☐ 5992 DAYS ☐ 5999 DAYS ☐ 6006 DAYS ☐ 6013 DAYS ☐ 6020 DAYS ☐ 6027 DAYS ☐ 6034 DAYS ☐ 6041 DAYS ☐ 6048 DAYS ☐ 6055 DAYS ☐ 6062 DAYS ☐ 6069 DAYS ☐ 6076 DAYS ☐ 6083 DAYS ☐ 6090 DAYS ☐ 6097 DAYS ☐ 6104 DAYS ☐ 6111 DAYS ☐ 6118 DAYS ☐ 6125 DAYS ☐ 6132 DAYS ☐ 6139 DAYS ☐ 6146 DAYS ☐ 6153 DAYS ☐ 6160 DAYS ☐ 6167 DAYS ☐ 6174 DAYS ☐ 6181 DAYS ☐ 6188 DAYS ☐ 6195 DAYS ☐ 6202 DAYS ☐ 6209 DAYS ☐ 6216 DAYS ☐ 6223 DAYS ☐ 6230 DAYS ☐ 6237 DAYS ☐ 6244 DAYS ☐ 6251 DAYS ☐ 6258 DAYS ☐ 6265 DAYS ☐ 6272 DAYS ☐ 6279 DAYS ☐ 6286 DAYS ☐ 6293 DAYS ☐ 6300 DAYS ☐ 6307 DAYS ☐ 6314 DAYS ☐ 6321 DAYS ☐ 6328 DAYS ☐ 6335 DAYS ☐ 6342 DAYS ☐ 6349 DAYS ☐ 6356 DAYS ☐ 6363 DAYS ☐ 6370 DAYS ☐ 6377 DAYS ☐ 6384 DAYS ☐ 6391 DAYS ☐ 6398 DAYS ☐ 6405 DAYS ☐ 6412 DAYS ☐ 6419 DAYS ☐ 6426 DAYS ☐ 6433 DAYS ☐ 6440 DAYS ☐ 6447 DAYS ☐ 6454 DAYS ☐ 6461 DAYS ☐ 6468 DAYS ☐ 6475 DAYS ☐ 6482 DAYS ☐ 6489 DAYS ☐ 6496 DAYS ☐ 6503 DAYS ☐ 6510 DAYS ☐ 6517 DAYS ☐ 6524 DAYS ☐ 6531 DAYS ☐ 6538 DAYS ☐ 6545 DAYS ☐ 6552 DAYS ☐ 6559 DAYS ☐ 6566 DAYS ☐ 6573 DAYS ☐ 6580 DAYS ☐ 6587 DAYS ☐ 6594 DAYS ☐ 6601 DAYS ☐ 6608 DAYS ☐ 6615 DAYS ☐ 6622 DAYS ☐ 6629 DAYS ☐ 6636 DAYS ☐ 6643 DAYS ☐ 6650 DAYS ☐ 6657 DAYS ☐ 6664 DAYS ☐ 6671 DAYS ☐ 6678 DAYS ☐ 6685 DAYS ☐ 6692 DAYS ☐ 6699 DAYS ☐ 6706 DAYS ☐ 6713 DAYS ☐ 6720 DAYS ☐ 6727 DAYS ☐ 6734 DAYS ☐ 6741 DAYS ☐ 6748 DAYS ☐ 6755 DAYS ☐ 6762 DAYS ☐ 6769 DAYS ☐ 6776 DAYS ☐ 6783 DAYS ☐ 6790 DAYS ☐ 6797 DAYS ☐ 6804 DAYS ☐ 6811 DAYS ☐ 6818 DAYS ☐ 6825 DAYS ☐ 6832 DAYS ☐ 6839 DAYS ☐ 6846 DAYS ☐ 6853 DAYS ☐ 6860 DAYS ☐ 6867 DAYS ☐ 6874 DAYS ☐ 6881 DAYS ☐ 6					



Shell Oil Products Chain Of Custody Record

STB

Air Toxics LTD. Project Name: Roxana Soil Vapor Project # 21562593.00009		Print Bill To Contact Name: Thomas Adams P.O. # _____ 900 SOUTH CENTRAL AVE. - ROXANA ILL. 61274-4178 ELIZABETH KUNKEL, URS, ST. LOUIS W. BUCHMEN, C. KREIZER, C. BEAST, B. VARN		INCIDENT # (ENV SERVICES) 9 7 2 1 6 8 4 0 DATE: 08/10/11 PAGE: 2 of 2	
Please Check Appropriate Box: ☒ ENV. SERVICES ☐ MOTIVA REMED. ☐ MOTIVA SOILCH ☐ MOTIVA PIRELVE ☐ SHIELD REMED. ☐ LURES ☐ OTHER: _____		SITE ADDRESS (Street only) 900 SOUTH CENTRAL AVE. - ROXANA ILL. 61274-4178 ELIZABETH KUNKEL, URS, ST. LOUIS W. BUCHMEN, C. KREIZER, C. BEAST, B. VARN		PHONE NO: 314-743-4178 FAX NO: 314-429-0462	
Lab Vendor # _____ URS CORPORATION 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110		TURNAROUND TIME (CALENDAR DAYS): ☒ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS		RESULTS NEEDED ON WEDNESDAY ☐ YES ☐ NO	
DELIVERABLES: ☐ 1A - RWD REPORT FORMAT ☐ 1B - RWD REPORT FORMAT ☐ 1C - RWD REPORT FORMAT		FIELD AGENCY: ☒ UST AGENCY ☐ OTHER (SPECIFY) _____		REQUESTED ANALYSIS: Turn Around Time: ☒ Normal ☐ Rush Specify: _____ Lab Use Only Pressurized by: _____ Date: _____ Pressurization Gas: _____ N: _____ He: _____	
ADDITIONAL NOTES: - 14 day hold time - Report results between MDL and RL - Level IV ECVF		ADDITIONAL NOTES:			

DATE	TIME	CURSUS NUMBER	CONCENTRATION PRESSURE/VACUUM		INITIAL	FINAL	RECALCD	FINAL (psi)
			INITIAL	FINAL				
08/09/11	1628-1701	2108	-30	-9.5				
08/09/11	1631-1600	2704	-30	-10				
08/09/11	1631-1600	1737	-30	-6				
08/10/11	0637-0614	20044	-29	-7				

FIELD SAMPLE IDENTIFICATION		BAMPLING		CURSUS NUMBER		CONCENTRATION PRESSURE/VACUUM	
DATE	TIME	DATE	TIME	INITIAL	FINAL	RECALCD	FINAL (psi)
08/09/11	1628-1701	08/09/11	1628-1701	-30	-9.5		
08/09/11	1631-1600	08/09/11	1631-1600	-30	-10		
08/09/11	1631-1600	08/09/11	1631-1600	-30	-6		
08/10/11	0637-0614	08/10/11	0637-0614	-29	-7		

Signature: _____ (Required by (Signature))	Signature: _____ (Required by (Signature))	Signature: _____ (Required by (Signature))

Signature: _____ (Required by (Signature))	Signature: _____ (Required by (Signature))	Signature: _____ (Required by (Signature))

Telesat

Roxana Soil Vapor Quarterly – 3rd Quarter 2011 Data Review

Laboratory SDG: 1108527A, B

Data Reviewer: Melissa Mansker

Peer Reviewer: Elizabeth Kunkel

Date Reviewed: 9/12/2011

Guidance: USEPA National Functional Guidelines for Superfund Organic Methods Data Review 2008

Work Plan: Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation (2009)

Sample Identification	Sample Identification
VMP-11-29-082511	VMP-11-29-082511-Dup

1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC as appropriate?

Yes

2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes, the laboratory case narrative indicated that the analyte 4-ethyltoluene may be biased high in samples VMP-11-29-082511 and VMP-11-29-082511-Dup due to co-elution with a non-target analyte. Although not indicated in the laboratory case narrative, analytes were detected in the method blank. These issues are addressed further in the appropriate sections below.

No problems were indicated in the cooler receipt form; however COC-designated sample IDs VMP-11-29-082511 and VMP-11-29-082511-Dup did not match canister tag-designated sample IDs. Data was reported using the correct, COC-designated sample IDs.

3.0 Holding Times

Were samples extracted/analyzed within applicable limits?

Yes

4.0 Blank Contamination

Were any analytes detected in the Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1108527A-03A	TO-15	Acetone	1.1 ppbv / 2.7 µg/m ³
1108527A-03A	TO-15	Methylene Chloride	0.11 ppbv / 0.38 µg/m ³
1108527A-03A	TO-15	2-Butanone (Methyl Ethyl Ketone)	0.24 ppbv / 0.70 µg/m ³
1108527A-03A	TO-15	Trichloroethene	0.11 ppbv / 0.58 µg/m ³
1108527A-03A	TO-15	1,3-Dichlorobenzene	0.069 ppbv / 0.41 µg/m ³
1108527A-03A	TO-15	1,4-Dichlorobenzene	0.079 ppbv / 0.47 µg/m ³

Blank ID	Parameter	Analyte	Concentration/Amount
1108527B-03A	Natural Gases	Nirtogen	0.046%

Qualifications due to blank contamination are included in the table below. Analytical data reported non-detect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Sample ID	Parameter	Analyte	New RL	Qualification
VMP-11-29-082511-Dup	TO-15	Methylene Chloride	-	U

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes

6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Yes

7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples collected as part of this SDG?

MS/MSD samples are not applicable for vapor samples, due to the inability to spike the samples.

8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No

9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes

Field ID	Field Duplicate ID
VMP-11-29-082511	VMP-11-29-082511-Dup

Were field duplicates within evaluation criteria?

Yes

10.0 Sample Dilutions

For samples that were diluted and nondetect, were undiluted results also reported?

Not applicable; analytes were detected in samples that were diluted.

11.0 Additional Qualifications

Were additional qualifications applied?

Yes, professional judgment was used to qualify 4-ethyltoluene in samples where results for this analyte may be biased high due to co-elution with a non-target analyte.

Sample ID	Parameter	Analyte	Qualification	Comment
VMP-11-29-082511	TO-15	4-Ethyltoluene	J	Professional Judgment
VMP-11-29-082511-Dup	TO-15	4-Ethyltoluene	J	Professional Judgment

9/6/2011

Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562593.00009
Workorder #: 1108527A

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 8/26/2011 at Air Toxics Ltd.

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

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

Regards,



Kelly Buettner
Project Manager

*Reviewed
9/12/2011*

WORK ORDER #: 1108527A

Work Order Summary

CLIENT: Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-429-0100

FAX:

DATE RECEIVED: 08/26/2011

DATE COMPLETED: 09/06/2011

P.O. #

PROJECT # 21562593.00009 Roxana Soil Vapor

CONTACT: Kelly Buettner

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-11-29-082511	Modified TO-15	8.0 "Hg	15 psi
02A	VMP-11-29-082511-Dup	Modified TO-15	8.0 "Hg	15 psi
03A	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA
05AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:

Sandra J. Freeman

Laboratory Director

DATE: 09/06/11

Certification numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719

Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,

Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

**LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1108527A**

Two 1 Liter Summa Canister samples were received on August 26, 2011. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

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

Receiving Notes

The Chain of Custody (COC) information for sample VMP-11-29-082511 and VMP-11-29-082511-Dup did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the samples.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified (0.2 ppbv for compounds reported at 0.5 ppbv and 0.8 ppbv for compounds reported at 2.0 ppbv) may be false positives.

The reported result for 4-Ethyltoluene in samples VMP-11-29-082511 and VMP-11-29-082511-Dup may be biased high due to co-elution with a non target compound with similar characteristic ions. Both the primary and secondary ion for 4-Ethyltoluene exhibited potential interference.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

Client Sample ID: VMP-11-29-082511

Lab ID#: 1108527A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.46 J	6.8	2.3 J
Ethanol	5.5	7.1	10	13
Acetone	5.5	7.4	13	18
2-Propanol	5.5	13	14	33
Methylene Chloride	1.4	0.61 J	4.8	2.1 J
Methyl tert-butyl ether	1.4	0.35 J	5.0	1.2 J
Hexane	1.4	0.57 J	4.9	2.0 J
2-Butanone (Methyl Ethyl Ketone)	5.5	2.4 J	16	6.9 J
Chloroform	1.4	2.6	6.7	13
2,2,4-Trimethylpentane	1.4	0.42 J	6.4	2.0 J
Benzene	1.4	1.2 J	4.4	3.9 J
4-Methyl-2-pentanone	1.4	14	5.6	56
Toluene	1.4	2.1	5.2	7.9
2-Hexanone	5.5	0.22 J	23	0.92 J
Ethyl Benzene	1.4	0.33 J	6.0	1.4 J
m,p-Xylene	1.4	0.84 J	6.0	3.7 J
o-Xylene	1.4	0.26 J	6.0	1.1 J
Styrene	1.4	0.23 J	5.9	0.98 J
Cumene	1.4	1.8	6.8	8.8
4-Ethyltoluene	1.4	0.35 J J	6.8	1.7 J J
1,2,4-Trimethylbenzene	1.4	0.47 J	6.8	2.3 J
Isopentane	5.5	1.4 J	16	4.0 J

Client Sample ID: VMP-11-29-082511-Dup

Lab ID#: 1108527A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.46 J	6.8	2.3 J
Ethanol	5.5	8.5	10	16
Acetone	5.5	9.6	13	23
2-Propanol	5.5	14	14	34

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

Client Sample ID: VMP-11-29-082511-Dup

Lab ID#: 1108527A-02A

Methylene Chloride	1.4	~~0.48 J~~ U	4.8	~~1.7 J~~ U
Methyl tert-butyl ether	1.4	0.24 J	5.0	0.88 J
Hexane	1.4	0.92 J	4.9	3.2 J
2-Butanone (Methyl Ethyl Ketone)	5.5	2.1 J	16	6.2 J
Tetrahydrofuran	1.4	0.34 J	4.1	1.0 J
Chloroform	1.4	2.6	6.7	13
2,2,4-Trimethylpentane	1.4	0.85 J	6.4	4.0 J
Benzene	1.4	1.2 J	4.4	3.9 J
4-Methyl-2-pentanone	1.4	13	5.6	52
Toluene	1.4	1.9	5.2	7.1
2-Hexanone	5.5	0.24 J	23	0.98 J
Ethyl Benzene	1.4	0.29 J	6.0	1.2 J
m,p-Xylene	1.4	0.75 J	6.0	3.3 J
o-Xylene	1.4	0.25 J	6.0	1.1 J
Styrene	1.4	0.21 J	5.9	0.91 J
Cumene	1.4	1.8	6.8	8.6
4-Ethyltoluene	1.4	0.36 J J	6.8	1.8 J J
1,2,4-Trimethylbenzene	1.4	0.46 J	6.8	2.3 J
Isopentane	5.5	1.4 J	16	4.0 J

Client Sample ID: VMP-11-29-082511

Lab ID#: 1108527A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2083011	Date of Collection: 8/25/11 2:56:00 PM
Dil. Factor:	2.76	Date of Analysis: 8/30/11 01:35 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.46 J	6.8	2.3 J
Freon 114	1.4	Not Detected	9.6	Not Detected
Chloromethane	5.5	Not Detected	11	Not Detected
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	1.4	Not Detected	5.4	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	Not Detected	7.8	Not Detected
Ethanol	5.5	7.1	10	13
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	5.5	7.4	13	18
2-Propanol	5.5	13	14	33
Carbon Disulfide	5.5	Not Detected	17	Not Detected
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	1.4	0.61 J	4.8	2.1 J
Methyl tert-butyl ether	1.4	0.35 J	5.0	1.2 J
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	0.57 J	4.9	2.0 J
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	2.4 J	16	6.9 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.1	Not Detected
Chloroform	1.4	2.6	6.7	13
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	Not Detected	4.8	Not Detected
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	0.42 J	6.4	2.0 J
Benzene	1.4	1.2 J	4.4	3.9 J
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	Not Detected	5.6	Not Detected
Trichloroethene	1.4	Not Detected	7.4	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.2	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	14	5.6	56
Toluene	1.4	2.1	5.2	7.9
trans-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Tetrachloroethene	1.4	Not Detected	9.4	Not Detected

Client Sample ID: VMP-11-29-082511

Lab ID#: 1108527A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2083011	Date of Collection: 8/25/11 2:56:00 PM		
Dil. Factor:	2.76	Date of Analysis: 8/30/11 01:35 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.5	0.22 J	23	0.92 J
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.4	Not Detected
Ethyl Benzene	1.4	0.33 J	6.0	1.4 J
m,p-Xylene	1.4	0.84 J	6.0	3.7 J
o-Xylene	1.4	0.26 J	6.0	1.1 J
Styrene	1.4	0.23 J	5.9	0.98 J
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	1.8	6.8	8.8
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	Not Detected	6.8	Not Detected
4-Ethyltoluene	1.4	0.35 J	6.8	1.7 J
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	0.47 J	6.8	2.3 J
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	5.5	Not Detected	41	Not Detected
Hexachlorobutadiene	5.5	Not Detected	59	Not Detected
Butane	5.5	Not Detected	13	Not Detected
Isopentane	5.5	1.4 J	16	4.0 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	95	70-130

Client Sample ID: VMP-11-29-082511-Dup

Lab ID#: 1108527A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2083012	Date of Collection: 8/25/11 2:56:00 PM		
Dil. Factor:	2.76	Date of Analysis: 8/30/11 02:20 PM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.46 J	6.8	2.3 J
Freon 114	1.4	Not Detected	9.6	Not Detected
Chloromethane	5.5	Not Detected	11	Not Detected
Vinyl Chloride	1.4	Not Detected	3.5	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	1.4	Not Detected	5.4	Not Detected
Chloroethane	5.5	Not Detected	14	Not Detected
Freon 11	1.4	Not Detected	7.8	Not Detected
Ethanol	5.5	8.5	10	16
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	5.5	9.6	13	23
2-Propanol	5.5	14	14	34
Carbon Disulfide	5.5	Not Detected	17	Not Detected
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	1.4	~~0.48 J~~ u	4.8	~~1.7 J~~ u
Methyl tert-butyl ether	1.4	0.24 J	5.0	0.88 J
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	0.92 J	4.9	3.2 J
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	2.1 J	16	6.2 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Tetrahydrofuran	1.4	0.34 J	4.1	1.0 J
Chloroform	1.4	2.6	6.7	13
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	Not Detected	4.8	Not Detected
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	0.85 J	6.4	4.0 J
Benzene	1.4	1.2 J	4.4	3.9 J
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	Not Detected	5.6	Not Detected
Trichloroethene	1.4	Not Detected	7.4	Not Detected
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.2	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	13	5.6	52
Toluene	1.4	1.9	5.2	7.1
trans-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Tetrachloroethene	1.4	Not Detected	9.4	Not Detected

Client Sample ID: VMP-11-29-082511-Dup

Lab ID#: 1108527A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2083012	Date of Collection: 8/25/11 2:56:00 PM
Dil. Factor:	2.76	Date of Analysis: 8/30/11 02:20 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.5	0.24 J	23	0.98 J
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.4	Not Detected
Ethyl Benzene	1.4	0.29 J	6.0	1.2 J
m,p-Xylene	1.4	0.75 J	6.0	3.3 J
o-Xylene	1.4	0.25 J	6.0	1.1 J
Styrene	1.4	0.21 J	5.9	0.91 J
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	1.8	6.8	8.6
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	Not Detected	6.8	Not Detected
4-Ethyltoluene	1.4	0.36 J	6.8	1.8 J
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	0.46 J	6.8	2.3 J
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,2,4-Trichlorobenzene	5.5	Not Detected	41	Not Detected
Hexachlorobutadiene	5.5	Not Detected	59	Not Detected
Butane	5.5	Not Detected	13	Not Detected
Isopentane	5.5	1.4 J	16	4.0 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	95	70-130

Client Sample ID: Lab Blank

Lab ID#: 1108527A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2083008d	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/30/11 09:51 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	1.1 J	4.8	2.7 J
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	0.11 J	1.7	0.38 J
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	0.24 J	5.9	0.70 J
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	0.11 J	2.7	0.58 J
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

Client Sample ID: Lab Blank

Lab ID#: 1108527A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2083008d	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/30/11 09:51 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	0.069 J	3.0	0.41 J
1,4-Dichlorobenzene	0.50	0.079 J	3.0	0.47 J
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
Butane	2.0	Not Detected	4.8	Not Detected
Isopentane	2.0	Not Detected	5.9	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

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

Client Sample ID: CCV

Lab ID#: 1108527A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2083002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/30/11 05:47 AM

Compound	%Recovery
Freon 12	95
Freon 114	99
Chloromethane	100
Vinyl Chloride	98
1,3-Butadiene	92
Bromomethane	104
Chloroethane	106
Freon 11	90
Ethanol	105
Freon 113	99
1,1-Dichloroethene	102
Acetone	106
2-Propanol	96
Carbon Disulfide	86
3-Chloropropene	101
Methylene Chloride	100
Methyl tert-butyl ether	76
trans-1,2-Dichloroethene	97
Hexane	92
1,1-Dichloroethane	93
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	95
Tetrahydrofuran	95
Chloroform	92
1,1,1-Trichloroethane	88
Cyclohexane	95
Carbon Tetrachloride	90
2,2,4-Trimethylpentane	93
Benzene	92
1,2-Dichloroethane	87
Heptane	90
Trichloroethene	96
1,2-Dichloropropane	93
1,4-Dioxane	97
Bromodichloromethane	92
cis-1,3-Dichloropropene	93
4-Methyl-2-pentanone	97
Toluene	92
trans-1,3-Dichloropropene	96
1,1,2-Trichloroethane	93
Tetrachloroethene	94

Client Sample ID: CCV

Lab ID#: 1108527A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2083002	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/30/11 05:47 AM

Compound	%Recovery
2-Hexanone	96
Dibromochloromethane	93
1,2-Dibromoethane (EDB)	95
Chlorobenzene	93
Ethyl Benzene	95
m,p-Xylene	99
o-Xylene	102
Styrene	100
Bromoform	98
Cumene	104
1,1,2,2-Tetrachloroethane	95
Propylbenzene	105
4-Ethyltoluene	109
1,3,5-Trimethylbenzene	103
1,2,4-Trimethylbenzene	99
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	108
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	95
Hexachlorobutadiene	102
Butane	101
Isopentane	100

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	106	70-130

Client Sample ID: LCS

Lab ID#: 1108527A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2083003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/30/11 06:27 AM

Compound	%Recovery
Freon 12	92
Freon 114	99
Chloromethane	99
Vinyl Chloride	99
1,3-Butadiene	92
Bromomethane	104
Chloroethane	110
Freon 11	89
Ethanol	100
Freon 113	102
1,1-Dichloroethene	111
Acetone	104
2-Propanol	98
Carbon Disulfide	106
3-Chloropropene	115
Methylene Chloride	100
Methyl tert-butyl ether	80
trans-1,2-Dichloroethene	116
Hexane	90
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	97
Tetrahydrofuran	92
Chloroform	94
1,1,1-Trichloroethane	90
Cyclohexane	96
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	92
Benzene	95
1,2-Dichloroethane	88
Heptane	90
Trichloroethene	100
1,2-Dichloropropane	94
1,4-Dioxane	95
Bromodichloromethane	93
cis-1,3-Dichloropropene	95
4-Methyl-2-pentanone	96
Toluene	93
trans-1,3-Dichloropropene	100
1,1,2-Trichloroethane	96
Tetrachloroethene	97

Client Sample ID: LCS

Lab ID#: 1108527A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2083003	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/30/11 06:27 AM

Compound	%Recovery
2-Hexanone	98
Dibromochloromethane	95
1,2-Dibromoethane (EDB)	100
Chlorobenzene	99
Ethyl Benzene	99
m,p-Xylene	104
o-Xylene	108
Styrene	106
Bromoform	100
Cumene	109
1,1,2,2-Tetrachloroethane	100
Propylbenzene	111
4-Ethyltoluene	110
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	105
1,3-Dichlorobenzene	108
1,4-Dichlorobenzene	109
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	107
1,2,4-Trichlorobenzene	100
Hexachlorobutadiene	103
Butane	98
Isopentane	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	109	70-130

Client Sample ID: LCSD

Lab ID#: 1108527A-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2083004	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/30/11 06:57 AM

Compound	%Recovery
Freon 12	86
Freon 114	93
Chloromethane	92
Vinyl Chloride	93
1,3-Butadiene	88
Bromomethane	100
Chloroethane	105
Freon 11	86
Ethanol	97
Freon 113	98
1,1-Dichloroethene	109
Acetone	102
2-Propanol	95
Carbon Disulfide	104
3-Chloropropene	111
Methylene Chloride	98
Methyl tert-butyl ether	80
trans-1,2-Dichloroethene	113
Hexane	90
1,1-Dichloroethane	93
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	97
Tetrahydrofuran	91
Chloroform	92
1,1,1-Trichloroethane	88
Cyclohexane	96
Carbon Tetrachloride	90
2,2,4-Trimethylpentane	90
Benzene	95
1,2-Dichloroethane	87
Heptane	91
Trichloroethene	100
1,2-Dichloropropane	96
1,4-Dioxane	96
Bromodichloromethane	93
cis-1,3-Dichloropropene	95
4-Methyl-2-pentanone	96
Toluene	93
trans-1,3-Dichloropropene	99
1,1,2-Trichloroethane	96
Tetrachloroethene	97

Client Sample ID: LCSO

Lab ID#: 1108527A-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	2083004	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/30/11 06:57 AM

Compound	%Recovery
2-Hexanone	98
Dibromochloromethane	93
1,2-Dibromoethane (EDB)	98
Chlorobenzene	99
Ethyl Benzene	97
m,p-Xylene	103
o-Xylene	105
Styrene	104
Bromoform	96
Cumene	107
1,1,2,2-Tetrachloroethane	99
Propylbenzene	108
4-Ethyltoluene	109
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	103
1,3-Dichlorobenzene	107
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	102
Hexachlorobutadiene	102
Butane	95
Isopentane	97

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	89	70-130
4-Bromofluorobenzene	107	70-130



URS

Air Toxics LTD. Project Name: Roxana Soil Vapor Project # 21582593.00069		Please Check Appropriate Box: ☒ ENV. SERVICES ☐ CORRECTIONAL ☐ ENV. RETAIL ☐ POTENTIAL SEARCH ☐ CONSULTANT ☐ LUMS ☐ ENV. PIPELINE ☐ OTHER		Print Bill To Contact Name: Thomas Adams FID # _____ _____ _____		INCIDENT # (ENV. SERVICES) 8 7 2 1 8 6 4 0 DATE: 08/25/11 PAGE 1 of 1	
Lab Vendor # URS CORPORATION 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110		878 ACCORDING TO ENV. AND CLAY 900 SOUTH CENTRAL AVE - ROXANA 624 DELAWARE (N. STATE, DEPT. OF ENV. & NATURAL RESOURCES)		BILL TO Elizabeth Kunkel, URS, St. Louis 314-743-4179 N. Miller, C. Kreber			
Air Toxics, LTD. 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719 TEL: 916-314-428-0100 FAX: 916-314-428-0462		URS is a Green Company Thomas Adams - URS Corporation		C. Stephen Markham, (RSCC) 604-604-6040 Roxana Soil Vapor			
TURNAROUND TIME (CALENDAR DATES) ☒ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ 4 DAYS ☐ 5 DAYS ☐ 6 DAYS ☐ 7 DAYS ☐ 8 DAYS ☐ 9 DAYS ☐ 10 DAYS ☐ 11 DAYS ☐ 12 DAYS ☐ 13 DAYS ☐ 14 DAYS ☐ 15 DAYS ☐ 16 DAYS ☐ 17 DAYS ☐ 18 DAYS ☐ 19 DAYS ☐ 20 DAYS ☐ 21 DAYS ☐ 22 DAYS ☐ 23 DAYS ☐ 24 DAYS ☐ 25 DAYS ☐ 26 DAYS ☐ 27 DAYS ☐ 28 DAYS ☐ 29 DAYS ☐ 30 DAYS ☐ 31 DAYS ☐ 32 DAYS ☐ 33 DAYS ☐ 34 DAYS ☐ 35 DAYS ☐ 36 DAYS ☐ 37 DAYS ☐ 38 DAYS ☐ 39 DAYS ☐ 40 DAYS ☐ 41 DAYS ☐ 42 DAYS ☐ 43 DAYS ☐ 44 DAYS ☐ 45 DAYS ☐ 46 DAYS ☐ 47 DAYS ☐ 48 DAYS ☐ 49 DAYS ☐ 50 DAYS ☐ 51 DAYS ☐ 52 DAYS ☐ 53 DAYS ☐ 54 DAYS ☐ 55 DAYS ☐ 56 DAYS ☐ 57 DAYS ☐ 58 DAYS ☐ 59 DAYS ☐ 60 DAYS ☐ 61 DAYS ☐ 62 DAYS ☐ 63 DAYS ☐ 64 DAYS ☐ 65 DAYS ☐ 66 DAYS ☐ 67 DAYS ☐ 68 DAYS ☐ 69 DAYS ☐ 70 DAYS ☐ 71 DAYS ☐ 72 DAYS ☐ 73 DAYS ☐ 74 DAYS ☐ 75 DAYS ☐ 76 DAYS ☐ 77 DAYS ☐ 78 DAYS ☐ 79 DAYS ☐ 80 DAYS ☐ 81 DAYS ☐ 82 DAYS ☐ 83 DAYS ☐ 84 DAYS ☐ 85 DAYS ☐ 86 DAYS ☐ 87 DAYS ☐ 88 DAYS ☐ 89 DAYS ☐ 90 DAYS ☐ 91 DAYS ☐ 92 DAYS ☐ 93 DAYS ☐ 94 DAYS ☐ 95 DAYS ☐ 96 DAYS ☐ 97 DAYS ☐ 98 DAYS ☐ 99 DAYS ☐ 100 DAYS ☐ 101 DAYS ☐ 102 DAYS ☐ 103 DAYS ☐ 104 DAYS ☐ 105 DAYS ☐ 106 DAYS ☐ 107 DAYS ☐ 108 DAYS ☐ 109 DAYS ☐ 110 DAYS ☐ 111 DAYS ☐ 112 DAYS ☐ 113 DAYS ☐ 114 DAYS ☐ 115 DAYS ☐ 116 DAYS ☐ 117 DAYS ☐ 118 DAYS ☐ 119 DAYS ☐ 120 DAYS ☐ 121 DAYS ☐ 122 DAYS ☐ 123 DAYS ☐ 124 DAYS ☐ 125 DAYS ☐ 126 DAYS ☐ 127 DAYS ☐ 128 DAYS ☐ 129 DAYS ☐ 130 DAYS ☐ 131 DAYS ☐ 132 DAYS ☐ 133 DAYS ☐ 134 DAYS ☐ 135 DAYS ☐ 136 DAYS ☐ 137 DAYS ☐ 138 DAYS ☐ 139 DAYS ☐ 140 DAYS ☐ 141 DAYS ☐ 142 DAYS ☐ 143 DAYS ☐ 144 DAYS ☐ 145 DAYS ☐ 146 DAYS ☐ 147 DAYS ☐ 148 DAYS ☐ 149 DAYS ☐ 150 DAYS ☐ 151 DAYS ☐ 152 DAYS ☐ 153 DAYS ☐ 154 DAYS ☐ 155 DAYS ☐ 156 DAYS ☐ 157 DAYS ☐ 158 DAYS ☐ 159 DAYS ☐ 160 DAYS ☐ 161 DAYS ☐ 162 DAYS ☐ 163 DAYS ☐ 164 DAYS ☐ 165 DAYS ☐ 166 DAYS ☐ 167 DAYS ☐ 168 DAYS ☐ 169 DAYS ☐ 170 DAYS ☐ 171 DAYS ☐ 172 DAYS ☐ 173 DAYS ☐ 174 DAYS ☐ 175 DAYS ☐ 176 DAYS ☐ 177 DAYS ☐ 178 DAYS ☐ 179 DAYS ☐ 180 DAYS ☐ 181 DAYS ☐ 182 DAYS ☐ 183 DAYS ☐ 184 DAYS ☐ 185 DAYS ☐ 186 DAYS ☐ 187 DAYS ☐ 188 DAYS ☐ 189 DAYS ☐ 190 DAYS ☐ 191 DAYS ☐ 192 DAYS ☐ 193 DAYS ☐ 194 DAYS ☐ 195 DAYS ☐ 196 DAYS ☐ 197 DAYS ☐ 198 DAYS ☐ 199 DAYS ☐ 200 DAYS ☐ 201 DAYS ☐ 202 DAYS ☐ 203 DAYS ☐ 204 DAYS ☐ 205 DAYS ☐ 206 DAYS ☐ 207 DAYS ☐ 208 DAYS ☐ 209 DAYS ☐ 210 DAYS ☐ 211 DAYS ☐ 212 DAYS ☐ 213 DAYS ☐ 214 DAYS ☐ 215 DAYS ☐ 216 DAYS ☐ 217 DAYS ☐ 218 DAYS ☐ 219 DAYS ☐ 220 DAYS ☐ 221 DAYS ☐ 222 DAYS ☐ 223 DAYS ☐ 224 DAYS ☐ 225 DAYS ☐ 226 DAYS ☐ 227 DAYS ☐ 228 DAYS ☐ 229 DAYS ☐ 230 DAYS ☐ 231 DAYS ☐ 232 DAYS ☐ 233 DAYS ☐ 234 DAYS ☐ 235 DAYS ☐ 236 DAYS ☐ 237 DAYS ☐ 238 DAYS ☐ 239 DAYS ☐ 240 DAYS ☐ 241 DAYS ☐ 242 DAYS ☐ 243 DAYS ☐ 244 DAYS ☐ 245 DAYS ☐ 246 DAYS ☐ 247 DAYS ☐ 248 DAYS ☐ 249 DAYS ☐ 250 DAYS ☐ 251 DAYS ☐ 252 DAYS ☐ 253 DAYS ☐ 254 DAYS ☐ 255 DAYS ☐ 256 DAYS ☐ 257 DAYS ☐ 258 DAYS ☐ 259 DAYS ☐ 260 DAYS ☐ 261 DAYS ☐ 262 DAYS ☐ 263 DAYS ☐ 264 DAYS ☐ 265 DAYS ☐ 266 DAYS							

2025 年 4 月 1 日

CUSTOMER SERVICE INTERFACE
Y/N ☒ ☐ EMP ☒ ☐
CD8/26/11

9/8/2011

Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Soil Vapor
Project #: 21562593.00009
Workorder #: 1108527B

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 8/26/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

*Reviewed on
9/12/2011*

WORK ORDER #: 1108527B

Work Order Summary

CLIENT: Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis, MO 63110

BILL TO: Accounts Payable Austin
URS Corporation
P.O. BOX 203970
Austin, TX 78720-1088

PHONE: 314-429-0100

P.O. #

FAX:

PROJECT # 21562593.00009 Roxana Soil Vapor

DATE RECEIVED: 08/26/2011

CONTACT: Kelly Buettner

DATE COMPLETED: 09/08/2011

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	VMP-11-29-082511	Modified ASTM D-1946	8.0 "Hg	15 psi
02A	VMP-11-29-082511-Dup	Modified ASTM D-1946	8.0 "Hg	15 psi
03A	Lab Blank	Modified ASTM D-1946	NA	NA
03B	Lab Blank	Modified ASTM D-1946	NA	NA
04A	LCS	Modified ASTM D-1946	NA	NA
04AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY:

Shirley A. Freeman

Laboratory Director

DATE: 09/08/11

Certification numbers: AZ Licensure AZ0719, CA NELAP - 02110CA, LA NELAP - 02089,
NY NELAP - 11291, TX NELAP - T104704434-11-3, UT NELAP -CA009332011-1, WA NELAP - C935
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/11, Expiration date: 06/30/12.

Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

**LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1108527B**

Two 1 Liter Summa Canister samples were received on August 26, 2011. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

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

<i>Requirement</i>	<i>ASTM D-1946</i>	<i>ATL Modifications</i>
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a $\geq 95\%$ accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections $> 5 \times$ the RL.

Receiving Notes

The Chain of Custody (COC) information for sample VMP-11-29-082511 and

VMP-11-29-082511-Dup did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the samples.

Analytical Notes

As per project specific client request the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

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 detection limit.

M - Reported value may be biased due to apparent matrix interferences.

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
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VMP-11-29-082511

Lab ID#: 1108527B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	2.0
Nitrogen	0.28	84
Methane	0.00028	0.0025
Carbon Dioxide	0.028	14
Helium	0.14	0.0056 J

Client Sample ID: VMP-11-29-082511-Dup

Lab ID#: 1108527B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	2.0
Nitrogen	0.28	84
Methane	0.00028	0.00013 J
Carbon Dioxide	0.028	14
Helium	0.14	0.0044 J

Client Sample ID: VMP-11-29-082511

Lab ID#: 1108527B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9083135	Date of Collection: 8/25/11 2:56:00 PM
Dil. Factor:	2.76	Date of Analysis: 8/31/11 05:33 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	2.0
Nitrogen	0.28	84
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.0025
Carbon Dioxide	0.028	14
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.0056 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: VMP-11-29-082511-Dup

Lab ID#: 1108527B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9083136	Date of Collection: 8/25/11 2:56:00 PM
Dil. Factor:	2.76	Date of Analysis: 8/31/11 05:56 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	2.0
Nitrogen	0.28	84
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.00013 J
Carbon Dioxide	0.028	14
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.0044 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Client Sample ID: Lab Blank

Lab ID#: 1108527B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9083129a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/31/11 02:23 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	Not Detected
Nitrogen	0.10	0.046 J
Carbon Monoxide	0.010	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected
Ethane	0.0010	Not Detected
Ethene	0.0010	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Client Sample ID: Lab Blank

Lab ID#: 1108527B-03B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9083128b	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/31/11 01:59 PM

Compound	Rpt. Limit (%)	Amount (%)
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

Client Sample ID: LCS

Lab ID#: 1108527B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9083127	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/31/11 01:36 PM

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	99
Methane	97
Carbon Dioxide	101
Ethane	100
Ethene	98
Helium	94

Container Type: NA - Not Applicable

Client Sample ID: LCSD

Lab ID#: 1108527B-04AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9083151	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 9/1/11 07:30 AM

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	99
Methane	97
Carbon Dioxide	101
Ethane	100
Ethene	99
Helium	93

Container Type: NA - Not Applicable

**URS**

Air Toxics LTD. Project Name: Roxana Soil Vapor Project # 21562593.00009		Please Check Appropriate Box: ☒ ENV. SOURCES ☐ HOTVIA RETAIL ☐ SHELL RETAIL ☐ HOTVIA TRENCH ☐ CONSULTANT ☐ LIQUEF. ☐ SHELL PIPELINE ☐ OTHER: _____		Print Bill To Contact Name: Thomas Adams PO # _____ 872 215 810 340 081		INCIDENT # (ENV. SERVICES) DATE 06/25/11 PAGE 1 of 1	
Lab Vendor # URS CORPORATION ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110 COMPANY ADDRESS: AIR TOXICS LTD. 150 Blue Ravine Road, Suite B, Folsom, CA 95630-4719 PHONE: 314-429-0100		LAST DATE: 8/25/11 800 SOUTH CENTRAL AVE - ROXANA 62452 ILLINOIS 62452 Elizabeth Kumbal, URS, St. Louis 314-743-4129 N. Miller, C. Kretzer		SITE ADDRESS: Street and City 800 SOUTH CENTRAL AVE - ROXANA 62452 ILLINOIS 62452 Elizabeth Kumbal, URS, St. Louis 314-743-4129 N. Miller, C. Kretzer			
TURNAROUND TIME (CALENDAR DAYS): ☒ STANDARD (4 DAYS) ☐ 8 DAYS ☐ 12 DAYS ☐ 24 HOURS ☐ EXACTLY NEEDED ON WEDNESDAY ☐ SA - FINISH REPORT FORMAT ☐ LIST ADDRESS: DELIVERABLE: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☐ LEVEL 4 ☐ OTHER (SPECIFY): _____		REQUESTED ANALYSIS: Turn Around Time: ☒ Normal ☐ Rush ☐ Speedy					
Field Sample Identification DATE TIME Container Number Initial Final Result Final (ppt) VMP-11-29-082511 06/25/11 1432 - 1436 2504 -30 -8.5 X X VMP-11-29-082511-Dup 06/25/11 1432 - 1436 3408 -30 -9 X X		ADDITIONAL NOTES: - 14 day hold time - Report results between MDL and RL - Level IV ECVP					
Signature: _____ Date: 8/25/11		Signature: _____ Date: 8/25/11		Signature: _____ Date: 8/25/11			

CUSTOMER SERVICE INTERACT