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:

3.0 OPERATOR INFORMATION

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

17 Junction Drive, PMB #399

Glen Carbon, IL 62034

Contact Name:

Kevin Dyer

Contact Title:

Principal Program Manager

Phone No.:

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):
2nd Quarter 2011 Soil Vapor Sampling Report
Date of Submittal July 15, 2011

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 2nd 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 2nd Quarter Soil Vapor Sampling Report, dated July 15, 2011

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.

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).

operator ~~Owner~~ Signature: Kevin S Dyer 7/14/11 (Date)

Title: Principal Program Manager

~~Operator Signature~~: _____ _____ (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 7/14/11 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

Professional's Seal:

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. Signature of Laboratory Responsible Officer 7/13/11 Date

Mailing Address of Laboratory
180 Blue Ravine Suite B
Folsom, CA 95630

Heidi Hayes, Vice President
Name and Title of Laboratory Responsible Officer

URS

July 15, 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 – 2nd Quarter 2011**
Roxana, Illinois
119115002 – Madison County
Equilon Enterprises LLC d/b/a Shell Oil Products US
Log No. B-43-CA-16 and 18

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 project manager, at kevin.dyer@shell.com (618/288-7237), or me at bob_billman@urscorp.com (314/743-4108).

Sincerely,

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
Eric Petersen, ConocoPhillips
David Webb, IDPH

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

REPORT

SOIL VAPOR SAMPLING – 2ND QUARTER 2011

Roxana, Illinois

Prepared for:

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

July 2011

URS Corporation
1001 Highlands Plaza Drive West, Suite 300
St. Louis, MO 63110
(314) 429-0100
Project 21562593.00008

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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 Illinois Route 111 and the west property boundary (aka West Fenceline) of the WRB Refining LLC Wood River Refinery (WRR) (**Figure 1**). The combined area is collectively referred to as the "Investigation Area" in this report. In addition, some limited investigation has been conducted inside the WRR; this work was conducted in cooperation with ConocoPhillips Company (ConocoPhillips).

SOPUS started investigating and delineating soil vapor in the above area with the installation, development, and sampling of 64 vapor monitoring ports (VMPs) at 16 vapor monitoring locations (VMP-1 through -16) as identified in a work plan dated January 21, 2009 and approved with conditions by Illinois Environmental Protection Agency (IEPA) on May 12, 2009. The results of the vapor investigation and delineation efforts were documented in the *Dissolved Phase Groundwater Investigation and P-60 Free Phase Product Delineation Report*, dated February 18, 2010. 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.

IEPA provided comments to the February 18, 2010 report in a letter to SOPUS dated August 5, 2010. In particular, Comment number 3 requires quarterly soil vapor sampling and reporting.

In addition, Comment number 2 describes 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 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 requires that quarterly soil vapor sampling continue at the 25 VMP locations and Comment number 9 requests an updated report which includes a discussion of the geology, extent of groundwater contamination, contaminated soil vapor distribution, and a summary of all available information. This information was included in the 1st Quarter 2011 report dated June 2011 (SOPUS, 2011).

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 1st Street (north), 8th Street (south), Chaffer Street (east) and Route 111 (Central Avenue) (west).

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 or 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.

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 generally begins at a depth of approximately 25 to 40 feet bgs (approximately elevation 403 to 406), as a result of the change in surface elevation. 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 between 1st Quarter 2007 and 2nd Quarter 2011, and approximately 4-5 feet between the 4th Quarter 2009 vapor sampling event and this event.

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.

A gauging event was conducted on April 4, 2011 to understand groundwater conditions with respect to the deepest vapor ports, as many of these ports have been submerged beneath the water table during previous events. **Figure 3** shows the groundwater potentiometric surface for the investigation area, indicating groundwater flow being influenced by the WRR pumping wells. The results of this gauging as compared to the deepest ports are presented in **Section 3.1**.

The 2nd Quarter 2011 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 2nd Quarter vapor sampling event field activities were conducted between April 5 and 28, 2011.

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 (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 2010 HASP*, dated March 2010, as prepared by URS. More information on site health and safety procedures is presented in **Section 3.3**.

3.1 VAPOR MONITORING POINT SAMPLING

The investigation area includes three separate areas: a portion of a residential area in the Village of Roxana; the Public Works Yard for the Village; and the adjoining portion of the WRR. The soil vapor sampling network currently consists of 25 vapor monitoring point (VMP) locations (see **Figure 2**). For the initial VMP locations (VMP-1 through VMP-19), ports are generally at four depths[1] throughout the subsurface. 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 2nd Quarter 2010, 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 - 3rd Quarter 2010 Report (SOPUS, 2010c).

- Data pertaining to canister ID, start and finish time, initial and final vacuum readings, purge volumes, and leak checks were recorded on the Soil Vapor Sampling – Canister Sampling Data field sheets, included in **Appendix A**. 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 on the Soil Vapor Sampling – Tedlar Sampling Data field sheet. These data sheets are included following the canister sampling data in **Appendix A**. Field measurements from this event and previous events are presented on **Table A-1** in

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

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. Teflon® tubing was connected directly to the monitoring port using compression ferrule connections. 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 pump[2]. 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").

[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).

- 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 ≥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.
- 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 (H_2S), carbon monoxide (CO), oxygen (O_2), and lower explosive limit (LEL) with a Multi-RAE gas meter; and for carbon dioxide (CO_2), methane (CH4), lower explosive limit (LEL), and oxygen (O_2) 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 ≥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 – Prior to sampling, groundwater gauging was conducted to evaluate groundwater elevations in relation to VMP screens. The gauging data are presented on **Table 1**. The groundwater contours created using the gauging data indicated that several of the deep ports were submerged beneath the water table, as shown on **Figure 3**. To confirm the submerged screens, purging was attempted at each of the deep ports with the 15 mL hand pump. Eleven ports held vacuum or produced water when purging was attempted with the hand pump indicating saturated screens.

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.

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 ensure that any dust particles or moisture inside the apparatus was removed.

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. 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. Previous report data were compared against Appendix B, Table G of Title 35 – Part 742.

3.4 DATA QUALITY REVIEW AND DATA MANAGEMENT

Laboratory data were provided in electronic form. Analytical data were independently reviewed and qualified by URS. A Level III review was performed on the analytical data. Evaluation of the data followed procedures outlined in the USEPA National Functional Guidelines for Superfund Organic Methods Data Review (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) are included in **Appendix B**.

For vapor sampling, a total of 89 samples (80 investigative and 9 field duplicates) were prepared and analyzed for VOCs (TO-15 analytes) and natural gases.

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.

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.

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 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:

Acetone	Isopropylbenzene
Benzene	*4-Methyl-2-pentanone*
Butane	2-Propanol
2-Butanone	n-Propylbenzne
Cyclohexane	Tetrachloroethene
Ethanol	*Tetrahydrofuran*
Ethylbenzene	Toluene
4-Ethyltoluene	1,2,4-Trimethylbenzne
Heptane	2,2,4-Trimethylpentane
Hexane	m,p-Xylene
Isopentane	o-Xylene

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. Constituents that do not have a screening value associated with them on **Table 2** are being tracked for changes in concentration. 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, 1,2-Dichloroethane, Tetrachloroethene, m,p-Xylenes and o-Xylene were the only TO-15 analytes which exceeded their relevant draft screening criteria for residential areas or commercial/industrial areas for the 2nd Quarter 2011. Therefore, benzene was selected as the key analyte to characterize soil vapor, in the paragraphs below.

Village

Benzene concentrations from locations within the Village ranged from non-detect (< 0.036 mg/m^3) (VMP-23-5) to 470 mg/m^3 (VMP-4-39). The results of screening for samples collected in the Village against draft residential screening criterion indicate that 14 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 4**.

Public Works Yard

Benzene concentrations from locations within the Public Works Yard ranged from <0.011 mg/m^3 (VMP-14-5) to 51,000 mg/m^3 (VMP-14-29). Samples from ports in five of the seven locations exceeded the 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 5**.

WRR

Benzene concentrations from the two locations within the WRR ranged from an estimated 3.1 mg/m^3 (VMP-16-19 duplicate) to 10,000 mg/m^3 (VMP-12-39). The results of screening for samples collected in the WRR exceeded the commercial/industrial screening criterion (2.8 mg/m^3) for benzene in the seven ports sampled during this sampling event. The cumulative results for benzene in soil vapor for samples collected in the WRR are depicted in **Figure 6**.

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.

4.2 CONCEPTUAL SITE MODEL

4.2.1 Vapor Intrusion

The primary concern for shallow soil gas is the potential intrusion through basement and/or building slabs. As a result, elevated hydrocarbon levels at greater depths are not directly significant. **Figure 7** 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

the recent 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 8** through **11** present a horizontal distribution of benzene at 5, 10, 25, and 38 feet bgs, respectively.

EVS Descriptions and Assumptions:

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 discreet 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.

More simply, if each soil boring location were represented by a tack pushed into the model's surface and a rubber band stretched around them, the model would be represented by the space inside the rubber band.

Vertical Cut-off – The bottom surface of this model is based on the 2nd Quarter 2011 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.

4.2.2 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)**. The thickness of free phase product as observed during gauging during the 2nd Quarter 2011 is presented in **Figure 13**.

Although multiple additional pipelines exist or have existed within the investigation area, information regarding specific releases is unavailable. Additional information regarding impacts from the refinery was included as part of the Soil Vapor Sampling – 1st Quarter 2011 (SOPUS, 2011).

URS conducted 2nd Quarter 2011 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 80 ports during the 2nd Quarter soil vapor sampling. Some of these locations coincide with areas of the highest 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 has been exceeded in 32 ports at 14 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 has been exceeded in 17 ports at 7 locations within and surrounding the Roxana Public Works Yard and the WRR.
- A full-scale soil vapor extraction system (SVE) design plan was submitted in early June 2011. 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, 2011); *Soil Vapor Sampling - 1st Quarter 2011 - Roxana, Illinois*; Prepared by URS Corporation (URS); dated June 2011.

URS Corporation (URS), 2010 (URS, 2010a); *Route 111/Rand Avenue Vicinity Investigation Health and Safety Plan – Roxana, Illinois*; dated August 2010.

URS Corporation (URS), 2010 (URS, 2010b); *ConocoPhillips Environmental and Geotechnical Work 2010 Health and Safety Plan – WRB Refining LLC Wood River Refinery*; dated March 2010.

US Environmental Protection Agency (USEPA), 2008; *Contract Laboratory Program National Functional Guidelines for Organic Methods Data Review*

See last page of table for notes.

TABLE 1
2Q11 "SNAPSHOT" GROUNDWATER GAUGING RESULTS

WELL ID	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)	SCREENED INTERVAL ELEVATION (ft MSL)	COMMENTS
MW-1	442.86	4/4/2011	NE	38.48	NA	NA	NA	404.38	399.45 - 384.45	*
MW-2	443.93	4/4/2011	NE	39.67	NA	NA	NA	404.26	396.74 - 381.74	*
MW-3	430.36	4/4/2011	NE	25.66	NA	NA	NA	404.70	399.38 - 384.38	*
MW-4	441.58	4/4/2011	NE	36.85	NA	NA	NA	404.73	398.95 - 383.95	*
MW-5	429.73	4/4/2011	NE	24.85	NA	NA	NA	404.88	398.60 - 383.60	*
MW-6A	432.42	4/4/2011	NE	26.99	NA	NA	NA	405.43	400.11 - 385.44	*
MW-6B	432.29	4/4/2011	NE	26.87	NA	NA	NA	405.42	368.74 - 363.74	*
MW-6C	432.11	4/4/2011	NE	26.66	NA	NA	NA	405.45	347.84 - 342.84	*
MW-6D	431.99	4/4/2011	NE	26.52	NA	NA	NA	405.47	327.82 - 322.82	*
MW-7	443.10	4/4/2011	NE	38.28	NA	NA	NA	404.82	400.18 - 390.18	*
MW-8	434.11	4/4/2011	NE	29.29	NA	NA	NA	404.82	400.51 - 390.51	*
MW-9	445.20	4/4/2011	NM	NM	NM	NM	NM	NM	399.17 - 389.17	*
MW-10	445.03	4/4/2011	NE	40.38	NA	NA	NA	404.65	401.14 - 391.14	*
MW-11	442.33	4/4/2011	NE	38.15	NA	NA	NA	404.18	401.08 - 391.08	*
MW-12	442.60	4/4/2011	NE	38.31	NA	NA	NA	404.29	401.91 - 391.91	*
MW-13	430.27	4/4/2011	NE	24.91	NA	NA	NA	405.36	405.22 - 395.22	*
GP-9-PZ	442.41	4/4/2011	NE	39.01	NA	NA	NA	403.40	404.81 - 394.81	
ROST-3-PZ	442.29	4/4/2011	NE	38.33	NA	NA	NA	403.96	404.18 - 379.18	*
ROST-4-PZ	442.27	4/4/2011	NE	37.67	NA	NA	NA	404.60	402.29 - 392.29	*
P-52	444.25	4/4/2011	NE	36.81	NA	NA	NA	407.44	409.25 - 384.25	
P-53	446.23	4/4/2011	NE	40.05	NA	NA	NA	406.18	407.73 - 382.73	
P-54	442.18	4/4/2011	NE	38.13	NA	NA	NA	404.05	404.18 - 397.18	
P-55	445.95	4/4/2011	NE	41.91	NA	NA	NA	404.04	405.50 - 380.50	
P-56	446.02	4/4/2011	NE	42.32	NA	NA	NA	403.70	405.84 - 380.84	
P-57	446.53	4/4/2011	NE	42.06	NA	NA	NA	404.47	406.07 - 381.07	
P-58	444.92	4/4/2011	NE	39.94	NA	NA	NA	404.98	404.70 - 379.70	*
P-59	446.78	4/4/2011	43.40	43.41	403.37	403.38	0.01	403.38		
P-60	446.57	4/4/2011	42.94	43.40	403.17	403.63	0.46	403.51	398.61 - 378.61	*
P-60-11	446.18	4/4/2011	NE	42.40	NA	NA	NA	403.78	393.08 - 378.08	*
P-60-12	443.31	4/4/2011	NE	39.87	NA	NA	NA	403.44	383.31 - 373.31	*
P-60-13	442.43	4/4/2011	38.85	39.65	402.78	403.58	0.80	403.37	402.43 - 382.43	*
P-61	444.27	4/4/2011	NE	41.03	NA	NA	NA	403.24	398.59 - 373.59	*
P-62	442.32	4/4/2011	NE	38.28	NA	NA	NA	404.04	400.85 - 375.85	*
P-63	445.75	4/4/2011	NE	41.06	NA	NA	NA	404.69	398.46 - 373.46	*
P-64	446.52	4/4/2011	41.80	41.88	404.64	404.72	0.08	404.70	399.29 - 374.29	*
P-65	444.53	4/4/2011	NE	38.92	NA	NA	NA	405.61	396.91 - 371.91	*
P-66	436.70	4/4/2011	NE	31.56	NA	NA	NA	405.14	401.98 - 376.98	*
P-68	445.07	4/4/2011	41.65	41.75	403.32	403.42	0.10	403.39	399.81 - 374.81	*
P-69	443.18	4/4/2011	NE	40.21	NA	NA	NA	402.97	402.36 - 377.36	*
P-70	442.83	4/4/2011	39.30	39.32	403.51	403.53	0.02	403.52	398.16 - 373.16	*
P-71	444.83	4/4/2011	NE	39.51	NA	NA	NA	405.32	402.22 - 377.22	*
P-72	444.43	4/4/2011	NE	38.83	NA	NA	NA	405.60	398.66 - 373.66	*
P-73	443.76	4/4/2011	NE	39.21	NA	NA	NA	404.55	402.17 - 377.17	*
P-74	442.63	4/4/2011	NE	39.33	NA	NA	NA	403.30	398.20 - 373.20	*
P-75	446.32	4/4/2011	NE	41.10	NA	NA	NA	405.22	403.19 - 378.19	*

See last page of table for notes.

TABLE 1
2Q11 "SNAPSHOT" GROUNDWATER GAUGING RESULTS

WELL ID	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)	SCREENED INTERVAL ELEVATION (ft MSL)	COMMENTS
P-93A	446.58	4/4/2011	NE	41.92	NA	NA	NA	404.66	398..41 - 383.41	*
P-93B	446.46	4/4/2011	NE	41.84	NA	NA	NA	404.62	372.44 - 370.44	*
P-93C	446.51	4/4/2011	NE	41.87	NA	NA	NA	404.64	352.26 - 350.26	*
P-93D	446.36	4/4/2011	NE	41.99	NA	NA	NA	404.37	320.92 - 318.92	*
P-114	432.41	4/4/2011	NE	27.22	NA	NA	NA	405.19	399.73 - 379.73	*
P-115	433.31	4/4/2011	NE	28.05	NA	NA	NA	405.26	401.39 - 381.39	*
P-116	436.45	4/4/2011	NE	31.49	NA	NA	NA	404.96	399.01 - 379.01	*
P-117	432.67	4/4/2011	NE	27.77	NA	NA	NA	404.90	399.92 - 379.92	*
P-118	431.32	4/4/2011	NE	26.71	NA	NA	NA	404.61	400.20 - 384.27	*
P-119	431.92	4/4/2011	NE	26.28	NA	NA	NA	405.64	402.19 - 386.26	*
S-1	443.79	4/4/2011	38.66	38.70	405.09	405.13	0.04	405.12		
T-2	443.13	4/4/2011	NE	38.26	NA	NA	NA	404.87	392.63 - 372.48	*
T-3	450.91	4/4/2011	NE	46.41	NA	NA	NA	404.50	403.65 - 388.65	*
T-5	443.46	4/4/2011	NM	NM	NM	NM	NM	NM	395.13 - 378.58	*
T-6	446.55	4/4/2011	NE	42.13	NA	NA	NA	404.42	394.79 - 380.54	*
T-12	444.49	4/4/2011	NE	41.66	NA	NA	NA	402.83	398.54 - 372.54	*
T-13	443.46	4/4/2011	NE	38.52	NA	NA	NA	404.94	396.46 - 370.46	*
T-15	445.03	4/4/2011	NE	39.81	NA	NA	NA	405.22	396.99 - 370.99	*
T-24	443.72	4/4/2011	40.15	40.16	403.56	403.57	0.01	403.57		
T-62	431.73	4/4/2011	NE	25.97	NA	NA	NA	405.76	412.33 - 382.33	
T-63	431.24	4/4/2011	NE	25.67	NA	NA	NA	405.57	411.26 - 381.26	
T-64	428.80	4/4/2011	NM	NM	NM	NM	NM	NM	409.99 - 379.99	

NOTES:

1) The Corrected W.L. Elevations presented in this table were corrected by a specific gravity of 0.74 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; **NM** = Not Measured

4) * Indicates that the product and/or water level is above the top of the screened zone of the well.

See last page of table for notes.

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
1,1,2,2-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
Trichloroflouromethane	860	5,600
1,2,4-Trimethylbenzene		

See last page of table for notes.

TABLE 2
SOIL VAPOR SCREENING CRITERIA

Chemical	Residential (mg/m^3)	Industrial/ Commercial (mg/m^3)
TO-15 Analytes		
1,3,5-Trimethylbenzene		
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
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS - VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Acetone			Benzene			Bromodichloromethane			Bromomethane			1,3-Butadiene			Butane			2-Butanone			Carbon disulfide			Carbon tetrachloride		
				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	Result (mg/m^3)	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		<0.75	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		<0.027	U	
		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		<0.032	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		<0.64	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		<0.0083	U	
	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		<1	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		<0.081	U	
		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		<0.016	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		<0.016	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		<1.2	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		<0.011	U	
	23.5 ft	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		<2.5	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		<2.8	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		0.0013	J	
		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		<7.3	U	
		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		<12	U	
		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		<15	U	
	38.5 ft	VMP-1-38.5	11/2/2009	<11	U		3.8			<7.5	U		<4.3	U		420						<3.3	U		<3.5	U		<7	U	
VMP-2	5 ft	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		<0.92	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		<2.8	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		<4.2	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		<1.1	U	
		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		<0.0087	U	
	8.5 ft	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		<0.32	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		<0.34	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		<2.9	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		<7.9	U	
		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		<2.7	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		0.12	J	J
	22 ft	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		<1.8	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		<4.4	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		<8.3	U	
		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		<3.7	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		<11	U	
	42 ft	VMP-2-42	11/3/2009	<52	U		84			<37	U		<21	U		<12	U					<16	U		<17	U		<35	U	
VMP-3	5 ft	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		<0.034	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		<8.4	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		3.7	J	
		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		<3.8	U	
		VMP-3-5-041411	4/14/2011	<62	U		<21	U		<44	U		<25	U		<14	U		9600			<77	U		<20	U		<41	U	
	10 ft	VMP-3-10	6/21/2010	<14	U		8.6			<10	U		<5.9	U		<3.4	U					<4.5	U		<4.7	U		<9.5	U	
		VMP 3-10-091010	9/10/2010	8.9	J		14			<28	U		<16	U		<9.4	U					<12	U		<13	U		<27	U	
		VMP-3-10-092010	9/20/2010	<29	U		9	J		<21	U		<12	U		<6.8	U					<9.1	U		<9.6	U		<20	U	
		VMP-3-10-112210	11/22/2010	<12	U		18			<8.8	U		<5.1	U		<2.9	U					<3.9	U		<4.1	U		<8.3	U	
		VMP-3-10-112210-Dup	11/22/2010	<17	U		15			<12	U		<7.1	U		<4.1	U					<5.4	U		<5.7	U		<12	U	
		VMP-3-10-020811	2/8/2011	6.7	J		13			<13	U		<7.5	U		<4.3	U					<5.7	U		<6	U		<12	U	
		VMP-3-10-041311	4/13/2011	<110	U		<36	U		<75	U		<44	U		<25	U		19000			<130	U		<35	U		<71	U	
	22 ft	VMP-3-22	11/4/2009	<37	U		52			<26	U		<15	U		<8.6	U					<11	U		<12	U		<24	U	
		VMP-3-22-092010	9/20/2010	<39	U		34			<27	U		<16	U		<9	U					<12	U		<13	U		<26	U	
		VMP-3-22-112210	11/22/2010	<44	U		36			<31	U		<18	U		<10	U					<14	U		<14	U		<29	U	
		VMP-3-22-020811	2/8/2011	14	J		26			<15	U		<8.9	U		<5.1	U					<6.8	U		<7.1	U		<14	U	
		VMP-3-22-041511	4/15/2011	<120	U		26	J		<83	U		<48	U		<27	U		24000			<150	U		<39	U		<78	U	
	31.5 ft	VMP-3-31.5	11/4/2009	<59	U		240			<42	U		<24	U		<14	U					<18	U		<19	U		<39	U	
		VMP-3-31.5-090910	9/9/2010	<72	U		210			<51	U		<30	U		<17	U					<22	U		<24	U		<48	U	
		VMP-3-31.5-112210	11/22/2010	<50	U		180			<36	U		<20	U		<12	U					<16	U		<16	U		<33	U	
		VMP-3-31.5-020911	2/9/2011	<48	U		100			<34	U		<20	U		<11	U					<15	U		<16	U		<32	U	
		VMP-3-31.5-041411	4/14/2011	<400	U		100	J		<280	U		<160	U		<92	U		68000			<490	U		<130	U		<260	U	
		VMP-3-31.5-041411-DUP	4/14/2011	<400	U		89	J		<280	U		<160	U		<92	U		63000			<490	U		<130	U		<260	U	
	39 ft	VMP-3-39	11/4/2009	<120	U		240			<83	U		<48	U		<27	U					<36	U		<38	U		<78	U	
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		<0.08	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		<0.45	U	
		VMP-4-5-112210	11/22/2010	<26	U		41			<18	U		<10	U		<6	U					<7.9	U		<8.4	U		<17	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		<0.99	U	
		VMP-4-5-041911	4/19/2011	<69	U		22	J		<48	U		<28	U		<16	U		7000			<86	U		<22	U		<46	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		<1.3	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		<7.9	U	
		VMP-4-12-112310	11/23/2010	<12	U		15			<8.6	U		<5	U		<2.8	U					<3.8	U		<4	U		<8.1	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		<2	U	
		VMP-4-12-041911	4/19/2011	<59	U		38			<42	U		<24	U		<14	U		7200			<74	U		<19	U		<39	U	
	23.5 ft	VMP-4-23.5	11/5/2009	<92	U		540			<65	U		<38	U		<21	U					<29	U		<30	U		<61	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		<9.1	U	
		VMP-4-23.5-112310	11/23/2010	<140	U		510			<97	U		<56	U		<32	U					<43	U		<45	U		<92	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		<3.3	U	
		VMP-4-23.5-042011	4/20/2011	<320	U		440			<220	U		<130	U		<74	U		72000			<400	U		<100	U		<210	U	
		VMP-4-23.5-042011-DUP	4/20/2011	58	J		410			<220	U		<130	U		<74	U		70000			<400	U		<100	U		<210	U	
	39 ft	VMP-4-39	11/5/2009	<71	U		660			<50	U		<29	U		<16	U					<22	U		<23	U		<47	U	
		VMP-4-39-042111	4/21/2011	<400	U		470			<280	U		<160	U		<93	U		69000			<500	U		<130	U		<260	U	

See last page of table for notes.

TABLE 3
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			alpha-Chlorotoluene			Cyclohexane			1,2-Dibromoethane			1,2-Dichlorobenzene		
				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	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-1	5 ft	VMP-1-5	11/2/2009	<0.55	U		<1	U		<0.31	U		<0.58	U		<0.98	U		<0.62	U		18			<0.91	U		<0.72	U	
		VMP-1-5-082510	8/25/2010	<0.02	U		<0.036	U		<0.011	U		<0.021	U		<0.035	U		<0.022	U		0.02			<0.033	U		<0.026	U	
		VMP-1-5-111710	11/17/2010	<0.024	U		<0.044	U		<0.014	U		<0.025	U		<0.042	U		<0.027	U		0.14			<0.04	U		<0.031	U	
		VMP-1-5-020411	2/4/2011	<0.46	U		<0.86	U		<0.27	U		<0.49	U		<0.83	U		<0.52	U		8.1			<0.78	U		<0.61	U	
		VMP-1-5-041211	4/12/2011	<0.0061	J	U	0.0023	J		<0.014	U		<0.0064	U		<0.011	U		<0.0068	U		0.21			<0.01	U		<0.0079	U	
	8.5 ft	VMP-1-8.5	11/2/2009	<0.75	U		<1.4	U		<0.43	U		<0.8	U		<1.4	U		<0.85	U		14			<1.2	U		<0.98	U	
		VMP-1-8.5-082510	8/25/2010	<0.059	U		<0.11	U		<0.034	U		<0.063	U		<0.11	U		<0.066	U		<0.044	U		<0.099	U		<0.077	U	
		VMP-1-8.5-111710	11/17/2010	<0.011	U		<0.021	U		<0.0065	U		<0.012	U		<0.02	U		<0.013	U		0.043			<0.019	U		<0.015	U	
		VMP-1-8.5-111710-Dup	11/17/2010	<0.011	U		<0.021	U		<0.0065	U		<0.012	U		<0.02	U		<0.013	U		0.034			<0.019	U		<0.015	U	
		VMP-1-8.5-020411	2/4/2011	<0.91	U		<1.7	U		<0.52	U		<0.97	U		<1.6	U		<1	U		9.2			<1.5	U		<1.2	U	
		VMP-1-8.5-041211	4/12/2011	<0.008	J	U	<0.015	U		<0.018	U		<0.0085	U		<0.014	U		<0.009	U		0.067			<0.013	U		<0.01	U	
	23.5 ft	VMP-1-23.5	11/2/2009	<1.8	U		<3.4	U		<1	U		<1.9	U		<3.3	U		<2	U		66			<3	U		<2.4	U	
		VMP-1-23.5-083010	8/30/2010	<2.1	U		<3.8	U		<1.2	U		<2.2	U		<3.7	U		<2.3	U		130			<3.4	U		<2.7	U	
		VMP-1-23.5-111810	11/17/2010	<0.0057	U		<0.01	U		<0.0032	U		0.00066	J		<0.01	U		<0.0064	U		0.0082			<0.0095	U		<0.0074	U	
		VMP-1-23.5-020411	2/4/2011	<5.4	U		<9.9	U		<3.1	U		<5.7	U		<9.6	U		<6	U		150			<9	U		<7	U	
		VMP-1-23.5-041211	4/12/2011	<8.7	U		<16	U		4.4	J		<9.3	U		<16	U		<9.8	U		3.2	J		<15	U		<11	U	
		VMP-1-23.5-041211-DUP	4/12/2011	<11	U		<20	U		<25	U		<12	U		<20	U		<12	U		5.3	J		<18	U		<14	U	
	38.5 ft	VMP-1-38.5	11/2/2009	<5.2	U		<9.5	U		<3	U		<5.5	U		<9.2	U		<5.8	U		380			<8.6	U		<6.7	U	
VMP-2	5 ft	VMP-2-5	11/2/2009	<0.67	U		<1.2	U		<0.38	U		<0.71	U		<1.2	U		<0.75	U		8			<1.1	U		<0.87	U	
		VMP-2-5-083110	8/31/2010	<2.1	U		<3.8	U		<1.2	U		<2.2	U		<3.7	U		<2.3	U		28			<3.4	U		<2.7	U	
		VMP-2-5-111610	11/16/2010	<3	U		<5.6	U		<1.7	U		<3.2	U		<5.4	U		<3.4	U		<2.3	U		<5.1	U		<4	U	
		VMP-2-5-020411	2/4/2011	<0.79	U		<1.5	U		<0.46	U		<0.84	U		<1.4	U		<0.89	U		4.9			<1.3	U		<1	U	
		VMP-2-5-041311	4/13/2011	<0.0064	J	U	<0.012	U		<0.015	U		<0.0068	U		<0.011	U		<0.0072	U		0.044			<0.011	U		<0.0084	U	
	8.5 ft	VMP-2-8.5	11/3/2009	<0.23	U		<0.43	U		<0.13	U		<0.25	U		<0.42	U		<0.26	U		0.24			<0.39	U		<0.31	U	
		VMP-2-8.5-D	11/3/2009	<0.25	U		<0.46	U		<0.14	U		<0.26	U		<0.45	U		<0.28	U		0.29			<0.41	U		<0.32	U	
		VMP-2-8.5-083110	8/31/2010	<2.1	U		<3.9	U		<1.2	U		<2.2	U		<3.8	U		<2.4	U		57			<3.5	U		<2.8	U	
		VMP-2-8.5-111610	11/16/2010	<5.8	U		<11	U		<3.3	U		<6.2	U		<10	U		<6.5	U		<4.3	U		<9.7	U		<7.6	U	
		VMP-2-8.5-020411	2/4/2011	<2	U		<3.7	U		<1.1	U		<2.1	U		<3.6	U		<2.2	U		9.6			<3.3	U		<2.6	U	
		VMP-2-8.5-041311	4/13/2011	0.098	J		<1.1	U		<1.4	U		0.11	J		<1.1	U		<0.68	U		0.14	J		<1	U		<0.79	U	
	22 ft	VMP-2-22	11/3/2009	<1.3	U		<2.4	U		<0.74	U		<1.4	U		<2.3	U		<1.4	U		11			<2.2	U		<1.7	U	
		VMP-2-22-083110	8/31/2010	<3.2	U		<6	U		<1.9	U		<3.4	U		<5.8	U		<3.6	U		81			<5.4	U		<4.2	U	
		VMP-2-22-111610	11/16/2010	<6.1	U		<11	U		<3.5	U		<6.4	U		<11	U		<6.8	U		<4.5	U		<10	U		<7.9	U	
		VMP-2-22-020411	2/4/2011	<2.7	U		<5.1	U		<1.6	U		<2.9	U		<4.9	U		<3.1	U		29			<4.6	U		<3.6	U	
		VMP-2-22-041311	4/13/2011	0.89	J		<15	U		<18	U		<8.5	U		<14	U		<9	U		4.2	J		<13	U		<10	U	
	42 ft	VMP-2-42	11/3/2009	<25	U		<47	U		<14	U		<27	U		<45	U		<28	U		920			<42	U		<33	U	
VMP-3	5 ft	VMP-3-5	11/3/2009	<0.025	U		<0.046	U		<0.014	U		<0.026	U		<0.045	U		<0.028	U		0.23			<0.041	U		<0.032	U	
		VMP-3-5-090910	9/9/2010	<6.1	U		<11	U		<3.5	U		<6.5	U		<11	U		<6.9	U		210			<10	U		<8	U	
		VMP-3-5-112210	11/22/2010	<6.2	U		<11	U		<3.5	U		<6.6	U		<11	U		<7	U		340			<10	U		<8.1	U	
		VMP-3-5-020911	2/9/2011	<2.8	U		<5.2	U		<1.6	U		<3	U		<5	U		<3.1	U		77			<4.6	U		<3.6	U	
		VMP-3-5-041411	4/14/2011	<30	U		<55	U		<69	U		<32	U		<54	U		<34	U		210			<50	U		<39	U	
	10 ft	VMP-3-10	6/21/2010	<7	U		<13	U		<4	U		<7.4	U		<12	U		<7.8	U		1000			<12	U		<9.1	U	
		VMP 3-10-091010	9/10/2010	<20	U		<36	U		<11	U		<21	U		<35	U		<22	U		970			<33	U		<26	U	
		VMP-3-10-092010	9/20/2010	<14	U		<26	U		<8.2	U		<15	U		<26	U		<16	U		840			<24	U		<19	U	
		VMP-3-10-112210	11/22/2010	<6.1	U		<11	U		<3.5	U		<6.4	U		<11	U		<6.8	U		1300			<10	U		<7.9	U	
		VMP-3-10-112210-Dup	11/22/2010	<8.5	U		<16	U		<4.8	U		<9	U		<15	U		<9.5	U		1100			<14	U		<11	U	
		VMP-3-10-020811	2/8/2011	<8.9	U		<16	U		<5.1	U		<9.5	U		<16	U		<10	U		930			<15	U		<12	U	
		VMP-3-10-041311	4/13/2011	<52	U		<96	U		<120	U		<55	U		<93	U		<58	U		570			<86	U		<68	U	
	22 ft	VMP-3-22	11/4/2009	<18	U		<33	U		<10	U		<19	U		<32	U		<20	U		980			<30	U		<23	U	
		VMP-3-22-092010	9/20/2010	<19	U		<35	U		<11	U		<20	U		<34	U		<21	U		1100			<31	U		<24	U	
		VMP-3-22-112210	11/22/2010	<21	U		<40	U		<12	U		<23	U		<38	U		<24	U		1300			<36	U		<28	U	
		VMP-3-22-020811	2/8/2011	<10	U		<20	U		<6	U		<11	U		<19	U		<12	U		890			<18	U		<14	U	
		VMP-3-22-041511	4/15/2011	<57	U		<100	U		<130	U		<60	U		<100	U		<64	U		760			<95	U		<74	U	
	31.5 ft	VMP-3-31.5	11/4/2009	<28	U		<53	U		<16	U		<30	U		<51	U		<32	U		920			<48	U		<37	U	
		VMP-3-31.5-090910	9/9/2010	<35	U		<65	U		<20	U		<37	U		<63	U		<39	U		1100			<58	U		<46	U	
		VMP-3-31.5-112210	11/22/2010	<24	U		<45	U		<14	U		<26	U		<44	U		<27	U		1400			<41	U		<32	U	
		VMP-3-31.5-020911	2/9/2011	<23	U		<43	U		<13	U		<25	U		<42	U		<26	U		1000			<39	U		<30	U	
		VMP-3-31.5-041411	4/14/2011	<190	U		<350	U		<440	U		<200	U		<340	U		<220	U		910			<320	U		<250	U	
		VMP-3-31.5-041411-DUP	4/14/2011	<190	U		<350	U		<440	U		<200	U		<340	U		<220	U		830			<320	U		<250	U	
	39 ft	VMP-3-39	11/4/2009	<57	U		<100	U		<32	U		<60	U		<100	U		<64	U		790			<95	U		<74	U	
VMP-4	5 ft	VMP-4-5	11/5/2009	<0.058	U		<0.11	U		<0.033	U		<0.062	U		<0.1	U		<0.065	U		5.7			<0.097	U		<0.076	U	
		VMP-4-5-082510	8/25/2010	<0.33	U		<0.61	U		<0.19	U		<0.35	U		<0.59	U		<0.37	U		40			<0.55	U		<0.43	U	
		VMP-4-5-112210	11/22/2010	<12	U		<23	U		<7.1	U		<13	U		<22	U		<14	U		1200			<21	U		<16	U	
		VMP-4-5-021411	2/14/2011	<0.72	U		<1.3	U		<0.42	U		<0.77	U		<1.3	U		<0.82	U		120			<1.2	U		<0.95	U	
		VMP-4-5-041911	4/19/2011	<33	U		<62	U		<76	U		<35	U		<60	U		<38	U		770			<56	U		<44	U	
	12 ft	VMP-4-12	11/5/2009	<0.97	U		<1.8	U		<0.56	U		<1	U		<1.7	U		<1.1	U		170			<1.6	U		<1.3	U	
		VMP-4-12-082510	8/25/2010	<5.8	U		<11	U		<3.3	U		<6.2	U		<10	U		<6.5	U		880			<9.7	U		<7.6	U	
		VMP-4-12-112310	11/23/2010	<5.9	U		<11	U		<3.4	U		<6.3	U		<11	U		<6.7	U		760			<9.9	U		<7.8	U	
		VMP-4-12-021411	2/14/2011	<1.5	U		<2.8	U		<0.85	U		<1.6	U		<2.7	U		<1.7	U		280			<2.5	U		<1.9	U	
		VMP-4-12-041911	4/19/2011	<29	U		<53	U		<66	U		<30	U		<52	U		<32	U		860			<48	U		<38	U	
	23.5 ft	VMP-4-23.5	11/5/2009	<45	U		<83	U		<26	U		<47	U		<80	U		<50	U		2500			<74	U		<58	U	
		VMP-4-23.5-083110	8/31/2010	<6.6	U		<12	U		<3.8	U		<7	U		<12	U		<7.5	U		3000		J	<11	U		<8.7	U	
		VMP-4-23.5-112310	11/23/2010	<67	U		<120	U		<38	U		<71	U		<120	U		<75	U		2900			<110	U		<87	U	
		VMP-4-23.5-021411	2/14/2011	<2.4	U		<4.5	U		<1.4	U		<2.6	U		<4.4	U		<2.7	U		1700		J	<4.1	U		<3.2	U	
		VMP-4-23.5-042011	4/20/2011	<160	U		<290	U		<360	U		<160	U		<280	U		<170	U		2600			<260	U		<200	U	
		VMP-4-23.5-042011-DUP	4/20/2011	<160	U		<290	U		<360	U		<160	U		<280	U		<170	U		2400			<260	U		<200	U	
	39 ft	VMP-4-39	11/5/2009	<34	U		<63	U		<20	U		<36	U		<62	U		<38	U		2400			<57	U		<45	U	
		VMP-4-39-042111	4/21/2011	<190	U		<360	U		<440	U		<200	U		<350	U		<220	U		2400			<320	U		<250	U	

See last page of table for notes.

TABLE 3
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,3-Dichlorobenzene			1,4-Dichlorobenzene			Dichlorodifluoromethane			1,2-Dichloroethane			1,1-Dichloroethene			Dichloromethane (Methylene chloride)			1,2-Dichloropropane			1,4-Dioxane			Ethanol		
				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	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-1	5 ft	VMP-1-5	11/2/2009	<0.72	U		<0.72	U		<0.59	U		<0.48	U		<0.47	U		<0.41	U		<0.55	U		<1.7	U		<0.9	U	
		VMP-1-5-082510	8/25/2010	<0.026	U		<0.026	U		0.0028	J		<0.017	U		<0.017	U		<0.015	U		<0.02	U		0.015	J		0.03	J	
		VMP-1-5-111710	11/17/2010	<0.031	U		<0.031	U		<0.025	U		<0.021	U		<0.02	U		<0.018	U		<0.024	U		<0.074	U		0.0087	J	
		VMP-1-5-020411	2/4/2011	<0.61	U		<0.61	U		<0.5	U		<0.41	U		<0.4	U		<0.35	U		<0.47	U		<1.4	U		<0.76	U	
		VMP-1-5-041211	4/12/2011	<0.0079	U		<0.0079	J	U	0.002	J		<0.0053	U		<0.0052	U		0.0012	J		<0.0061	U		<0.019	U		<0.0099	U	
	8.5 ft	VMP-1-8.5	11/2/2009	<0.98	U		<0.98	U		<0.81	U		<0.66	U		<0.65	U		<0.57	U		<0.76	U		<2.4	U		<1.2	U	
		VMP-1-8.5-082510	8/25/2010	<0.077	U		<0.077	U		<0.064	U		<0.052	U		<0.051	U		<0.045	U		<0.059	U		<0.18	U		<0.097	U	
		VMP-1-8.5-111710	11/17/2010	<0.015	U		<0.015	U		0.0023	J		<0.01	U		<0.0098	U		<0.0086	U		<0.011	U		<0.036	U		0.011	J	
		VMP-1-8.5-111710-Dup	11/17/2010	<0.015	U		<0.015	U		0.0024	J		<0.01	U		<0.0098	U		<0.0086	U		<0.011	U		<0.036	U		0.009	J	
		VMP-1-8.5-020411	2/4/2011	<1.2	U		<1.2	U		<0.98	U		<0.8	U		<0.79	U		<0.69	U		<0.92	U		<2.9	U		2.1		
		VMP-1-8.5-041211	4/12/2011	<0.01	U		<0.01	J	U	0.002	J		0.0012	J		<0.0069	U		<0.006	U		<0.008	U		<0.025	U		<0.013	J	U
	23.5 ft	VMP-1-23.5	11/2/2009	<2.4	U		<2.4	U		<2	U		<1.6	U		<1.6	U		<1.4	U		<1.8	U		<5.7	U		<3	U	
		VMP-1-23.5-083010	8/30/2010	<2.7	U		<2.7	U		<2.2	U		<1.8	U		<1.8	U		<1.6	U		<2.1	U		<6.5	U		<3.4	U	
		VMP-1-23.5-111810	11/17/2010	<0.0074	U		<0.0074	U		0.0023	J		<0.005	U		<0.0049	U		0.00074	J		0.0014	J		<0.018	U		0.0087	J	
		VMP-1-23.5-020411	2/4/2011	<7	U		<7	U		<5.8	U		<4.7	U		<4.6	U		<4	U		<5.4	U		<17	U		<8.8	U	
		VMP-1-23.5-041211	4/12/2011	<11	U		<11	U		<9.4	U		<7.7	U		<7.5	U		2.6	J		<8.8	U		<27	U		4.9	J	
		VMP-1-23.5-041211-DUP	4/12/2011	<14	U		<14	U		<12	U		<9.7	U		<9.5	U		1.5	J		<11	U		<34	U		<18	U	
	38.5 ft	VMP-1-38.5	11/2/2009	<6.7	U		<6.7	U		<5.5	U		<4.5	U		<4.4	U		<3.9	U		<5.2	U		<16	U		<8.4	U	
VMP-2	5 ft	VMP-2-5	11/2/2009	<0.87	U		<0.87	U		<0.72	U		<0.59	U		<0.58	U		<0.5	U		<0.67	U		<2.1	U		<1.1	U	
		VMP-2-5-083110	8/31/2010	<2.7	U		<2.7	U		<2.2	U		<1.8	U		<1.8	U		<1.6	U		<2.1	U		<6.5	U		<3.4	U	
		VMP-2-5-111610	11/16/2010	<4	U		<4	U		<3.3	U		<2.7	U		<2.6	U		<2.3	U		<3	U		<9.5	U		<5	U	
		VMP-2-5-020411	2/4/2011	<1	U		<1	U		<0.85	U		<0.7	U		<0.68	U		<0.6	U		<0.8	U		<2.5	U		<1.3	U	
		VMP-2-5-041311	4/13/2011	<0.0084	U		<0.0084	J	U	0.0022	J		<0.0056	U		<0.0055	U		0.00083	J		<0.0064	U		<0.02	U		0.0071	J	
	8.5 ft	VMP-2-8.5	11/3/2009	<0.31	U		<0.31	U		<0.25	U		<0.21	U		<0.2	U		<0.18	U	UJ	<0.24	U		<0.74	U		<0.38	U	
		VMP-2-8.5-D	11/3/2009	<0.32	U		<0.32	U		<0.27	U		<0.22	U		<0.21	U		<0.19	U	UJ	<0.25	U		<0.78	U		<0.41	U	
		VMP-2-8.5-083110	8/31/2010	<2.8	U		<2.8	U		<2.3	U		<1.9	U		<1.8	U		<1.6	U		<2.1	U		<6.6	U		<3.5	U	
		VMP-2-8.5-111610	11/16/2010	<7.6	U		<7.6	U		<6.2	U		<5.1	U		<5	U		<4.4	U		<5.8	U		<18	U		<9.5	U	
		VMP-2-8.5-020411	2/4/2011	<2.6	U		<2.6	U		<2.1	U		<1.7	U		<1.7	U		<1.5	U		<2	U		<6.2	U		<3.2	U	
		VMP-2-8.5-041311	4/13/2011	<0.79	U		<0.79	U		<0.65	U		0.1	J		0.076	J		<0.46	U		<0.61	U		<1.9	U		<0.99	U	
	22 ft	VMP-2-22	11/3/2009	<1.7	U		<1.7	U		<1.4	U		<1.1	U		<1.1	U		<0.97	U		<1.3	U		<4	U		<2.1	U	
		VMP-2-22-083110	8/31/2010	<4.2	U		<4.2	U		<3.5	U		<2.8	U		<2.8	U		<2.4	U		<3.2	U		<10	U		<5.3	U	
		VMP-2-22-111610	11/16/2010	<7.9	U		<7.9	U		<6.5	U		<5.3	U		<5.2	U		<4.6	U		<6.1	U		<19	U		<9.9	U	
		VMP-2-22-020411	2/4/2011	<3.6	U		<3.6	U		<2.9	U		<2.4	U		<2.4	U		<2.1	U		<2.7	U		<8.6	U		<4.5	U	
		VMP-2-22-041311	4/13/2011	<10	U		<10	U		<8.6	U		<7.1	U		<6.9	U		<6.1	U		<8.1	U		<25	U		<13	U	
	42 ft	VMP-2-42	11/3/2009	<33	U		<33	U		<27	U		<22	U		<22	U		<19	U		<25	U		<79	U		<41	U	UJ
VMP-3	5 ft	VMP-3-5	11/3/2009	<0.032	U		<0.032	U		<0.027	U		<0.022	U		<0.021	U		<0.019	U	UJ	<0.025	U		<0.078	U		<0.041	U	
		VMP-3-5-090910	9/9/2010	<8	U		<8	U		<6.6	U		<5.4	U		<5.3	U		<4.6	U		<6.1	U		<19	U		<10	U	
		VMP-3-5-112210	11/22/2010	<8.1	U		<8.1	U		<6.6	U		<5.4	U		<5.3	U		14			<6.2	U		<19	U		<10	U	
		VMP-3-5-020911	2/9/2011	<3.6	U		<3.6	U		<3	U		<2.4	U		<2.4	U		<2.1	U		<2.8	U		<8.7	U		<4.6	U	
		VMP-3-5-041411	4/14/2011	<39	U		<39	U		<32	U		<26	U		<26	U		<22	U		<30	U		<94	U		<49	U	
	10 ft	VMP-3-10	6/21/2010	<9.1	U		<9.1	U		<7.5	U		<6.1	U		<6	U		<5.3	U		<7	U		<22	U		<11	U	
		VMP 3-10-091010	9/10/2010	<26	U		<26	U		<21	U		<17	U		<17	U		<15	U		<20	U		<61	U		<32	U	
		VMP-3-10-092010	9/20/2010	<19	U		<19	U		<15	U		<12	U		<12	U		<11	U		<14	U		<45	U		<23	U	
		VMP-3-10-112210	11/22/2010	<7.9	U		<7.9	U		<6.5	U		<5.3	U		<5.2	U		<4.6	U		<6.1	U		<19	U		<9.9	U	
		VMP-3-10-112210-Dup	11/22/2010	<11	U		<11	U		<9.1	U		<7.4	U		<7.3	U		<6.4	U		<8.5	U		<26	U		<14	U	
		VMP-3-10-020811	2/8/2011	<12	U		<12	U		<9.6	U		<7.8	U		<7.7	U		<6.7	U		<9	U		<28	U		<15	U	
		VMP-3-10-041311	4/13/2011	<68	U		<68	U		<56	U		<46	U		<45	U		<39	U		<52	U		<160	U		<85	U	
	22 ft	VMP-3-22	11/4/2009	<23	U		<23	U		<19	U		<16	U		<15	U		<13	U		<18	U		<56	U		<29	U	UJ
		VMP-3-22-092010	9/20/2010	<24	U		<24	U		<20	U		<16	U		<16	U		<14	U		<19	U		<58	U		<31	U	
		VMP-3-22-112210	11/22/2010	<28	U		<28	U		<23	U		<19	U		<18	U		19			<22	U		<67	U		<35	U	
		VMP-3-22-020811	2/8/2011	<14	U		<14	U		<11	U		<9.3	U		<9.1	U		<8	U		<10	U		<33	U		<17	U	
		VMP-3-22-041511	4/15/2011	<74	U		<74	U		<61	U		<50	U		<49	U		<43	U	UJ	<57	U		<180	U		<93	U	
	31.5 ft	VMP-3-31.5	11/4/2009	<37	U		<37	U		<31	U		<25	U		<24	U		<22	U		<29	U		<89	U		<47	U	
		VMP-3-31.5-090910	9/9/2010	<46	U		<46	U		<38	U		<31	U		<30	U		<26	U		<35	U		<110	U		<57	U	
		VMP-3-31.5-112210	11/22/2010	<32	U		<32	U		<26	U		<21	U		<21	U		<18	U		<24	U		<76	U		<40	U	
		VMP-3-31.5-020911	2/9/2011	<30	U		<30	U		<25	U		<20	U		<20	U		<18	U		<23	U		<73	U		<38	U	
		VMP-3-31.5-041411	4/14/2011	<250	U		<250	U		<200	U		<170	U		<160	U		<140	U		<190	U		<600	U		<310	U	
		VMP-3-31.5-041411-DUP	4/14/2011	<250	U		<250	U		<200	U		<170	U		<160	U		<140	U		<190	U		<600	U		<310	U	
	39 ft	VMP-3-39	11/4/2009	<74	U		<74	U		<61	U		<50	U		<49	U		<43	U		<57	U		<180	U		<93	U	
VMP-4	5 ft	VMP-4-5	11/5/2009	<0.076	U		<0.076	U		<0.062	U		<0.051	U		<0.05	U		<0.044	U		<0.058	U		<0.18	U		<0.095	U	
		VMP-4-5-082510	8/25/2010	<0.43	U		<0.43	U		<0.36	U		<0.29	U		<0.28	U		<0.25	U		<0.33	U		<1	U		<0.54	U	
		VMP-4-5-112210	11/22/2010	<16	U		<16	U		<13	U		<11	U		<11	U		<9.3	U		<12	U		<39	U		<20	U	
		VMP-4-5-021411	2/14/2011	<0.95	U		<0.95	U		<0.78	U		<0.64	U		<0.62	U		<0.55	U		<0.73	U		<2.3	U		<1.2	U	
		VMP-4-5-041911	4/19/2011	<44	U		<44	U		<36	U		<29	U		<29	U		<25	U		<34	U		<100	U		<55	U	
	12 ft	VMP-4-12	11/5/2009	<1.3	U		<1.3	U		<1	U		<0.85	U		<0.84	U		<0.73	U		<0.98	U		<3	U		<1.6	U	
		VMP-4-12-082510	8/25/2010	<7.6	U		<7.6	U		<6.2	U		<5.1	U		<5	U		<4.4	U		<5.8	U		<18	U		<9.5	U	
		VMP-4-12-112310	11/23/2010	<7.8	U		<7.8	U		<6.4	U		<5.2	U		<5.1	U		<4.5	U		<6	U		<18	U		<9.7	U	
		VMP-4-12-021411	2/14/2011	<1.9	U		<1.9	U		<1.6	U		<1.3	U		<1.3	U		<1.1	U		<1.5	U		<4.7	U		<2.4	U	
		VMP-4-12-041911	4/19/2011	<38	U		<38	U		<31	U		<25	U		<25	U		<22	U		<29	U		<90	U		<47	U	
	23.5 ft	VMP-4-23.5	11/5/2009	<58	U		<58	U		<48	U		<39	U		<38	U		<34	U		<45	U		<140	U		<73	U	
		VMP-4-23.5-083110	8/31/2010	<8.7	U		<8.7	U		<7.1	U		<5.8	U		<5.7	U		<5	U		<6.7	U		<21	U		<11	U	
		VMP-4-23.5-112310	11/23/2010	<87	U		<87	U		<72	U		<59	U		<58	U		<50	U		<67	U		<210	U		<110	U	
		VMP-4-23.5-021411	2/14/2011	<3.2	U		<3.2	U		<2.6	U		<2.1	U		<2.1	U		<1.8	U		<2.4	U		<7.6	U		<4	U	
		VMP-4-23.5-042011	4/20/2011	<200	U		<200	U		<170	U		<140	U		<130	U		<120	U		<160	U		<480	U		65	J	
		VMP-4-23.5-042011-DUP	4/20/2011	<200	U		<200	U		<170	U		<140	U		<130	U		53	J		<160	U		<480	U		<250	U	
	39 ft	VMP-4-39	11/5/2009	<45	U		<45	U		<37	U		<30	U		<30	U		<26	U		<34	U		<110	U		<56	U	
		VMP-4-39-042111	4/21/2011	<250	U		<250	U		<210	U		<170	U		<170	U		<140	U		<190	U		<600	U		<320	U	

See last page of table for notes.

TABLE 3
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS - VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Ethylbenzene			4-Ethyltoluene			Heptane			Hexane			Isopentane			Isopropylbenzene (Cumene)			Methyl tert-Butyl Ether (MTBE)			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
				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-1	5 ft	VMP-1-5	11/2/2009	<0.52	U		<0.58	U		3.8			53						<0.58	U		<0.43	U		<0.49	U	
		VMP-1-5-082510	8/25/2010	<0.018	U		<0.021	U		<0.017	U		0.025						<0.021	U		<0.015	U		<0.017	U	
		VMP-1-5-111710	11/17/2010	0.0052	J		<0.025	U		0.16			0.4						<0.025	U		<0.018	U		<0.021	U	
		VMP-1-5-020411	2/4/2011	<0.44	U		<0.5	U		<0.41	U		9.4						<0.5	U		<0.36	U		<0.41	U	
		VMP-1-5-041211	4/12/2011	0.017			0.0018	J		0.45			0.53			0.099			0.0019	J		<0.0048	U		<0.0054	U	
	8.5 ft	VMP-1-8.5	11/2/2009	<0.71	U		<0.8	U		1.7			16						<0.8	U		<0.59	U		<0.67	U	
		VMP-1-8.5-082510	8/25/2010	<0.056	U		<0.063	U		<0.053	U		<0.045	U					<0.063	U		<0.046	U		<0.053	U	
		VMP-1-8.5-111710	11/17/2010	0.0048	J		<0.012	U		0.075			0.088						<0.012	U		<0.0089	U		<0.01	U	
		VMP-1-8.5-111710-Dup	11/17/2010	0.0031	J		<0.012	U		0.06			0.076						<0.012	U		0.00094	J		<0.01	U	
		VMP-1-8.5-020411	2/4/2011	<0.86	U		<0.98	U		<0.81	U		11						<0.98	U		<0.72	U		<0.81	U	
		VMP-1-8.5-041211	4/12/2011	0.01			0.0023	J		0.17			0.14			0.046			0.0013	J		<0.0063	U		<0.0071	U	
	23.5 ft	VMP-1-23.5	11/2/2009	<1.7	U		<1.9	U		24			140						<1.9	U		<1.4	U		<1.6	U	
		VMP-1-23.5-083010	8/30/2010	<1.9	U		<2.2	U		44			260						<2.2	U		<1.6	U		<1.8	U	
		VMP-1-23.5-111810	11/17/2010	0.0015	J		<0.0061	U		0.015			0.016						<0.0061	U		0.00052	J		<0.005	U	
		VMP-1-23.5-020411	2/4/2011	<5	U		<5.7	U		<4.8	U		300						<5.7	U		<4.2	U		<4.8	U	
		VMP-1-23.5-041211	4/12/2011	0.93	J		<9.3	U		4.2	J		9.7			900		J	<9.3	U		<6.8	U		<7.8	U	
		VMP-1-23.5-041211-DUP	4/12/2011	1.3	J		<12	U		6.8	J		14			1300		J	<12	U		<8.6	U		<9.8	U	
	38.5 ft	VMP-1-38.5	11/2/2009	<4.9	U		<5.5	U		130			1000						<5.5	U		<4	U		<4.6	U	
VMP-2	5 ft	VMP-2-5	11/2/2009	<0.63	U		<0.72	U		1.3			13						<0.72	U		<0.52	U		<0.6	U	
		VMP-2-5-083110	8/31/2010	<1.9	U		<2.2	U		<1.8	U		<1.6	U					<2.2	U		<1.6	U		<1.8	U	
		VMP-2-5-111610	11/16/2010	<2.9	U		<3.2	U		<2.7	U		42						<3.2	U		<2.4	U		<2.7	U	
		VMP-2-5-020411	2/4/2011	<0.75	U		<0.85	U		<0.71	U		2.7						<0.85	U		<0.62	U		<0.71	U	
		VMP-2-5-041311	4/13/2011	0.0096			0.0011	J		0.13			0.087			0.1			0.0013	J		0.00046	J		<0.0057	U	
	8.5 ft	VMP-2-8.5	11/3/2009	<0.22	U		<0.25	U		<0.21	U		<0.18	U					<0.25	U		<0.18	U		<0.21	U	
		VMP-2-8.5-D	11/3/2009	<0.23	U		<0.26	U		<0.22	U		<0.19	U					<0.26	U		<0.19	U		<0.22	U	
		VMP-2-8.5-083110	8/31/2010	<2	U		<2.3	U		<1.9	U		38						<2.3	U		<1.6	U		<1.9	U	
		VMP-2-8.5-111610	11/16/2010	<5.5	U		<6.2	U		<5.2	U		54						<6.2	U		<4.5	U		<5.2	U	
		VMP-2-8.5-020411	2/4/2011	<1.9	U		<2.1	U		<1.8	U		6.1						<2.1	U		<1.6	U		<1.8	U	
		VMP-2-8.5-041311	4/13/2011	<0.57	U		<0.65	U		0.38	J		0.16	J		3.5			0.18	J		<0.47	U		0.18	J	
	22 ft	VMP-2-22	11/3/2009	<1.2	U		<1.4	U		1.6			13						<1.4	U		<1	U		<1.1	U	
		VMP-2-22-083110	8/31/2010	<3.1	U		<3.5	U		<2.9	U		63						<3.5	U		<2.5	U		<2.9	U	
		VMP-2-22-111610	11/16/2010	<5.7	U		<6.5	U		<5.4	U		78						<6.5	U		<4.8	U		<5.4	U	
		VMP-2-22-020411	2/4/2011	<2.6	U		<2.9	U		<2.4	U		35						<2.9	U		<2.1	U		<2.4	U	
		VMP-2-22-041311	4/13/2011	<7.6	U		<8.6	U		<7.2	U		1.7	J		1400			<8.6	U		<6.3	U		1.6	J	
	42 ft	VMP-2-42	11/3/2009	130			<27	U		1800			7000						<27	U		<20	U		<22	U	
VMP-3	5 ft	VMP-3-5	11/3/2009	0.065			0.035			0.16			0.58						<0.026	U		<0.019	U		<0.022	U	
		VMP-3-5-090910	9/9/2010	<5.8	U		<6.5	U		4.8	J		110						<6.5	U		<4.8	U		<5.4	U	
		VMP-3-5-112210	11/22/2010	<5.8	U		<6.6	U		<5.5	U		150						<6.6	U		<4.8	U		<5.5	U	
		VMP-3-5-020911	2/9/2011	<2.6	U		<3	U		<2.5	U		25						<3	U		<2.2	U		<2.5	U	
		VMP-3-5-041411	4/14/2011	<28	U		<32	U		<27	U		240			12000			<32	U		<23	U		<27	U	
	10 ft	VMP-3-10	6/21/2010	<6.6	U		3.1	J		86			1300						2.8	J		<5.5	U		<6.2	U	
		VMP 3-10-091010	9/10/2010	<18	U		<21	U		87			1100						5	J		<15	U		<17	U	
		VMP-3-10-092010	9/20/2010	<13	U		<15	U		48			660						<15	U		<11	U		<13	U	
		VMP-3-10-112210	11/22/2010	<5.7	U		<6.5	U		86			1200						7.8			<4.8	U		<5.4	U	
		VMP-3-10-112210-Dup	11/22/2010	<8	U		<9	U		82			1100						5.4	J		<6.6	U		<7.5	U	
		VMP-3-10-020811	2/8/2011	<8.4	U		<9.5	U		<8	U		690						<9.5	U		<7	U		<7.9	U	
		VMP-3-10-041311	4/13/2011	<49	U		<55	U		<46	U		560			21000			<55	U		<40	U		<46	U	
	22 ft	VMP-3-22	11/4/2009	<17	U		<19	U		310			4900						<19	U		<14	U		<16	U	
		VMP-3-22-092010	9/20/2010	9.4	J		7.7	J		130			1500						14	J		<15	U		<17	U	
		VMP-3-22-112210	11/22/2010	<20	U		<23	U		140			2000						20	J		<17	U		<19	U	
		VMP-3-22-020811	2/8/2011	3.6	J		<11	U		<9.4	U		1400						9.9	J		<8.2	U		<9.4	U	
		VMP-3-22-041511	4/15/2011	<54	U		<61	U		50			850			24000			<61	U		<45	U		<51	U	
	31.5 ft	VMP-3-31.5	11/4/2009	78			<30	U		870			18000	E	J				<30	U		<22	U		<25	U	
		VMP-3-31.5-090910	9/9/2010	57			53			1100			25000						<37	U		<27	U		<31	U	
		VMP-3-31.5-112210	11/22/2010	50			17	J		1200			20000						<26	U		<19	U		<22	U	
		VMP-3-31.5-020911	2/9/2011	33			<25	U		480			6400						<25	U		<18	U		<21	U	
		VMP-3-31.5-041411	4/14/2011	<180	U		<200	U		510			9600			52000			<200	U		<150	U		<170	U	
		VMP-3-31.5-041411-DUP	4/14/2011	<180	U		<200	U		450			8800			48000			<200	U		<150	U		<170	U	
	39 ft	VMP-3-39	11/4/2009	70			<61	U		780			18000						<61	U		<44	U		<50	U	
VMP-4	5 ft	VMP-4-5	11/5/2009	<0.055	U		<0.062	U		<0.052	U		0.54						<0.062	U		<0.046	U		<0.052	U	
		VMP-4-5-082510	8/25/2010	<0.31	U		0.061	J		1.7			13						0.048	J		<0.26	U		<0.29	U	
		VMP-4-5-112210	11/22/2010	21			6.2	J		580			1300						6.6	J		<9.7	U		<11	U	
		VMP-4-5-021411	2/14/2011	<0.68	U		<0.77	U		30			88						<0.77	U		<0.57	U		<0.64	U	
		VMP-4-5-041911	4/19/2011	<31	U		<36	U		380			1200			11000			<36	U		<26	U		<30	U	
	12 ft	VMP-4-12	11/5/2009	<0.92	U		1.2			35			130						<1	U		<0.76	U		<0.86	U	
		VMP-4-12-082510	8/25/2010	7.8			3.6	J		420			1200						3.6	J		<4.5	U		<5.2	U	
		VMP-4-12-112310	11/23/2010	1.7	J		4.7	J		240			690						<6.3	U		<4.6	U		<5.3	U	
		VMP-4-12-021411	2/14/2011	<1.4	U		0.97	J		24			160						<1.6	U		<1.2	U		<1.3	U	
		VMP-4-12-041911	4/19/2011	33			11	J		480			1300			11000			<31	U		<22	U		<26	U	
	23.5 ft	VMP-4-23.5	11/5/2009	720			110			3600			14000						<48	U		<35	U		<40	U	
		VMP-4-23.5-083110	8/31/2010	960		J	230		J	4100		J	13000		J				38		J	<5.2	U		<5.9	U	
		VMP-4-23.5-112310	11/23/2010	630			58	J		3900			15000						<72	U		<52	U		<60	U	
		VMP-4-23.5-021411	2/14/2011	93		J	1.2	J	J	1700		J	12000						<2.6	U		<1.9	U		<2.2	U	
		VMP-4-23.5-042011	4/20/2011	530			69	J		2900			13000			81000			<160	U		<120	U		<1400	U	
		VMP-4-23.5-042011-DUP	4/20/2011	490			69	J		2800			13000			78000			<160	U		<120	U		<1400	U	
	39 ft	VMP-4-39	11/5/2009	620			120			3500			14000						<37	U		<27	U		<30	U	
		VMP-4-39-042111	4/21/2011	420			51	J		2700			13000			77000			<210	U		<150	U		<1700	U	

See last page of table for notes.

TABLE 3
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	2-Propanol			n-Propylbenzene			Styrene			Tetrachloroethene			Tetrahydrofuran			Toluene			1,2,4-Trichlorobenzene			1,1,1-Trichloroethane (Methyl chloroform)		
				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-1	5 ft	VMP-1-5	11/2/2009	<1.2	U		<0.58	U		<0.51	U		<0.81	U		<0.35	U		0.63			<3.5	U		<0.65	U	
		VMP-1-5-082510	8/25/2010	<0.042	U		<0.021	U		<0.018	U		<0.029	U		<0.012	U		0.0031	J		<0.13	U		<0.023	U	
		VMP-1-5-111710	11/17/2010	<0.051	U		<0.025	U		0.0059	J		<0.035	U		<0.015	U		<0.019	U		<0.15	U		<0.028	U	
		VMP-1-5-020411	2/4/2011	1.9			<0.5	U		<0.43	U		<0.68	U		<0.3	U		<0.38	U		<3	U		<0.55	U	
		VMP-1-5-041211	4/12/2011	0.0032	J		0.0038	J		<0.0056	U		0.002	J		<0.0039	U		0.0024	J		<0.039	J	U	<0.0072	U	
	8.5 ft	VMP-1-8.5	11/2/2009	<1.6	U		<0.8	U		<0.7	U		<1.1	U		<0.48	U		<0.62	U		<4.8	U		<0.89	U	
		VMP-1-8.5-082510	8/25/2010	<0.13	U		<0.063	U		<0.055	U		<0.087	U		<0.038	U		<0.048	U		<0.38	U		<0.07	U	
		VMP-1-8.5-111710	11/17/2010	<0.024	U		0.0022	J		0.0034	J		<0.017	U		<0.0073	U		<0.0093	U		<0.073	U		<0.013	U	
		VMP-1-8.5-111710-Dup	11/17/2010	0.015	J		0.0021	J		0.0022	J		<0.017	U		<0.0073	U		0.002	J		<0.073	U		<0.013	U	
		VMP-1-8.5-020411	2/4/2011	<2	U		<0.98	U		<0.84	U		<1.3	U		<0.58	U		<0.75	U		<5.9	U		<1.1	U	
		VMP-1-8.5-041211	4/12/2011	<0.017	U		0.0025	J		<0.0074	U		0.00097	J		<0.0051	U		0.0022	J		<0.052	J	U	<0.0095	U	
	23.5 ft	VMP-1-23.5	11/2/2009	<3.9	U		<1.9	U		<1.7	U		<2.7	U		<1.2	U		<1.5	U		<12	U		<2.2	U	
		VMP-1-23.5-083010	8/30/2010	<4.4	U		<2.2	U		<1.9	U		<3	U		<1.3	U		<1.7	U		<13	U		<2.4	U	
		VMP-1-23.5-111810	11/17/2010	0.0052	J		<0.0061	U		0.003	J		<0.0084	J	U	<0.0036	U		0.001	J		<0.037	U		<0.0067	U	
		VMP-1-23.5-020411	2/4/2011	<11	U		<5.7	U		<5	U		<7.9	U		<3.4	U		<4.4	U		<34	U		<6.4	U	
		VMP-1-23.5-041211	4/12/2011	12	J		<9.3	U		<8.1	U		<13	U		<5.6	U		1.9	J		<56	U		<10	U	
		VMP-1-23.5-041211-DUP	4/12/2011	8.1	J		<12	U		<10	U		<16	U		<7.1	U		<9	U		<71	U		<13	U	
	38.5 ft	VMP-1-38.5	11/2/2009	<11	U		<5.5	U		<4.8	U		<7.6	U		<3.3	U		<4.2	U		<33	U		<6.1	U	
VMP-2	5 ft	VMP-2-5	11/2/2009	<1.4	U		<0.72	U		<0.62	U		<0.99	U		<0.43	U		<0.55	U		<4.3	U		<0.79	U	
		VMP-2-5-083110	8/31/2010	<4.4	U		<2.2	U		<1.9	U		<3	U		<1.3	U		<1.7	U		<13	U		<2.4	U	
		VMP-2-5-111610	11/16/2010	<6.5	U		<3.2	U		<2.8	U		<4.5	U		<1.9	U		<2.5	U		<20	U		<3.6	U	
		VMP-2-5-020411	2/4/2011	<1.7	U		<0.85	U		<0.73	U		<1.2	U		<0.51	U		<0.65	U		<5.1	U		<0.94	U	
		VMP-2-5-041311	4/13/2011	<0.014	U		0.0022	J		<0.0059	U		0.0042	J		<0.0041	U		0.0046	J		<0.041	U		<0.0076	U	
	8.5 ft	VMP-2-8.5	11/3/2009	<0.5	U		<0.25	U		<0.22	U		<0.34	U		<0.15	U		<0.19	U		<1.5	U		<0.28	U	
		VMP-2-8.5-D	11/3/2009	<0.53	U		<0.26	U		<0.23	U		<0.37	U		<0.16	U		<0.2	U		<1.6	U		<0.29	U	
		VMP-2-8.5-083110	8/31/2010	<4.5	U		<2.3	U		<2	U		<3.1	U		<1.4	U		<1.7	U		<14	U		<2.5	U	
		VMP-2-8.5-111610	11/16/2010	<12	U		<6.2	U		<5.4	U		<8.5	U		<3.7	U		<4.7	U		<37	U		<6.9	U	
		VMP-2-8.5-020411	2/4/2011	<4.2	U		<2.1	U		<1.8	U		<2.9	U		<1.3	U		<1.6	U		<13	U		<2.3	U	
		VMP-2-8.5-041311	4/13/2011	<1.3	U		<0.65	U		<0.56	U		<0.89	U		<0.39	U		0.035	J		<3.9	U		0.078	J	
	22 ft	VMP-2-22	11/3/2009	<2.8	U		<1.4	U		<1.2	U		<1.9	U		<0.82	U		<1	U		<8.3	U		<1.5	U	
		VMP-2-22-083110	8/31/2010	<6.9	U		<3.5	U		<3	U		<4.8	U		<2.1	U		<2.6	U		<21	U		<3.8	U	
		VMP-2-22-111610	11/16/2010	<13	U		<6.5	U		<5.6	U		<9	U		<3.9	U		<5	U		<39	U		<7.2	U	
		VMP-2-22-020411	2/4/2011	<5.8	U		<2.9	U		<2.5	U		<4	U		<1.8	U		<2.2	U		<18	U		<3.2	U	
		VMP-2-22-041311	4/13/2011	<17	U		<8.6	U		<7.4	U		<12	U		<5.1	U		<6.6	U		<52	U		<9.5	U	
	42 ft	VMP-2-42	11/3/2009	<54	U		<27	U		<23	U		<37	U		<16	U		59			<160	U		<30	U	
VMP-3	5 ft	VMP-3-5	11/3/2009	<0.053	U		<0.026	U		<0.023	U		<0.037	U		<0.016	U		<0.02	U		<0.16	U		<0.029	U	
		VMP-3-5-090910	9/9/2010	<13	U		<6.5	U		<5.7	U		<9	U		<3.9	U		<5	U		<39	U		<7.2	U	
		VMP-3-5-112210	11/22/2010	2.1	J		<6.6	U		<5.7	U		4.5	J		<4	U		3.2	J		<40	U		<7.3	U	
		VMP-3-5-020911	2/9/2011	<5.9	U		<3	U		<2.6	U		<4.1	U		<1.8	U		<2.3	U		<18	U		<3.3	U	
		VMP-3-5-041411	4/14/2011	<64	UJ	UJ	<32	U		<28	U		<44	U		<19	U		<24	U		<190	U		<35	U	
	10 ft	VMP-3-10	6/21/2010	3.8	J		5.6	J		<6.4	U		<10	U		<4.5	U		<5.7	U		<45	U		<8.3	U	
		VMP 3-10-091010	9/10/2010	<42	U		7.2	J		<18	U		<29	U		<12	U		<16	U		<130	U		<23	U	
		VMP-3-10-092010	9/20/2010	<30	U		4.4	J		<13	U		<21	U		<9.1	U		9.9	J		<92	U		<17	U	
		VMP-3-10-112210	11/22/2010	<13	U		11			<5.6	U		<9	U		<3.9	U		2.1	J		<39	U		<7.2	U	
		VMP-3-10-112210-Dup	11/22/2010	<18	U		7.9	J		<7.8	U		<12	U		<5.4	U		2	J		<55	U		<10	U	
		VMP-3-10-020811	2/8/2011	<19	U		<9.5	U		<8.3	U		<13	U		<5.7	U		<7.3	U		<58	U		<10	U	
		VMP-3-10-041311	4/13/2011	<110	UJ	UJ	<55	U		<48	U		<76	U		<33	U		<42	U		<330	U		<61	U	
	22 ft	VMP-3-22	11/4/2009	<38	U		24			<16	U		<26	U		<11	U		<15	U		<120	U		<21	U	
		VMP-3-22-092010	9/20/2010	<40	U		29			<17	U		<28	U		<12	U		37			<120	U		<22	U	
		VMP-3-22-112210	11/22/2010	<46	U		40			<20	U		<32	U		<14	U		<18	U		<140	U		<25	U	
		VMP-3-22-020811	2/8/2011	<22	U		20			<9.8	U		<16	U		<6.8	U		4.3	J		<68	U		<12	U	
		VMP-3-22-041511	4/15/2011	<120	UJ	UJ	<61	U		<53	U		<84	U		<36	U	UJ	<47	U		<370	U		<68	U	
	31.5 ft	VMP-3-31.5	11/4/2009	<61	U		<30	U		<26	U		<42	U		<18	U		25			<180	U		<34	U	
		VMP-3-31.5-090910	9/9/2010	<75	U		17	J		<32	U		<52	U		<22	U		17	J		<220	U		<41	U	
		VMP-3-31.5-112210	11/22/2010	<52	U		9.8	J		<22	U		<36	U		<16	U		19	J		<160	U		<29	U	
		VMP-3-31.5-020911	2/9/2011	<50	U		<25	U		<22	U		<34	U		<15	U		40			<150	U		<28	U	
		VMP-3-31.5-041411	4/14/2011	<410	UJ	UJ	<200	U		<180	U		<280	U		<120	U		<160	U		<1200	U		<230	U	
		VMP-3-31.5-041411-DUP	4/14/2011	<410	UJ	UJ	<200	U		<180	U		<280	U		<120	U		<160	U		<1200	U		<230	U	
	39 ft	VMP-3-39	11/4/2009	<120	U		<61	U		<53	U		<84	U		<36	U		<46	U		<370	U		<67	U	
VMP-4	5 ft	VMP-4-5	11/5/2009	<0.12	U		<0.062	U		<0.054	U		<0.086	U		<0.037	U		<0.048	U		<0.38	U	UJ	<0.069	U	
		VMP-4-5-082510	8/25/2010	<0.71	U		0.058	J		<0.31	U		<0.49	U		<0.21	U		<0.27	U		<2.1	U		<0.39	U	
		VMP-4-5-112210	11/22/2010	<26	U		8.4	J		<11	U		<18	U		<7.9	U		2.8	J		<80	U		<15	U	
		VMP-4-5-021411	2/14/2011	<1.5	U		<0.77	U		<0.67	U		<1.1	U		<0.46	U		0.49	J		<4.7	U		<0.86	U	
		VMP-4-5-041911	4/19/2011	<71	UJ	UJ	<36	U		<31	U		<49	U		<21	U		<27	U		<220	U		<40	U	
	12 ft	VMP-4-12	11/5/2009	<2.1	U		<1	U		<0.9	U		<1.4	U		<0.62	U		<0.8	U		<6.3	U	UJ	<1.2	U	
		VMP-4-12-082510	8/25/2010	<12	U		4.2	J		<5.4	U		<8.5	U		<3.7	U		<4.7	U		<37	U		<6.9	U	
		VMP-4-12-112310	11/23/2010	<13	U		<6.3	U		<5.5	U		<8.8	U		<3.8	U		<4.9	U		<38	U		<7	U	
		VMP-4-12-021411	2/14/2011	<3.2	U		<1.6	U		<1.4	U		<2.2	U		<0.96	U		1.1	J		<9.6	U		<1.8	U	
		VMP-4-12-041911	4/19/2011	<61	UJ	UJ	<31	U		<27	U		<42	U		<18	U		20	J		<180	U		<34	U	
	23.5 ft	VMP-4-23.5	11/5/2009	<95	U		<48	U		<41	U		<66	U		<29	U		1400			<290	U		<53	U	
		VMP-4-23.5-083110	8/31/2010	<14	U		69		J	<6.2	U		<9.8	U		<4.3	U		2000		J	<43	U		<7.9	U	
		VMP-4-23.5-112310	11/23/2010	<140	U		22	J		<62	U		<99	U		<43	U		1600			<430	U		<79	U	
		VMP-4-23.5-021411	2/14/2011	<5.2	U		<2.6	U		<2.2	U		<3.6	U		<1.6	U		600		J	<16	U		<2.9	U	
		VMP-4-23.5-042011	4/20/2011	<330	U		<160	U		<1400	U		<230	U		<99	U		820			<1000	U		<180	U	
		VMP-4-23.5-042011-DUP	4/20/2011	<330	U		<160	U		<1400	U		<230	U		<99	U		790			<1000	U		<180	U	
	39 ft	VMP-4-39	11/5/2009	<73	U		39			<32	U		<50	U		<22	U		420			<220	U		<41	U	
		VMP-4-39-042111	4/21/2011	<410	U		<210	U		<1800	U		<280	U		<120	U		440			<1200	U		<230	U	

See last page of table for notes.

TABLE 3
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,1,2-Trichloroethane			Trichloroethene			Trichlorofluoromethane			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			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-1	5 ft	VMP-1-5	11/2/2009	<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		<0.024	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		<0.029	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		<0.54	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		<0.0071	J	U	0.0012	J		0.0023	J		<0.0065	U		1.5			0.0056			<0.0057	U	
	8.5 ft	VMP-1-8.5	11/2/2009	<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		<0.069	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	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	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		<0.98	U		<0.98	U		350			<0.86	U		<0.86	U	
		VMP-1-8.5-041211	4/12/2011	<0.0095	U		0.0048	J		0.0012	J		0.0025	J		<0.0086	U		1.9			0.0047	J		<0.0076	U	
	23.5 ft	VMP-1-23.5	11/2/2009	<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		<2.5	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		<0.0066	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		<6.3	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		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		2.2	J		<13	U		<12	U		<12	U		150		J	<10	U		<10	U	
	38.5 ft	VMP-1-38.5	11/2/2009	<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		<0.78	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		<2.5	U		<2.2	U		<2.2	U		1300			<1.9	U		<1.9	U	
		VMP-2-5-111610	11/16/2010	<3.6	U		<3.5	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		<0.93	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		0.0042	J		0.0015	J		0.0022	J		<0.0068	U		1.1			0.0038	J		<0.006	U	
	8.5 ft	VMP-2-8.5	11/3/2009	<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		<0.3	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		<2.6	U		<2.3	U		<2.3	U		2000			<2	U		<2	U	
		VMP-2-8.5-111610	11/16/2010	<6.9	U		<6.8	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		<2.4	U		<2.1	U		<2.1	U		830			<1.9	U		<1.9	U	
		VMP-2-8.5-041311	4/13/2011	<0.72	U		0.095	J		0.12	J		<0.65	U		<0.65	U		140	B		0.048	J		0.074	J	
	22 ft	VMP-2-22	11/3/2009	<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		<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		<7.1	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		<3.3	U		<2.9	U		<2.9	U		1400			<2.6	U		<2.6	U	
		VMP-2-22-041311	4/13/2011	<9.5	U		<9.4	U		<9.8	U		<8.6	U		<8.6	U		760	B		<7.6	U		<7.6	U	
	42 ft	VMP-2-42	11/3/2009	<30	U		<30	U		<31	U		<27	U		<27	U		1700			160			58		
VMP-3	5 ft	VMP-3-5	11/3/2009	<0.029	U		<0.029	U		<0.03	U		<0.026	U		<0.026	U		6.4			0.1			0.045		
		VMP-3-5-090910	9/9/2010	<7.2	U		<7.1	U		<7.5	U		<6.5	U		<6.5	U		1200			<5.8	U		<5.8	U	
		VMP-3-5-112210	11/22/2010	<7.3	U		8.9			<7.6	U		<6.6	U		<6.6	U		1100			2.3	J		<5.8	U	
		VMP-3-5-020911	2/9/2011	<3.3	U		<3.2	U		<3.4	U		<3	U		<3	U		460			<2.6	U		<2.6	U	
		VMP-3-5-041411	4/14/2011	<35	U		<35	U		<36	U		<32	U		<32	U		1100			<28	U		<28	U	
	10 ft	VMP-3-10	6/21/2010	<8.3	U		<8.1	U		<8.5	U		4.3	J		1.4	J		3500			2.9	J		<6.6	U	
		VMP 3-10-091010	9/10/2010	<23	U		<23	U		<24	U		<21	U		<21	U		3000			<18	U		<18	U	
		VMP-3-10-092010	9/20/2010	<17	U		<17	U		<17	U		<15	U		<15	U		2400			6.6	J		<13	U	
		VMP-3-10-112210	11/22/2010	<7.2	U		<7.1	U		<7.4	U		<6.5	U		<6.5	U		3200			2.8	J		<5.7	U	
		VMP-3-10-112210-Dup	11/22/2010	<10	U		<9.9	U		<10	U		<9	U		<9	U		3100			2.2	J		<8	U	
		VMP-3-10-020811	2/8/2011	<10	U		<10	U		<11	U		<9.5	U		<9.5	U		3300			<8.4	U		<8.4	U	
		VMP-3-10-041311	4/13/2011	<61	U		<60	U		<63	U		<55	U		<55	U		1900			<49	U		<49	U	
	22 ft	VMP-3-22	11/4/2009	<21	U		<21	U		<22	U		<19	U		<19	U		3800			22			<17	U	
		VMP-3-22-092010	9/20/2010	<22	U		<22	U		<23	U		5.3	J		<20	U		3200			26			11	J	
		VMP-3-22-112210	11/22/2010	<25	U		<25	U		<26	U		<23	U		<23	U		4100			8.8	J		<20	U	
		VMP-3-22-020811	2/8/2011	<12	U		<12	U		<13	U		<11	U		<11	U		2900			7.6	J		<9.9	U	
		VMP-3-22-041511	4/15/2011	<68	U		<67	U		<70	U		<61	U		<61	U		2200			<54	U		<54	U	
	31.5 ft	VMP-3-31.5	11/4/2009	<34	U		<33	U		<35	U		<30	U		<30	U		6800			130			<27	U	
		VMP-3-31.5-090910	9/9/2010	<41	U		<41	U		<43	U		38			17	J		8300			87			26	J	
		VMP-3-31.5-112210	11/22/2010	<29	U		<28	U		<30	U		9.8	J		<26	U		8000			68			19	J	
		VMP-3-31.5-020911	2/9/2011	<28	U		<27	U		<28	U		<25	U		<25	U		3200			54			13	J	
		VMP-3-31.5-041411	4/14/2011	<230	U		<220	U		<230	U		<200	U		<200	U		4300			<180	U		<180	U	
		VMP-3-31.5-041411-DUP	4/14/2011	<230	U		<220	U		<230	U		<200	U		<200	U		3900			<180	U		<180	U	
	39 ft	VMP-3-39	11/4/2009	<67	U		<66	U		<69	U		<61	U		<61	U		7100			110			<54	U	
VMP-4	5 ft	VMP-4-5	11/5/2009	<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		<0.4	U		0.054	J		<0.35	U		220			<0.31	U		<0.31	U	
		VMP-4-5-112210	11/22/2010	<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		<0.85	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		<39	U		<41	U		<36	U		<36	U		1100			<31	U		<31	U	
	12 ft	VMP-4-12	11/5/2009	<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		<6.8	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		<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		<1.7	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		<35	U		<31	U		<31	U		1200			51			7.6	J	
	23.5 ft	VMP-4-23.5	11/5/2009	<53	U		<52	U		<54	U		78			<48	U		4700			1300			410		
		VMP-4-23.5-083110	8/31/2010	<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		<78	U		<82	U		31	J		<72	U		4800			1100			310		
		VMP-4-23.5-021411	2/14/2011	<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		<190	U		<160	U		<160	U		5200			900			230		
		VMP-4-23.5-042011-DUP	4/20/2011	<180	U		<180	U		<190	U		<160	U		<160	U		4800			830			230		
	39 ft	VMP-4-39	11/5/2009	<41	U		<40	U		<42	U		83			<37	U		4500			1100			320		
		VMP-4-39-042111	4/21/2011	<230	U		<220	U		<240	U		<210	U		<210	U		4300			670			170	J	

See last page of table for notes.

TABLE 3
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS - VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Acetone			Benzene			Bromodichloromethane			Bromomethane			1,3-Butadiene			Butane			2-Butanone			Carbon disulfide			Carbon tetrachloride		
				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	Result (mg/m^3)	Lab Qualifier	URS Qualifier
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		<1.4	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		<17	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		<4	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	<0.026	U	
		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		<0.083	U	
	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		<1.6	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		<3.6	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		<8.3	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		<0.42	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		<1.2	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		<0.089	U	
	31 ft	VMP-5-31	11/6/2009	<23	U		160			<16	U		<9.2	U		<5.3	U					<7	U		<7.4	U		<15	U	
		VMP-5-31-090910	9/9/2010	<52	U		200			<37	U		<21	U		<12	U					<16	U		<17	U		<35	U	
		VMP-5-31-112310	11/23/2010	<33	U		180			<23	U		<13	U		<7.6	U					<10	U		<11	U		<22	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		<8.7	U	
		VMP-5-31-042111	4/21/2011	<200	U		66			<140	U		<80	U		<46	U		34000			<240	U		<64	U		<130	U	
	40 ft	VMP-5-40	11/6/2009	<31	U		170			<22	U		<13	U		<7.2	U					<9.7	U		<10	U		<21	U	
		VMP-5-40-042111	4/21/2011	<200	U		64	J		<140	U		<84	U		<48	U		27000			<250	U		<67	U		<140	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		<2.5	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		<1.4	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		<8.7	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		<0.0075	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		<0.016	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		<2.7	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		<1.5	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		<0.004	U		0.0011	J	
		VMP-6-10-020711	2/7/2011	0.0038	J		0.0084			<0.0084	U		<0.0049	U		<0.0028	U					<0.0037	U		<0.0039	U		<0.0079	U	
		VMP-6-10-040811	4/8/2011	0.54			2			<0.2	U		<0.12	U		<0.067	U		<0.29	U		0.12	J		0.19	J		<0.19	U	
	31.5 ft	VMP-6-31.5	11/9/2009	<27	U		28			<19	U		<11	U		<6.2	U					<8.2	U		<8.7	U		<18	U	
		VMP-6-31.5-090810	9/8/2010	<15	U		29			<11	U		<6.2	U		<3.6	U					<4.7	U		<5	U		<10	U	
		VMP-6-31.5-111710	11/17/2010	<24	U		30			<17	U		<9.8	U		<5.6	U					<7.4	U		<7.8	U		<16	U	
		VMP-6-31.5-020711	2/7/2011	13	J		30			<16	U		<9.4	U		<5.4	U					<7.1	U		<7.5	U		<15	U	
		VMP-6-31.5-041111	4/11/2011	12	J		18			<12	U		<7.3	U		<4.1	U		1200			<22	U		3.8	J		<12	U	
	39 ft	VMP-6-39	11/9/2009	<30	U		40			<21	U		<12	U		<7	U					<9.4	U		<9.9	U		<20	U	
		VMP-6-39-041111	4/11/2011	12	J		16			<15	U		<8.7	U		<4.9	U		1200			3.6	J		3.4	J		<14	U	
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		<0.003	U		<0.007	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		<0.0083	U	
		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		<0.0075	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		<0.0081	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	<0.011	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		<0.056	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		<0.18	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		<1.3	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		<0.0078	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	<0.014	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		<1.2	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		<2.6	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		<3.9	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		<4	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		<0.98	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		<0.42	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		<5.4	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		<1.4	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		<0.007	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		<0.0085	U	
		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		0.0014	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		<0.0078	U	
		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	<0.0087	U	
	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		<0.007	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		<0.0076	U	
		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		<0.0078	U	
		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		0.0014	J	
		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		<0.0079	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		<0.0087	U	
	23.5 ft	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		<0.007	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		0.0009	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		<0.0079	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		<0.0085	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		<0.0079	U	
		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		<0.012	U	

See last page of table for notes.

TABLE 3
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS - VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			alpha-Chlorotoluene			Cyclohexane			1,2-Dibromoethane			1,2-Dichlorobenzene		
				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	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-5	5 ft	VMP-5-5	11/5/2009	<1	U		<1.9	U		<0.59	U		<1.1	U		<1.8	U		<1.2	U		78			<1.7	U		<1.3	U	
		VMP-5-5-090910	9/9/2010	<12	U		<22	U		<7	U		<13	U		<22	U		<14	U		400			<20	U		<16	U	
		VMP-5-5-112210	11/22/2010	<3	U		<5.5	U		<1.7	U		<3.1	U		<5.3	U		<3.3	U		450			<5	U		<3.9	U	
		VMP-5-5-021611	2/16/2011	<0.019	U		<0.035	U		<0.011	U		<0.02	U		<0.034	U		<0.021	U		4.4			<0.032	U		<0.025	U	
		VMP-5-5-042111	4/21/2011	<0.061	U		<0.11	U		<0.14	U		<0.064	U		<0.11	U		<0.068	U		0.033	J		<0.1	U		<0.079	U	
	12.5 ft	VMP-5-12.5	11/6/2009	<1.2	U		<2.2	U		<0.68	U		<1.2	U		<2.1	U		<1.3	U		240			<2	U		<1.6	U	
		VMP-5-12.5-D	11/6/2009	<2.7	U		<4.9	U		<1.5	U		<2.8	U		<4.8	U		<3	U		240			<4.4	U		<3.5	U	
		VMP-5-12.5-090910	9/9/2010	<6.1	U		<11	U		<3.5	U		<6.4	U		<11	U		<6.8	U		360			<10	U		<7.9	U	
		VMP-5-12.5-112310	11/23/2010	<0.3	U		<0.56	U		<0.17	U		<0.32	U		<0.54	U		<0.34	U		14			<0.51	U		<0.4	U	
		VMP-5-12.5-021611	2/16/2011	<0.91	U		<1.7	U		<0.52	U		<0.97	U		<1.6	U		<1	U		36			<1.5	U		<1.2	U	
		VMP-5-12.5-042111	4/21/2011	<0.065	U		<0.12	U		<0.15	U		<0.069	U		<0.12	U		<0.073	U		0.023	J		<0.11	U		<0.085	U	
	31 ft	VMP-5-31	11/6/2009	<11	U		<20	U		<6.3	U		<12	U		<20	U		<12	U		1600			<18	U		<14	U	
		VMP-5-31-090910	9/9/2010	<25	U		<47	U		<14	U		<27	U		<45	U		<28	U		1600			<42	U		<33	U	
		VMP-5-31-112310	11/23/2010	<16	U		<29	U		<9.1	U		<17	U		<28	U		<18	U		2200			<26	U		<21	U	
		VMP-5-31-021611	2/16/2011	<6.4	U		<12	U		<3.6	U		<6.7	U		<11	U		<7.1	U		1300			<11	U		<8.3	U	
		VMP-5-31-042111	4/21/2011	<95	U		<180	U		<220	U		<100	U		<170	U		<110	U		1600			<160	U		<120	U	
	40 ft	VMP-5-40	11/6/2009	<15	U		<28	U		<8.6	U		<16	U		<27	U		<17	U		1400			<25	U		<20	U	
		VMP-5-40-042111	4/21/2011	<99	U		<180	U		<230	U		<100	U		<180	U		<110	U		1400			<160	U		<130	U	
VMP-6	5 ft	VMP-6-5	11/6/2009	<1.8	U		<3.4	U		<1	U		<1.9	U		<3.3	U		<2	U		380		J	<3	U		<2.4	U	
		VMP-6-5-090810	9/8/2010	<1	U		<1.9	U		<0.58	U		<1.1	U		<1.8	U		<1.1	U		76			<1.7	U		<1.3	U	
		VMP-6-5-111610	11/16/2010	<6.4	U		<12	U		<3.6	U		<6.7	U		<11	U		<7.1	U		600			<11	U		<8.3	U	
		VMP-6-5-020711	2/7/2011	<0.0055	U		<0.01	U		<0.0031	U		<0.0058	U		<0.0098	U		<0.0062	U		0.013			<0.0091	U		<0.0072	J	U
		VMP-6-5-040811	4/8/2011	<0.012	U		<0.022	U		<0.027	U		<0.013	U		<0.021	U		<0.013	U		0.099			<0.02	U		<0.016	U	
	10 ft	VMP-6-10	11/6/2009	<2	U		<3.7	U		<1.1	U		<2.1	U		<3.6	U		<2.2	U		470			<3.3	U		<2.6	U	
		VMP-6-10-090810	9/8/2010	<1.1	U		<2	U		<0.63	U		<1.2	U		<2	U		<1.2	U		240		J	<1.8	U		<1.4	U	
		VMP-6-10-111710	11/17/2010	<0.0059	U		<0.011	U		<0.0034	U		<0.0063	U		<0.011	U		<0.0067	U		0.0046			<0.0099	U		<0.0078	U	
		VMP-6-10-020711	2/7/2011	<0.0058	U		<0.011	U		<0.0033	U		<0.0062	U		<0.01	U		<0.0065	U		0.0029	J		<0.0097	U		<0.0076	J	U
		VMP-6-10-040811	4/8/2011	<0.14	U		<0.26	U		<0.32	U		<0.15	U		<0.25	U		<0.16	U		<0.1	U		<0.23	U		<0.18	U	
	31.5 ft	VMP-6-31.5	11/9/2009	<13	U		<24	U		<7.4	U		<14	U		<23	U		<14	U		970			<22	U		<17	U	
		VMP-6-31.5-090810	9/8/2010	<7.4	U		<14	U		<4.2	U		<7.9	U		<13	U		<8.3	U		1000			<12	U		<9.7	U	
		VMP-6-31.5-111710	11/17/2010	<12	U		<21	U		<6.6	U		<12	U		<21	U		<13	U		1500			<19	U		<15	U	
		VMP-6-31.5-020711	2/7/2011	<11	U		<21	U		<6.4	U		<12	U		<20	U		<12	U		1200			<18	U		<14	U	
		VMP-6-31.5-041111	4/11/2011	<8.6	U		<16	U		<20	U		<9.2	U		<15	U		<9.7	U		580			<14	U		<11	U	
	39 ft	VMP-6-39	11/9/2009	<15	U		<27	U		<8.4	U		<16	U		<26	U		<16	U		1200			<24	U		<19	U	
		VMP-6-39-041111	4/11/2011	<10	U		<19	U		<24	U		<11	U		<18	U		<12	U		620			<17	U		<13	U	
VMP-7	5 ft	VMP-7-5	11/9/2009	<0.005	U		<0.009	U		<0.003	U		<0.005	U		<0.009	U		<0.006	U		0.041			<0.009	U		<0.007	U	
		VMP-7-5-082610	8/26/2010	<0.0061	U		<0.011	U		<0.0035	U		<0.0064	U		<0.011	U		<0.0068	U		0.016			<0.01	U		<0.0079	U	
		VMP-7-5-111910	11/19/2010	<0.0055	U		<0.01	U		<0.0031	U		<0.0058	U		<0.0098	U		<0.0062	U		0.0054			<0.0091	U		<0.0072	U	
		VMP-7-5-020711	2/7/2011	<0.0059	U		<0.011	U		<0.0034	U		<0.0063	U		<0.011	U		<0.0067	U		0.0018	J		<0.0099	U		<0.0078	J	U
		VMP-7-5-040711	4/7/2011	<0.0084	U		<0.016	U		<0.019	U		<0.0089	U		<0.015	U		<0.0094	U		0.0081			<0.014	U		<0.011	U	
	13.5 ft	VMP-7-13.5	11/9/2009	<0.041	U		<0.076	U		<0.024	U		<0.044	U		<0.074	U		<0.046	U		0.087			<0.069	U		<0.054	U	
		VMP-7-13.5-082610	8/26/2010	<0.13	U		<0.25	U		<0.076	U		<0.14	U		<0.24	U		<0.15	U		<0.099	U		<0.22	U		<0.17	U	
		VMP-7-13.5-111910	11/19/2010	<0.93	U		<1.7	U		<0.53	U		<0.98	U		<1.7	U		<1	U		26		J	<1.5	U		<1.2	U	
		VMP-7-13.5-020711	2/7/2011	<0.0057	U		<0.01	U		<0.0032	U		<0.006	U		<0.01	U		<0.0064	U		0.0013	J		<0.0095	J	U	<0.0074	J	U
		VMP-7-13.5-040711	4/7/2011	<0.0099	U		<0.018	U		<0.023	U		<0.01	U		<0.018	U		<0.011	U		0.0091			<0.016	U		<0.013	U	
	29.5 ft	VMP-7-29.5	11/9/2009	<0.88	U		<1.6	U		<0.5	U		<0.93	U		<1.6	U		<0.99	U		610		J	<1.5	U		<1.1	U	
		VMP-7-29.5-083110	8/31/2010	<1.9	U		<3.5	U		<1.1	U		<2	U		<3.4	U		<2.1	U		540		J	<3.2	U		<2.5	U	
		VMP-7-29.5-111910	11/19/2010	<2.8	U		<5.3	U		<1.6	U		<3	U		<5.1	U		<3.2	U		410		J	<4.8	U		<3.7	U	
		VMP-7-29.5-020711	2/7/2011	<3	U		<5.5	U		<1.7	U		<3.1	U		<5.3	U		<3.3	U		440			<5	U		<3.9	U	
		VMP-7-29.5-040711	4/7/2011	<0.72	U		<1.3	U		<1.6	U		<0.76	U		<1.3	U		<0.81	U		280		J	<1.2	U		<0.94	U	
	38 ft	VMP-7-38	11/9/2009	<0.3	U		<0.56	U		<0.17	U		<0.32	U		<0.54	U		<0.34	U		220		J	<0.51	U		<0.4	U	
		VMP-7-38-020711	2/7/2011	<4	U		<7.4	U		<2.3	U		<4.2	U		<7.1	U		<4.5	U		390			<6.6	U		<5.2	U	
		VMP-7-38-040711	4/7/2011	<1	U		<1.9	U		<2.3	U		<1.1	U		<1.8	U		<1.1	U		350		J	<1.7	U		<1.3	U	
VMP-8	5 ft	VMP-8-5	11/10/2009	<0.005	U		<0.009	U		<0.003	U		<0.005	U		<0.009	U		<0.006	U		0.0083			<0.009	U		<0.007	U	
		VMP - 8 - 5 - 083010	8/30/2010	0.0032	J		<0.011	U		<0.0035	U		0.0039	J		<0.011	U		0.0018	J	J	<0.0046	U		0.0015	J		0.0034	J	
		VMP-8-5-111810	11/17/2010	<0.0054	U		<0.0099	U		<0.0031	U		0.001	J		<0.0096	U		<0.006	U		<0.004	U		<0.009	U		<0.007	U	
		VMP-8-5-021011	2/10/2011	<0.0057	U		<0.01	U		<0.0032	U		<0.006	U		<0.01	U		<0.0064	U		0.0012	J		<0.0095	U		<0.0074	U	
		VMP-8-5-040711	4/7/2011	<0.0064	U		0.0023	J		<0.014	U		0.00094	J		<0.011	U		<0.0071	U		0.0014	J		<0.011	U		<0.0083	J	U
	9.5 ft	VMP-8-9.5	11/10/2009	<0.005	U		<0.009	U		<0.003	U		<0.005	U		<0.009	U		<0.005	U		<0.003	U		<0.008	U		<0.006	U	
		VMP-8-9.5-083010	8/30/2010	0.0027	J		<0.01	U		<0.0032	U		<0.0059	U		<0.01	U		<0.0063	U		<0.0042	U		<0.0093	U		<0.0073	U	
		VMP-8-9.5-083010-DUP	8/30/2010	0.0028	J		<0.01	U		<0.0032	U		0.00094	J		<0.01	U		<0.0064	U		<0.0042	U		<0.0095	U		<0.0074	U	
		VMP-8-9.5-111810	11/17/2010	<0.0056	U		<0.01	U		<0.0032	U		<0.0059	U		<0.01	U		<0.0063	U		0.0011	J		<0.0093	U		<0.0073	U	
		VMP-8-9.5-021011	2/10/2011	<0.0058	U		<0.011	U		<0.0033	U		<0.0062	U		<0.01	U		<0.0065	U		<0.0043	U		<0.0097	U		<0.0076	U	
		VMP-8-9.5-040711	4/7/2011	<0.0064	U		<0.012	U		<0.014	U		<0.0067	U		<0.011	U		<0.0071	U		0.00079	J		<0.011	U		<0.0083	U	
	23.5 ft	VMP-8-23.5	11/10/2009	<0.005	U		<0.01	U		<0.003	U		<0.005	U		<0.009	U		<0.006	U		<0.004	U		<0.009	U		<0.007	U	
		VMP-8-23.5-083010	8/30/2010	0.003	J		<0.011	U		<0.0035	U		<0.0064	U		<0.011	U		<0.0068	U		0.002	J		<0.01	U		<0.0079	U	
		VMP-8-23.5-111910	11/19/2010	<0.0058	U		<0.011	U		<0.0033	U		<0.0062	U		<0.01	U		<0.0065	U		0.0018	J		<0.0097	U		<0.0076	U	
		VMP-8-23.5-021011	2/10/2011	<0.0062	U		<0.011	U		<0.0035	U		<0.0066	U		<0.011	U		<0.007	U		<0.0046	U		<0.01	U		<0.0081	U	
		VMP-8-23.5-040711	4/7/2011	<0.0058	U		0.0021	J		<0.013	U		<0.0062	U		<0.01	U		<0.0065	U		0.001	J		<0.0097	U		<0.0076	U	
		VMP-8-23.5-040711-DUP	4/7/2011	<0.0092	U		0.0033	J		<0.021	U		<0.0098	U		<0.016	U		<0.01	U		0.0027	J		<0.015	U		<0.012	U	

See last page of table for notes.

TABLE 3
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,3-Dichlorobenzene			1,4-Dichlorobenzene			Dichlorodifluoromethane			1,2-Dichloroethane			1,1-Dichloroethene			Dichloromethane (Methylene chloride)			1,2-Dichloropropane			1,4-Dioxane			Ethanol		
				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	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-5	5 ft	VMP-5-5	11/5/2009	<1.3	U		<1.3	U		<1.1	U		<0.91	U		<0.89	U		<0.78	U		<1	U		<3.2	U		<1.7	U	
		VMP-5-5-090910	9/9/2010	<16	U		<16	U		<13	U		<11	U		<10	U		<9.2	U		<12	U		<38	U		<20	U	
		VMP-5-5-112210	11/22/2010	<3.9	U		<3.9	U		<3.2	U		<2.6	U		<2.6	U		<2.2	U		<3	U		<9.3	U		<4.9	U	
		VMP-5-5-021611	2/16/2011	<0.025	U		<0.025	U		<0.02	U		<0.017	U		<0.016	U		<0.014	U		<0.019	U		<0.059	U		<0.031	U	
		VMP-5-5-042111	4/21/2011	<0.079	U		<0.079	U		<0.065	U		<0.053	U		<0.052	U		<0.046	U		<0.061	U		<0.19	U		<0.099	U	
	12.5 ft	VMP-5-12.5	11/6/2009	<1.6	U		<1.6	U		<1.3	U		<1	U		<1	U		<0.9	U		<1.2	U		<3.7	U		<1.9	U	
		VMP-5-12.5-D	11/6/2009	<3.5	U		<3.5	U		<2.9	U		<2.3	U		<2.3	U		<2	U		<2.7	U		<8.4	U		<4.4	U	
		VMP-5-12.5-090910	9/9/2010	<7.9	U		<7.9	U		<6.5	U		<5.3	U		<5.2	U		<4.6	U		<6.1	U		<19	U		<9.9	U	
		VMP-5-12.5-112310	11/23/2010	<0.4	U		<0.4	U		<0.33	U		<0.27	U		<0.26	U		<0.23	U		<0.3	U		<0.95	U		<0.5	U	
		VMP-5-12.5-021611	2/16/2011	<1.2	U		<1.2	U		<0.98	U		<0.8	U		<0.79	U		<0.69	U		<0.92	U		<2.9	U		<1.5	U	
		VMP-5-12.5-042111	4/21/2011	<0.085	U		<0.085	U		<0.07	U		<0.057	U		<0.056	U		<0.049	U		<0.065	U		<0.2	U		<0.11	U	
	31 ft	VMP-5-31	11/6/2009	<14	U		<14	U		<12	U		<9.6	U		<9.4	U		<8.3	U		<11	U		<34	U		<18	U	
		VMP-5-31-090910	9/9/2010	<33	U		<33	U		<27	U		<22	U		<22	U		<19	U		<25	U		<79	U		<41	U	
		VMP-5-31-112310	11/23/2010	<21	U		<21	U		<17	U		<14	U		<14	U		<12	U		<16	U		<50	U		<26	U	
		VMP-5-31-021611	2/16/2011	<8.3	U		<8.3	U		<6.8	U		<5.6	U		<5.5	U		<4.8	U		<6.4	U		<20	U		<10	U	
		VMP-5-31-042111	4/21/2011	<120	U		<120	U		<100	U		<83	U		<82	U		<72	U		<95	U		<300	U		<160	U	
	40 ft	VMP-5-40	11/6/2009	<20	U		<20	U		<16	U		<13	U		<13	U		<11	U		<15	U		<47	U		<25	U	
		VMP-5-40-042111	4/21/2011	<130	U		<130	U		<110	U		<87	U		<85	U		<75	U		<100	U		<310	U		<160	U	
VMP-6	5 ft	VMP-6-5	11/6/2009	<2.4	U		<2.4	U		<2	U		<1.6	U		<1.6	U		<1.4	U		<1.8	U		<5.7	U		<3	U	
		VMP-6-5-090810	9/8/2010	<1.3	U		<1.3	U		<1.1	U		<0.89	U		<0.87	U		<0.76	U		<1	U		<3.2	U		<1.6	U	
		VMP-6-5-111610	11/16/2010	<8.3	U		<8.3	U		<6.8	U		<5.6	U		<5.5	U		<4.8	U		<6.4	U		<20	U		<10	U	
		VMP-6-5-020711	2/7/2011	<0.0072	J	U	<0.0072	J	U	0.0025	J		<0.0048	U		<0.0047	U		<0.0041	U		<0.0055	U		<0.017	U		0.0051	J	
		VMP-6-5-040811	4/8/2011	<0.016	J	U	<0.016	J	U	0.0029	J		<0.01	U		<0.01	U		0.0043	J		<0.012	U		<0.037	U		0.02		
	10 ft	VMP-6-10	11/6/2009	<2.6	U		<2.6	U		<2.1	U		<1.7	U		<1.7	U		<1.5	U		<2	U		<6.2	U		<3.2	U	
		VMP-6-10-090810	9/8/2010	<1.4	U		<1.4	U		<1.2	U		<0.96	U		<0.94	U		<0.83	U		<1.1	U		<3.4	U		<1.8	U	
		VMP-6-10-111710	11/17/2010	<0.0078	U		<0.0078	U		0.002	J		<0.0052	U		<0.0051	U		<0.0045	U		<0.006	U		<0.018	U		0.0037	J	
		VMP-6-10-020711	2/7/2011	<0.0076	J	U	<0.0076	J	U	0.0021	J		<0.0051	U		<0.005	U		<0.0044	U		<0.0058	U		<0.018	U		<0.0095	U	
		VMP-6-10-040811	4/8/2011	<0.18	U		<0.18	U		<0.15	U		<0.12	U		<0.12	U		0.12			<0.14	U		<0.44	U		0.12	J	
	31.5 ft	VMP-6-31.5	11/9/2009	<17	U		<17	U		<14	U		<11	U		<11	U	UJ	<9.7	U	UJ	<13	U		<40	U		<21	U	
		VMP-6-31.5-090810	9/8/2010	<9.7	U		<9.7	U		<8	U		<6.5	U		<6.4	U		<5.6	U		<7.4	U		<23	U		<12	U	
		VMP-6-31.5-111710	11/17/2010	<15	U		<15	U		<12	U		<10	U		<10	U		<8.8	U		<12	U		<36	U		<19	U	
		VMP-6-31.5-020711	2/7/2011	<14	U		<14	U		<12	U		<9.8	U		<9.6	U		<8.4	U		<11	U		<35	U		<18	U	
		VMP-6-31.5-041111	4/11/2011	<11	U		1.1	J		<9.3	U		<7.6	U		<7.4	U		5.8	J		<8.7	U		<27	U		3.2	J	
	39 ft	VMP-6-39	11/9/2009	<19	U		<19	U		<16	U		<13	U		<13	U	UJ	<11	U	UJ	<15	U		<46	U		<24	U	
		VMP-6-39-041111	4/11/2011	<13	U		<13	U		<11	U		<9	U		<8.9	U		3.7	J		<10	U		<32	U		<17	U	
VMP-7	5 ft	VMP-7-5	11/9/2009	<0.007	U		<0.007	U		<0.005	U		<0.004	U		<0.004	U		<0.004	U		<0.005	U		<0.017	U		0.11		J
		VMP-7-5-082610	8/26/2010	<0.0079	U		<0.0079	U		0.003	J		<0.0053	U		<0.0052	U		0.0023	J		<0.0061	U		<0.019	U		0.007	J	
		VMP-7-5-111910	11/19/2010	<0.0072	U		<0.0072	U		<0.0059	U		<0.0048	U		<0.0047	U		<0.0041	U		<0.0055	U		0.0093	J		0.0031	J	
		VMP-7-5-020711	2/7/2011	<0.0078	U		<0.0078	J	U	0.0025	J		<0.0052	U		<0.0051	U		0.0013	J		<0.006	U		<0.018	U		0.0087	J	
		VMP-7-5-040711	4/7/2011	<0.011	U		<0.011	U		0.0014	J		<0.0074	U		<0.0072	U		<0.0063	J	U	<0.0084	U		<0.026	U		0.0034	J	
	13.5 ft	VMP-7-13.5	11/9/2009	<0.054	U		<0.054	U		<0.044	U		<0.036	U		<0.035	U		<0.031	U		<0.041	U		<0.13	U		<0.067	U	
		VMP-7-13.5-082610	8/26/2010	<0.17	U		<0.17	U		<0.14	U		<0.12	U		<0.11	U		<0.1	U		<0.13	U		<0.42	U		<0.22	U	
		VMP-7-13.5-111910	11/19/2010	<1.2	U		<1.2	U		<1	U		<0.82	U		<0.8	U		0.91		J	<0.93	U		<2.9	U		<1.5	U	
		VMP-7-13.5-020711	2/7/2011	<0.0074	U		<0.0074	J	U	0.0019	J		<0.005	U		<0.0049	U		<0.0043	U		<0.0057	U		<0.018	U		<0.0093	U	
		VMP-7-13.5-040711	4/7/2011	<0.013	U		<0.013	U		<0.011	U		<0.0087	U		<0.0086	U		<0.0075	J	U	<0.01	U		<0.031	U		<0.016	U	
	29.5 ft	VMP-7-29.5	11/9/2009	<1.1	U		<1.1	U		<0.94	U		<0.77	U		<0.76	U		<0.66	U		<0.88	U		<2.8	U		<1.4	U	
		VMP-7-29.5-083110	8/31/2010	<2.5	U		<2.5	U		<2	U		<1.7	U		<1.6	U		<1.4	U		<1.9	U		<5.9	U		<3.1	U	
		VMP-7-29.5-111910	11/19/2010	<3.7	U		<3.7	U		<3.1	U		<2.5	U		<2.4	U		<2.2	U		<2.9	U		<8.9	U		<4.7	U	
		VMP-7-29.5-020711	2/7/2011	<3.9	U		<3.9	U		<3.2	U		<2.6	U		<2.6	U		<2.2	U		<3	U		<9.3	U		<4.9	U	
		VMP-7-29.5-040711	4/7/2011	<0.94	U		<0.94	U		<0.77	U		<0.63	U		<0.62	U		<0.54	U		<0.72	U		<2.2	U		<1.2	U	
	38 ft	VMP-7-38	11/9/2009	<0.4	U		<0.4	U		<0.33	U		<0.27	U		<0.26	U		<0.23	U		<0.3	U		<0.95	U		<0.5	U	
		VMP-7-38-020711	2/7/2011	<5.2	U		<5.2	U		<4.3	U		<3.5	U		<3.4	U		<3	U		<4	U		<12	U		<6.5	U	
		VMP-7-38-040711	4/7/2011	<1.3	U		<1.3	U		<1.1	U		<0.89	U		<0.87	U		<0.76	U		<1	U		<3.2	U		<1.6	U	
VMP-8	5 ft	VMP-8-5	11/10/2009	<0.007	U		<0.007	U		<0.005	U		<0.004	U		<0.004	U		<0.004	U		<0.005	U		<0.017	U		0.023		J
		VMP - 8 - 5 - 083010	8/30/2010	0.0038	J		0.0046	J		0.0026	J		0.00092	J		<0.0053	U		0.0026	J		<0.0062	U		<0.019	U		<0.01	U	
		VMP-8-5-111810	11/17/2010	<0.007	U		<0.007	U		0.0027	J		<0.0047	U		<0.0046	U		0.00071	J		<0.0054	U		<0.017	U		0.0073	J	
		VMP-8-5-021011	2/10/2011	<0.0074	U		<0.0074	U		<0.0061	U		<0.005	U		<0.0049	U		<0.0043	U		<0.0057	U		<0.018	U		<0.0093	U	
		VMP-8-5-040711	4/7/2011	<0.0083	U		<0.0083	J	U	0.0026	J		<0.0056	U		<0.0055	U		<0.0048	U		<0.0064	U		0.0057	J		<0.01	U	
	9.5 ft	VMP-8-9.5	11/10/2009	<0.006	U		<0.006	U		<0.005	U		<0.004	U		<0.004	U		<0.003	U		<0.005	U		<0.016	U		0.03		J
		VMP-8-9.5-083010	8/30/2010	0.0025	J		0.0029	J		0.0024	J		<0.0049	U		<0.0048	U		0.005			<0.0056	U		<0.017	U		0.016		
		VMP-8-9.5-083010-DUP	8/30/2010	0.0021	J		0.0026	J		0.0024	J		0.0007	J		<0.0049	U		0.0013	J		0.00099	J		<0.018	U		0.013		
		VMP-8-9.5-111810	11/17/2010	<0.0073	U		<0.0073	U		0.0024	J		<0.0049	U		<0.0048	U		<0.0042	U		<0.0056	U		0.0021	J		0.01		
		VMP-8-9.5-021011	2/10/2011	<0.0076	U		<0.0076	U		0.0019	J		<0.0051	U		<0.005	U		<0.0044	U		<0.0058	U		<0.018	U		0.0028	J	
		VMP-8-9.5-040711	4/7/2011	<0.0083	U		0.00092	J		0.0016	J		<0.0056	U		<0.0055	U		0.00097	J		<0.0064	U		<0.02	U		0.0074	J	
	23.5 ft	VMP-8-23.5	11/10/2009	<0.007	U		<0.007	U		<0.005	U		<0.004	U		<0.004	U		<0.004	U		<0.005	U		<0.017	U		0.023		J
		VMP-8-23.5-083010	8/30/2010	0.0021	J		0.0026	J		0.0028	J		0.00085	J		<0.0052	U		0.0015	J		<0.0061	U		<0.019	U		0.0069	J	
		VMP-8-23.5-111910	11/19/2010	<0.0076	U		<0.0076	U		<0.0062	U		<0.0051	U		<0.005	U		<0.0044	U		<0.0058	U		<0.018	U		0.0076	J	
		VMP-8-23.5-021011	2/10/2011	<0.0081	U		<0.0081	U		0.0022	J		<0.0054	U		<0.0053	U		<0.0047	U		<0.0062	U		<0.019	U		<0.01	U	
		VMP-8-23.5-040711	4/7/2011	<0.0076	U		<0.0076	U		0.0023	J		<0.0051	U		<0.005	U		0.0066			<0.0058	U		<0.018	U		0.0075	J	
		VMP-8-23.5-040711-DUP	4/7/2011	0.0016	J		0.0017	J		0.0017	J		0.0014	J		<0.0079	U		0.0021	J		<0.0092	U		<0.029	U		0.0073	J	

See last page of table for notes.

TABLE 3
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Ethylbenzene			4-Ethyltoluene			Heptane			Hexane			Isopentane			Isopropylbenzene (Cumene)			Methyl tert-Butyl Ether (MTBE)			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
				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-5	5 ft	VMP-5-5	11/5/2009	<0.97	U		<1.1	U		9.1			170						<1.1	U		<0.81	U		<0.92	U	
		VMP-5-5-090910	9/9/2010	<11	U		20			140			1500						<13	U		<9.5	U		<11	U	
		VMP-5-5-112210	11/22/2010	<2.8	U		<3.2	U		120			1400						<3.2	U		<2.3	U		<2.6	U	
		VMP-5-5-021611	2/16/2011	0.0041	J	J	<0.02	U		<0.017	U		<0.014	U					<0.02	U		<0.015	U		<0.017	U	
		VMP-5-5-042111	4/21/2011	<0.057	U		<0.065	U		<0.054	U		0.035	J		0.25			<0.065	U		<0.048	U		<0.54	U	
	12.5 ft	VMP-5-12.5	11/6/2009	<1.1	U		<1.3	U		46			650						<1.3	U		<0.93	U		<1	U	
		VMP-5-12.5-D	11/6/2009	<2.5	U		<2.8	U		47			640						<2.8	U		<2.1	U		<2.4	U	
		VMP-5-12.5-090910	9/9/2010	<5.7	U		9.2			120			1300						<6.5	U		<4.8	U		<5.4	U	
		VMP-5-12.5-112310	11/23/2010	0.1	J		<0.32	U		<0.27	U		15						<0.32	U		<0.24	U		<0.27	U	
		VMP-5-12.5-021611	2/16/2011	<0.86	U		<0.98	U		5.8			110						<0.98	U		<0.72	U		<0.81	U	
		VMP-5-12.5-042111	4/21/2011	<0.061	U		<0.069	U		<0.058	U		0.03	J		0.2			<0.069	U		<0.051	U		<0.58	U	
	31 ft	VMP-5-31	11/6/2009	<10	U		<12	U		910			4900						<12	U		<8.6	U		<9.7	U	
		VMP-5-31-090910	9/9/2010	<24	U		<27	U		1300			7700						<27	U		<20	U		<22	U	
		VMP-5-31-112310	11/23/2010	<15	U		<17	U		1700			8200						<17	U		<12	U		<14	U	
		VMP-5-31-021611	2/16/2011	<6	U		<6.8	U		950			5600						<6.8	U		<5	U		<5.6	U	
		VMP-5-31-042111	4/21/2011	<89	U		<100	U		900			6200			44000			<100	U		<74	U		<840	U	
	40 ft	VMP-5-40	11/6/2009	<14	U		<16	U		810			4400						<16	U		<12	U		<13	U	
		VMP-5-40-042111	4/21/2011	<94	U		<100	U		730			4900			35000			<100	U		<78	U		<880	U	
VMP-6	5 ft	VMP-6-5	11/6/2009	6.5		J	<1.9	U		380		J	720		J				2.7		J	<1.4	U		<1.6	U	
		VMP-6-5-090810	9/8/2010	<0.96	U		1	J		43			130						<1.1	U		<0.79	U		<0.9	U	
		VMP-6-5-111610	11/16/2010	5.5	J		<6.8	U		600			1100						4.2	J		<5	U		<5.6	U	
		VMP-6-5-020711	2/7/2011	0.013			0.0071			0.03			0.022						0.0024	J		<0.0043	U		<0.0049	U	
		VMP-6-5-040811	4/8/2011	<0.011	U		<0.013	U		<0.011	U		<0.0091	U		0.44			<0.013	U		<0.0093	U		<0.011	U	
	10 ft	VMP-6-10	11/6/2009	5.2			<2.1	U		480			900						3.6			<1.6	U		<1.8	U	
		VMP-6-10-090810	9/8/2010	0.68	J	J	0.9	J	J	160		J	400		J				0.54	J	J	<0.86	U		<0.97	U	
		VMP-6-10-111710	11/17/2010	0.0014	J		<0.0063	U		0.0043	J		0.013						<0.0063	U		0.00056	J		<0.0053	U	
		VMP-6-10-020711	2/7/2011	<0.0055	U		<0.0062	U		0.0018	J		0.0038	J					<0.0062	U		<0.0045	U		<0.0052	U	
		VMP-6-10-040811	4/8/2011	0.028	J		<0.15	U		<0.12	U		<0.11	U		<0.36	U		<0.15	U		<0.11	U		<0.12	U	
	31.5 ft	VMP-6-31.5	11/9/2009	180			37			1800			3100						18			<10	U		<11	U	
		VMP-6-31.5-090810	9/8/2010	160			16			1900			3200						19			<5.8	U		<6.6	U	
		VMP-6-31.5-111710	11/17/2010	150			13			2200			3400						19			<9.1	U		<10	U	
		VMP-6-31.5-020711	2/7/2011	180			23			1900			3000						26			<8.7	U		<9.9	U	
		VMP-6-31.5-041111	4/11/2011	84			9.4			1100			2200			1700			10			<6.8	U		<7.7	U	
	39 ft	VMP-6-39	11/9/2009	290			82			2400			4200						24			<11	U		<13	U	
		VMP-6-39-041111	4/11/2011	120			14			1200			2300			1700			12			<8	U		<9.2	U	
VMP-7	5 ft	VMP-7-5	11/9/2009	0.012			<0.005	U		0.091			0.11						<0.005	U		<0.004	U		<0.004	U	
		VMP-7-5-082610	8/26/2010	<0.0057	U		<0.0065	U		0.0044	J		0.016						<0.0065	U		<0.0048	U		<0.0054	U	
		VMP-7-5-111910	11/19/2010	0.00077	J		<0.0058	U		0.0039	J		0.0047						<0.0058	U		<0.0043	U		<0.0049	U	
		VMP-7-5-020711	2/7/2011	<0.0056	U		<0.0063	U		0.0041	J		0.0024	J					<0.0063	U		<0.0046	U		<0.0053	U	
		VMP-7-5-040711	4/7/2011	<0.0079	U		<0.0089	U		0.0074			0.016			0.019	J		<0.0089	U		<0.0066	U		<0.0074	U	
	13.5 ft	VMP-7-13.5	11/9/2009	<0.039	U		<0.044	U		<0.037	U		0.052						<0.044	U		<0.032	U		<0.037	U	
		VMP-7-13.5-082610	8/26/2010	<0.12	U		<0.14	U		<0.12	U		0.035	J					0.015	J		<0.1	U		<0.12	U	
		VMP-7-13.5-111910	11/19/2010	<0.87	U		<0.99	U		4.9		J	8.9		J				<0.99	U		<0.73	U		<0.82	U	
		VMP-7-13.5-020711	2/7/2011	<0.0054	U		<0.0061	U		0.0011	J		0.0013	J					<0.0061	U		<0.0044	U		<0.005	U	
		VMP-7-13.5-040711	4/7/2011	<0.0094	U		<0.011	U		0.0064	J		0.022			0.024	J		<0.011	U		<0.0078	U		<0.0088	U	
	29.5 ft	VMP-7-29.5	11/9/2009	<0.83	U		<0.94	U		460		J	420		J				7.5		J	<0.69	U		<0.78	U	
		VMP-7-29.5-083110	8/31/2010	<1.8	U		<2	U		420		J	420		J				6		J	<1.5	U		<1.7	U	
		VMP-7-29.5-111910	11/19/2010	<2.7	U		<3	U		300		J	270						4.8		J	<2.2	U		<2.5	U	
		VMP-7-29.5-020711	2/7/2011	<2.8	U		0.77	J		350			320						10			<2.3	U		<2.6	U	
		VMP-7-29.5-040711	4/7/2011	<0.68	U		0.23	J	J	220		J	190		J	380		J	3.4		J	<0.56	U		<0.64	U	
	38 ft	VMP-7-38	11/9/2009	<0.29	U		<0.32	U		170		J	140		J				4		J	<0.24	U		<0.27	U	
		VMP-7-38-020711	2/7/2011	<3.8	U		<4.2	U		210			280						6.8			<3.1	U		<3.5	U	
		VMP-7-38-040711	4/7/2011	<0.96	U		<1.1	U		110		J	150		J	500		J	0.56	J	J	<0.79	U		<0.9	U	
VMP-8	5 ft	VMP-8-5	11/10/2009	<0.005	U		<0.005	U		0.016			0.016						<0.005	U		<0.004	U		<0.004	U	
		VMP - 8 - 5 - 083010	8/30/2010	<0.0058	U		0.0014	J		0.0019	J		0.0032	J					<0.0066	U		0.00052	J		<0.0055	U	
		VMP-8-5-111810	11/17/2010	<0.005	J	U	<0.0057	U		0.0025	J		0.0019	J					<0.0057	U		0.00055	J		<0.0048	U	
		VMP-8-5-021011	2/10/2011	<0.0054	U		<0.0061	U		<0.0051	U		0.0011	J					<0.0061	U		<0.0044	U		<0.005	U	
		VMP-8-5-040711	4/7/2011	<0.006	U		<0.0068	U		<0.0056	U		<0.0049	U		0.0037	J		<0.0068	U		<0.005	U		<0.0056	U	
	9.5 ft	VMP-8-9.5	11/10/2009	<0.004	U		<0.005	U		0.0046			0.0042						<0.005	U		<0.004	U		<0.004	U	
		VMP-8-9.5-083010	8/30/2010	<0.0052	U		0.0011	J		0.0017	J		0.0055						<0.0059	U		0.00039	J		<0.005	U	
		VMP-8-9.5-083010-DUP	8/30/2010	<0.0054	U		<0.0061	U		0.0016	J		0.0034	J					<0.0061	U		<0.0044	U		<0.005	U	
		VMP-8-9.5-111810	11/17/2010	<0.0052	J	U	<0.0059	U		<0.005	U		0.0017	J					<0.0059	U		0.00054	J		<0.005	U	
		VMP-8-9.5-021011	2/10/2011	<0.0055	U		<0.0062	U		<0.0052	U		<0.0044	U					<0.0062	U		<0.0045	U		<0.0052	U	
		VMP-8-9.5-040711	4/7/2011	<0.006	U		<0.0068	U		<0.0056	U		0.0012	J		0.0031	J		<0.0068	U		<0.005	U		<0.0056	U	
	23.5 ft	VMP-8-23.5	11/10/2009	<0.005	U		<0.005	U		<0.004	U		<0.004	U					<0.005	U		<0.004	U		<0.004	U	
		VMP-8-23.5-083010	8/30/2010	<0.0057	U		<0.0065	U		0.0021	J		0.0024	J					<0.0065	U		0.00037	J		<0.0054	U	
		VMP-8-23.5-111910	11/19/2010	0.0015	J		<0.0062	U		0.0015	J		0.0018	J					<0.0062	U		<0.0045	U		<0.0052	U	
		VMP-8-23.5-021011	2/10/2011	<0.0058	U		<0.0066	U		<0.0055	U		<0.0047	U					<0.0066	U		<0.0048	U		<0.0055	U	
		VMP-8-23.5-040711	4/7/2011	0.00066	J		<0.0062	U		<0.0052	U		0.0027	J		0.003	J		<0.0062	U		<0.0045	U		<0.0052	U	
		VMP-8-23.5-040711-DUP	4/7/2011	<0.0087	U		<0.0098	U		<0.0082	U		0.0028	J		0.0049	J		<0.0098	U		0.00068	J		<0.0082	U	

See last page of table for notes.

TABLE 3
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS - VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	2-Propanol			n-Propylbenzene			Styrene			Tetrachloroethene			Tetrahydrofuran			Toluene			1,2,4-Trichlorobenzene			1,1,1-Trichloroethane (Methyl chloroform)		
				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-5	5 ft	VMP-5-5	11/5/2009	<2.2	U		<1.1	U		<0.95	U		<1.5	U		<0.66	U		<0.84	U		<6.6	U	UJ	<1.2	U	
		VMP-5-5-090910	9/9/2010	<26	U		4.8	J		<11	U		<18	U		<7.8	U		<9.9	U		<78	U		<14	U	
		VMP-5-5-112210	11/22/2010	<6.3	U		<3.2	U		<2.7	U		<4.4	U		<1.9	U		<2.4	U		<19	U		<3.5	U	
		VMP-5-5-021611	2/16/2011	0.3		J	<0.02	U		<0.018	U		<0.028	U		<0.012	U		0.0078	J	J	<0.12	U		<0.022	U	
		VMP-5-5-042111	4/21/2011	<0.13	U		<0.065	U		<0.56	U		0.078	J		<0.039	U		<0.05	U		<0.39	U		<0.072	U	
	12.5 ft	VMP-5-12.5	11/6/2009	<2.5	U		<1.3	U		<1.1	U		<1.8	U		<0.76	U		<0.97	U		<7.6	U		<1.4	U	
		VMP-5-12.5-D	11/6/2009	<5.7	U		<2.8	U		<2.5	U		<3.9	U		<1.7	U		<2.2	U		<17	U		<3.2	U	
		VMP-5-12.5-090910	9/9/2010	<13	U		2.1	J		<5.6	U		<9	U		<3.9	U		<5	U		<39	U		<7.2	U	
		VMP-5-12.5-112310	11/23/2010	<0.65	U		<0.32	U		<0.28	U		<0.45	U		<0.19	U		0.5			<2	U		<0.36	U	
		VMP-5-12.5-021611	2/16/2011	<2	U		<0.98	U		<0.84	U		<1.3	U		<0.58	U		<0.75	U		<5.9	U		<1.1	U	
		VMP-5-12.5-042111	4/21/2011	<0.14	U		<0.069	U		<0.6	U		<0.096	U		<0.042	U		<0.053	U		<0.42	U		<0.077	U	
	31 ft	VMP-5-31	11/6/2009	<23	U		<12	U		<10	U		<16	U		<7	U		<9	U		<71	U		<13	U	
		VMP-5-31-090910	9/9/2010	<54	U		<27	U		<23	U		<37	U		<16	U		4.3	J		<160	U		<30	U	
		VMP-5-31-112310	11/23/2010	<34	U		<17	U		<15	U		<23	U		<10	U		8.2	J		<100	U		<19	U	
		VMP-5-31-021611	2/16/2011	<14	U		<6.8	U		<5.9	U		<9.4	U		<4.1	U		2.5	J		<41	U		<7.5	U	
		VMP-5-31-042111	4/21/2011	<200	U		<100	U		<880	U		<140	U		<61	U		<78	U		<610	U		<110	U	
	40 ft	VMP-5-40	11/6/2009	<32	U		<16	U		<14	U		<22	U		<9.7	U		<12	U		<97	U		<18	U	
		VMP-5-40-042111	4/21/2011	<210	U		<100	U		<920	U		<150	U		<64	U		<81	U		<640	U		<120	U	
VMP-6	5 ft	VMP-6-5	11/6/2009	<3.9	U		5.8		J	<1.7	U		<2.7	U		<1.2	U		<1.5	U		<12	U		<2.2	U	
		VMP-6-5-090810	9/8/2010	<2.2	U		<1.1	U		<0.94	U		<1.5	U		<0.65	U		<0.83	U		<6.5	U		<1.2	U	
		VMP-6-5-111610	11/16/2010	<14	U		7.7			<5.9	U		<9.4	U		<4.1	U		<5.2	U		<41	U		<7.5	U	
		VMP-6-5-020711	2/7/2011	0.027			0.0034	J		<0.0051	U		<0.0081	U		<0.0035	U		0.015			<0.035	J	U	<0.0065	U	
		VMP-6-5-040811	4/8/2011	0.054			<0.013	U		<0.011	U		<0.018	U		<0.0076	U		0.0037	J		<0.077	U		<0.014	U	
	10 ft	VMP-6-10	11/6/2009	<4.2	U		8			<1.8	U		<2.9	U		<1.3	U		<1.6	U		<13	U		<2.3	U	
		VMP-6-10-090810	9/8/2010	<2.3	U		0.73	J	J	<1	U		<1.6	U		<0.7	U		<0.9	U		<7.1	U		<1.3	U	
		VMP-6-10-111710	11/17/2010	0.0073	J		<0.0063	U		0.0022	J		0.0081	J		<0.0038	U		0.001	J		<0.038	U		0.0014	J	
		VMP-6-10-020711	2/7/2011	0.0045	J		<0.0062	J	U	<0.0054	U		0.0013	J		<0.0037	U		0.0029	J		<0.037	J	U	<0.0069	U	
		VMP-6-10-040811	4/8/2011	0.53			<0.15	U		0.093	J		<0.2	U		0.15			0.043	J		<0.9	U		<0.16	U	
	31.5 ft	VMP-6-31.5	11/9/2009	<28	U		44			<12	U		<19	U		<8.2	U		<10	U		<83	U		<15	U	
		VMP-6-31.5-090810	9/8/2010	4	J		42			<6.8	U		<11	U		<4.7	U		<6.1	U		<48	U		<8.8	U	
		VMP-6-31.5-111710	11/17/2010	<25	U		43			<11	U		<17	U		<7.4	U		<9.5	U		<75	U		<14	U	
		VMP-6-31.5-020711	2/7/2011	4.7	J		75			<10	U		<16	U		<7.1	U		2.8	J		<72	U		<13	U	
		VMP-6-31.5-041111	4/11/2011	13	J		27			3	J		1	J		<5.5	U		1.4	J		<56	U		<10	U	
	39 ft	VMP-6-39	11/9/2009	<31	U		60			<14	U		<22	U		<9.4	U		<12	U		<94	U		<17	U	
		VMP-6-39-041111	4/11/2011	7.5	J		30			2.6	J		<15	U		<6.6	U		2.3	J		<66	U		<12	U	
VMP-7	5 ft	VMP-7-5	11/9/2009	0.55			<0.005	U		<0.005	U		<0.007	U		<0.003	U		0.0071			<0.034	U		<0.006	U	
		VMP-7-5-082610	8/26/2010	0.0064	J		<0.0065	U		<0.0056	U		<0.009	U		<0.0039	U		0.0012	J		<0.039	U		<0.0072	U	
		VMP-7-5-111910	11/19/2010	0.0053	J		<0.0058	U		<0.0051	U		<0.0081	U		<0.0035	U		<0.0045	U		<0.035	U		<0.0065	U	
		VMP-7-5-020711	2/7/2011	0.0059	J		<0.0063	U		<0.0055	U		<0.0088	U		<0.0038	U		0.001	J		<0.038	J	U	<0.007	U	
		VMP-7-5-040711	4/7/2011	<0.018	U		<0.0089	U		<0.0078	U		<0.012	U		<0.0054	U		0.0025	J		<0.054	U		<0.0099	U	
	13.5 ft	VMP-7-13.5	11/9/2009	<0.088	U		<0.044	U		<0.038	U		<0.061	U		<0.026	U		<0.034	U		<0.26	U		<0.049	U	
		VMP-7-13.5-082610	8/26/2010	<0.28	U		<0.14	U		<0.12	U		<0.2	U		<0.085	U		<0.11	U		<0.86	U		<0.16	U	
		VMP-7-13.5-111910	11/19/2010	<2	U		<0.99	U		<0.86	U		<1.4	U		<0.59	U		<0.76	U		<6	U		<1.1	U	
		VMP-7-13.5-020711	2/7/2011	0.0086	J		<0.0061	U		<0.0053	U		<0.0084	U		<0.0036	U		<0.0046	U		<0.037	J	U	<0.0067	U	
		VMP-7-13.5-040711	4/7/2011	<0.021	U		<0.011	U		<0.0092	U		<0.015	U		<0.0064	U		0.0016	J		<0.064	U		<0.012	U	
	29.5 ft	VMP-7-29.5	11/9/2009	<1.9	U		6.5		J	<0.81	U		<1.3	U		<0.56	U		1.1		J	<5.7	U	UJ	<1	U	
		VMP-7-29.5-083110	8/31/2010	<4	U		5		J	<1.8	U		<2.8	U		<1.2	U		1	J	J	<12	U		<2.2	U	
		VMP-7-29.5-111910	11/19/2010	<6.1	U		3.9		J	<2.6	U		<4.2	U		<1.8	U		<2.3	U		<18	U		<3.4	U	
		VMP-7-29.5-020711	2/7/2011	<6.3	U		9.8			<2.7	U		<4.4	U		<1.9	U		<2.4	U		<19	U		<3.5	U	
		VMP-7-29.5-040711	4/7/2011	<1.5	U		2.5		J	<0.67	U		<1.1	U		<0.46	U		<0.59	U		<4.6	U		<0.85	U	
	38 ft	VMP-7-38	11/9/2009	<0.65	U		3.5		J	<0.28	U		<0.45	U		<0.19	U		0.55		J	<2	U	UJ	<0.36	U	
		VMP-7-38-020711	2/7/2011	<8.5	U		4.6			<3.7	U		<5.9	U		<2.6	U		<3.2	U		<26	U		<4.7	U	
		VMP-7-38-040711	4/7/2011	<2.2	U		0.43	J	J	<0.94	U		<1.5	U		<0.65	U		<0.83	U		<6.5	U		<1.2	U	
VMP-8	5 ft	VMP-8-5	11/10/2009	<0.011	U		<0.005	U		<0.005	U		<0.007	U		<0.003	U		<0.004	U		<0.034	U		<0.006	U	
		VMP - 8 - 5 - 083010	8/30/2010	0.013	J		<0.0066	U		<0.0057	U		0.0048	J		<0.004	U		0.0011	J		0.015	J		0.00087	J	
		VMP-8-5-111810	11/17/2010	0.0026	J		<0.0057	U		0.0024	J		0.0026	J		<0.0034	U		0.00096	J		<0.034	U		0.0009	J	
		VMP-8-5-021011	2/10/2011	0.008	J		<0.0061	U		<0.0053	U		<0.0084	U		<0.0036	U		<0.0046	U		<0.037	U		<0.0067	U	
		VMP-8-5-040711	4/7/2011	<0.014	U		<0.0068	U		<0.0059	U		<0.0094	J	U	<0.0041	U		0.0016	J		<0.041	J	U	<0.0075	U	
	9.5 ft	VMP-8-9.5	11/10/2009	<0.011	U		<0.005	U		<0.004	U		<0.007	U		<0.003	U		<0.004	U		<0.033	U		<0.006	U	
		VMP-8-9.5-083010	8/30/2010	0.029			<0.0059	U		<0.0052	U		0.0045	J		<0.0036	U		0.0033	J		0.01	J		<0.0066	U	
		VMP-8-9.5-083010-DUP	8/30/2010	0.0068	J		<0.0061	U		0.0011	J		0.0043	J		<0.0036	U		0.0007	J		<0.037	U		0.00072	J	
		VMP-8-9.5-111810	11/17/2010	0.0073	J		<0.0059	U		0.0018	J		0.0098			<0.0036	U		0.001	J		<0.036	U		0.0015	J	
		VMP-8-9.5-021011	2/10/2011	0.0036	J		<0.0062	U		<0.0054	U		0.0042	J		<0.0037	U		0.0011	J		<0.037	U		<0.0069	U	
		VMP-8-9.5-040711	4/7/2011	0.0043	J		<0.0068	U		<0.0059	U		0.0046	J		<0.0041	U		0.0012	J		<0.041	U		<0.0075	U	
	23.5 ft	VMP-8-23.5	11/10/2009	<0.012	U		<0.005	U		<0.005	U		<0.008	U		<0.003	U		<0.004	U		<0.035	U		<0.006	U	
		VMP-8-23.5-083010	8/30/2010	0.0046	J		<0.0065	U		<0.0056	U		0.0038	J		<0.0039	U		0.00063	J		<0.039	U		0.00084	J	
		VMP-8-23.5-111910	11/19/2010	0.0063	J		<0.0062	U		0.0024	J		0.0041	J		<0.0037	U		0.0013	J		<0.037	U		<0.0069	U	
		VMP-8-23.5-021011	2/10/2011	0.0076	J		<0.0066	U		<0.0057	U		0.0041	J		<0.004	U		<0.0051	U		<0.04	U		<0.0073	U	
		VMP-8-23.5-040711	4/7/2011	<0.012	U		<0.0062	U		<0.0054	U		0.0045	J		<0.0037	U		0.0015	J		0.002	J		<0.0069	U	
		VMP-8-23.5-040711-DUP	4/7/2011	<0.02	U		<0.0098	U		<0.0085	U		0.0052	J		<0.0059	U		0.0014	J		0.0048	J		<0.011	U	

See last page of table for notes.

TABLE 3
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,1,2-Trichloroethane			Trichloroethene			Trichlorofluoromethane			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			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-5	5 ft	VMP-5-5	11/5/2009	<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		<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		<3.6	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		<0.023	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		<0.071	U		<0.074	U		<0.065	U		<0.065	U		0.097			<0.057	U		<0.057	U	
	12.5 ft	VMP-5-12.5	11/6/2009	<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		<3.1	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		<7.1	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		<0.35	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		<0.98	U		<0.98	U		170			<0.86	U		<0.86	U	
		VMP-5-12.5-042111	4/21/2011	<0.077	U		<0.076	U		<0.079	U		<0.069	U		<0.069	U		0.081			<0.061	U		<0.061	U	
	31 ft	VMP-5-31	11/6/2009	<13	U		<13	U		<13	U		<12	U		<12	U		4000			<10	U		<10	U	
		VMP-5-31-090910	9/9/2010	<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		<18	U		<19	U		<17	U		<17	U		4700			12	J		<15	U	
		VMP-5-31-021611	2/16/2011	<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		<120	U		<100	U		<100	U		3800			<89	U		<89	U	
	40 ft	VMP-5-40	11/6/2009	<18	U		<18	U		<18	U		<16	U		<16	U		3400			<14	U		<14	U	
		VMP-5-40-042111	4/21/2011	<120	U		<120	U		<120	U		<100	U		<100	U		3500			<94	U		<94	U	
VMP-6	5 ft	VMP-6-5	11/6/2009	<2.2	U		<2.1	U		<2.2	U		<1.9	U		<1.9	U		1400		J	3.1		J	<1.7	U	
		VMP-6-5-090810	9/8/2010	<1.2	U		<1.2	U		<1.2	U		0.74	J		0.34	J		340			0.47	J		0.33	J	
		VMP-6-5-111610	11/16/2010	<7.5	U		<7.4	U		<7.8	U		<6.8	U		<6.8	U		2300			3.4	J		<6	U	
		VMP-6-5-020711	2/7/2011	<0.0065	U		0.0022	J		0.0013	J		0.0071			0.0031	J		0.96			0.025			0.01		
		VMP-6-5-040811	4/8/2011	<0.014	U		<0.014	U		<0.014	U		<0.013	J	U	<0.013	U		1.3			0.0039	J		<0.011	U	
	10 ft	VMP-6-10	11/6/2009	<2.3	U		<2.3	U		<2.4	U		<2.1	U		<2.1	U		1800			3.4			<1.9	U	
		VMP-6-10-090810	9/8/2010	<1.3	U		<1.3	U		<1.3	U		0.62	J	J	0.29	J	J	930		J	0.83	J	J	0.32	J	J
		VMP-6-10-111710	11/17/2010	<0.007	U		<0.0069	J	U	0.00081	J		<0.0063	U		<0.0063	U		0.039			<0.0056	J	U	<0.0056	U	
		VMP-6-10-020711	2/7/2011	<0.0069	U		0.0018	J		<0.0071	U		<0.0062	U		<0.0062	U		0.061			<0.0055	U		<0.0055	U	
		VMP-6-10-040811	4/8/2011	<0.16	U		<0.16	U		<0.17	U		<0.15	U		<0.15	U		52			0.032	J		<0.13	U	
	31.5 ft	VMP-6-31.5	11/9/2009	<15	U		<15	U		<16	U		29			<14	U		2500			66			<12	U	
		VMP-6-31.5-090810	9/8/2010	<8.8	U		<8.6	U		<9	U		22			5.3	J		3100			51			<7	U	
		VMP-6-31.5-111710	11/17/2010	<14	U		<14	U		<14	U		15			3.1	J		3600			45			<11	U	
		VMP-6-31.5-020711	2/7/2011	<13	U		<13	U		<14	U		27			4.2	J		3200			64			<10	U	
		VMP-6-31.5-041111	4/11/2011	<10	U		<10	U		<10	U		14			<9.2	U		2400			28			<8.1	U	
	39 ft	VMP-6-39	11/9/2009	<17	U		<17	U		<18	U		79			29			2800			150			<14	U	
		VMP-6-39-041111	4/11/2011	<12	U		<12	U		<12	U		21			3.4	J		2300			41			<9.7	U	
VMP-7	5 ft	VMP-7-5	11/9/2009	<0.006	U		<0.006	U		<0.006	U		<0.005	U		<0.005	U		0.21			0.0079			<0.005	U	
		VMP-7-5-082610	8/26/2010	<0.0072	U		<0.0071	U		0.0016	J		<0.0065	U		<0.0065	U		0.034			0.00071	J		<0.0057	U	
		VMP-7-5-111910	11/19/2010	<0.0065	U		0.0036	J		<0.0067	U		<0.0058	U		<0.0058	U		0.14			<0.0052	U		<0.0052	U	
		VMP-7-5-020711	2/7/2011	<0.007	U		0.0039	J		0.0018	J		<0.0063	U		<0.0063	U		0.084			0.00082	J		<0.0056	U	
		VMP-7-5-040711	4/7/2011	<0.0099	U		0.0032	J		<0.01	U		<0.0089	U		<0.0089	U		0.01			<0.0079	U		<0.0079	U	
	13.5 ft	VMP-7-13.5	11/9/2009	<0.049	U		<0.048	U		<0.05	U		<0.044	U		<0.044	U		22	E	J	<0.039	U		<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		240	E	J	<0.12	U		<0.12	U	
		VMP-7-13.5-111910	11/19/2010	<1.1	U		1.9		J	<1.1	U		<0.99	U		<0.99	U		450			<0.87	U		<0.87	U	
		VMP-7-13.5-020711	2/7/2011	<0.0067	U		0.0023	J		<0.0069	U		<0.0061	U		<0.0061	U		0.034			<0.0054	U		<0.0054	U	
		VMP-7-13.5-040711	4/7/2011	<0.012	U		0.0038	J		<0.012	U		<0.011	U		<0.011	U		0.017			<0.0094	U		<0.0094	U	
	29.5 ft	VMP-7-29.5	11/9/2009	<1	U		<1	U		<1.1	U		<0.94	U		<0.94	U		1200	E	J	2.2		J	<0.83	U	
		VMP-7-29.5-083110	8/31/2010	<2.2	U		<2.2	U		<2.3	U		<2	U		<2	U		1300		J	1.6	J	J	<1.8	U	
		VMP-7-29.5-111910	11/19/2010	<3.4	U		<3.3	U		<3.5	U		<3	U		<3	U		1100		J	0.91	J	J	<2.7	U	
		VMP-7-29.5-020711	2/7/2011	<3.5	U		<3.5	U		<3.6	U		<3.2	U		<3.2	U		1100			1.8	J		<2.8	U	
		VMP-7-29.5-040711	4/7/2011	<0.85	U		<0.84	U		<0.88	U		<0.77	U		<0.77	U		550		J	0.77		J	<0.68	U	
	38 ft	VMP-7-38	11/9/2009	<0.36	U		<0.35	U		<0.37	U		<0.32	U		<0.32	U		410	E	J	1		J	<0.29	U	
		VMP-7-38-020711	2/7/2011	<4.7	U		<4.6	U		<4.9	U		<4.2	U		<4.2	U		920			1.1	J		<3.8	U	
		VMP-7-38-040711	4/7/2011	<1.2	U		<1.2	U		<1.2	U		<1.1	U		<1.1	U		720		J	0.42	J	J	<0.96	U	
VMP-8	5 ft	VMP-8-5	11/10/2009	<0.006	U		<0.006	U		<0.006	U		<0.005	U		<0.005	U		0.031			<0.005	U		<0.005	U	
		VMP - 8 - 5 - 083010	8/30/2010	0.0009	J		0.0027	J		0.0013	J		0.0015	J		<0.0066	U		0.011			0.0014	J		<0.0058	U	
		VMP-8-5-111810	11/17/2010	<0.0064	U		<0.0063	J	U	0.0013	J		<0.0057	J	U	<0.0057	U		0.00032	J		<0.005	J	U	<0.005	U	
		VMP-8-5-021011	2/10/2011	<0.0067	U		<0.0066	U		<0.0069	U		<0.0061	U		<0.0061	U		0.027			<0.0054	U		<0.0054	U	
		VMP-8-5-040711	4/7/2011	<0.0075	U		0.003	J		0.0011	J		<0.0068	U		<0.0068	U		0.003	J		0.0018	J		<0.006	U	
	9.5 ft	VMP-8-9.5	11/10/2009	<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-8-9.5-083010	8/30/2010	0.00075	J		0.0027	J		0.0014	J		0.00098	J		<0.0059	U		0.0024	J		0.0013	J		<0.0052	U	
		VMP-8-9.5-083010-DUP	8/30/2010	0.00084	J		0.0019	J		0.0017	J		0.00079	J		<0.0061	U		0.0016	J		<0.0054	U		<0.0054	U	
		VMP-8-9.5-111810	11/17/2010	<0.0066	U		<0.0065	J	U	0.0011	J		<0.0059	U		<0.0059	U		0.0034	J		<0.0052	U		<0.0052	U	
		VMP-8-9.5-021011	2/10/2011	<0.0069	U		<0.0068	U		0.0013	J		<0.0062	U		<0.0062	U		0.0077			<0.0055	U		<0.0055	U	
		VMP-8-9.5-040711	4/7/2011	<0.0075	U		0.0036	J		<0.0078	U		<0.0068	U		<0.0068	U		0.0028	J		0.00063	J		<0.006	U	
	23.5 ft	VMP-8-23.5	11/10/2009	<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-8-23.5-083010	8/30/2010	0.001	J		0.002	J		0.0017	J		<0.0065	U		<0.0065	U		0.0073			<0.0057	U		<0.0057	U	
		VMP-8-23.5-111910	11/19/2010	<0.0069	U		0.0064	J		<0.0071	U		<0.0062	U		<0.0062	U		0.0061			0.001	J		<0.0055	U	
		VMP-8-23.5-021011	2/10/2011	<0.0073	U		<0.0072	U		0.0013	J		<0.0066	U		<0.0066	U		0.018			<0.0058	U		<0.0058	U	
		VMP-8-23.5-040711	4/7/2011	<0.0069	U		0.003	J		0.00098	J		<0.0062	U		<0.0062	U		0.0023	J		0.0012	J		<0.0055	U	
		VMP-8-23.5-040711-DUP	4/7/2011	0.0025	J		0.006	J		<0.011	U		<0.0098	U		<0.0098	U		0.0018	J		0.001	J		<0.0087	U	

See last page of table for notes.

TABLE 3
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS - VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Acetone			Benzene			Bromodichloromethane			Bromomethane			1,3-Butadiene			Butane			2-Butanone			Carbon disulfide			Carbon tetrachloride		
				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	Result (mg/m^3)	Lab Qualifier	URS Qualifier
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		<0.007	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		<0.0072	U	
		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		<0.0075	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		<0.0069	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	<0.019	U	
	11.5 ft	VMP-9-11.5	11/11/2009	0.017			<0.004	U		<0.009	U		<0.005	U		<0.003	U					0.0045			<0.004	U		<0.008	U	
		VMP-9-11.5-082610	8/26/2010	<0.24	U		0.16			<0.17	U		<0.1	U		<0.057	U					<0.076	U		<0.08	U		<0.16	U	
		VMP-9-11.5-111910	11/19/2010	<0.71	U		0.11	J		<0.5	U		<0.29	U		<0.16	U					<0.22	U		<0.23	U		<0.47	U	
		VMP-9-11.5-020911	2/9/2011	0.0074	J		<0.0043	U		<0.009	U		<0.0052	U		<0.003	U					<0.004	U		<0.0042	U		<0.0085	U	
		VMP-9-11.5-020911-DUP	2/9/2011	0.0088	J		<0.0033	U		<0.007	U		<0.004	U		<0.0023	U					<0.0031	U		<0.0032	U		<0.0066	U	
		VMP-9-11.5-040611	4/6/2011	0.026	J		0.025			<0.026	U		<0.015	U		<0.0087	U		0.009	J		0.0044	J		<0.049	J	U	<0.025	U	
	25.5 ft	VMP-9-25.5	11/10/2009	<2.6	U		12		J	<1.8	U		<1.1	U		<0.61	U					<0.81	U		<0.86	U		<1.7	U	
		VMP-9-25.5-D	11/10/2009	<2.3	U		4.9		J	<1.6	U		<0.96	U		<0.55	U					<0.73	U		<0.77	U		<1.6	U	
		VMP-9-25.5-082610	8/26/2010	<1.9	U		3.2			<1.4	U		<0.78	U		<0.44	U					<0.59	U		<0.63	U		<1.3	U	
		VMP-9-25.5-082610-DUP	8/26/2010	<2	U		3.3			<1.4	U		<0.84	U		<0.48	U					<0.64	U		<0.67	U		<1.4	U	
		VMP-9-25.5-111910	11/19/2010	<2.2	U		1.9			<1.5	U		<0.89	U		<0.51	U					<0.68	U		<0.72	U		<1.4	U	
		VMP-9-25.5-020911	2/9/2011	<1.2	U		0.079	J		<0.84	U		<0.49	U		<0.28	U					<0.37	U		<0.39	U		<0.79	U	
		VMP-9-25.5-040811	4/8/2011	0.69			0.82			<0.43	U		<0.25	U		<0.14	U		2.4			<0.75	U		0.42	J		<0.4	U	
	38.5 ft	VMP-9-38.5	11/10/2009	<5.2	U		1300		J	<3.7	U		<2.1	U		<1.2	U					<1.6	U		<1.7	U		<3.5	U	
		VMP-9-38.5-020911	2/9/2011	<2	U		0.89			<1.4	U		<0.81	U		<0.46	U					<0.62	U		<0.65	U		<1.3	U	
		VMP-9-38.5-040811	4/8/2011	2.4	J		4			<1.9	U		<1.1	U		<0.62	U		39			<3.3	U		1.8	J		<1.7	U	
VMP-18	8.5 ft	VMP-18-8.5	6/18/2010	0.042			0.0048			<0.009	U		<0.005	U		<0.003	U					0.0044			<0.004	J	U	<0.009	U	
		VMP-18-8.5-090710	9/7/2010	0.013			0.093			0.0027	J		<0.005	J	U	<0.0028	U					0.0032	J		0.0069			0.0012	J	
		VMP-18-8.5-111910	11/19/2010	0.0077	J		<0.0034	U		<0.0072	U		<0.0042	U		<0.0024	U					0.0013	J		<0.0034	U		<0.0068	U	
		VMP-18-8.5-020711	2/7/2011	0.18		J	0.0024	J		<0.008	U		<0.0046	U		<0.0026	U					0.0049			<0.0037	J	U	<0.0075	U	
		VMP-18-8.5-020711-DUP	2/7/2011	0.012		J	0.0013	J		<0.0077	U		<0.0044	U		<0.0025	U					0.0016	J		<0.0036	U		<0.0072	U	
		VMP-18-8.5-040711	4/7/2011	0.015			0.084			<0.0086	U		<0.005	U		<0.0028	U		0.0069	J		0.0023	J		<0.016	J	U	<0.0081	U	
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	<0.008	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	<0.0081	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		<0.0087	U	
		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	<0.0076	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		<0.0085	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			<0.0076	U	
		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		<0.084	U	
	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		<0.0076	U	
		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		<0.076	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	<0.0075	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		<0.087	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		<2.9	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		<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		<0.0083	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		<2.6	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		<0.33	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		<7.3	U	
		VMP-21-25-041411	4/14/2011	12	J		<13	U		<27	U		<16	U		<9	U		5400			<48	U		<13	U		<26	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		<26	U	
	33 ft	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		<7.3	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		<25	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		<0.16	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		<0.079	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		<0.077	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		<0.082	U	
	18 ft	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		<1.3	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		<5.7	U	
	38 ft	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		<17	U	
VMP-23	5 ft	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	<0.0083	U	
		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		<0.072	U	
	10 ft	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		<0.0086	U	
		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		<0.087	U	
	25 ft	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		<0.0079	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		<0.081	U	
VMP-24	5 ft	VMP-24-5-021611	2/16/2011	0.019			0.019			<0.0094	U		<0.0055	U		<0.0031	U					<0.0042	U		<0.0044	J	U	<0.0089	U	
		VMP-24-5-040811	4/8/2011	<0.14	U		5			<0.1	U		<0.058	U		<0.033	U		5.6			<0.18	U		0.042	J		<0.095	U	
	10 ft	VMP-24-10-021711	2/17/2011	0.01	J		1.4			<0.009	U		<0.0052	U		<0.003	U					<0.004	U		<0.0042	J	U	<0.0085	U	
		VMP-24-10-041111	4/11/2011	0.012	J		2.5			<0.017	U		<0.0098	U		<0.0056	U		0.54			<0.03	U		0.0049	J		<0.016	U	
	22 ft	VMP-24-22-021711	2/17/2011	0.0064	J		0.95			<0.009	U		<0.0052	U		<0.003	U					<0.004	U		<0.0042	J	U	<0.0085	U	
		VMP-24-22-041111	4/11/2011	0.011	J		0.013			<0.0084	U		<0.0049	U		<0.0028	U		<0.012	U		<0.015	U		0.00074	J		<0.0079	U	
	34 ft	VMP-24-34-021711	2/17/2011	0.014			0.0084			<0.009	U		<0.0052	U		<0.003	U					0.0025	J		<0.0042	J	U	<0.0085	U	
		VMP-24-34-041111	4/11/2011	0.014			0.0072			<0.0081	U		<0.0047	U		<0.0027	U		0.0031	J		<0.014	U		<0.015	U		<0.0076	U	

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

See last page of table for notes.

TABLE 3
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			alpha-Chlorotoluene			Cyclohexane			1,2-Dibromoethane			1,2-Dichlorobenzene		
				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	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-9	5 ft	VMP-9-5	11/11/2009	<0.005	U		<0.009	U		<0.003	U		<0.005	U		<0.009	U		<0.005	U		<0.003	U		<0.008	U		<0.006	U	
		VMP-9-5-082610	8/26/2010	<0.0052	U		<0.0097	U		<0.003	U		<0.0056	U		<0.0094	U		<0.0059	U		0.011			<0.0088	U		<0.0068	U	
		VMP-9-5-111910	11/19/2010	<0.0055	U		<0.01	U		<0.0031	U		<0.0058	U		<0.0098	U		<0.0062	U		<0.0041	U		<0.0091	U		<0.0072	U	
		VMP-9-5-020811	2/8/2011	<0.0051	U		<0.0094	U		<0.0029	U		<0.0054	U		<0.0091	U		<0.0057	U		0.00097	J		<0.0084	U		<0.0066	J	U
		VMP-9-5-040611	4/6/2011	<0.014	U		<0.026	U		<0.032	U		<0.015	U		<0.025	U		<0.016	U		<0.01	U		<0.023	U		<0.018	J	U
	11.5 ft	VMP-9-11.5	11/11/2009	<0.006	U		<0.012	U		<0.003	U		<0.006	U		<0.011	U		<0.007	U		<0.004	U		<0.011	U		<0.008	U	
		VMP-9-11.5-082610	8/26/2010	<0.12	U		<0.22	U		<0.068	U		<0.12	U		<0.21	U		<0.13	U		1.2			<0.2	U		<0.15	U	
		VMP-9-11.5-111910	11/19/2010	<0.34	U		<0.63	U		<0.2	U		<0.36	U		<0.62	U		<0.38	U		<0.26	U		<0.57	U		<0.45	U	
		VMP-9-11.5-020911	2/9/2011	<0.0062	U		<0.011	U		<0.0035	U		<0.0066	U		<0.011	U		<0.007	U		<0.0046	U		<0.01	U		<0.0081	U	
		VMP-9-11.5-020911-DUP	2/9/2011	<0.0048	U		<0.0089	U		<0.0028	U		<0.0051	U		<0.0086	U		<0.0054	U		0.0021	J		<0.008	U		<0.0063	U	
		VMP-9-11.5-040611	4/6/2011	<0.018	U		<0.034	U		<0.042	U		<0.019	U		<0.032	U		<0.02	U		0.0033	J		<0.03	U		<0.024	J	U
	25.5 ft	VMP-9-25.5	11/10/2009	<1.3	U		<2.3	U		<0.72	U		<1.3	U		<2.3	U		<1.4	U		54		J	<2.1	U		<1.6	U	
		VMP-9-25.5-D	11/10/2009	<1.1	U		<2.1	U		<0.65	U		<1.2	U		<2	U		<1.3	U		52		J	<1.9	U		<1.5	U	
		VMP-9-25.5-082610	8/26/2010	<0.93	U		<1.7	U		<0.53	U		<0.98	U		<1.7	U		<1	U		31			<1.5	U		<1.2	U	
		VMP-9-25.5-082610-DUP	8/26/2010	<0.99	U		<1.8	U		<0.57	U		<1	U		<1.8	U		<1.1	U		32			<1.6	U		<1.3	U	
		VMP-9-25.5-111910	11/19/2010	<1	U		<2	U		<0.61	U		<1.1	U		<1.9	U		<1.2	U		20			<1.8	U		<1.4	U	
		VMP-9-25.5-020911	2/9/2011	<0.58	U		<1.1	U		<0.33	U		<0.62	U		<1	U		<0.65	U		3			<0.97	U		<0.76	U	
		VMP-9-25.5-040811	4/8/2011	<0.29	U		<0.54	U		0.26	J		<0.31	U		<0.53	U		<0.33	U		0.88			<0.49	U		<0.38	U	
	38.5 ft	VMP-9-38.5	11/10/2009	<2.5	U		<4.7	U		<1.4	U		<2.7	U		<4.5	U		<2.8	U		110		J	<4.2	U		<3.3	U	
		VMP-9-38.5-020911	2/9/2011	<0.96	U		<1.8	U		<0.55	U		<1	U		<1.7	U		<1.1	U		18			<1.6	U		<1.2	U	
		VMP-9-38.5-040811	4/8/2011	<1.3	U		<2.4	U		0.73	J		<1.4	U		<2.3	U		<1.4	U		23			<2.1	U		<1.7	U	
VMP-18	8.5 ft	VMP-18-8.5	6/18/2010	<0.006	U		<0.012	U		<0.003	U		<0.007	U		<0.012	U		<0.007	U		<0.005	U		<0.011	U		<0.008	U	
		VMP-18-8.5-090710	9/7/2010	<0.0059	U		<0.011	U		<0.0034	U		0.00097	J		<0.011	U		<0.0067	J	U	0.0063			<0.0099	U		<0.0078	J	U
		VMP-18-8.5-111910	11/19/2010	<0.005	U		<0.0092	U		<0.0028	U		<0.0053	U		<0.0089	U		<0.0056	U		0.0041			<0.0083	U		<0.0065	U	
		VMP-18-8.5-020711	2/7/2011	<0.0055	U		<0.01	U		<0.0031	U		<0.0058	U		<0.0098	U		<0.0062	U		0.022		J	<0.0091	U		<0.0072	J	U
		VMP-18-8.5-020711-DUP	2/7/2011	<0.0053	U		<0.0098	U		<0.003	U		<0.0056	U		<0.0094	U		<0.0059	U		0.0092		J	<0.0088	U		<0.0069	J	U
		VMP-18-8.5-040711	4/7/2011	<0.0059	J	U	0.0023	J		<0.014	U		<0.0063	U		<0.011	U		<0.0066	J	U	0.0062			<0.0099	U		<0.0077	J	U
VMP-19	5 ft	VMP-19-5	6/18/2010	<0.006	U		<0.012	U		<0.003	U		0.00085	J		<0.011	U		<0.007	U		0.0025	J		<0.01	U		<0.008	U	
		VMP-19-5-090110	9/1/2010	<0.0059	J	U	<0.011	U		<0.0034	U		0.00094	J		<0.011	U		<0.0067	U		0.049			<0.0099	U		0.0019	J	
		VMP-19-5-111510	11/15/2010	<0.0064	U		<0.012	U		<0.0036	U		<0.0067	U		<0.011	U		<0.0071	U		0.0012	J		<0.011	U		<0.0083	U	
		VMP-19-5-020411	2/4/2011	<0.0056	U		<0.01	U		<0.0032	U		<0.0059	U		<0.01	U		<0.0063	J	U	0.0065			<0.0093	J	U	<0.0073	J	U
		VMP-19-5-040711	4/7/2011	0.00072	J		<0.012	U		<0.014	U		<0.0066	U		<0.011	U		<0.007	U		0.0043	J		0.0012	J		0.00068	J	
VMP-20	5 ft	VMP-20-5-031411	3/14/2011	0.038			<0.01	U		<0.013	U		0.031			<0.01	U		<0.0063	U		0.052			<0.0093	U		<0.0073	U	
		VMP-20-5-041511	4/15/2011	<0.061	U		<0.11	U		<0.14	U		<0.065	U		<0.11	U		<0.069	U		1.2			<0.1	U		<0.08	U	
	10 ft	VMP-20-10-031411	3/14/2011	<0.0056	U		<0.01	U		<0.013	U		0.0049	J		<0.01	U		<0.0063	U		0.0041			<0.0093	U		<0.0073	U	
		VMP-20-10-041511	4/15/2011	<0.056	U		<0.1	U		<0.13	U		<0.059	U		<0.1	U		<0.063	U		0.27			<0.093	U		<0.073	U	
	25 ft	VMP-20-25-031411	3/14/2011	<0.0055	U		<0.01	U		<0.013	U		<0.0058	U		<0.0099	U		<0.0062	U		0.0019	J		<0.0092	U		<0.0072	U	
		VMP-20-25-041511	4/15/2011	<0.064	U		<0.12	U		<0.14	U		<0.067	U		<0.11	U		<0.071	U		0.23			<0.11	U		<0.083	U	
VMP-21	5 ft	VMP-21-5-020911	2/9/2011	<2.1	U		<4	U		<1.2	U		<2.3	U		<3.8	U		<2.4	U		94			<3.6	U		<2.8	U	
		VMP-21-5-020911-DUP	2/9/2011	<3.6	U		<6.8	U		<2.1	U		<3.9	U		<6.6	U		<4.1	U		77			<6.1	U		<4.8	U	
		VMP-21-5-041311	4/13/2011	<0.0061	J	U	<0.011	U		<0.014	U		<0.0064	U		<0.011	U		0.001	J		0.4			<0.01	U		<0.0079	U	
	10 ft	VMP-21-10-021011	2/10/2011	<1.9	U		<3.6	U		<1.1	U		<2	U		<3.5	U		<2.2	U		72			<3.2	U		<2.5	U	
		VMP-21-10-041311	4/13/2011	<0.24	U		<0.45	U		<0.56	U		<0.26	U		<0.44	U		<0.27	U		0.5			<0.41	U		<0.32	U	
	25 ft	VMP-21-25-021011	2/10/2011	<5.4	U		<9.9	U		<3.1	U		<5.7	U		<9.6	U		<6	U		370			<9	U		<7	U	
		VMP-21-25-041411	4/14/2011	<19	U		<35	U		<43	U		<20	U		<34	U		<21	U		300			<31	U		<24	U	
		VMP-21-25-041411-DUP	4/14/2011	<19	U		<35	U		<43	U		<20	U		<34	U		<21	U		300			<31	U		<24	U	
	33 ft	VMP-21-33-021011	2/10/2011	<5.4	U		<9.9	U		<3.1	U		<5.7	U		<9.6	U		<6	U		410			<9	U		<7	U	
		VMP-21-33-041411	4/14/2011	<18	U		<34	U		<42	U		<19	U		<32	U		<20	U		290			<30	U		<24	U	
VMP-22	5 ft	VMP-22-5-021111	2/11/2011	<0.12	U		<0.22	U		<0.068	U		<0.12	U		<0.21	U		<0.13	U		<0.088	U		<0.2	U		<0.15	U	
		VMP-22-5-041811	4/18/2011	<0.058	U		<0.11	U		<0.13	U		<0.062	U		<0.1	U		<0.065	U		<0.043	U		<0.097	U		<0.076	U	
	10 ft	VMP-22-10-021111	2/11/2011	<0.056	U		<0.1	U		<0.032	U		<0.06	U		<0.1	U		<0.063	U		0.19			<0.094	U		<0.073	U	
		VMP-22-10-041811	4/18/2011	<0.06	U		<0.11	U		<0.14	U		<0.064	U		<0.11	U		<0.068	U		<0.045	U		<0.1	U		<0.078	U	
	18 ft	VMP-22-18-021111	2/11/2011	<0.98	U		<1.8	U		<0.56	U		<1	U		<1.8	U		<1.1	U		65			<1.6	U		<1.3	U	
		VMP-22-18-041811	4/18/2011	<4.1	U		<7.7	U		<9.5	U		<4.4	U		<7.4	U		<4.6	U		58			<6.9	U		<5.4	U	
	38 ft	VMP-22-38-041811	4/18/2011	<13	U		<24	U		<29	U		<13	U		<23	U		<14	U		240			<21	U		<16	U	
VMP-23	5 ft	VMP-23-5-021511	2/15/2011	<0.0061	U		<0.011	U		<0.0035	U		0.0013	J		<0.011	U		<0.0068	U		0.0054			<0.01	U		<0.0079	U	
		VMP-23-5-042111	4/21/2011	<0.053	U		<0.098	U		<0.12	U		<0.056	U		<0.094	U		<0.059	U		<0.039	U		<0.088	U		<0.069	U	
	10 ft	VMP-23-10-021511	2/15/2011	<0.0063	J	U	<0.012	U		<0.0036	U		0.0015	J		<0.011	U		0.0012	J		0.0044	J		<0.01	U		0.0024	J	
		VMP-23-10-042111	4/21/2011	<0.064	U		<0.12	U		<0.14	U		<0.067	U		<0.11	U		<0.071	U		0.94			<0.11	U		<0.083	U	
	25 ft	VMP-23-25-021511	2/15/2011	<0.0058	U		<0.011	U		<0.0033	U		<0.0062	U		<0.01	U		<0.0065	U		0.0032	J		<0.0097	U		<0.0076	U	
		VMP-23-25-042111	4/21/2011	<0.059	U		<0.11	U		<0.14	U		<0.063	U		<0.11	U		<0.067	U		1.2			<0.099	U		<0.078	U	
VMP-24	5 ft	VMP-24-5-021611	2/16/2011	<0.0065	U		<0.012	U		<0.0037	U		<0.0069	U		<0.012	U		<0.0073	U		0.0032	J		<0.011	U		<0.0085	J	U
		VMP-24-5-040811	4/8/2011	<0.069	U		<0.13	U		<0.16	U		<0.073	U		<0.12	U		<0.078	U		0.71			<0.12	U		<0.09	U	
	10 ft	VMP-24-10-021711	2/17/2011	<0.0062	U		<0.011	U		<0.0035	U		<0.0066	U		<0.011	U		<0.007	U		0.11			<0.01	U		<0.0081	U	
		VMP-24-10-041111	4/11/2011	<0.012	U		<0.021	U		<0.026	U		<0.012	U		<0.021	U		<0.013	U		0.15			<0.019	U		<0.015	U	
	22 ft	VMP-24-22-021711	2/17/2011	<0.0062	U		<0.011	U		<0.0035	U		<0.0066	U		<0.011	U		<0.007	U		0.067			<0.01	U		<0.0081	U	
		VMP-24-22-041111	4/11/2011	<0.0058	U		<0.011	U		<0.013	U		<0.0062	U		0.0039	J		<0.0065	U		<0.0043	U		<0.0097	U		<0.0076	U	
	34 ft	VMP-24-34-021711	2/17/2011	<0.0062	U		<0.011	U		<0.0035	U		<0.0066	U		0.0036	J		<0.007	U		0.0024	J		<0.01	U		<0.0081	U	
		VMP-24-34-041111	4/11/2011	<0.0056	U		0.0027	J		<0.013	U		0.00071	J		<0.01	U		<0.0063	U		0.0018	J		<0.0093	U		<0.0073	U	

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

See last page of table for notes.

TABLE 3
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,3-Dichlorobenzene			1,4-Dichlorobenzene			Dichlorodifluoromethane			1,2-Dichloroethane			1,1-Dichloroethene			Dichloromethane (Methylene chloride)			1,2-Dichloropropane			1,4-Dioxane			Ethanol		
				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	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-9	5 ft	VMP-9-5	11/11/2009	<0.006	U		<0.006	U		<0.005	U		<0.004	U		<0.004	U		<0.003	U		<0.005	U		<0.016	U		0.018		
		VMP-9-5-082610	8/26/2010	<0.0068	U		<0.0068	U		0.003	J		<0.0046	U		<0.0045	U		0.0072			<0.0053	U		0.008	J		0.015		
		VMP-9-5-111910	11/19/2010	<0.0072	U		<0.0072	U		<0.0059	U		<0.0048	U		<0.0047	U		<0.0041	J	U	<0.0055	U		<0.017	U		0.0071	J	
		VMP-9-5-020811	2/8/2011	<0.0066	U		<0.0066	J	U	0.0028	J		<0.0044	U		<0.0044	U		0.0013	J		<0.0051	U		<0.016	U		<0.0083	U	
		VMP-9-5-040611	4/6/2011	<0.018	J	U	<0.018	J	U	0.0025	J		<0.012	U		<0.012	U		0.011			<0.014	U		<0.044	U		0.02	J	
	11.5 ft	VMP-9-11.5	11/11/2009	<0.008	U		<0.008	U		<0.006	U		<0.005	U		<0.005	U		<0.004	U		<0.006	U		<0.02	U		0.014		
		VMP-9-11.5-082610	8/26/2010	<0.15	U		<0.15	U		<0.13	U		<0.1	U		<0.1	U		<0.089	U		<0.12	U		<0.37	U		<0.19	U	
		VMP-9-11.5-111910	11/19/2010	<0.45	U		<0.45	U		<0.37	U		<0.3	U		<0.3	U		0.32			<0.34	U		<1.1	U		<0.56	U	
		VMP-9-11.5-020911	2/9/2011	<0.0081	U		<0.0081	U		<0.0066	U		<0.0054	U		<0.0053	U		<0.0047	U		<0.0062	U		<0.019	U		0.0059	J	
		VMP-9-11.5-020911-DUP	2/9/2011	<0.0063	U		<0.0063	U		0.0013	J		<0.0042	U		<0.0041	U		<0.0036	U		<0.0048	U		<0.015	U		0.009		
		VMP-9-11.5-040611	4/6/2011	<0.024	U		<0.024	J	U	<0.02	U		<0.016	U		<0.016	U		0.0069	J		<0.018	U		<0.057	U		0.017	J	
	25.5 ft	VMP-9-25.5	11/10/2009	<1.6	U		<1.6	U		<1.4	U		<1.1	U		<1.1	U		<0.96	U		<1.3	U		<4	U		<2.1	U	
		VMP-9-25.5-D	11/10/2009	<1.5	U		<1.5	U		<1.2	U		<1	U		<0.98	U		<0.86	U		<1.1	U		<3.6	U		<1.9	U	
		VMP-9-25.5-082610	8/26/2010	<1.2	U		<1.2	U		<1	U		<0.82	U		<0.8	U		<0.7	U		<0.93	U		<2.9	U		<1.5	U	
		VMP-9-25.5-082610-DUP	8/26/2010	<1.3	U		<1.3	U		<1.1	U		<0.87	U		<0.86	U		<0.75	U		<1	U		<3.1	U		<1.6	U	
		VMP-9-25.5-111910	11/19/2010	<1.4	U		<1.4	U		<1.1	U		<0.93	U		<0.91	U		0.44	J		<1.1	U		<3.3	U		<1.7	U	
		VMP-9-25.5-020911	2/9/2011	<0.76	U		<0.76	U		<0.62	U		<0.51	U		<0.5	U		<0.44	U		<0.58	U		<1.8	U		<0.95	U	
		VMP-9-25.5-040811	4/8/2011	<0.38	U		<0.38	U		<0.32	U		<0.26	U		<0.25	U		0.13	J		<0.3	U		<0.92	U		0.29	J	
	38.5 ft	VMP-9-38.5	11/10/2009	<3.3	U		<3.3	U		<2.7	U		<2.2	U		<2.2	U		<1.9	U		<2.5	U		<7.9	U		<4.1	U	
		VMP-9-38.5-020911	2/9/2011	<1.2	U		<1.2	U		<1	U		<0.84	U		<0.83	U		<0.73	U		<0.96	U		<3	U		<1.6	U	
		VMP-9-38.5-040811	4/8/2011	<1.7	U		<1.7	U		<1.4	U		<1.1	U		<1.1	U		0.53	J		<1.3	U		<4	U		1.4	J	
VMP-18	8.5 ft	VMP-18-8.5	6/18/2010	<0.008	U		<0.008	U		0.0025	J		<0.005	U		<0.005	U		0.0012	J		<0.006	U		<0.021	U		0.011		
		VMP-18-8.5-090710	9/7/2010	<0.0078	J	U	<0.0078	J	U	0.0028	J		0.0011	J		<0.0051	U		<0.0045	U		<0.006	U		<0.018	U		0.011		
		VMP-18-8.5-111910	11/19/2010	<0.0065	U		<0.0065	U		<0.0053	U		<0.0044	U		<0.0043	U		<0.0038	U		<0.005	U		0.0054	J		0.0017	J	
		VMP-18-8.5-020711	2/7/2011	<0.0072	J	U	<0.0072	J	U	0.0022	J		<0.0048	U		<0.0047	U		<0.0041	U		<0.0055	U		0.0023	J		0.022		
		VMP-18-8.5-020711-DUP	2/7/2011	<0.0069	J	U	<0.0069	J	U	0.0022	J		<0.0046	U		<0.0045	U		<0.004	U		<0.0053	U		<0.016	U		0.01		
		VMP-18-8.5-040711	4/7/2011	<0.0077	J	U	<0.0077	J	U	0.0019	J		<0.0052	U		<0.0051	U		0.0021	J		0.0033	J		0.0043	J		0.012		
VMP-19	5 ft	VMP-19-5	6/18/2010	<0.008	U		<0.008	U		0.0021	J		<0.005	U		<0.005	U		0.0011	J		<0.006	U		<0.02	U		0.0064	J	
		VMP-19-5-090110	9/1/2010	<0.0078	J	U	<0.0078	J	U	0.0028	J		<0.0052	U		<0.0051	U		<0.0045	J	U	<0.006	U		<0.018	U		0.01		
		VMP-19-5-111510	11/15/2010	<0.0083	U		<0.0083	U		0.0023	J		<0.0056	U		<0.0055	U		0.0012	J		<0.0064	U		<0.02	U		0.024		
		VMP-19-5-020411	2/4/2011	<0.0073	J	U	<0.0073	J	U	0.0028	J		0.0009	J		<0.0048	U		<0.0042	U		<0.0056	U		<0.017	U		0.015		
		VMP-19-5-040711	4/7/2011	<0.0081	U		0.00088	J		0.0021	J		<0.0055	U		<0.0054	U		0.00093	J		<0.0062	U		<0.019	U		0.0058	J	
VMP-20	5 ft	VMP-20-5-031411	3/14/2011	<0.0073	U		<0.0073	U		0.003	J		<0.0049	U		<0.0048	U		<0.0042	J	U	<0.0056	U		<0.017	U		0.11	J	J
		VMP-20-5-041511	4/15/2011	<0.08	U		<0.08	U		<0.066	U		<0.054	U		<0.053	U		<0.046	U	UJ	<0.061	U		<0.19	U		<0.1	U	
	10 ft	VMP-20-10-031411	3/14/2011	<0.0073	U		<0.0073	U		0.0028	J		<0.0049	U		<0.0048	U		<0.0042	U		<0.0056	U		<0.017	U		0.0034	J	J
		VMP-20-10-041511	4/15/2011	<0.073	U		<0.073	U		<0.06	U		<0.049	U		<0.048	U		0.018	J	J	<0.056	U		<0.17	U		0.012	J	
	25 ft	VMP-20-25-031411	3/14/2011	<0.0072	U		<0.0072	U		0.0032	J		<0.0048	U		<0.0047	U		<0.0042	U		<0.0055	U		<0.017	U		0.0045	J	J
		VMP-20-25-041511	4/15/2011	<0.083	U		<0.083	U		<0.068	U		<0.056	U		<0.055	U		<0.048	U	UJ	<0.064	U		<0.2	U		<0.1	U	
VMP-21	5 ft	VMP-21-5-020911	2/9/2011	<2.8	U		<2.8	U		<2.3	U		<1.9	U		<1.8	U		<1.6	U		<2.2	U		<6.7	U		<3.5	U	
		VMP-21-5-020911-DUP	2/9/2011	<4.8	U		<4.8	U		<3.9	U		<3.2	U		<3.2	U		<2.8	U		<3.7	U		<11	U		<6	U	
		VMP-21-5-041311	4/13/2011	<0.0079	U		<0.0079	J	U	0.0025	J		<0.0053	U		<0.0052	U		0.00076	J		<0.0061	U		<0.019	U		<0.0099	J	U
	10 ft	VMP-21-10-021011	2/10/2011	<2.5	U		<2.5	U		<2.1	U		<1.7	U		<1.7	U		<1.4	U		<1.9	U		<6	U		<3.2	U	
		VMP-21-10-041311	4/13/2011	<0.32	U		<0.32	U		<0.26	U		<0.21	U		<0.21	U		0.072	J		<0.24	U		<0.76	U		<0.4	U	
	25 ft	VMP-21-25-021011	2/10/2011	<7	U		<7	U		<5.8	U		<4.7	U		<4.6	U		<4	U		<5.4	U		<17	U		<8.8	U	
		VMP-21-25-041411	4/14/2011	<24	U		<24	U		<20	U		<16	U		<16	U		<14	U	UJ	<19	U		<59	U		<31	U	
		VMP-21-25-041411-DUP	4/14/2011	<24	U		<24	U		<20	U		<16	U		<16	U		<14	U	UJ	<19	U		<59	U		<31	U	
	33 ft	VMP-21-33-021011	2/10/2011	<7	U		<7	U		<5.8	U		<4.7	U		<4.6	U		<4	U		<5.4	U		<17	U		<8.8	U	
		VMP-21-33-041411	4/14/2011	<24	U		<24	U		<19	U		<16	U		<16	U		<14	U	UJ	<18	U		<57	U		3.8	J	
VMP-22	5 ft	VMP-22-5-021111	2/11/2011	<0.15	U		<0.15	U		<0.13	U		<0.1	U		<0.1	U		<0.089	U		<0.12	U		<0.37	U		<0.19	U	
		VMP-22-5-041811	4/18/2011	<0.076	U		<0.076	U		<0.062	U		<0.051	U		<0.05	U		<0.044	U	UJ	<0.058	U		<0.18	U		<0.095	U	
	10 ft	VMP-22-10-021111	2/11/2011	<0.073	U		<0.073	U		<0.06	U		<0.049	U		<0.048	U		<0.042	U		<0.056	U		<0.18	U		<0.092	U	
		VMP-22-10-041811	4/18/2011	<0.078	U		<0.078	U		<0.064	U		<0.053	U		<0.052	U		<0.045	U	UJ	<0.06	U		<0.19	U		<0.098	U	
	18 ft	VMP-22-18-021111	2/11/2011	<1.3	U		<1.3	U		<1	U		<0.86	U		<0.84	U		<0.74	U		<0.98	U		<3.1	U		<1.6	U	
		VMP-22-18-041811	4/18/2011	<5.4	U		<5.4	U		<4.4	U		<3.6	U		<3.6	U		<3.1	U	UJ	<4.2	U		<13	U		<6.8	U	
	38 ft	VMP-22-38-041811	4/18/2011	<16	U		<16	U		<14	U		<11	U		<11	U		<9.6	U	UJ	<13	U		<40	U		<21	U	
VMP-23	5 ft	VMP-23-5-021511	2/15/2011	<0.0079	U		<0.0079	J	U	0.0021	J		<0.0053	U		<0.0052	U		<0.0046	U		<0.0061	U		<0.019	U		0.014		
		VMP-23-5-042111	4/21/2011	<0.069	U		<0.069	U		<0.057	U		<0.046	U		<0.045	U		<0.04	U		<0.053	U		<0.16	U		<0.086	U	
	10 ft	VMP-23-10-021511	2/15/2011	<0.0082	J	U	<0.0082	J	U	<0.0068	U		<0.0055	U		<0.0054	U		<0.0047	U		<0.0063	U		0.0028	J		<0.01	U	
		VMP-23-10-042111	4/21/2011	<0.083	U		<0.083	U		<0.068	U		<0.056	U		<0.055	U		<0.048	U		<0.064	U		<0.2	U		<0.1	U	
	25 ft	VMP-23-25-021511	2/15/2011	<0.0076	U		0.0012	J		<0.0062	U		<0.0051	U		<0.005	U		<0.0044	U		<0.0058	U		<0.018	U		<0.0095	U	
		VMP-23-25-042111	4/21/2011	<0.078	U		<0.078	U		<0.064	U		<0.052	U		<0.051	U		<0.045	U		<0.06	U		<0.18	U		<0.097	U	
VMP-24	5 ft	VMP-24-5-021611	2/16/2011	<0.0085	J	U	<0.0085	J	U	0.0017	J		<0.0057	U		<0.0056	U		0.0018	J		<0.0065	U		<0.02	U		0.0093	J	J
		VMP-24-5-040811	4/8/2011	<0.09	U		<0.09	U		<0.074	U		<0.061	U		<0.06	U		0.011	J		<0.07	U		<0.22	U		<0.11	U	
	10 ft	VMP-24-10-021711	2/17/2011	<0.0081	U		<0.0081	U		0.0025	J		<0.0054	U		<0.0053	U		<0.0047	U		<0.0062	U		<0.019	U		0.024	J	J
		VMP-24-10-041111	4/11/2011	<0.015	U		<0.015	U		0.0013	J		<0.01	U		<0.01	U		0.0022	J		<0.012	U		<0.036	U		0.0097	J	
	22 ft	VMP-24-22-021711	2/17/2011	<0.0081	U		<0.0081	U		0.0026	J		<0.0054	U		<0.0053	U		<0.0047	U		<0.0062	U		<0.019	U		0.024	J	J
		VMP-24-22-041111	4/11/2011	<0.0076	U		<0.0076	U		0.0032	J		<0.0051	U		<0.005	U		0.0023	J		<0.0058	U		<0.018	U		<0.0095	J	U
	34 ft	VMP-24-34-021711	2/17/2011	<0.0081	U		<0.0081	U		0.0022	J		<0.0054	U		<0.0053	U		<0.0047	U		<0.0062	U		<0.019	U		0.032	J	J
		VMP-24-34-041111	4/11/2011	<0.0073	U		<0.0073	U		0.0021	J		<0.0049	U		<0.0048	U		0.004	J		<0.0056	U		<0.017	U		0.011		

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

See last page of table for notes.

TABLE 3
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	Ethylbenzene			4-Ethyltoluene			Heptane			Hexane			Isopentane			Isopropylbenzene (Cumene)			Methyl tert-Butyl Ether (MTBE)			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
				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-9	5 ft	VMP-9-5	11/11/2009	<0.004	U		<0.005	U		<0.004	U		<0.003	U					<0.005	U		<0.004	U		<0.004	U	
		VMP-9-5-082610	8/26/2010	0.00048	J		<0.0056	U		0.0055			0.016						<0.0056	U		<0.0041	U		<0.0047	U	
		VMP-9-5-111910	11/19/2010	0.001	J		<0.0058	U		0.0016	J		0.0014	J					<0.0058	U		<0.0043	U		<0.0049	U	
		VMP-9-5-020811	2/8/2011	<0.0048	U		<0.0054	U		<0.0045	U		<0.0039	U					<0.0054	U		<0.004	U		<0.0045	U	
		VMP-9-5-040611	4/6/2011	<0.013	U		<0.015	U		<0.012	U		0.0064	J		0.013	J		<0.015	U		<0.011	U		<0.012	U	
	11.5 ft	VMP-9-11.5	11/11/2009	<0.006	U		<0.006	U		<0.005	U		<0.004	U					<0.006	U		<0.005	U		<0.005	U	
		VMP-9-11.5-082610	8/26/2010	<0.11	U		<0.13	U		<0.1	U		<0.09	U					<0.13	U		<0.093	U		<0.1	U	
		VMP-9-11.5-111910	11/19/2010	<0.32	U		<0.37	U		<0.3	U		<0.26	U					<0.37	U		<0.27	U		<0.3	U	
		VMP-9-11.5-020911	2/9/2011	<0.0058	U		<0.0066	U		<0.0055	U		<0.0047	U					<0.0066	U		<0.0048	U		<0.0055	U	
		VMP-9-11.5-020911-DUP	2/9/2011	<0.0045	U		<0.0051	U		0.0025	J		<0.0037	U					<0.0051	U		<0.0038	U		<0.0043	U	
		VMP-9-11.5-040611	4/6/2011	<0.017	U		<0.019	U		0.0035	J		0.0079	J		0.0091	J		<0.019	U		<0.014	U		<0.016	U	
	25.5 ft	VMP-9-25.5	11/10/2009	<1.2	U		<1.4	U		1.5		J	6.6		J				<1.4	U		<0.99	U		<1.1	U	
		VMP-9-25.5-D	11/10/2009	<1.1	U		<1.2	U		1.5		J	5.9		J				<1.2	U		<0.89	U		<1	U	
		VMP-9-25.5-082610	8/26/2010	<0.87	U		<0.99	U		1.1			3.2						0.13	J		<0.73	U		<0.82	U	
		VMP-9-25.5-082610-DUP	8/26/2010	<0.94	U		<1.1	U		1.1			3.2						0.13	J		<0.78	U		<0.88	U	
		VMP-9-25.5-111910	11/19/2010	<1	U		<1.1	U		<0.94	U		1.8						<1.1	U		<0.83	U		<0.94	U	
		VMP-9-25.5-020911	2/9/2011	<0.55	U		<0.62	U		<0.52	U		0.24	J					<0.62	U		<0.45	U		<0.52	U	
		VMP-9-25.5-040811	4/8/2011	<0.28	U		<0.31	U		<0.26	U		<0.22	U		35			0.029	J		<0.23	U		<0.26	U	
	38.5 ft	VMP-9-38.5	11/10/2009	<2.4	U		<2.7	U		4.6		J	25		J				<2.7	U		<2	U		<2.2	U	
		VMP-9-38.5-020911	2/9/2011	<0.91	U		<1	U		<0.86	U		1.9						0.22	J		<0.75	U		<0.86	U	
		VMP-9-38.5-040811	4/8/2011	<1.2	U		<1.4	U		<1.1	U		<0.98	U		230			0.2	J		<1	U		<1.1	U	
VMP-18	8.5 ft	VMP-18-8.5	6/18/2010	<0.006	U		<0.007	U		0.0013	J		0.0021	J					<0.007	U		<0.005	U		<0.005	U	
		VMP-18-8.5-090710	9/7/2010	<0.0056	J	U	<0.0063	U		0.0015	J		0.0016	J					<0.0063	J	U	0.00046	J		<0.0053	U	
		VMP-18-8.5-111910	11/19/2010	<0.0047	U		<0.0053	U		0.0026	J		0.0031	J					<0.0053	U		<0.0039	U		<0.0044	U	
		VMP-18-8.5-020711	2/7/2011	0.013			0.0055	J		0.045		J	0.056		J				0.0014	J		<0.0043	U		<0.0049	U	
		VMP-18-8.5-020711-DUP	2/7/2011	0.004	J		0.0016	J		0.015		J	0.026		J				<0.0056	U		<0.0041	U		<0.0047	U	
		VMP-18-8.5-040711	4/7/2011	<0.0056	U		<0.0063	J	U	0.012			0.0049			0.012	J		0.0064			<0.0046	U		<0.0053	U	
VMP-19	5 ft	VMP-19-5	6/18/2010	<0.005	U		<0.006	U		0.0012	J		0.0048						<0.006	U		<0.004	U		<0.005	U	
		VMP-19-5-090110	9/1/2010	0.0086		J	<0.0063	U		0.088			0.34						<0.0063	U		<0.0046	U		<0.0053	U	
		VMP-19-5-111510	11/15/2010	0.003	J		<0.0068	U		<0.0056	U		0.0033	J					<0.0068	U		0.0007	J		<0.0056	U	
		VMP-19-5-020411	2/4/2011	0.00074	J		<0.0059	U		<0.005	U		0.0093						<0.0059	U		<0.0044	U		<0.005	U	
		VMP-19-5-040711	4/7/2011	0.00086	J		<0.0066	U		<0.0055	U		<0.0048	U		0.025			<0.0066	U		<0.0049	U		<0.0055	U	
VMP-20	5 ft	VMP-20-5-031411	3/14/2011	0.014			0.0028	J		0.01			0.016						0.0032	J		<0.0044	U		<0.005	U	
		VMP-20-5-041511	4/15/2011	<0.058	U		<0.065	U		0.24			2.4			22			<0.065	U		<0.048	U		<0.054	U	
	10 ft	VMP-20-10-031411	3/14/2011	0.0089			0.0026	J		0.0034	J		0.0049						0.0025	J		<0.0044	U		<0.005	U	
		VMP-20-10-041511	4/15/2011	<0.052	U		<0.059	U		0.14			0.81			1.6			<0.059	U		<0.044	U		<0.05	U	
	25 ft	VMP-20-25-031411	3/14/2011	<0.0052	U		<0.0059	U		0.0022	J		0.0017	J					<0.0059	U		<0.0043	U		<0.0049	U	
		VMP-20-25-041511	4/15/2011	<0.06	U		<0.068	U		0.12			0.84			1			<0.068	U		<0.05	U		<0.056	U	
VMP-21	5 ft	VMP-21-5-020911	2/9/2011	<2	U		<2.3	U		16			150						<2.3	U		<1.7	U		<1.9	U	
		VMP-21-5-020911-DUP	2/9/2011	<3.4	U		<3.9	U		12			120						<3.9	U		<2.9	U		<3.2	U	
		VMP-21-5-041311	4/13/2011	0.0099			0.0014	J		0.63			1.4			0.74			0.0014	J		<0.0048	U		<0.0054	U	
	10 ft	VMP-21-10-021011	2/10/2011	<1.8	U		<2.1	U		14			130						<2.1	U		<1.5	U		<1.7	U	
		VMP-21-10-041311	4/13/2011	<0.23	U		<0.26	U		<0.22	U		0.16	J		50			<0.26	U		<0.19	U		<0.22	U	
	25 ft	VMP-21-25-021011	2/10/2011	<5	U		<5.7	U		380			1200						<5.7	U		<4.2	U		<4.8	U	
		VMP-21-25-041411	4/14/2011	<18	U		<20	U		310			820			9200			<20	U		<15	U		<17	U	
		VMP-21-25-041411-DUP	4/14/2011	<18	U		<20	U		320			820			9200			<20	U		<15	U		<17	U	
	33 ft	VMP-21-33-021011	2/10/2011	<5	U		<5.7	U		530			1400						<5.7	U		<4.2	U		<4.8	U	
		VMP-21-33-041411	4/14/2011	<17	U		<19	U		330			880			9500			<19	U		<14	U		<16	U	
VMP-22	5 ft	VMP-22-5-021111	2/11/2011	<0.11	U		<0.13	U		<0.1	U		<0.09	U					<0.13	U		<0.093	U		<0.1	U	
		VMP-22-5-041811	4/18/2011	<0.055	U		<0.062	U		<0.052	U		<0.044	U		0.13	J		<0.062	U		<0.045	U		<0.052	U	
	10 ft	VMP-22-10-021111	2/11/2011	<0.053	U		<0.06	U		<0.05	U		0.084						<0.06	U		<0.044	U		<0.05	U	
		VMP-22-10-041811	4/18/2011	<0.057	U		<0.064	U		<0.053	U		<0.046	U		0.12	J		<0.064	U		<0.047	U		<0.053	U	
	18 ft	VMP-22-18-021111	2/11/2011	<0.92	U		<1	U		<0.87	U		17						<1	U		<0.77	U		<0.87	U	
		VMP-22-18-041811	4/18/2011	<3.9	U		<4.4	U		3.9			31			1900			<4.4	U		<3.2	U		<3.7	U	
	38 ft	VMP-22-38-041811	4/18/2011	<12	U		<14	U		55			390			6100			<14	U		<10	U		<11	U	
VMP-23	5 ft	VMP-23-5-021511	2/15/2011	0.003	J		<0.0065	U		0.0049	J		0.0087						<0.0065	U		<0.0048	U		<0.0054	U	
		VMP-23-5-042111	4/21/2011	<0.05	U		<0.056	U		<0.047	U		0.013	J		0.044	J		<0.056	U		<0.041	U		<0.47	U	
	10 ft	VMP-23-10-021511	2/15/2011	0.0058	J		0.0024	J		0.0088			0.013						<0.0067	U		<0.0049	U		<0.0056	U	
		VMP-23-10-042111	4/21/2011	0.16			0.022	J		1.5			3.4			3.5			<0.068	U		<0.05	U		<0.56	U	
	25 ft	VMP-23-25-021511	2/15/2011	<0.0055	U		<0.0062	U		0.0021	J		0.0035	J					<0.0062	U		<0.0045	U		<0.0052	U	
		VMP-23-25-042111	4/21/2011	<0.056	U		<0.063	U		0.68			4.2			15			<0.063	U		<0.046	U		<0.53	U	
VMP-24	5 ft	VMP-24-5-021611	2/16/2011	<0.0061	U		<0.0069	U		0.004	J		0.0099						<0.0069	J	U	<0.0051	U		<0.0058	U	
		VMP-24-5-040811	4/8/2011	<0.065	U		<0.074	U		0.18			0.94			11			<0.074	U		<0.054	U		<0.062	U	
	10 ft	VMP-24-10-021711	2/17/2011	0.0028	J		<0.0066	U		<0.0055	U		0.18						<0.0066	J	U	<0.0048	U		<0.0055	U	
		VMP-24-10-041111	4/11/2011	<0.011	U		<0.012	U		0.055			0.19			1			<0.012	U		0.00079	J		<0.01	U	
	22 ft	VMP-24-22-021711	2/17/2011	0.0059			0.0026	J		0.053			0.11						<0.0066	J	U	<0.0048	U		<0.0055	U	
		VMP-24-22-041111	4/11/2011	<0.0055	U		<0.0062	U		<0.0052	U		0.0018	J		0.0062	J		<0.0062	U		<0.0045	U		<0.0052	U	
	34 ft	VMP-24-34-021711	2/17/2011	<0.0058	U		<0.0066	U		0.0022	J		0.0018	J					<0.0066	U		<0.0048	U		<0.0055	U	
		VMP-24-34-041111	4/11/2011	<0.0052	U		<0.0059	U		<0.005	U		0.0016	J		0.0049	J		<0.0059	U		0.00059	J		<0.005	U	

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

See last page of table for notes.

TABLE 3
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	2-Propanol			n-Propylbenzene			Styrene			Tetrachloroethene			Tetrahydrofuran			Toluene			1,2,4-Trichlorobenzene			1,1,1-Trichloroethane (Methyl chloroform)		
				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-9	5 ft	VMP-9-5	11/11/2009	<0.011	U		<0.005	U		<0.004	U		<0.007	U		<0.003	U		<0.004	U		<0.033	U		<0.006	U	
		VMP-9-5-082610	8/26/2010	0.012			<0.0056	U		<0.0048	U		0.0023	J		<0.0034	U		0.0036	J		<0.034	U		<0.0062	U	
		VMP-9-5-111910	11/19/2010	0.028			<0.0058	U		0.0017	J		0.016			<0.0035	U		0.00064	J		<0.035	U		<0.0065	U	
		VMP-9-5-020811	2/8/2011	0.0021	J		<0.0054	U		<0.0047	U		0.001	J		<0.0032	U		0.0035	J		<0.033	J	U	<0.006	U	
		VMP-9-5-040611	4/6/2011	<0.03	U		<0.015	U		<0.013	U		0.0058	J		<0.0089	U		0.0019	J		<0.09	J	U	<0.016	U	
	11.5 ft	VMP-9-11.5	11/11/2009	<0.014	U		<0.006	U		<0.005	U		<0.009	U		<0.004	U		0.032			<0.041	U		<0.007	U	
		VMP-9-11.5-082610	8/26/2010	<0.25	U		<0.13	U		<0.11	U		<0.17	U		<0.076	U		<0.097	U		<0.76	U		<0.14	U	
		VMP-9-11.5-111910	11/19/2010	<0.73	U		<0.37	U		<0.32	U		<0.5	U		<0.22	U		<0.28	U		<2.2	U		<0.41	U	
		VMP-9-11.5-020911	2/9/2011	0.0094	J	J	<0.0066	U		<0.0057	U		0.0039	J		<0.004	U		<0.0051	U		<0.04	U		<0.0073	U	
		VMP-9-11.5-020911-DUP	2/9/2011	0.049		J	<0.0051	U		<0.0044	U		0.0037	J		<0.0031	U		0.0029	J		<0.031	U		<0.0057	U	
		VMP-9-11.5-040611	4/6/2011	<0.039	U		<0.019	U		<0.017	U		0.0037	J		<0.012	U		<0.015	U		<0.12	J	U	<0.022	U	
	25.5 ft	VMP-9-25.5	11/10/2009	<2.7	U		<1.4	U		<1.2	U		<1.9	U		<0.81	U		<1	U		<8.2	U	UJ	<1.5	U	
		VMP-9-25.5-D	11/10/2009	<2.4	U		<1.2	U		<1	U		<1.7	U		<0.73	U		<0.93	U		<7.3	U	UJ	<1.3	U	
		VMP-9-25.5-082610	8/26/2010	<2	U		0.14	J		<0.86	U		<1.4	U		<0.59	U		<0.76	U		<6	U		<1.1	U	
		VMP-9-25.5-082610-DUP	8/26/2010	<2.1	U		<1.1	U		<0.92	U		<1.5	U		<0.64	U		<0.81	U		<6.4	U		<1.2	U	
		VMP-9-25.5-111910	11/19/2010	<2.3	U		<1.1	U		<0.98	U		<1.6	U		<0.68	U		<0.87	U		<6.8	U		<1.2	U	
		VMP-9-25.5-020911	2/9/2011	<1.2	U		<0.62	U		<0.54	U		<0.85	U		<0.37	U		<0.47	U		<3.7	U		<0.69	U	
		VMP-9-25.5-040811	4/8/2011	1			<0.31	U		0.084	J		<0.43	U		<0.19	U		0.089	J		<1.9	U		<0.35	U	
	38.5 ft	VMP-9-38.5	11/10/2009	<5.4	U		<2.7	U		<2.3	U		<3.7	U		<1.6	U		<2.1	U		<16	U	UJ	<3	U	
		VMP-9-38.5-020911	2/9/2011	<2	U		<1	U		<0.89	U		<1.4	U		<0.62	U		<0.79	U		<6.2	U		<1.1	U	
		VMP-9-38.5-040811	4/8/2011	4.5			<1.4	U		0.24	J		<1.9	U		<0.82	U		0.67	J		<8.2	U		<1.5	U	
VMP-18	8.5 ft	VMP-18-8.5	6/18/2010	0.012	J		<0.007	U		<0.006	U		<0.009	U		0.0072			0.0014	J		<0.043	U		<0.007	U	
		VMP-18-8.5-090710	9/7/2010	0.014			<0.0063	J	U	<0.0055	U		<0.0088	J	U	<0.0038	U		0.0021	J		<0.038	J	U	0.0011	J	
		VMP-18-8.5-111910	11/19/2010	0.0036	J		<0.0053	U		<0.0046	U		<0.0073	U		<0.0032	U		<0.0041	U		<0.032	U		<0.0059	U	
		VMP-18-8.5-020711	2/7/2011	0.091		J	0.0029	J		<0.0051	U		<0.0081	U		<0.0035	U		0.013		J	<0.035	J	U	<0.0065	U	
		VMP-18-8.5-020711-DUP	2/7/2011	0.012		J	0.0017	J		<0.0049	U		<0.0078	U		<0.0034	U		0.0031	J	J	<0.034	J	U	<0.0062	U	
		VMP-18-8.5-040711	4/7/2011	<0.013	U		0.01			<0.0055	U		0.0036	J		<0.0038	U		0.0011	J		<0.038	J	U	<0.007	U	
VMP-19	5 ft	VMP-19-5	6/18/2010	0.024			<0.006	U		<0.005	U		<0.009	J	U	<0.004	U		<0.005	U		<0.04	U		<0.007	U	
		VMP-19-5-090110	9/1/2010	0.58			<0.0063	J	U	<0.0055	U		<0.0088	J	U	<0.0038	U		<0.0049	U		<0.038	J	UJ	<0.007	U	
		VMP-19-5-111510	11/15/2010	0.0034	J		<0.0068	U		0.0065			0.0013	J		<0.0041	U		0.0014	J		<0.041	U		0.0014	J	
		VMP-19-5-020411	2/4/2011	0.0076	J		<0.0059	U		<0.0052	U		<0.0082	U		<0.0036	U		0.0018	J		<0.036	J	U	<0.0066	U	
		VMP-19-5-040711	4/7/2011	<0.013	U		<0.0066	U		<0.0058	U		0.0015	J		<0.004	U		0.0014	J		0.0031	J		<0.0074	U	
VMP-20	5 ft	VMP-20-5-031411	3/14/2011	<0.012	U		0.0024	J		<0.0052	U		0.055			<0.0036	U		0.046			<0.036	U	UJ	<0.0066	U	
		VMP-20-5-041511	4/15/2011	<0.13	UJ	UJ	<0.065	U		<0.057	U		<0.09	U		<0.039	U	UJ	<0.05	U		<0.39	U		<0.072	U	
	10 ft	VMP-20-10-031411	3/14/2011	<0.012	U		0.0023	J		<0.0052	U		0.0089			0.0018	J		0.0084			<0.036	U	UJ	<0.0066	U	
		VMP-20-10-041511	4/15/2011	<0.12	UJ	UJ	0.023	J		<0.052	U		<0.082	U		<0.036	U	UJ	<0.046	U		<0.36	U		<0.066	U	
	25 ft	VMP-20-25-031411	3/14/2011	<0.012	U		<0.0059	U		<0.0051	U		0.0068	J		<0.0035	U		0.0015	J		<0.035	U	UJ	<0.0065	U	
		VMP-20-25-041511	4/15/2011	<0.14	UJ	UJ	<0.068	U		<0.059	U		<0.094	U		<0.041	U	UJ	<0.052	U		<0.41	U		<0.075	U	
VMP-21	5 ft	VMP-21-5-020911	2/9/2011	<4.6	U		<2.3	U		<2	U		<3.2	U		<1.4	U		<1.8	U		<14	U		<2.5	U	
		VMP-21-5-020911-DUP	2/9/2011	<7.8	U		<3.9	U		<3.4	U		<5.4	U		<2.3	U		<3	U		<24	U		<4.3	U	
		VMP-21-5-041311	4/13/2011	<0.013	U		0.0016	J		<0.0056	U		0.011			<0.0039	U		0.0027	J		<0.039	J	U	<0.0072	U	
	10 ft	VMP-21-10-021011	2/10/2011	<4.1	U		<2.1	U		<1.8	U		<2.8	U		<1.2	U		<1.6	U		<12	U		<2.3	U	
		VMP-21-10-041311	4/13/2011	0.16	J		<0.26	U		0.051	J		<0.36	U		<0.16	U		<0.2	U		<1.6	U		<0.29	U	
	25 ft	VMP-21-25-021011	2/10/2011	<11	U		<5.7	U		<5	U		<7.9	U		<3.4	U		<4.4	U		<34	U		<6.4	U	
		VMP-21-25-041411	4/14/2011	<40	UJ	UJ	<20	U		<17	U		<28	U		<12	U	UJ	<15	U		<120	U		<22	U	
		VMP-21-25-041411-DUP	4/14/2011	<40	UJ	UJ	<20	U		<17	U		<28	U		<12	U	UJ	<15	U		<120	U		<22	U	
	33 ft	VMP-21-33-021011	2/10/2011	<11	U		<5.7	U		<5	U		<7.9	U		<3.4	U		<4.4	U		<34	U		<6.4	U	
		VMP-21-33-041411	4/14/2011	<39	UJ	UJ	<19	U		<17	U		<27	U		<12	U	UJ	8.9	J		<120	U		<21	U	
VMP-22	5 ft	VMP-22-5-021111	2/11/2011	<0.25	U		<0.13	U		<0.11	U		<0.17	U		<0.076	U		<0.097	U		<0.76	U		<0.14	U	
		VMP-22-5-041811	4/18/2011	<0.12	UJ	UJ	<0.062	U		<0.054	U		<0.085	U		<0.037	U	UJ	<0.047	U		<0.37	U		<0.069	U	
	10 ft	VMP-22-10-021111	2/11/2011	<0.12	U		<0.06	U		<0.052	U		<0.083	U		<0.036	U		<0.046	U		<0.36	U		<0.066	U	
		VMP-22-10-041811	4/18/2011	<0.13	UJ	UJ	<0.064	U		<0.056	U		<0.088	U		<0.038	U	UJ	<0.049	U		<0.39	U		<0.071	U	
	18 ft	VMP-22-18-021111	2/11/2011	<2.1	U		<1	U		<0.9	U		<1.4	U		<0.63	U		0.34	J		<6.3	U		<1.2	U	
		VMP-22-18-041811	4/18/2011	<8.8	UJ	UJ	<4.4	U		<3.8	U		<6.1	U		<2.6	U	UJ	<3.4	U		<27	U		<4.9	U	
	38 ft	VMP-22-38-041811	4/18/2011	<27	UJ	UJ	<14	U		<12	U		<19	U		<8.1	U	UJ	<10	U		<82	U		<15	U	
VMP-23	5 ft	VMP-23-5-021511	2/15/2011	0.0033	J		<0.0065	U		<0.0056	U		<0.009	U		<0.0039	U		0.013			<0.039	U		<0.0072	U	
		VMP-23-5-042111	4/21/2011	0.015	J		<0.056	U		<0.49	U		<0.078	U		<0.034	U		<0.043	U		<0.34	U		<0.062	U	
	10 ft	VMP-23-10-021511	2/15/2011	0.0045	J		<0.0067	J	U	<0.0058	U		0.0015	J		<0.004	U		0.0062			0.0094	J		<0.0074	U	
		VMP-23-10-042111	4/21/2011	0.012	J		<0.068	U		<0.59	U		<0.094	U		<0.041	U		0.25			<0.41	U		<0.075	U	
	25 ft	VMP-23-25-021511	2/15/2011	0.094			<0.0062	U		<0.0054	U		<0.0085	U		<0.0037	U		0.0011	J		<0.037	U		<0.0069	U	
		VMP-23-25-042111	4/21/2011	<0.13	U		<0.063	U		<0.55	U		<0.088	U		<0.038	U		<0.049	U		<0.38	U		<0.07	U	
VMP-24	5 ft	VMP-24-5-021611	2/16/2011	0.0033	J		<0.0069	J	U	<0.006	U		<0.0096	U		<0.0042	U		<0.0053	J	U	<0.042	J	U	<0.0077	U	
		VMP-24-5-040811	4/8/2011	<0.15	U		<0.074	U		<0.064	U		<0.1	U		<0.044	U		<0.057	U		<0.45	U		<0.082	U	
	10 ft	VMP-24-10-021711	2/17/2011	0.0065	J		<0.0066	J	U	<0.0057	U		<0.0091	U		<0.004	U		<0.0051	J	U	<0.04	U		<0.0073	U	
		VMP-24-10-041111	4/11/2011	<0.025	U		<0.012	U		<0.011	U		0.0033	J		<0.0074	U		0.0025	J		<0.075	U		<0.014	U	
	22 ft	VMP-24-22-021711	2/17/2011	0.0063	J		<0.0066	J	U	<0.0057	U		0.0014	J		<0.004	U		0.0049	J		<0.04	U		<0.0073	U	
		VMP-24-22-041111	4/11/2011	<0.012	U		<0.0062	U		<0.0054	U		0.0025	J		<0.0037	U		<0.0047	U		<0.037	U		<0.0069	U	
	34 ft	VMP-24-34-021711	2/17/2011	0.0026	J		<0.0066	U		<0.0057	U		<0.0091	U		0.0014	J		<0.0051	J	U	<0.04	U		<0.0073	U	
		VMP-24-34-041111	4/11/2011	0.0052	J		<0.0059	U		<0.0052	U		0.0021	J		<0.0036	U		0.00092	J		<0.036	U		<0.0066	U	

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

See last page of table for notes.

TABLE 3
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
VILLAGE - VOCS

Location	Depth	Sample ID	Sample Date	1,1,2-Trichloroethane			Trichloroethene			Trichlorofluoromethane			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			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-9	5 ft	VMP-9-5	11/11/2009	<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-9-5-082610	8/26/2010	<0.0062	U		<0.0061	U		<0.0064	U		<0.0056	U		<0.0056	U		0.029			0.0013	J		<0.005	U	
		VMP-9-5-111910	11/19/2010	<0.0065	U		0.0037	J		<0.0067	U		<0.0058	U		<0.0058	U		0.0075			<0.0052	U		<0.0052	U	
		VMP-9-5-020811	2/8/2011	<0.006	U		0.0014	J		0.0011	J		<0.0054	U		<0.0054	U		0.002	J		<0.0048	U		<0.0048	U	
		VMP-9-5-040611	4/6/2011	<0.016	U		0.0077	J		<0.017	U		<0.015	U		<0.015	U		0.022			<0.013	U		<0.013	U	
	11.5 ft	VMP-9-11.5	11/11/2009	<0.007	U		<0.007	U		<0.007	U		<0.006	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		<0.13	U		<0.13	U		98			<0.11	U		<0.11	U	
		VMP-9-11.5-111910	11/19/2010	<0.41	U		0.37	J		<0.42	U		<0.37	U		<0.37	U		150			<0.32	U		<0.32	U	
		VMP-9-11.5-020911	2/9/2011	<0.0073	U		<0.0072	U		<0.0076	U		<0.0066	U		<0.0066	U		0.0073			<0.0058	U		<0.0058	U	
		VMP-9-11.5-020911-DUP	2/9/2011	<0.0057	U		<0.0056	U		<0.0059	U		<0.0051	U		<0.0051	U		0.0074			<0.0045	U		<0.0045	U	
		VMP-9-11.5-040611	4/6/2011	<0.022	U		0.011	J		<0.022	U		<0.019	U		<0.019	U		0.0075	J		<0.017	U		<0.017	U	
	25.5 ft	VMP-9-25.5	11/10/2009	<1.5	U		<1.5	U		<1.5	U		<1.4	U		<1.4	U		710		J	<1.2	U		<1.2	U	
		VMP-9-25.5-D	11/10/2009	<1.3	U		<1.3	U		<1.4	U		<1.2	U		<1.2	U		680		J	<1.1	U		<1.1	U	
		VMP-9-25.5-082610	8/26/2010	<1.1	U		<1.1	U		<1.1	U		0.19	J		<0.99	U		650			<0.87	U		<0.87	U	
		VMP-9-25.5-082610-DUP	8/26/2010	<1.2	U		<1.2	U		<1.2	U		0.17	J		<1.1	U		660			<0.94	U		<0.94	U	
		VMP-9-25.5-111910	11/19/2010	<1.2	U		<1.2	U		<1.3	U		<1.1	U		<1.1	U		550			<1	U		<1	U	
		VMP-9-25.5-020911	2/9/2011	<0.69	U		<0.68	U		<0.71	U		0.12	J		<0.62	U		190			<0.55	U		<0.55	U	
		VMP-9-25.5-040811	4/8/2011	<0.35	U		<0.34	U		<0.36	U		0.056	J		<0.31	U		98			0.075	J		<0.28	U	
	38.5 ft	VMP-9-38.5	11/10/2009	<3	U		<3	U		<3.1	U		<2.7	U		<2.7	U		640		J	<2.4	U		<2.4	U	
		VMP-9-38.5-020911	2/9/2011	<1.1	U		<1.1	U		<1.2	U		<1	U		<1	U		380			<0.91	U		<0.91	U	
		VMP-9-38.5-040811	4/8/2011	<1.5	U		<1.5	U		<1.6	U		<1.4	U		<1.4	U		250			<1.2	U		<1.2	U	
VMP-18	8.5 ft	VMP-18-8.5	6/18/2010	<0.007	U		<0.007	U		0.0012	J		<0.007	U		<0.007	U		0.0084			0.0013	J		<0.006	U	
		VMP-18-8.5-090710	9/7/2010	<0.007	U		<0.0069	J	U	0.0024	J		<0.0063	J	U	<0.0063	U		0.06			0.00095	J		<0.0056	U	
		VMP-18-8.5-111910	11/19/2010	<0.0059	U		0.0022	J		<0.0061	U		<0.0053	U		<0.0053	U		0.093			<0.0047	U		<0.0047	U	
		VMP-18-8.5-020711	2/7/2011	<0.0065	U		0.0026	J		0.0011	J		0.0042	J		0.0019	J		0.1		J	0.023		J	0.0083		
		VMP-18-8.5-020711-DUP	2/7/2011	<0.0062	U		0.0019	J		0.0011	J		0.0023	J		<0.0056	U		0.032		J	0.0053		J	0.0023	J	
		VMP-18-8.5-040711	4/7/2011	<0.007	U		0.0032	J		0.001	J		<0.0063	J	U	<0.0063	U		0.022			<0.0056	J	U	<0.0056	U	
VMP-19	5 ft	VMP-19-5	6/18/2010	<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		<0.0069	U		0.0013	J		<0.0063	J	U	<0.0063	U		0.22	J	J	0.014		J	0.0047	J	J
		VMP-19-5-111510	11/15/2010	<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		0.0032	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		0.0034	J		0.00094	J		<0.0066	U		<0.0066	U		0.054			0.0015	J		<0.0059	U	
VMP-20	5 ft	VMP-20-5-031411	3/14/2011	<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		<0.071	U		<0.075	U		<0.065	U		<0.065	U		4			<0.058	U		<0.058	U	
	10 ft	VMP-20-10-031411	3/14/2011	<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		<0.065	U		<0.068	U		<0.059	U		<0.059	U		1.1			<0.052	U		<0.052	U	
	25 ft	VMP-20-25-031411	3/14/2011	<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		<0.074	U		<0.078	U		<0.068	U		<0.068	U		1			<0.06	U		<0.06	U	
VMP-21	5 ft	VMP-21-5-020911	2/9/2011	<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		<4.5	U		<3.9	U		<3.9	U		660			<3.4	U		<3.4	U	
		VMP-21-5-041311	4/13/2011	<0.0072	U		<0.0071	U		0.0012	J		0.0014	J		<0.0065	U		1.6			0.0035	J		<0.0057	U	
	10 ft	VMP-21-10-021011	2/10/2011	<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		0.17	J		<0.3	U		<0.26	U		<0.26	U		42			<0.23	U		<0.23	U	
	25 ft	VMP-21-25-021011	2/10/2011	<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		<23	U		<20	U		<20	U		1200			<18	U		<18	U	
		VMP-21-25-041411-DUP	4/14/2011	<22	U		<22	U		<23	U		<20	U		<20	U		1200			<18	U		<18	U	
	33 ft	VMP-21-33-021011	2/10/2011	<6.4	U		<6.3	U		<6.5	U		<5.7	U		<5.7	U		1800			<5	U		<5	U	
		VMP-21-33-041411	4/14/2011	<21	U		<21	U		<22	U		<19	U		<19	U		1300			6.1	J		<17	U	
VMP-22	5 ft	VMP-22-5-021111	2/11/2011	<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		<0.068	U		<0.071	U		<0.062	U		<0.062	U		0.22			<0.055	U		<0.055	U	
	10 ft	VMP-22-10-021111	2/11/2011	<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		<0.07	U		<0.073	U		<0.064	U		<0.064	U		0.016	J		<0.057	U		<0.057	U	
	18 ft	VMP-22-18-021111	2/11/2011	<1.2	U		<1.1	U		<1.2	U		<1	U		<1	U		480			<0.92	U		<0.92	U	
		VMP-22-18-041811	4/18/2011	<4.9	U		<4.8	U		<5	U		<4.4	U		<4.4	U		390			<3.9	U		<3.9	U	
	38 ft	VMP-22-38-041811	4/18/2011	<15	U		<15	U		<16	U		<14	U		<14	U		710			<12	U		<12	U	
VMP-23	5 ft	VMP-23-5-021511	2/15/2011	<0.0072	U		0.002	J		0.0011	J		<0.0065	U		<0.0065	U		0.0085			0.0046	J		0.0013	J	
		VMP-23-5-042111	4/21/2011	<0.062	U		<0.062	U		<0.064	U		<0.056	U		<0.056	U		0.016	J		0.022	J		<0.05	U	
	10 ft	VMP-23-10-021511	2/15/2011	<0.0074	U		<0.0073	J	U	0.0015	J		<0.0067	J	U	<0.0067	U		0.024			0.0086			0.0037	J	
		VMP-23-10-042111	4/21/2011	<0.075	U		<0.074	U		<0.078	U		<0.068	U		<0.068	U		1.4			0.26			0.059		
	25 ft	VMP-23-25-021511	2/15/2011	<0.0069	U		0.0024	J		<0.0071	U		<0.0062	U		<0.0062	U		1.3			0.00067	J		<0.0055	U	
		VMP-23-25-042111	4/21/2011	<0.07	U		<0.069	U		<0.072	U		<0.063	U		<0.063	U		2.9			<0.056	U		<0.056	U	
VMP-24	5 ft	VMP-24-5-021611	2/16/2011	<0.0077	U		<0.0076	U		<0.0079	U		<0.0069	J	U	<0.0069	J	U	0.011			<0.0061	J	U	<0.0061	J	U
		VMP-24-5-040811	4/8/2011	<0.082	U		<0.081	U		<0.084	U		<0.074	U		<0.074	U		0.48			<0.065	U		<0.065	U	
	10 ft	VMP-24-10-021711	2/17/2011	<0.0073	U		<0.0072	U		0.0019	J		<0.0066	J	U	<0.0066	U		1.2			<0.0058	J	U	<0.0058	U	
		VMP-24-10-041111	4/11/2011	<0.014	U		0.0037	J		<0.014	U		<0.012	U		<0.012	U		0.12			<0.011	J	U	<0.011	U	
	22 ft	VMP-24-22-021711	2/17/2011	<0.0073	U		<0.0072	U		0.0018	J		<0.0066	J	U	<0.0066	U		0.54			0.0084			0.003	J	
		VMP-24-22-041111	4/11/2011	<0.0069	U		<0.0068	J	U	0.0022	J		<0.0062	U		<0.0062	U		0.00094	J		<0.0055	U		<0.0055	U	
	34 ft	VMP-24-34-021711	2/17/2011	<0.0073	U		<0.0072	U		0.0022	J		<0.0066	U		<0.0066	U		0.024			<0.0058	U		<0.0058	U	
		VMP-24-34-041111	4/11/2011	<0.0066	U		0.003	J		0.0021	J		<0.0059	U		<0.0059	U		0.0012	J		<0.0052	U		<0.0052	U	

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

See last page of table for notes.

TABLE 4
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Acetone			Benzene			Bromodichloromethane			Bromomethane			1,3-Butadiene			Butane			2-Butanone			Carbon disulfide			Carbon tetrachloride		
				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	Result (mg/m^3)	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		<0.006	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			<0.0083	U	
		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		0.001	J	
		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		<0.0075	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		<0.0069	U	
	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		<0.007	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			<0.0083	U	
		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		0.0012	J	
		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		<0.0064	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		<0.0083	U	
	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		<0.007	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		<0.007	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		<0.0087	U	
		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		<0.0081	U	
		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		<0.015	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		<0.0078	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		<0.0077	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	<0.0092	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		<0.007	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		<0.056	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		<0.0078	U	
		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	<0.0081	U	
		VMP-11-5-021511	2/15/2011	0.018			0.0023	J		<0.0076	U		<0.0044	U		<0.0025	U					0.0028	J		<0.0036	U		<0.0072	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		<0.068	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		<0.007	U	
		VMP-11-8-090810	9/8/2010	0.017			0.024			<0.0086	U		<0.005	U		<0.0028	U					0.0023	J		<0.0049		U	<0.0081	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	<0.0081	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		<0.0079	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		<0.0074	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		<0.035	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		<0.03	U	
	29 ft	VMP-11-29	11/18/2009	<81	U		8600			<57	U		<33	U		<19	U					<25	U		<26	U		<53	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		<0.2	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		<2.9	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		<2	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		<0.0079	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		<0.059	U	
	38 ft	VMP-11-38	11/18/2009	<230	U		31000			<160	U		<96	U		<54	U					<73	U		<77	U		<160	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		<20	U	
		VMP-12-5-090310	9/3/2010	<13	U		230			<9	U		<5.2	U		<3	U					<4	U		<4.2	U		<8.5	U	
		VMP-12-5-120310	12/3/2010	<130	U		16000			<89	U		<52	U		<29	U					<39	U		<41	U		<84	U	
		VMP-12-5-021511	2/15/2011	<5.8	U		80			<4.1	U		<2.4	U		<1.3	U					<1.8	U		<1.9	U		<3.8	U	
		VMP-12-5-041911	4/19/2011	17	J		5.8	J		<30	U		<17	U		<9.9	U		3200			<53	U		<14	U		<28	U	
	11.5 ft	VMP-12-11.5	11/13/2009	<52	U		8400			<37	U		<21	U		<12	U					<16	U		<17	U		<35	U	
		VMP-12-11.5-090310	9/3/2010	<16	U		4100			<12	U		<6.7	U		<3.8	U					<5.1	U		<5.4	U		<11	U	
		VMP-12-11.5-120310	12/3/2010	<14	U		2000			<10	U		<5.8	U		<3.3	U					<4.4	U		<4.6	U		<9.4	U	
		VMP-12-11.5-021511	2/15/2011	<13	U		1600			<9	U		<5.2	U		<3	U					<4	U		<4.2	U		<8.4	U	
		VMP-12-11.5-021511-DUP	2/15/2011	<11	U		1300			<7.7	U		<4.5	U		<2.6	U					<3.4	U		<3.6	U		<7.3	U	
		VMP-12-11.5-041911	4/19/2011	15	J		810			<27	U		<16	U		<8.9	U		4300			<48	U		<12	U		<25	U	
	25 ft	VMP-12-25	11/13/2009	<110	U		18000			<76	U		<44	U		<25	U					<33	U		<35	U		<71	U	
		VMP-12-25-090310	9/3/2010	<21	U		14000			<15	U		<8.5	U		<4.9	U					<6.5	U		<6.8	U		<14	U	
		VMP-12-25-120310	12/3/2010	<1	U		3.8			<0.73	U		<0.42	U		<0.24	U					<0.32	U		<0.34	U		<0.68	U	
		VMP-12-25-021511	2/15/2011	6.9	J		7600			<18	U		<10	U		<5.9	U					<7.8	U		<8.3	U		<17	U	
		VMP-12-25-041911	4/19/2011	27	J		8300			<29	U		<17	U		<9.6	U		3500			<51	U		<14	U		<27	U	
	39 ft	VMP-12-39	11/13/2009	<110	U		26000			<79	U		<46	U		<26	U					<35	U		<37	U		<74	U	
		VMP-12-39-041911	4/19/2011	24	J		10000			<28	U		<16	U		<9.3	U		3200			<50	U		<13	U		<26	U	
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		<15	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		<0.055	U	
		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		<0.0073	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		<0.0087	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		<0.017	U	
	10.5 ft	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		<1.9	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		<1.9	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		<0.02	U	
		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			<0.02	U	
		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		<0.0081	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		<0.0085	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		<3.4	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		<3.2	U	
		VMP-13-10.5-040511	4/5/2011	0.013	J		0.0057	J		<0.018	U		<0.01	U		<0.0059	U		<0.025	U		<0.031	U		0.0047	J		<0.017	U	
		VMP-13-10.5-040511-DUP	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		<0.0087	U	
	21.5 ft	VMP-13-21.5	11/17/2009	<140	U		24000			<100	U		<59	U		<34	U					<45	U		<47	U		<96	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		<15	U	
		VMP-13-21.5-120110	12/1/2010	<44	U		5400			<31	U		<18	U		<10	U					<14	U		<15	U		<30	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		<4.4	U	
		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		<6.4	U	
	29.5 ft	VMP-13-29.5	11/17/2009	<280	U		90000			<200	U		<120	U		<66	U					<88	U		<93	U		<190	U	
		VMP-13-29.5-021811	2/18/2011	<200	U		17000			<140	U		<84	U		<48	U					<64	U		<67	U		<140	U	
		VMP-13-29.5-040511	4/5/2011	<130	U		23000			<94	U		<54	U		<31	U		94	J		<160	U		<44	U		<88	U	

See last page of table for notes.

TABLE 4
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			alpha-Chlorotoluene			Cyclohexane			1,2-Dibromoethane			1,2-Dichlorobenzene		
				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	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-10	5 ft	VMP-10-5	11/11/2009	<0.005	U		<0.009	U		<0.002	U		<0.005	U		<0.009	U		<0.005	U		<0.003	U		<0.008	U		<0.006	U	
		VMP-10-5-090710	9/7/2010	<0.0061	U		<0.011	U		<0.0035	U		<0.0064	U		<0.011	U		<0.0068	U		0.0092			<0.01	U		<0.0079	U	
		VMP-10-5-111810	11/17/2010	<0.0056	U		<0.01	U		<0.0032	U		<0.0059	U		<0.01	U		<0.0063	U		0.0048			<0.0093	U		<0.0073	U	
		VMP-10-5-021011	2/10/2011	<0.0055	U		<0.01	U		<0.0031	U		<0.0058	U		<0.0098	U		<0.0062	U		0.023			<0.0091	U		<0.0072	U	
		VMP-10-5-040511	4/5/2011	<0.0051	U		<0.0094	U		<0.012	U		<0.0054	U		<0.0091	U		<0.0057	U		0.0053			<0.0084	U		<0.0066	J	U
	10 ft	VMP-10-10	11/11/2009	<0.005	U		<0.009	U		<0.003	U		<0.005	U		<0.009	U		<0.005	U		<0.003	U		<0.008	U		<0.006	U	
		VMP-10-10-090710	9/7/2010	<0.0061	U		<0.011	U		<0.0035	U		<0.0064	U		<0.011	U		<0.0068	U		0.0052			<0.01	U		<0.0079	U	
		VMP-10-10-111810	11/17/2010	<0.0059	U		<0.011	U		<0.0034	U		<0.0063	U		<0.011	U		<0.0067	U		0.0053			<0.0099	U		<0.0078	U	
		VMP-10-10-021111	2/11/2011	<0.0046	U		<0.0086	U		<0.0027	U		<0.0049	U		<0.0083	U		<0.0052	U		0.0034	J		<0.0078	U		<0.0061	U	
		VMP-10-10-040611	4/6/2011	<0.0061	J	U	0.0024	J		<0.014	U		<0.0064	U		<0.011	U		<0.0068	J	U	0.0021	J		<0.01	J	U	<0.0079	J	U
	20 ft	VMP-10-20	11/11/2009	<0.005	U		<0.009	U		<0.003	U		<0.005	U		<0.009	U		<0.005	U		<0.003	U		<0.008	U		<0.006	U	
		VMP-10-20-D	11/11/2009	<0.005	U		<0.01	U		<0.003	U		<0.006	U		<0.01	U		<0.006	U		<0.004	U		<0.009	U		<0.007	U	
		VMP-10-20-090710	9/7/2010	<0.0064	U		<0.012	U		<0.0036	U		<0.0067	U		<0.011	U		<0.0071	U		0.0035	J		<0.011	U		<0.0083	U	
		VMP-10-20-090710-DUP	9/7/2010	<0.0059	U		<0.011	U		<0.0034	U		<0.0063	U		<0.011	U		<0.0067	U		0.002	J		<0.0099	U		<0.0078	U	
		VMP-10-20-111810	11/17/2010	<0.011	U		<0.021	U		<0.0064	U		0.0017	J		<0.02	U		<0.013	U		0.0025	J		<0.019	U		<0.015	U	
		VMP-10-20-111810-Dup	11/17/2010	<0.0057	U		<0.01	U		<0.0032	U		0.0014	J		<0.01	U		<0.0064	U		0.0056			<0.0095	U		<0.0074	U	
		VMP-10-20-021111	2/11/2011	<0.0056	U		<0.01	U		<0.0032	U		<0.006	U		<0.01	U		<0.0063	U		0.0027	J		<0.0094	U		<0.0073	U	
		VMP-10-20-040611	4/6/2011	<0.0068	J	U	<0.012	U		<0.016	U		<0.0072	U		<0.012	U		<0.0076	J	U	0.0034	J		<0.011	U		<0.0088	J	U
	30 ft	VMP-10-30	11/13/2009	<0.005	U		<0.01	U		<0.003	U		0.016			<0.01	U		<0.006	U		<0.004	U		<0.009	U		<0.007	U	
VMP-11	5 ft	VMP-11-5	11/17/2009	<0.041	U		<0.076	U		<0.024	U		<0.044	U		<0.074	U		<0.046	U		<0.031	U		<0.069	U		<0.054	U	
		VMP-11-5-090710	9/7/2010	<0.0057	U		<0.01	U		<0.0032	U		0.0019	J		<0.01	U		<0.0064	U		0.0012	J		<0.0095	U		<0.0074	U	
		VMP-11-5-112210	11/22/2010	<0.0059	U		<0.011	U		<0.0034	U		0.0039	J		<0.011	U		<0.0067	U		<0.0044	U		<0.0099	U		<0.0078	U	
		VMP-11-5-021511	2/15/2011	<0.0052	U		<0.0097	U		<0.003	U		0.0025	J		<0.0094	U		<0.0059	U		0.0089			<0.0088	U		<0.0068	U	
		VMP-11-5-040611	4/6/2011	<0.05	U		<0.092	U		<0.11	U		<0.053	U		0.055	J		<0.056	U		0.082			<0.083	U		<0.065	U	
	8 ft	VMP-11-8	11/17/2009	<0.005	U		<0.01	U		<0.003	U		<0.006	U		<0.01	U		<0.006	U		<0.004	U		<0.009	U		<0.007	U	
		VMP-11-8-090810	9/8/2010	<0.0059	U		<0.011	U		<0.0034	U		0.0014	J		<0.011	U		<0.0067	U		0.00085	J		<0.0099	U		<0.0078	U	
		VMP-11-8-112210	11/22/2010	<0.0059	U		<0.011	U		<0.0034	U		<0.0063	U		<0.011	U		<0.0067	U		<0.0044	U		<0.0099	U		<0.0078	U	
		VMP-11-8-021111	2/11/2011	<0.0058	U		<0.011	U		<0.0033	U		0.0018	J		<0.01	U		<0.0065	U		0.0013	J		<0.0096	U		<0.0075	U	
		VMP-11-8-021111-DUP	2/11/2011	<0.0054	U		<0.01	U		<0.0031	U		0.0019	J		<0.0097	U		<0.0061	U		0.001	J		<0.009	U		<0.0071	U	
		VMP-11-8-040611	4/6/2011	<0.026	U		<0.047	U		<0.058	U		<0.027	U		<0.046	U		<0.029	U		0.042			<0.043	U		<0.033	U	
		VMP-11-8-040611-DUP	4/6/2011	<0.022	U		<0.041	U		<0.051	U		0.0029	J		<0.04	U		<0.025	U		0.047			<0.037	U		<0.029	U	
	29 ft	VMP-11-29	11/18/2009	<39	U		<72	U		<22	U		<42	U		<70	U		<44	U		<29	U		<65	U		<51	U	
		VMP-11-29-090810	9/8/2010	<0.15	U		<0.27	U		<0.085	U		<0.16	U		<0.27	U		<0.17	U		0.068	J		<0.25	U		<0.19	U	
		VMP-11-29-112210	11/22/2010	<2.1	U		<3.9	U		<1.2	U		<2.2	U		<3.8	U		<2.4	U		<1.6	U		<3.5	U		<2.8	U	
		VMP-11-29-112210-Dup	11/22/2010	<1.5	U		<2.7	U		<0.84	U		<1.6	U		<2.6	U		<1.6	U		<1.1	U		<2.5	U		<1.9	U	
		VMP-11-29-021411	2/14/2011	<0.0058	U		<0.011	U		<0.0033	U		0.0069			<0.01	U		<0.0065	U		0.032			<0.0096	U		<0.0075	U	
		VMP-11-29-040611	4/6/2011	<0.044	U		<0.08	U		<0.1	U		<0.046	U		<0.078	U		<0.049	U		0.065			<0.073	U		<0.057	U	
	38 ft	VMP-11-38	11/18/2009	<110	U		<210	U		<65	U		<120	U		<200	U		<130	U		<85	U		<190	U		<150	U	
VMP-12	5 ft	VMP-12-5	11/13/2009	<14	U		<27	U		<8.3	U		<15	U		<26	U		<16	U		570			<24	U		<19	U	
		VMP-12-5-090310	9/3/2010	<6.2	U		<11	U		<3.5	U		<6.6	U		<11	U		<7	U		410			<10	U		<8.1	U	
		VMP-12-5-120310	12/3/2010	<61	U		<110	U		<35	U		<65	U		<110	U		<69	U		750			<100	U		<80	U	
		VMP-12-5-021511	2/15/2011	<2.8	U		<5.2	U		<1.6	U		<3	U		<5	U		<3.2	U		88			<4.7	U		<3.7	U	
		VMP-12-5-041911	4/19/2011	<20	U		<38	U		<47	U		<22	U		<37	U		<23	U		300			<34	U		<27	U	
	11.5 ft	VMP-12-11.5	11/13/2009	<25	U		<47	U		<14	U		<27	U		<45	U		<28	U		560			<42	U		<33	U	
		VMP-12-11.5-090310	9/3/2010	<7.9	U		<15	U		<4.6	U		<8.4	U		<14	U		<8.9	U		580			<13	U		<10	U	
		VMP-12-11.5-120310	12/3/2010	<6.9	U		<13	U		<3.9	U		<7.3	U		<12	U		<7.7	U		340			<11	U		<9	U	
		VMP-12-11.5-021511	2/15/2011	<6.2	U		<11	U		<3.5	U		<6.5	U		<11	U		<6.9	U		450			<10	U		<8	U	
		VMP-12-11.5-021511-DUP	2/15/2011	<5.3	U		<9.8	U		<3	U		<5.6	U		<9.5	U		<6	U		390			<8.9	U		<6.9	U	
		VMP-12-11.5-041911	4/19/2011	<19	U		<34	U		<43	U		<20	U		<33	U		<21	U		420			<31	U		<24	U	
	25 ft	VMP-12-25	11/13/2009	<52	U		<96	U		<30	U		<55	U		<93	U		<58	U		680			<87	U		<68	U	
		VMP-12-25-090310	9/3/2010	<10	U		<19	U		<5.8	U		<11	U		<18	U		<11	U		650			<17	U		<13	U	
		VMP-12-25-120310	12/3/2010	<0.5	U		<0.93	U		<0.29	U		<0.53	U		<0.9	U		<0.56	U		18			<0.84	U		<0.66	U	
		VMP-12-25-021511	2/15/2011	<12	U		<23	U		<7	U		<13	U		<22	U		<14	U		410			<20	U		<16	U	
		VMP-12-25-041911	4/19/2011	<20	U		<37	U		<46	U		<21	U		<36	U		<22	U		430			<33	U		<26	U	
	39 ft	VMP-12-39	11/13/2009	<54	U		<100	U		<31	U		<58	U		<98	U		<61	U		710			<91	U		<71	U	
		VMP-12-39-041911	4/19/2011	<19	U		<36	U		<44	U		<20	U		<35	U		<22	U		570			<32	U		<25	U	
VMP-13	5 ft	VMP-13-5	11/16/2009	<11	U		<21	U		<6.4	U		<12	U		<20	U		<12	U		<8.3	U		<18	U		<14	U	
		VMP 13-5-091310	9/13/2010	<0.04	U		<0.075	U		<0.023	U		<0.043	U		<0.073	U		<0.046	U		0.014	J		<0.068	U		<0.053	U	
		VMP-13-5-120110	12/1/2010	<0.0054	U		<0.0099	U		<0.0031	U		<0.0057	U		<0.0096	U		<0.006	U		0.031			<0.009	U		<0.007	U	
		VMP-13-5-021811	2/18/2011	<0.0064	U		<0.012	U		<0.0036	U		<0.0067	U		<0.011	U		<0.0071	U		0.003	J		<0.011	U		<0.0083	U	
		VMP-13-5-040511	4/5/2011	<0.013	U		<0.024	U		<0.029	U		<0.013	U		<0.023	U		<0.014	U		0.0021	J		<0.021	U		<0.016	J	U
	10.5 ft	VMP-13-10.5	11/17/2009	<1.4	U		<2.5	U		<0.78	U		<1.4	U		<2.4	U		<1.5	U		<1	U		<2.3	U		<1.8	U	
		VMP-13-10.5-D	11/17/2009	<1.4	U		<2.6	U		<0.82	U		<1.5	U		<2.6	U		<1.6	U		<1.1	U		<2.4	U		<1.8	U	
		VMP 13-10.5-091310	9/13/2010	<0.015	U		<0.028	U		<0.0086	U		<0.016	U		<0.027	U		<0.017	U		0.014			<0.025	U		<0.02	U	
		VMP 13-10.5-091310-Dup	9/13/2010	<0.015	U		<0.027	U		<0.0084	U		<0.016	U		<0.026	U		<0.016	U		0.015			<0.024	U		<0.019	U	
		VMP-13-10.5-120110	12/1/2010	<0.006	U		<0.011	U		<0.0034	U		0.0012	J		<0.011	U		<0.0067	U		0.0029	J		<0.01	U		<0.0078	U	
		VMP-13-10.5-120110-DUP	12/1/2010	<0.0062	U		<0.012	U		<0.0036	U		0.00098	J		<0.011	U		<0.007	U		0.0048			<0.01	U		<0.0081	U	
		VMP-13-10.5-021811	2/18/2011	<2.5	U		<4.6	U		<1.4	U		<2.6	U		<4.4	U		<2.8	U		0.78	J		<4.1	U		<3.2	U	
		VMP-13-10.5-021811-DUP	2/18/2011	<2.4	U		<4.4	U		<1.4	U		<2.5	U		<4.2	U		<2.7	U		0.9	J		<4	U		<3.1	U	
		VMP-13-10.5-040511	4/5/2011	<0.012	U		<0.023	U		<0.028	U		<0.013	U		<0.022	U		<0.014	U		<0.0092	U		<0.02	U		<0.016	U	
		VMP-13-10.5-040511-DUP	4/5/2011	<0.0064	U		<0.012	J	U	<0.014	U		<0.0067	U		<0.011	U		<0.0071	U		0.0039	J		<0.011	J	U	<0.0083	U	
	21.5 ft	VMP-13-21.5	11/17/2009	<70	U		<130	U		<40	U		<74	U		<120	U		<79	U		<52	U		<120	U		<91	U	
		VMP 13-21.5-091310	9/13/2010	<11	U		<21	U		<6.4	U		<12	U		<20	U		<12	U		2.5	J		<18	U		<14	U	
		VMP-13-21.5-120110	12/1/2010	<22	U		<40	U		<12	U		<23	U		<39	U		<24	U		<16	U		<36	U		<28	U	
		VMP-13-21.5-021811	2/18/2011	<3.2	U		<6	U		<1.8	U		<3.4	U		<5.8	U		<3.6	U		0.7	J		<5.4	U		<4.2	U	
		VMP-13-21.5-040511	4/5/2011	<4.6	U		<8.6	U		<11	U		<4.9	U		<8.3	U		<5.2	U		1	J		<7.8	U		<6.1	U	
	29.5 ft	VMP-13-29.5	11/17/2009	<140	U		<250	U		<78	U		<140	U		<240	U		<150	U		<100	U		<230	U		<180	U	
		VMP-13-29.5-021811	2/18/2011	<99	U		<180	U		<57	U		<100	U		<180	U		<110	U		<74	U		<160	U		<130	U	
		VMP-13-29.5-040511	4/5/2011	<64	U		<120	U		<150	U		<68	U		<120	U		<72	U		<48	U		<110	U		<84	U	

See last page of table for notes.

TABLE 4
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	1,3-Dichlorobenzene			1,4-Dichlorobenzene			Dichlorodifluoromethane			1,2-Dichloroethane			1,1-Dichloroethene			Dichloromethane (Methylene chloride)			1,2-Dichloropropane			1,4-Dioxane			Ethanol		
				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	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-10	5 ft	VMP-10-5	11/11/2009	<0.006	U		<0.006	U		<0.005	U		<0.004	U		<0.004	U		<0.003	U		<0.005	U		<0.016	U		0.18		J
		VMP-10-5-090710	9/7/2010	<0.0079	U		<0.0079	U		0.0024	J		<0.0053	U		<0.0052	U		<0.0046	U		<0.0061	U		<0.019	U		0.015		
		VMP-10-5-111810	11/17/2010	<0.0073	U		<0.0073	U		0.0017	J		<0.0049	U		<0.0048	U		<0.0042	U		<0.0056	U		<0.017	U		0.004	J	
		VMP-10-5-021011	2/10/2011	<0.0072	U		<0.0072	U		0.0024	J		<0.0048	U		<0.0047	U		<0.0041	U		<0.0055	U		<0.017	U		<0.009	U	
		VMP-10-5-040511	4/5/2011	<0.0066	U		<0.0066	J	U	0.0021	J		<0.0044	U		<0.0044	U		<0.0038	J	U	<0.0051	U		<0.016	U		0.028		
	10 ft	VMP-10-10	11/11/2009	<0.006	U		<0.006	U		<0.005	U		<0.004	U		<0.004	U		<0.004	U		<0.005	U		<0.016	U		0.046		J
		VMP-10-10-090710	9/7/2010	<0.0079	U		<0.0079	U		0.0025	J		<0.0053	U		<0.0052	U		<0.0046	U		<0.0061	U		0.0077	J		0.0079	J	
		VMP-10-10-111810	11/17/2010	<0.0078	U		<0.0078	U		0.0022	J		<0.0052	U		<0.0051	U		0.001	J		<0.006	U		0.0042	J		0.0096	J	
		VMP-10-10-021111	2/11/2011	<0.0061	U		<0.0061	J	U	0.0015	J		<0.0041	U		<0.004	U		<0.0035	U		<0.0047	U		<0.014	U		0.1		
		VMP-10-10-040611	4/6/2011	<0.0079	J	U	<0.0079	J	U	0.0023	J		<0.0053	U		<0.0052	U		0.016			<0.0061	U		<0.019	U		0.013		
	20 ft	VMP-10-20	11/11/2009	<0.006	U		<0.006	U		<0.005	U		<0.004	U		<0.004	U		<0.003	U		<0.005	U		<0.016	U		0.036		J
		VMP-10-20-D	11/11/2009	<0.007	U		<0.007	U		<0.006	U		<0.005	U		<0.004	U		<0.004	U		<0.005	U		<0.018	U		0.22		J
		VMP-10-20-090710	9/7/2010	<0.0083	U		<0.0083	U		0.0027	J		<0.0056	U		<0.0055	U		<0.0048	J	U	<0.0064	U		<0.02	U		0.012		J
		VMP-10-20-090710-DUP	9/7/2010	<0.0078	U		<0.0078	U		0.0033	J		<0.0052	U		<0.0051	U		<0.026		U	<0.006	U		<0.018	U		0.048		J
		VMP-10-20-111810	11/17/2010	<0.015	U		<0.015	U		0.0028	J		<0.0099	U		<0.0097	U		<0.0085	U		<0.011	U		<0.035	U		0.0097	J	
		VMP-10-20-111810-Dup	11/17/2010	<0.0074	U		<0.0074	U		0.0019	J		<0.005	U		<0.0049	U		0.0026	J		<0.0057	U		<0.018	U		0.017		
		VMP-10-20-021111	2/11/2011	<0.0073	U		<0.0073	U		0.002	J		<0.0049	U		<0.0048	U		<0.0042	U		<0.0056	U		<0.018	U		0.018		
		VMP-10-20-040611	4/6/2011	<0.0088	J	U	<0.0088	J	U	0.0021	J		<0.0059	U		<0.0058	U		0.0068			<0.0068	U		<0.021	U		0.05		
	30 ft	VMP-10-30	11/13/2009	<0.007	U		<0.007	U		<0.006	U		<0.005	U		<0.004	U		<0.004	U		<0.005	U		<0.018	U		<0.009	U	
VMP-11	5 ft	VMP-11-5	11/17/2009	<0.054	U		<0.054	U		<0.044	U		<0.036	U		<0.035	U		<0.031	U		<0.041	U		<0.13	U		<0.067	U	
		VMP-11-5-090710	9/7/2010	<0.0074	U		<0.0074	U		0.0025	J		<0.005	U		<0.0049	U		<0.0043	U		<0.0057	U		<0.018	U		0.0099		
		VMP-11-5-112210	11/22/2010	0.0011	J		<0.0078	U		0.0019	J		<0.0052	U		<0.0051	U		<0.0045	U		<0.006	U		<0.018	U		0.011		
		VMP-11-5-021511	2/15/2011	<0.0068	U		<0.0068	U		0.0029	J		<0.0046	U		<0.0045	U		0.0011	J		<0.0053	U		<0.016	U		0.017		
		VMP-11-5-040611	4/6/2011	<0.065	U		<0.065	U		<0.053	U		<0.044	U		<0.043	U		0.0086	J		<0.05	U		<0.16	U		<0.081	U	
	8 ft	VMP-11-8	11/17/2009	<0.007	U		<0.007	U		<0.006	U		<0.005	U		<0.004	U		<0.004	U		<0.005	U		<0.018	U		0.14		J
		VMP-11-8-090810	9/8/2010	<0.0078	U		<0.0078	U		0.0038	J		<0.0052	U		<0.0051	U		0.047			<0.006	U		<0.018	U		0.013		
		VMP-11-8-112210	11/22/2010	<0.0078	U		<0.0078	U		0.0022	J		<0.0052	U		<0.0051	U		<0.0045	U		<0.006	U		<0.018	U		0.0056	J	
		VMP-11-8-021111	2/11/2011	<0.0075	U		<0.0075	U		0.0035	J		<0.005	U		<0.005	U		<0.0043	U		<0.0058	U		<0.018	U		0.036		
		VMP-11-8-021111-DUP	2/11/2011	<0.0071	U		<0.0071	U		0.0033	J		<0.0048	U		<0.0046	U		<0.0041	U		<0.0054	U		<0.017	U		0.016		
		VMP-11-8-040611	4/6/2011	<0.033	U		<0.033	U		<0.027	U		<0.022	U		<0.022	U		<0.019	U		<0.026	U		<0.08	U		<0.042	U	
		VMP-11-8-040611-DUP	4/6/2011	<0.029	U		<0.029	U		<0.024	U		<0.019	U		<0.019	U		0.0027	J		<0.022	U		<0.069	U		<0.036	U	
	29 ft	VMP-11-29	11/18/2009	<51	U		<51	U		<42	U		<34	U		<34	U		<30	U		<39	U		<120	U		<64	U	
		VMP-11-29-090810	9/8/2010	<0.19	U		<0.19	U		<0.16	U		<0.13	U		<0.13	U		<0.11	U		<0.15	U		<0.46	U		<0.24	U	
		VMP-11-29-112210	11/22/2010	<2.8	U		<2.8	U		<2.3	U		<1.9	U		<1.8	U		<1.6	U		<2.1	U		<6.6	U		<3.5	U	
		VMP-11-29-112210-Dup	11/22/2010	<1.9	U		<1.9	U		<1.6	U		<1.3	U		<1.3	U		<1.1	U		<1.5	U		<4.6	U		<2.4	U	
		VMP-11-29-021411	2/14/2011	<0.0075	U		<0.0075	U		0.0041	J		<0.005	U		<0.005	U		<0.0043	U		<0.0058	U		<0.018	U		0.018		
		VMP-11-29-040611	4/6/2011	<0.057	U		<0.057	U		<0.047	U		<0.038	U		<0.037	U		<0.033	U		<0.044	U		<0.14	U		<0.071	U	
	38 ft	VMP-11-38	11/18/2009	<150	U		<150	U		<120	U		<100	U		<98	U		<86	U		<110	U		<360	U		<180	U	
VMP-12	5 ft	VMP-12-5	11/13/2009	<19	U		<19	U		<16	U		<13	U		<12	U		<11	U		<15	U		<46	U		<24	U	
		VMP-12-5-090310	9/3/2010	<8.1	U		<8.1	U		<6.6	U		<5.4	U		<5.3	U		<4.7	U		<6.2	U		<19	U		<10	U	
		VMP-12-5-120310	12/3/2010	<80	U		<80	U		<66	U		<54	U		<53	U		<46	U		<61	U		<190	U		<100	U	
		VMP-12-5-021511	2/15/2011	<3.7	U		<3.7	U		<3	U		<2.5	U		<2.4	U		<2.1	U		<2.8	U		<8.8	U		<4.6	U	
		VMP-12-5-041911	4/19/2011	<27	U		<27	U		<22	U		<18	U		<18	U		<16	U	UJ	<21	U		<64	U		5.2	J	
	11.5 ft	VMP-12-11.5	11/13/2009	<33	U		<33	U		<27	U		<22	U		<22	U		<19	U		<25	U		<79	U		<41	U	
		VMP-12-11.5-090310	9/3/2010	<10	U		<10	U		<8.5	U		<7	U		<6.8	U		<6	U		<8	U		<25	U		<13	U	
		VMP-12-11.5-120310	12/3/2010	<9	U		<9	U		<7.4	U		<6	U		<5.9	U		<5.2	U		<6.9	U		<22	U		<11	U	
		VMP-12-11.5-021511	2/15/2011	<8	U		<8	U		<6.6	U		<5.4	U		<5.3	U		<4.6	U		<6.2	U		<19	U		<10	U	
		VMP-12-11.5-021511-DUP	2/15/2011	<6.9	U		<6.9	U		<5.7	U		<4.7	U		<4.6	U		<4	U		<5.3	U		<17	U		<8.7	U	
		VMP-12-11.5-041911	4/19/2011	<24	U		<24	U		<20	U		<16	U		<16	U		<14	U	UJ	<19	U		<58	U		<30	U	
	25 ft	VMP-12-25	11/13/2009	<68	U		<68	U		<56	U		<46	U		<45	U		<39	U		<52	U		<160	U		<85	U	
		VMP-12-25-090310	9/3/2010	<13	U		<13	U		<11	U		<8.9	U		<8.7	U		<7.6	U		<10	U		<32	U		<16	U	
		VMP-12-25-120310	12/3/2010	<0.66	U		<0.66	U		<0.54	U		<0.44	U		<0.43	U		<0.38	U		<0.5	U		<1.6	U		<0.82	U	
		VMP-12-25-021511	2/15/2011	<16	U		<16	U		<13	U		<11	U		<10	U		<9.2	U		<12	U		<38	U		<20	U	
		VMP-12-25-041911	4/19/2011	<26	U		<26	U		<21	U		<18	U		<17	U		<15	U	UJ	<20	U		<63	U		<33	U	
	39 ft	VMP-12-39	11/13/2009	<71	U		<71	U		<59	U		<48	U		<47	U		<41	U		<55	U		<170	U		<89	U	
		VMP-12-39-041911	4/19/2011	<25	U		<25	U		<21	U		<17	U		<17	U		<15	U	UJ	<19	U		<61	U		<32	U	
VMP-13	5 ft	VMP-13-5	11/16/2009	<14	U		<14	U		<12	U		<9.8	U		<9.6	U		<8.4	U		<11	U		<35	U		<18	U	
		VMP 13-5-091310	9/13/2010	<0.053	U		<0.053	U		<0.044	U		<0.036	U		<0.035	U		<0.03	U		<0.041	U		<0.13	U		0.24		
		VMP-13-5-120110	12/1/2010	<0.007	U		<0.007	U		0.0032	J		<0.0047	U		<0.0046	U		<0.004	U		<0.0054	U		<0.017	U		0.007	J	
		VMP-13-5-021811	2/18/2011	<0.0083	U		<0.0083	U		0.0024	J		<0.0056	U		<0.0055	U		<0.0048	U		<0.0064	U		<0.02	U		0.024		
		VMP-13-5-040511	4/5/2011	<0.016	U		<0.016	J	U	<0.014	U		<0.011	U		<0.011	U		0.0082	J		<0.013	U		<0.04	U		0.0054	J	
	10.5 ft	VMP-13-10.5	11/17/2009	<1.8	U		<1.8	U		<1.5	U		<1.2	U		<1.2	U		<1	U		<1.4	U		<4.3	U		<2.2	U	
		VMP-13-10.5-D	11/17/2009	<1.8	U		<1.8	U		<1.5	U		<1.2	U		<1.2	U		<1.1	U		<1.4	U		<4.4	U		<2.3	U	
		VMP 13-10.5-091310	9/13/2010	<0.02	U		<0.02	U		0.0032	J		<0.013	U		<0.013	U		<0.011	U		<0.015	U		<0.047	U		<0.024	U	
		VMP 13-10.5-091310-Dup	9/13/2010	<0.019	U		<0.019	U		0.0034	J		<0.013	U		<0.012	U		<0.011	U		<0.015	U		0.041	J		0.014	J	
		VMP-13-10.5-120110	12/1/2010	<0.0078	U		<0.0078	U		0.003	J		<0.0052	U		<0.0051	U		<0.0045	U		<0.006	U		<0.019	U		<0.0098	U	
		VMP-13-10.5-120110-DUP	12/1/2010	<0.0081	U		<0.0081	U		0.0032	J		<0.0055	U		<0.0054	U		<0.0047	U		<0.0062	U		<0.019	U		0.016		
		VMP-13-10.5-021811	2/18/2011	<3.2	U		<3.2	U		<2.6	U		<2.2	U		<2.1	U		<1.8	U		<2.5	U		<7.7	U		<4	U	
		VMP-13-10.5-021811-DUP	2/18/2011	<3.1	U		<3.1	U		<2.5	U		<2.1	U		<2	U		<1.8	U		<2.4	U		<7.4	U		<3.9	U	
		VMP-13-10.5-040511	4/5/2011	<0.016	J	U	<0.016	J	U	0.0029	J		<0.011	U		<0.01	U		0.021			<0.012	U		<0.038	U		0.018	J	
		VMP-13-10.5-040511-DUP	4/5/2011	<0.0083	U		<0.0083	J	U	0.0021	J		<0.0056	U		<0.0055	U		<0.0048	J	U	<0.0064	U		<0.02	U		0.0077	J	
	21.5 ft	VMP-13-21.5	11/17/2009	<91	U		<91	U		<75	U		<62	U		<60	U		<53	U		<70	U		<220	U		<110	U	
		VMP 13-21.5-091310	9/13/2010	<14	U		<14	U		<12	U		<9.8	U		<9.6	U		9.2			<11	U		<35	U		<18	U	
		VMP-13-21.5-120110	12/1/2010	<28	U		<28	U		<23	U		<19	U		<18	U		28			<22	U		<68	U		<35	U	
		VMP-13-21.5-021811	2/18/2011	<4.2	U		<4.2	U		<3.5	U		<2.8	U		<2.8	U		0.51	J		<3.2	U		<10	U		<5.3	U	
		VMP-13-21.5-040511	4/5/2011	<6.1	U		<6.1	U		<5	U		<4.1	U		<4	U		2.3	J		<4.7	U		<14	U		<7.6	U	
	29.5 ft	VMP-13-29.5	11/17/2009	<180	U		<180	U		<150	U		<120	U		<120	U		<100	U		<140	U		<430	U		<220	U	
		VMP-13-29.5-021811	2/18/2011	<130	U		<130	U		<110	U		<87	U		<86	U		<75	U		<100	U		<310	U		<160	U	
		VMP-13-29.5-040511	4/5/2011	<84	U		<84	U		<69	U		<57	U		<56	U		<49	U		<65	U		<200	U		<100	U	

See last page of table for notes.

TABLE 4
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Ethylbenzene			4-Ethyltoluene			Heptane			Hexane			Isopentane			Isopropylbenzene (Cumene)			Methyl tert-Butyl Ether (MTBE)			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
				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-10	5 ft	VMP-10-5	11/11/2009	<0.004	U		<0.005	U		<0.004	U		<0.003	U					<0.005	U		<0.004	U		<0.004	U	
		VMP-10-5-090710	9/7/2010	0.009			0.0072			0.0071			0.015						0.002	J		<0.0048	U		0.0016	J	
		VMP-10-5-111810	11/17/2010	0.0014	J		<0.0059	U		0.012			0.0072						<0.0059	U		0.00036	J		<0.005	U	
		VMP-10-5-021011	2/10/2011	0.0029	J		0.0013	J		0.044			0.11						<0.0058	U		<0.0043	U		<0.0049	U	
		VMP-10-5-040511	4/5/2011	0.0018	J		0.005	J		0.0051			0.0066			0.017			0.013			0.00036	J		0.039		
	10 ft	VMP-10-10	11/11/2009	<0.005	U		<0.005	U		<0.004	U		<0.004	U					<0.005	U		<0.004	U		<0.004	U	
		VMP-10-10-090710	9/7/2010	<0.0057	U		<0.0065	U		0.0017	J		0.0016	J					<0.0065	U		<0.0048	U		0.0012	J	
		VMP-10-10-111810	11/17/2010	0.0014	J		<0.0063	U		0.01			0.0096						<0.0063	U		0.00046	J		<0.0053	U	
		VMP-10-10-021111	2/11/2011	0.0017	J		<0.005	J	U	0.006			0.0049						<0.005	U		<0.0036	U		<0.0041	U	
		VMP-10-10-040611	4/6/2011	0.00094	J		<0.0065	J	U	0.0022	J		0.0068			0.014	J		<0.0065	U		<0.0048	U		<0.0054	U	
	20 ft	VMP-10-20	11/11/2009	<0.004	U		<0.005	U		0.0049			0.0068						<0.005	U		<0.004	U		<0.004	U	
		VMP-10-20-D	11/11/2009	<0.005	U		<0.006	U		<0.005	U		<0.004	U					<0.006	U		<0.004	U		<0.005	U	
		VMP-10-20-090710	9/7/2010	0.002	J		<0.0068	U		0.0037	J		0.0061						<0.0068	U		<0.005	U		0.00098	J	
		VMP-10-20-090710-DUP	9/7/2010	0.0017	J		<0.0063	U		0.0025	J		0.0043	J					<0.0063	U		<0.0046	U		0.00096	J	
		VMP-10-20-111810	11/17/2010	<0.011	U		<0.012	U		0.0048	J		0.0049	J					<0.012	U		0.0012	J		<0.01	U	
		VMP-10-20-111810-Dup	11/17/2010	0.0015	J		<0.0061	U		0.013			0.0097						<0.0061	U		0.00047	J		<0.005	U	
		VMP-10-20-021111	2/11/2011	<0.0053	U		<0.006	U		0.0056			0.0043						<0.006	U		<0.0044	U		<0.005	U	
		VMP-10-20-040611	4/6/2011	0.0026	J		<0.0072	J	U	0.0036	J		0.0084			0.027			0.029			<0.0053	U		0.1		
	30 ft	VMP-10-30	11/13/2009	<0.005	U		<0.006	U		<0.005	U		0.0052						<0.006	U		<0.004	U		<0.005	U	
VMP-11	5 ft	VMP-11-5	11/17/2009	<0.039	U		<0.044	U		<0.037	U		<0.032	U					<0.044	U		<0.032	U		<0.037	U	
		VMP-11-5-090710	9/7/2010	0.0019	J		<0.0061	U		0.001	J		<0.0044	U					<0.0061	U		<0.0044	U		0.00085	J	
		VMP-11-5-112210	11/22/2010	0.0021	J		<0.0063	U		0.0013	J		0.0018	J					<0.0063	U		<0.0046	U		<0.0053	U	
		VMP-11-5-021511	2/15/2011	0.0055			<0.0056	J	U	0.018			0.028						<0.0056	U		<0.0041	U		0.0015	J	
		VMP-11-5-040611	4/6/2011	<0.047	U		<0.053	U		0.042	J		0.28			1.1			<0.053	U		<0.039	U		<0.044	U	
	8 ft	VMP-11-8	11/17/2009	<0.005	U		<0.006	U		<0.005	U		<0.004	U					<0.006	U		<0.004	U		<0.005	U	
		VMP-11-8-090810	9/8/2010	<0.0056	U		<0.0063	U		0.0016	J		0.0034	J					<0.0063	U		<0.0046	U		<0.0053	U	
		VMP-11-8-112210	11/22/2010	0.0016	J		<0.0063	U		0.00074	J		<0.0045	U					<0.0063	U		<0.0046	U		<0.0053	U	
		VMP-11-8-021111	2/11/2011	<0.0054	U		<0.0061	U		0.0033	J		0.003	J					<0.0061	U		<0.0045	U		<0.0051	U	
		VMP-11-8-021111-DUP	2/11/2011	<0.0051	U		<0.0058	U		0.0017	J		0.0016	J					<0.0058	U		<0.0042	U		<0.0048	U	
		VMP-11-8-040611	4/6/2011	<0.024	U		<0.027	U		0.035			<0.02	U	UJ	0.38			<0.027	U		<0.02	U		<0.023	U	
		VMP-11-8-040611-DUP	4/6/2011	<0.021	U		<0.024	U		0.025			0.12		J	0.29			<0.024	U		<0.017	U		<0.02	U	
	29 ft	VMP-11-29	11/18/2009	<37	U		<42	U		<35	U		<30	U					<42	U		<31	U		<35	U	
		VMP-11-29-090810	9/8/2010	0.033	J		0.26			<0.13	U		0.1	J					<0.16	U		0.053	J		<0.13	U	
		VMP-11-29-112210	11/22/2010	<2	U		<2.3	U		<1.9	U		<1.6	U					<2.3	U		<1.6	U		<1.9	U	
		VMP-11-29-112210-Dup	11/22/2010	<1.4	U		<1.6	U		<1.3	U		<1.1	U					<1.6	U		<1.2	U		<1.3	U	
		VMP-11-29-021411	2/14/2011	0.0015	J		<0.0061	J	U	0.0062			0.042						<0.0061	U		0.0011	J		0.0013	J	
		VMP-11-29-040611	4/6/2011	<0.041	U		<0.046	U		0.052			0.25			0.44			<0.046	U		0.0031	J		<0.039	U	
	38 ft	VMP-11-38	11/18/2009	<110	U		<120	U		<100	U		<87	U					<120	U		<89	U		<100	U	
VMP-12	5 ft	VMP-12-5	11/13/2009	<14	U		<16	U		17			200						<16	U		<11	U		<13	U	
		VMP-12-5-090310	9/3/2010	<5.8	U		<6.6	U		<5.5	U		11						2.9	J		<4.8	U		<5.5	U	
		VMP-12-5-120310	12/3/2010	<58	U		<65	U		<54	U		370						18	J		<48	U		<54	U	
		VMP-12-5-021511	2/15/2011	<2.6	U		<3	U		<2.5	U		9.6						<3	U		<2.2	U		<2.5	U	
		VMP-12-5-041911	4/19/2011	<19	U		<22	U		<18	U		5.1	J		9700			<22	U		<16	U		<18	U	
	11.5 ft	VMP-12-11.5	11/13/2009	<24	U		<27	U		<22	U		230						<27	U		<20	U		<22	U	
		VMP-12-11.5-090310	9/3/2010	5.4	J		<8.5	U		4.5	J		41						9.1			<6.2	U		<7.1	U	
		VMP-12-11.5-120310	12/3/2010	<6.5	U		<7.3	U		<6.1	U		11						<7.3	U		<5.4	U		<6.1	U	
		VMP-12-11.5-021511	2/15/2011	<5.8	U		<6.6	U		<5.5	U		18						<6.6	U		<4.8	U		<5.5	U	
		VMP-12-11.5-021511-DUP	2/15/2011	<5	U		<5.7	U		<4.7	U		15						<5.7	U		<4.2	U		<4.7	U	
		VMP-12-11.5-041911	4/19/2011	<18	U		<20	U		<16	U		6.9	J		11000			<20	U		<14	U		<16	U	
	25 ft	VMP-12-25	11/13/2009	<49	U		<56	U		220			1200						<56	U		<41	U		<46	U	
		VMP-12-25-090310	9/3/2010	14			<11	U		100			860						20			<7.9	U		<9	U	
		VMP-12-25-120310	12/3/2010	<0.47	U		<0.54	U		<0.45	U		0.55						<0.54	U		<0.39	U		<0.45	U	
		VMP-12-25-021511	2/15/2011	4.1	J		<13	U		32			180						9.2	J		<9.6	U		<11	U	
		VMP-12-25-041911	4/19/2011	<19	U		<21	U		10	J		110			8300			8.6	J		<16	U		<18	U	
	39 ft	VMP-12-39	11/13/2009	71			<58	U		370			1400						<58	U		<43	U		<48	U	
		VMP-12-39-041911	4/19/2011	10	J		<21	U		180			1200			7800			9.7	J		<15	U		<17	U	
VMP-13	5 ft	VMP-13-5	11/16/2009	<10	U		<12	U		<9.9	U		<8.5	U					<12	U		<8.7	U		<9.9	U	
		VMP 13-5-091310	9/13/2010	<0.038	U		<0.043	U		0.0094	J		0.015	J					<0.043	U		<0.032	U		<0.036	U	
		VMP-13-5-120110	12/1/2010	0.047			0.032			0.084			0.14						0.0037	J		<0.0042	J	U	<0.0048	U	
		VMP-13-5-021811	2/18/2011	<0.006	U		<0.0068	U		0.0016	J		0.0022	J					<0.0068	U		<0.005	U		<0.0056	U	
		VMP-13-5-040511	4/5/2011	<0.012	U		<0.014	U		0.007	J		0.0088	J		0.021	J		<0.014	U		<0.01	U		<0.011	U	
	10.5 ft	VMP-13-10.5	11/17/2009	<1.3	U		<1.5	U		<1.2	U		<1	U					<1.5	U		<1.1	U		<1.2	U	
		VMP-13-10.5-D	11/17/2009	<1.3	U		<1.5	U		<1.3	U		<1.1	U					<1.5	U		<1.1	U		<1.3	U	
		VMP 13-10.5-091310	9/13/2010	<0.014	U		<0.016	U		0.0052	J		0.028		J				<0.016	U		<0.012	U		<0.013	U	
		VMP 13-10.5-091310-Dup	9/13/2010	<0.014	U		<0.016	U		0.0072	J		0.043		J				<0.016	U		<0.011	U		<0.013	U	
		VMP-13-10.5-120110	12/1/2010	<0.0056	J	U	<0.0064	U		0.0029	J		0.0076						<0.0064	U		<0.0047	J	U	<0.0053	U	
		VMP-13-10.5-120110-DUP	12/1/2010	<0.0059	U		<0.0066	U		0.0036	J		0.01						<0.0066	U		<0.0049	J	U	<0.0055	U	
		VMP-13-10.5-021811	2/18/2011	<2.3	U		<2.6	U		<2.2	U		<1.9	U					<2.6	U		<1.9	U		<2.2	U	
		VMP-13-10.5-021811-DUP	2/18/2011	<2.2	U		<2.5	U		<2.1	U		<1.8	U					<2.5	U		<1.8	U		<2.1	U	
		VMP-13-10.5-040511	4/5/2011	<0.012	U		<0.013	U		<0.011	U		0.0036	J		0.0047	J		<0.013	U		<0.0096	U		<0.011	U	
		VMP-13-10.5-040511-DUP	4/5/2011	<0.006	U		<0.0068	U		0.003	J		0.0063			0.017			<0.0068	U		<0.005	U		<0.0056	U	
	21.5 ft	VMP-13-21.5	11/17/2009	<66	U		<75	U		<62	U		<54	U					<75	U		<55	U		<62	U	
		VMP 13-21.5-091310	9/13/2010	<10	U		<12	U		<9.9	U		2.1	J					<12	U		<8.7	U		<9.9	U	
		VMP-13-21.5-120110	12/1/2010	<20	U		<23	U		<19	U		<16	U					<23	U		<17	U		<19	U	
		VMP-13-21.5-021811	2/18/2011	<3	U		<3.4	U		<2.9	U		<2.5	U					<3.4	U		<2.5	U		<2.9	U	
		VMP-13-21.5-040511	4/5/2011	<4.4	U		<5	U		<4.1	U		<3.6	U		40			<5	U		<3.6	U		<4.1	U	
	29.5 ft	VMP-13-29.5	11/17/2009	<130	U		<150	U		<120	U		<100	U					<150	U		<110	U		<120	U	
		VMP-13-29.5-021811	2/18/2011	<94	U		<110	U		<88	U		<76	U					<110	U		<78	U		<88	U	
		VMP-13-29.5-040511	4/5/2011	20	J		<69	U		<57	U		<49	U		100	J		<69	U		<50	U		<57	U	

See last page of table for notes.

TABLE 4
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	2-Propanol			n-Propylbenzene			Styrene			Tetrachloroethene			Tetrahydrofuran			Toluene			1,2,4-Trichlorobenzene			1,1,1-Trichloroethane (Methyl chloroform)		
				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-10	5 ft	VMP-10-5	11/11/2009	0.87			<0.005	U		<0.004	U		<0.007	U		<0.003	U		0.0046			<0.033	U		<0.006	U	
		VMP-10-5-090710	9/7/2010	0.02			0.0035	J		0.0029	J		0.0017	J		<0.0039	U		0.014			<0.039	U		<0.0072	U	
		VMP-10-5-111810	11/17/2010	<0.012	U		<0.0059	U		0.0024	J		<0.0082	J	U	<0.0036	U		<0.0046	U		<0.036	U		0.00085	J	
		VMP-10-5-021011	2/10/2011	0.0058	J		<0.0058	U		<0.0051	U		<0.0081	U		<0.0035	U		0.0028	J		<0.035	U		<0.0065	U	
		VMP-10-5-040511	4/5/2011	0.065			<0.0054	J	U	<0.0047	U		<0.0075	J	U	0.0062			0.0082			<0.033	J	U	<0.006	U	
	10 ft	VMP-10-10	11/11/2009	<0.011	U		<0.005	U		<0.004	U		<0.007	U		<0.003	U		<0.004	U		<0.034	U		<0.006	U	
		VMP-10-10-090710	9/7/2010	0.01	J		<0.0065	U		<0.0056	U		0.0024	J		<0.0039	U		0.0014	J		<0.039	U		<0.0072	U	
		VMP-10-10-111810	11/17/2010	0.018			<0.0063	U		0.0022	J		0.0026	J		0.0023	J		0.0019	J		<0.038	U		0.0013	J	
		VMP-10-10-021111	2/11/2011	0.11			<0.005	J	U	<0.0043	U		0.00083	J		0.0023	J		0.0035	J		<0.03	U		<0.0055	U	
		VMP-10-10-040611	4/6/2011	<0.013	U		<0.0065	J	U	<0.0056	U		<0.009	J	U	<0.0039	U		0.0018	J		<0.039	J	U	<0.0072	U	
	20 ft	VMP-10-20	11/11/2009	<0.011	U		<0.005	U		<0.004	U		<0.007	U		<0.003	U		0.0052			<0.033	U		<0.006	U	
		VMP-10-20-D	11/11/2009	<0.012	U		<0.006	U		<0.005	U		<0.008	U		<0.003	U		0.0058			<0.037	U		<0.006	U	
		VMP-10-20-090710	9/7/2010	0.023			<0.0068	U		<0.0059	U		<0.0094	U		0.0036	J		0.005	J		<0.041	U		<0.0075	U	
		VMP-10-20-090710-DUP	9/7/2010	0.033			<0.0063	U		<0.0055	U		0.0007	J		0.0042			0.0098			<0.038	U		<0.007	U	
		VMP-10-20-111810	11/17/2010	<0.024	U		<0.012	U		<0.01	U		<0.016	J	U	<0.0072	U		<0.0092	U		<0.072	U		0.0024	J	
		VMP-10-20-111810-Dup	11/17/2010	0.037			<0.0061	U		0.0025	J		<0.0084	J	U	<0.0036	U		0.0012	J		<0.037	U		0.0011	J	
		VMP-10-20-021111	2/11/2011	0.0048	J		<0.006	U		<0.0052	U		0.002	J		<0.0036	U		0.0064			<0.036	U		<0.0066	U	
		VMP-10-20-040611	4/6/2011	0.054			<0.0072	U		<0.0063	U		<0.01	J	U	<0.0043	U		0.026			<0.044	J	U	<0.008	U	
	30 ft	VMP-10-30	11/13/2009	<0.012	U		<0.006	U		<0.005	U		<0.008	U		<0.003	U		<0.004	U		<0.037	U		<0.006	U	
VMP-11	5 ft	VMP-11-5	11/17/2009	<0.088	U		<0.044	U		<0.038	U		<0.061	U		<0.026	U		<0.034	U		<0.26	U		<0.049	U	
		VMP-11-5-090710	9/7/2010	<0.013		U	0.00087	J		<0.0053	U		<0.0084	U		<0.0036	U		0.003	J		<0.037	U		<0.0067	U	
		VMP-11-5-112210	11/22/2010	0.078			<0.0063	U		0.006			<0.0088	U		<0.0038	U		0.0024	J		<0.038	U		<0.007	U	
		VMP-11-5-021511	2/15/2011	0.0096	J		<0.0056	J	U	<0.0048	U		<0.0077	U		<0.0034	U		0.0069			<0.034	U		<0.0062	U	
		VMP-11-5-040611	4/6/2011	<0.11	U		<0.053	U		<0.046	U		<0.073	U		<0.032	U		0.0087	J		<0.32	U		<0.059	U	
	8 ft	VMP-11-8	11/17/2009	0.032			<0.006	U		<0.005	U		<0.008	U		<0.003	U		<0.004	U		<0.037	U		<0.006	U	
		VMP-11-8-090810	9/8/2010	<0.013	J	U	<0.0063	U		<0.0055	U		<0.0088	U		<0.0038	U		0.0025	J		<0.038	U		<0.007	U	
		VMP-11-8-112210	11/22/2010	0.033			<0.0063	U		0.0035	J		<0.0088	U		<0.0038	U		<0.0049	J	U	<0.038	U		<0.007	U	
		VMP-11-8-021111	2/11/2011	0.0044	J		<0.0061	U		<0.0053	U		<0.0085	U		<0.0037	U		<0.0047	U		<0.037	U		<0.0068	U	
		VMP-11-8-021111-DUP	2/11/2011	0.0062	J		<0.0058	U		<0.005	U		<0.008	U		<0.0035	U		<0.0044	U		<0.035	U		<0.0064	U	
		VMP-11-8-040611	4/6/2011	<0.054	U		<0.027	U		<0.024	U		<0.038	U		<0.016	U		<0.021	U		<0.16	U		<0.03	U	
		VMP-11-8-040611-DUP	4/6/2011	<0.047	U		<0.024	U		<0.02	U		<0.033	U		<0.014	U		0.0034	J		<0.14	U		<0.026	U	
	29 ft	VMP-11-29	11/18/2009	<84	U		<42	U		<36	U		<58	U		<25	U		<32	U		<250	U		<46	U	
		VMP-11-29-090810	9/8/2010	<0.32	U		0.059	J		<0.14	U		<0.22	U		<0.095	U		<0.12	U		<0.96	U		<0.18	U	
		VMP-11-29-112210	11/22/2010	<4.5	U		<2.3	U		<2	U		<3.1	U		<1.4	U		<1.7	U		<14	U		<2.5	U	
		VMP-11-29-112210-Dup	11/22/2010	<3.2	U		<1.6	U		<1.4	U		0.69	J		<0.94	U		<1.2	U		<9.5	U		<1.7	U	
		VMP-11-29-021411	2/14/2011	0.023			<0.0061	U		<0.0053	U		0.0014	J		<0.0037	U		0.0027	J		<0.037	U		<0.0068	U	
		VMP-11-29-040611	4/6/2011	<0.093	U		<0.046	U		<0.04	U		<0.064	U		<0.028	U		<0.036	U		<0.28	U		<0.052	U	
	38 ft	VMP-11-38	11/18/2009	<240	U		<120	U		<100	U		<170	U		<73	U		<93	U		<730	U		<130	U	
VMP-12	5 ft	VMP-12-5	11/13/2009	<31	U		<16	U		<13	U		<21	U		<9.3	U		<12	U		<94	U	UJ	<17	U	
		VMP-12-5-090310	9/3/2010	3.6	J		3	J		<5.7	U		<9.1	U		<4	U		1	J		<40	U		<7.3	U	
		VMP-12-5-120310	12/3/2010	<130	U		20	J		<57	U		<90	U		<39	U		<50	U		<390	U		<72	U	
		VMP-12-5-021511	2/15/2011	<6	U		<3	U		<2.6	U		<4.1	U		<1.8	U		0.74	J		<18	U		<3.3	U	
		VMP-12-5-041911	4/19/2011	<44	UJ	UJ	<22	U		<19	U		<30	U		<13	U	UJ	11	J		<130	U		<24	U	
	11.5 ft	VMP-12-11.5	11/13/2009	<54	U		<27	U		<23	U		<37	U		<16	U		<21	U		<160	U	UJ	<30	U	
		VMP-12-11.5-090310	9/3/2010	2.4	J		11			<7.3	U		<12	U		<5.1	U		1.1	J		<51	U		<9.4	U	
		VMP-12-11.5-120310	12/3/2010	<15	U		<7.3	U		<6.4	U		<10	U		<4.4	U		<5.6	U		<44	U		<8.2	U	
		VMP-12-11.5-021511	2/15/2011	<13	U		2.4	J		<5.7	U		<9.1	U		<4	U		1.5	J		<40	U		<7.3	U	
		VMP-12-11.5-021511-DUP	2/15/2011	<11	U		1.9	J		<4.9	U		<7.8	U		<3.4	U		1.7	J		<34	U		<6.3	U	
		VMP-12-11.5-041911	4/19/2011	<40	UJ	UJ	<20	U		<17	U		<27	U		<12	U	UJ	<15	U		<120	U		<22	U	
	25 ft	VMP-12-25	11/13/2009	<110	U		<56	U		<48	U		<77	U		<33	U		<42	U		<340	UJ	UJ	<62	U	
		VMP-12-25-090310	9/3/2010	<22	U		26			<9.4	U		<15	U		<6.5	U		2.9	J		<65	U		<12	U	
		VMP-12-25-120310	12/3/2010	<1.1	U		<0.54	U		<0.46	U		<0.74	U		<0.32	U		<0.41	U		<3.2	U		<0.59	U	
		VMP-12-25-021511	2/15/2011	<26	U		9.7	J		<11	U		<18	U		<7.8	U		12			<79	U		<14	U	
		VMP-12-25-041911	4/19/2011	<43	UJ	UJ	8.1	J		<18	U		<29	U		<13	U	UJ	<16	U		<130	U		<24	U	
	39 ft	VMP-12-39	11/13/2009	<120	U		<58	U		<50	U		<80	U		<35	U		<45	U		<350	UJ	UJ	<65	U	
		VMP-12-39-041911	4/19/2011	<41	UJ	UJ	10	J		<18	U		<28	U		<12	U	UJ	<16	U		<120	U		<23	U	
VMP-13	5 ft	VMP-13-5	11/16/2009	<24	U		<12	U		<10	U		<16	U		<7.1	U		<9.1	U		<72	UJ	UJ	<13	U	
		VMP 13-5-091310	9/13/2010	<0.086	U		<0.043	U		<0.037	U		<0.06	U		<0.026	U		0.025	J		<0.26	U		<0.048	U	
		VMP-13-5-120110	12/1/2010	0.049			0.008			<0.005	U		<0.0079	J	U	<0.0034	U		0.036			<0.034	U		<0.0064	U	
		VMP-13-5-021811	2/18/2011	0.0066	J		<0.0068	U		<0.0059	U		<0.0094	U		<0.0041	U		0.011			<0.041	U		<0.0075	U	
		VMP-13-5-040511	4/5/2011	<0.027	U		<0.014	U		<0.012	U		<0.019	J	U	<0.0081	U		0.0026	J		<0.082	J	U	<0.015	U	
	10.5 ft	VMP-13-10.5	11/17/2009	<2.9	U		<1.5	U		<1.3	U		<2	U		<0.88	U		<1.1	U		<8.8	UJ	UJ	<1.6	U	
		VMP-13-10.5-D	11/17/2009	<3	U		<1.5	U		<1.3	U		<2.1	U		<0.91	U		<1.2	U		<9.2	U	UJ	<1.7	U	
		VMP 13-10.5-091310	9/13/2010	0.013	J		<0.016	U		<0.014	U		0.0073	J		<0.0096	U		0.0075	J		<0.097	U		<0.018	U	
		VMP 13-10.5-091310-Dup	9/13/2010	0.012	J		<0.016	U		<0.014	U		0.0034	J		<0.0094	U		0.0074	J		<0.094	U		<0.017	U	
		VMP-13-10.5-120110	12/1/2010	0.1			<0.0064	U		<0.0055	U		<0.0088	J	U	<0.0038	U		0.0011	J		<0.038	U		0.001	J	
		VMP-13-10.5-120110-DUP	12/1/2010	0.13			<0.0066	U		<0.0058	U		<0.0092	J	U	<0.004	U		0.00092	J		<0.04	U		0.0011	J	
		VMP-13-10.5-021811	2/18/2011	<5.2	U		<2.6	U		<2.3	U		<3.6	U		<1.6	U		<2	U		<16	U		<2.9	U	
		VMP-13-10.5-021811-DUP	2/18/2011	<5.1	U		<2.5	U		<2.2	U		<3.5	U		<1.5	U		<1.9	U		<15	U		<2.8	U	
		VMP-13-10.5-040511	4/5/2011	<0.026	U		<0.013	U		<0.011	U		<0.018	U		<0.0078	U		0.0018	J		<0.079	J	U	<0.014	U	
		VMP-13-10.5-040511-DUP	4/5/2011	0.0022	J		<0.0068	U		<0.0059	U		<0.0094	J	U	<0.0041	U		0.0011	J		<0.041	J	U	<0.0075	U	
	21.5 ft	VMP-13-21.5	11/17/2009	<150	U		<75	U		<65	U		<100	U		<45	U		<57	U		<450	U	UJ	<83	U	
		VMP 13-21.5-091310	9/13/2010	<24	U		<12	U		<10	U		<16	U		<7.1	U		3.7	J		<72	U		<13	U	
		VMP-13-21.5-120110	12/1/2010	<46	U		<23	U		<20	U		<32	U		<14	U		<18	U		<140	U		<26	U	
		VMP-13-21.5-021811	2/18/2011	1.7	J		<3.4	U		0.53	J		<4.7	U		<2.1	U		0.54	J		<21	U		<3.8	U	
		VMP-13-21.5-040511	4/5/2011	<9.9	U		<5	U		<4.3	U		<6.8	U		<3	U		<3.8	U		<30	U		<5.5	U	
	29.5 ft	VMP-13-29.5	11/17/2009	<290	U		<150	U		<130	U		<200	U		<88	U		120			<880	U	UJ	<160	U	
		VMP-13-29.5-021811	2/18/2011	<210	U		<110	U		<92	U		<150	U		<64	U		16	J		<640	U		<120	U	
		VMP-13-29.5-040511	4/5/2011	<140	U		<69	U		<60	U		<95	U		<41	U		19	J		<420	U		<76	U	

See last page of table for notes.

TABLE 4
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	1,1,2-Trichloroethane			Trichloroethene			Trichlorofluoromethane			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			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-10	5 ft	VMP-10-5	11/11/2009	<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		<0.0071	U		0.001	J		0.007			0.0023	J		0.093			0.014			0.0065		
		VMP-10-5-111810	11/17/2010	<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		<0.0064	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		<0.0059	J	U	0.00085	J		0.0054			<0.0054	J	U	0.011			0.0058			<0.0048	J	U
	10 ft	VMP-10-10	11/11/2009	<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		<0.0071	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	<0.007	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		0.002	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		<0.0071	J	U	0.0012	J		<0.0065	J	U	<0.0065	U		0.0088			<0.0057	J	U	<0.0057	U	
	20 ft	VMP-10-20	11/11/2009	<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		<0.005	U		<0.005	U		<0.005	U	
		VMP-10-20-090710	9/7/2010	<0.0075	U		<0.0074	U		0.0013	J		0.0016	J		<0.0068	U		0.027		J	0.0043	J		0.0015	J	
		VMP-10-20-090710-DUP	9/7/2010	<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	<0.013	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	<0.0067	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		0.0033	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		<0.0079	J	U	0.0014	J		<0.0072	J	U	<0.0072	U		0.031			<0.0068		U	0.0016	J	
	30 ft	VMP-10-30	11/13/2009	<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 ft	VMP-11-5	11/17/2009	<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		<0.0066	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		<0.0069	U		<0.0072	U		<0.0063	U		<0.0063	U		0.0019	J		<0.0056	J	U	<0.0056	U	
		VMP-11-5-021511	2/15/2011	<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		<0.058	U		<0.061	U		<0.053	U		<0.053	U		0.11			<0.047	U		<0.047	U	
	8 ft	VMP-11-8	11/17/2009	<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-11-8-090810	9/8/2010	<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		<0.0069	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		0.0034	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		0.0031	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		<0.031	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		0.0028	J		<0.027	U		<0.024	U		<0.024	U		0.048			<0.021	U		<0.021	U	
	29 ft	VMP-11-29	11/18/2009	<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		<0.17	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		<2.6	U		<2.3	U		<2.3	U		1.8	J		<2	U		<2	U	
		VMP-11-29-112210-Dup	11/22/2010	<1.7	U		<1.7	U		<1.8	U		<1.6	U		<1.6	U		1.8			<1.4	U		<1.4	U	
		VMP-11-29-021411	2/14/2011	<0.0068	U		0.0028	J		<0.007	U		<0.0061	J	U	<0.0061	U		0.19			0.0043	J		0.0016	J	
		VMP-11-29-040611	4/6/2011	<0.052	U		<0.051	U		<0.053	U		<0.046	U		<0.046	U		0.096			<0.041	U		<0.041	U	
	38 ft	VMP-11-38	11/18/2009	<130	U		<130	U		<140	U		<120	U		<120	U		<120	U		<110	U		<110	U	
VMP-12	5 ft	VMP-12-5	11/13/2009	<17	U		<17	U		<18	U		<16	U		<16	U		1500			<14	U		<14	U	
		VMP-12-5-090310	9/3/2010	<7.3	U		<7.2	U		<7.6	U		<6.6	U		<6.6	U		1700			<5.8	U		<5.8	U	
		VMP-12-5-120310	12/3/2010	<72	U		<71	U		<75	U		<65	U		<65	U		1700			<58	U		<58	U	
		VMP-12-5-021511	2/15/2011	<3.3	U		<3.3	U		<3.4	U		<3	U		<3	U		610			<2.6	U		<2.6	U	
		VMP-12-5-041911	4/19/2011	<24	U		<24	U		<25	U		<22	U		<22	U		1100			7.9	J		<19	U	
	11.5 ft	VMP-12-11.5	11/13/2009	<30	U		<30	U		<31	U		<27	U		<27	U		1500			<24	U		<24	U	
		VMP-12-11.5-090310	9/3/2010	<9.4	U		<9.3	U		<9.7	U		<8.5	U		<8.5	U		1700			<7.5	U		<7.5	U	
		VMP-12-11.5-120310	12/3/2010	<8.2	U		<8	U		<8.4	U		<7.3	U		<7.3	U		910			<6.5	U		<6.5	U	
		VMP-12-11.5-021511	2/15/2011	<7.3	U		<7.2	U		<7.5	U		<6.6	U		<6.6	U		1300			<5.8	U		<5.8	U	
		VMP-12-11.5-021511-DUP	2/15/2011	<6.3	U		<6.2	U		<6.5	U		<5.7	U		<5.7	U		1100			<5	U		<5	U	
		VMP-12-11.5-041911	4/19/2011	<22	U		<22	U		<23	U		<20	U		<20	U		1200			<18	U		<18	U	
	25 ft	VMP-12-25	11/13/2009	<62	U		<61	U		<63	U		<56	U		<56	U		1600			<49	U		<49	U	
		VMP-12-25-090310	9/3/2010	<12	U		<12	U		<12	U		<11	U		<11	U		1300			<9.6	U		<9.6	U	
		VMP-12-25-120310	12/3/2010	<0.59	U		<0.58	U		<0.61	U		<0.54	U		<0.54	U		120			<0.47	U		<0.47	U	
		VMP-12-25-021511	2/15/2011	<14	U		<14	U		<15	U		<13	U		<13	U		990			5.8	J		<12	U	
		VMP-12-25-041911	4/19/2011	<24	U		<23	U		<24	U		<21	U		<21	U		980			<19	U		<19	U	
	39 ft	VMP-12-39	11/13/2009	<65	U		<64	U		<66	U		<58	U		<58	U		1500			<51	U		<51	U	
		VMP-12-39-041911	4/19/2011	<23	U		<23	U		<24	U		<21	U		<21	U		1100			<18	U		<18	U	
VMP-13	5 ft	VMP-13-5	11/16/2009	<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		<0.047	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		<0.0063	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		<0.0074	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		0.006	J		<0.016	U		<0.014	U		<0.014	U		0.012	J		<0.012	U		<0.012	U	
	10.5 ft	VMP-13-10.5	11/17/2009	<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		<1.5	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		<0.016	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		<0.018	U		<0.016	U		<0.016	U		0.4			0.0025	J		<0.014	U	
		VMP-13-10.5-120110	12/1/2010	<0.0071	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	<0.0074	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		<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		<2.9	U		<2.5	U		<2.5	U		18			<2.2	U		<2.2	U	
		VMP-13-10.5-040511	4/5/2011	<0.014	U		0.0048	J		0.0018	J		<0.013	U		<0.013	U		<0.012	U		<0.012	U		<0.012	U	
		VMP-13-10.5-040511-DUP	4/5/2011	<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	
	21.5 ft	VMP-13-21.5	11/17/2009	<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		<14	U		<12	U		<12	U		43			<10	U		<10	U	
		VMP-13-21.5-120110	12/1/2010	<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		<3.9	U		<3.4	U		<3.4	U		15			<3	U		<3	U	
		VMP-13-21.5-040511	4/5/2011	<5.5	U		<5.4	U		<5.7	U		<5	U		<5	U		16			<4.4	U		<4.4	U	
	29.5 ft	VMP-13-29.5	11/17/2009	<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		<110	U		<110	U		<100	U		<94	U		<94	U	
		VMP-13-29.5-040511	4/5/2011	<76	U		<75	U		<79	U		<69	U		<69	U		41	J		23	J		<61	U	

See last page of table for notes.

TABLE 4
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Acetone			Benzene			Bromodichloromethane			Bromomethane			1,3-Butadiene			Butane			2-Butanone			Carbon disulfide			Carbon tetrachloride		
				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	Result (mg/m^3)	Lab Qualifier	URS Qualifier
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		<0.016	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		<0.39	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		<0.0076	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	<0.0083	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	<0.0085	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		<1.9	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		<6	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		<0.53	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		<0.48	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		<0.17	U	
		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		<0.17	U	
		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	<0.028	U	
	20 ft	VMP-14-20	11/16/2009	<110	U		26000			<80	U		<46	U		<26	U					<35	U		<37	U		<75	U	
		VMP 14-20-091010	9/10/2010	<140	U		37000			<97	U		<56	U		<32	U					<43	U		<45	U		<92	U	
		VMP 14-20-091010-Dup	9/10/2010	<140	U		35000			<100	U		<59	U		<33	U					<44	U		<47	U		<95	U	
		VMP-14-20-120110	12/2/2010	<370	U		47000			<260	U		<150	U		<87	U					<120	U		<120	U		<250	U	
		VMP-14-20-021811	2/18/2011	<210	U		20000			<150	U		<86	U		<49	U					<65	U		<69	U		<140	U	
		VMP-14-20-040511	4/5/2011	18	J		22000			<64	U		<37	U		<21	U		3400			<110	U		<30	U		<60	U	
	29 ft	VMP-14-29	11/16/2009	<440	U		79000			<310	U		<180	U		<100	U					<140	U		<140	U		<290	U	
		VMP-14-29-021811	2/18/2011	240	J		40000			<220	U		<120	U		<71	U					<95	U		<100	U		<200	U	
		VMP-14-29-040511	4/5/2011	<260	U		51000			<180	U		<110	U		<61	U		4900			<320	U		<86	U		<170	U	
VMP-15	5 ft	VMP-15-5	11/18/2009	<0.012	U		0.55		J	<0.008	U		<0.004	U		<0.002	U					<0.003	U		<0.003	U		<0.008	U	
		VMP-15-5-D	11/18/2009	<0.012	U		0.26		J	<0.008	U		<0.004	U		<0.002	U					<0.003	U		0.0063			<0.008	U	
		VMP 15-5-091410	9/14/2010	0.015			0.61			<0.0084	U		<0.0049	J	U	<0.0028	U					0.001	J		<0.0039	J	U	<0.0079	U	
		VMP-15-5-113010	11/30/2010	<0.28	U		<0.096	U		<0.2	U		<0.12	U		<0.066	U					<0.088	U		<0.093	U		<0.19	U	
		VMP-15-5-021611	2/16/2011	0.33			2			<0.19	U		<0.11	U		<0.062	U					0.08	J		0.11			<0.18	U	
		VMP-15-5-042011	4/20/2011	0.083	J		1.4			<0.44	U		<0.26	U		<0.15	U		6.3			<0.78	U		<0.2	U		<0.42	U	
	21.5 ft	VMP-15-21.5	11/18/2009	<5.4	U		11			<3.8	U		<2.2	U		<1.3	U					<1.7	U		<1.8	U		<3.6	U	
		VMP 15-21.5-091410	9/14/2010	<1.3	U		0.61			<0.92	U		<0.53	U		<0.3	U					<0.4	U		<0.43	U		<0.86	U	
		VMP-15-21.5-113010	11/30/2010	<1.5	U		<0.51	U		<1.1	U		<0.62	U		<0.36	U					<0.47	U		<0.5	U		<1	U	
		VMP-15-21.5-021611	2/16/2011	<1.1	U		2.2			<0.75	U		<0.43	U		<0.25	U					<0.33	U		<0.35	U		<0.7	U	
		VMP-15-21.5-042011	4/20/2011	<1.7	U		1.4			<1.2	U		<0.68	U		<0.39	U		25			<2.1	U		<0.55	U		<1.1	U	
	25.5 ft	VMP-15-25.5	11/18/2009	<5.6	U		18			<4	U		<2.3	U		<1.3	U					<1.8	U		<1.8	U		<3.7	U	
		VMP 15-25.5-091410	9/14/2010	0.013			0.3			<0.0086	U		<0.005	U		<0.0028	U					0.0015	J		<0.004	J	U	<0.0081	U	
		VMP-15-25.5-021611	2/16/2011	<0.16	U		0.36			<0.12	U		<0.067	U		<0.038	U					<0.051	U		0.028	J		<0.11	U	
		VMP-15-25.5-042011	4/20/2011	<0.13	U		1.6			<0.094	U		<0.055	U		<0.031	U		0.06	J		<0.17	U		<0.044	U		<0.089	U	
		VMP-15-25.5-042011-DUP	4/20/2011	<0.12	U		1.4			<0.088	U		<0.051	U		<0.029	U		0.27			<0.16	U		<0.041	U		<0.083	U	
	29 ft	VMP-15-29	11/19/2009	<7.1	U		30			<5	U		<2.9	U		<1.6	U					<2.2	U		<2.3	U		<4.7	U	
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		<0.11	U	
		VMP-16-5-090210	9/2/2010	<23	U		17			<16	U		<9.2	U		<5.3	U					<7	U		<7.4	U		<15	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		<6.8	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		<4.2	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		<5.5	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		<0.47	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		<16	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		<16	U	
		VMP-16-13.5-112910	11/29/2010	<66	U		21	J		<47	U		<27	U		<15	U					<21	U		<22	U		<44	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		<8.5	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		<8.3	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		<8.9	U	
	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		<4	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		<16	U	
		VMP-16-19-112910	11/29/2010	<51	U		20			<36	U		<21	U		<12	U					<16	U		<17	U		<34	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		<8.1	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		<8.3	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		<8.1	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		<6.1	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		<6.1	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		<0.0091	U	
		VMP-16-31-112910	11/29/2010	<52	U		20			<36	U		<21	U		<12	U					<16	U		<17	U		<34	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		<0.009	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	<0.009	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	<0.0085	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	<0.0085	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		<0.0079	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		<0.032	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		<0.076	U	
		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		<0.035	U	
	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		<15	U	
		VMP-25-21-031511-DUP	3/15/2011	1800		J	140		J	<20	U		<12	U		<6.7	U					<36	U		9	J		<19	U	
		VMP-25-21-040811	4/8/2011	<240	U		130			<170	U		<98	U		<56	U		14000			<300	U		61	J		<160	U	
		VMP-25-21-040811-DUP	4/8/2011	<240	U		120			<170	U		<99	U		<56	U		13000			<300	U		57	J		<160	U	

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

See last page of table for notes.

TABLE 4
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Chlorobenzene			Chlorodibromomethane			Chloroethane			Chloroform			Chloromethane			alpha-Chlorotoluene			Cyclohexane			1,2-Dibromoethane			1,2-Dichlorobenzene		
				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	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-14	5 ft	VMP-14-5	11/20/2009	<0.012	U		<0.022	U		<0.006	U		<0.012	U		<0.021	U		<0.013	U		<0.008	U		<0.02	U		<0.016	U	
		VMP 14-5-091010	9/10/2010	<0.28	U		<0.53	U		<0.16	U		<0.3	U		<0.51	U		<0.32	U		0.85			<0.48	U		<0.37	U	
		VMP-14-5-120110	12/1/2010	<0.0055	U		<0.01	U		<0.0032	U		0.00067	J		<0.0099	U		<0.0062	U		0.001	J		<0.0092	U		<0.0072	U	
		VMP-14-5-021711	2/17/2011	<0.0061	U		<0.011	U		<0.0035	U		<0.0064	U		<0.011	U		<0.0068	U		0.069			<0.01	U		<0.0079	U	
		VMP-14-5-040511	4/5/2011	<0.0062	U		<0.011	U		<0.014	U		<0.0066	U		<0.011	U		<0.007	U		0.0013	J		<0.01	U		<0.0081	J	U
	11.5 ft	VMP-14-11.5	11/16/2009	<1.4	U		<2.6	U		<0.81	U		<1.5	U		<2.5	U		<1.6	U		180			<2.4	U		<1.8	U	
		VMP 14-11.5-091010	9/10/2010	<4.4	U		<8.1	U		<2.5	U		<4.7	U		<7.9	U		<4.9	U		140			<7.3	U		<5.7	U	
		VMP-14-11.5-120110	12/2/2010	<0.39	U		<0.72	U		<0.22	U		<0.41	U		<0.69	U		<0.43	U		3.6			<0.64	U		<0.5	U	
		VMP-14-11.5-120110-DUP	12/2/2010	<0.35	U		<0.65	U		<0.2	U		<0.37	U		<0.63	U		<0.39	U		3.7			<0.58	U		<0.46	U	
		VMP-14-11.5-021711	2/17/2011	<0.13	U		<0.24	U		<0.073	U		<0.13	U		<0.23	U		<0.14	U		2.7			<0.21	U		<0.16	U	
		VMP-14-11.5-021711-DUP	2/17/2011	<0.13	U		<0.24	U		<0.073	U		<0.13	U		<0.23	U		<0.14	U		3			<0.21	U		<0.16	U	
		VMP-14-11.5-040511	4/5/2011	<0.021	U		<0.038	U		0.037	J		<0.022	U		<0.037	U		<0.023	U		1.2			<0.034	U		<0.027	U	
	20 ft	VMP-14-20	11/16/2009	<55	U		<100	U		<31	U		<58	U		<98	U		<62	U		160			<91	U		<72	U	
		VMP 14-20-091010	9/10/2010	<67	U		<120	U		<38	U		<71	U		<120	U		<75	U		250			<110	U		<87	U	
		VMP 14-20-091010-Dup	9/10/2010	<70	U		<130	U		<40	U		<74	U		<120	U		<78	U		240			<120	U		<91	U	
		VMP-14-20-120110	12/2/2010	<180	U		<330	U		<100	U		<190	U		<320	U		<200	U		310			<300	U		<240	U	
		VMP-14-20-021811	2/18/2011	<100	U		<190	U		<58	U		<110	U		<180	U		<110	U		160			<170	U		<130	U	
		VMP-14-20-040511	4/5/2011	<44	U		<81	U		<100	U		<46	U		<78	U		<49	U		150			<73	U		<57	U	
	29 ft	VMP-14-29	11/16/2009	<210	U		<400	U		<120	U		<230	U		<380	U		<240	U		350			<360	U		<280	U	
		VMP-14-29-021811	2/18/2011	<150	U		<270	U		<85	U		<160	U		<260	U		<170	U		180			<250	U		<190	U	
		VMP-14-29-040511	4/5/2011	<130	U		<240	U		<290	U		<130	U		<230	U		<140	U		250			<210	U		<160	U	
VMP-15	5 ft	VMP-15-5	11/18/2009	<0.005	U		<0.011	U		<0.003	U		<0.006	U		<0.01	U		<0.006	U		<0.004	U		<0.009	U		<0.007	U	
		VMP-15-5-D	11/18/2009	<0.005	U		<0.011	U		<0.003	U		<0.006	U		<0.01	U		<0.006	U		<0.004	U		<0.009	U		<0.007	U	
		VMP 15-5-091410	9/14/2010	<0.0058	U		<0.011	U		<0.0033	U		0.0013	J		<0.01	U		<0.0065	U		0.0048			<0.0097	U		<0.0076	U	
		VMP-15-5-113010	11/30/2010	<0.14	U		<0.25	U		0.22			<0.15	U		<0.25	UJ	UJ	<0.15	U		8.6			<0.23	U		<0.18	U	
		VMP-15-5-021611	2/16/2011	<0.13	U		<0.24	U		<0.074	U		<0.14	U		<0.23	U		<0.14	U		0.29			<0.22	U		<0.17	U	
		VMP-15-5-042011	4/20/2011	<0.3	U		<0.56	U		<0.7	U		<0.32	U		<0.54	U		<0.34	U		3.2			<0.51	U		<0.4	U	
	21.5 ft	VMP-15-21.5	11/18/2009	<2.6	U		<4.8	U		<1.5	U		<2.8	U		<4.7	U		<3	U		460			<4.4	U		<3.4	U	
		VMP 15-21.5-091410	9/14/2010	<0.63	U		<1.2	U		<0.36	U		<0.67	U		<1.1	U		<0.71	U		4			<1	U		<0.82	U	
		VMP-15-21.5-113010	11/30/2010	<0.74	U		<1.4	U		<0.42	U		<0.78	U		<1.3	UJ	UJ	<0.83	U		6			<1.2	U		<0.96	U	
		VMP-15-21.5-021611	2/16/2011	<0.52	U		<0.95	U		<0.3	U		<0.55	U		<0.92	U		<0.58	U		2.4			<0.86	U		<0.67	U	
		VMP-15-21.5-042011	4/20/2011	<0.81	U		<1.5	U		<1.8	U		<0.86	U		<1.4	U		<0.91	U		6			<1.4	U		<1	U	
	25.5 ft	VMP-15-25.5	11/18/2009	<2.7	U		<5.1	U		<1.6	U		<2.9	U		<4.9	U		<3.1	U		560			<4.6	U		<3.6	U	
		VMP 15-25.5-091410	9/14/2010	<0.0059	U		<0.011	U		<0.0034	U		0.0023	J		<0.011	U		<0.0067	U		0.084			<0.0099	U		<0.0078	U	
		VMP-15-25.5-021611	2/16/2011	<0.079	U		<0.15	U		<0.045	U		<0.084	U		<0.14	U		<0.089	U		0.45			<0.13	U		<0.1	U	
		VMP-15-25.5-042011	4/20/2011	<0.065	U		<0.12	U		<0.15	U		<0.069	U		<0.12	U		<0.073	U		0.062			<0.11	U		<0.085	U	
		VMP-15-25.5-042011-DUP	4/20/2011	<0.061	U		<0.11	U		<0.14	U		<0.064	U		<0.11	U		<0.068	U		0.1			<0.1	U		<0.079	U	
	29 ft	VMP-15-29	11/19/2009	<3.4	U		<6.3	U		<2	U		<3.6	U		<6.2	U		<3.8	U		640			<5.7	U		<4.5	U	
VMP-16	5 ft	VMP-16-5	11/20/2009	<0.078	U		<0.14	U		<0.044	U		<0.082	U		<0.14	U		<0.087	U		<0.058	U		<0.13	U		<0.1	U	
		VMP-16-5-090210	9/2/2010	<11	U		<20	U		<6.3	U		<12	U		<20	U		<12	U		160			<18	U		<14	U	
		VMP-16-5-112910	11/29/2010	<5	U		<9.3	U		2.4	J	J	<5.3	U		<9	UJ	UJ	<5.6	U		150		J	<8.4	U		<6.6	U	
		VMP-16-5-021511	2/15/2011	<3	U		<5.6	U		<1.7	U		<3.2	U		<5.4	U		<3.4	U		99		J	<5.1	U		<4	U	
		VMP-16-5-042211	4/22/2011	<4	U		<7.5	U		<9.3	U		<4.3	U		<7.3	U		<4.6	U		100			<6.8	U		<5.3	U	
	13.5 ft	VMP-16-13.5	11/19/2009	<0.34	U		<0.63	U		<0.2	U		<0.36	U		<0.62	U		<0.38	U		1			<0.57	U		<0.45	U	
		VMP-16-13.5-090210	9/2/2010	<11	U		<21	U		<6.5	U		<12	U		<20	U		<13	U		150			<19	U		<15	U	
		VMP-16-13.5-090210-DUP	9/2/2010	<11	U		<21	U		<6.5	U		<12	U		<20	U		<13	U		140			<19	U		<15	U	
		VMP-16-13.5-112910	11/29/2010	<32	U		<60	U		<18	U		<34	U		<58	UJ	UJ	<36	U		180			<54	U		<42	U	
		VMP-16-13.5-021611	2/16/2011	<6.2	U		<11	U		<3.5	U		<6.6	U		<11	U		<7	U		78			<10	U		<8.1	U	
		VMP-16-13.5-021611-DUP	2/16/2011	<6.1	U		<11	U		<3.5	U		<6.4	U		<11	U		<6.8	U		84			<10	U		<7.9	U	
		VMP-16-13.5-042211	4/22/2011	<6.5	U		<12	U		<15	U		<6.9	U		<12	U		<7.4	U		120			<11	U		<8.5	U	
	19 ft	VMP-16-19	11/19/2009	<3	U		<5.5	U		<1.7	U		<3.1	U		<5.3	U		<3.3	U		8.2			<5	U		<3.9	U	
		VMP-16-19-090210	9/2/2010	<11	U		<21	U		<6.5	U		<12	U		<20	U		<13	U		190			<19	U		<15	U	
		VMP-16-19-112910	11/29/2010	<25	U		<46	U		<14	U		<26	U		<45	UJ	UJ	<28	U		170			<41	U		<32	U	
		VMP-16-19-021611	2/16/2011	<5.9	U		<11	U		<3.4	U		<6.3	U		<11	U		<6.7	U		80			<9.9	U		<7.8	U	
		VMP-16-19-042711	4/27/2011	<6.1	U		<11	U		<14	U		<6.4	U		<11	U		<6.8	U		64			<10	U		<7.9	U	
		VMP-16-19-042711-DUP	4/27/2011	<5.9	U		<11	U		<14	U		<6.3	U		<11	U		<6.7	U		64			<9.9	U		<7.8	U	
	31 ft	VMP-16-31	11/19/2009	<4.5	U		<8.3	U		<2.6	U		<4.7	U		<8	U		<5	U		15		J	<7.4	U		<5.8	U	
		VMP-16-31-D	11/19/2009	<4.5	U		<8.3	U		<2.6	U		<4.7	U		<8	U		<5	U		<3.3	U	UJ	<7.4	U		<5.8	U	
		VMP-16-31-090310	9/3/2010	<0.0066	U		<0.012	U		<0.0038	U		<0.007	U		<0.012	U		<0.0075	U		0.049			<0.011	U		<0.0087	U	
		VMP-16-31-112910	11/29/2010	<25	U		<46	U		<14	U		<27	U		<45	UJ	UJ	<28	U		170			<42	U		<33	U	
VMP-17	5 ft	VMP-17-5	6/21/2010	<0.006	U		<0.012	U		<0.003	U		<0.007	U		<0.012	U		<0.007	U		0.36			<0.011	U		<0.008	U	
		VMP-17-5-DUP	6/21/2010	<0.006	U		<0.013	U		<0.004	U		<0.007	U		<0.012	U		<0.007	U		0.32			<0.012	U		<0.009	U	
		VMP-17-5-090110	9/1/2010	<0.0062	J	U	<0.011	U		<0.0035	U		<0.0066	U		0.0045	J		<0.007	U		0.02			<0.01	U		0.002	J	
		VMP-17-5-112210	11/22/2010	<0.0062	U		<0.011	U		<0.0035	U		<0.0066	U		0.0035	J		<0.007	U		<0.0046	U		<0.01	U		<0.0081	U	
		VMP-17-5-020711	2/7/2011	<0.0058	U		<0.011	U		<0.0033	U		<0.0062	U		<0.01	U		<0.0065	U		0.029			<0.0097	U		<0.0076	J	U
		VMP-17-5-040611	4/6/2011	<0.023	U		<0.043	U		<0.053	U		<0.025	U		<0.042	U		<0.026	U		0.034			<0.039	U		<0.03	U	
VMP-25	5 ft	VMP-25-5-031511	3/15/2011	1			<0.1	U		<0.13	U		0.048	J		<0.1	U		<0.063	U		6			<0.093	U		<0.073	U	
		VMP-25-5-040811	4/8/2011	0.0043	J		<0.047	U		<0.058	U		<0.027	U		<0.045	U		<0.028	U		0.12			<0.042	U		<0.033	J	U
	21 ft	VMP-25-21-031511	3/15/2011	29		J	<20	U		3.7	J		<12	U		<20	U		<12	U		1400		J	<18	U		<14	U	
		VMP-25-21-031511-DUP	3/15/2011	44		J	<26	U		<32	U		<15	U		<25	U		<16	U		2200		J	<23	U		<18	U	
		VMP-25-21-040811	4/8/2011	<120	U		<210	U		<260	U		<120	U		<210	U		<130	U		1800			<190	U		22	J	
		VMP-25-21-040811-DUP	4/8/2011	<120	U		<220	U		<270	U		<120	U		<210	U		<130	U		1700			<200	U		<150	U	

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

See last page of table for notes.

TABLE 4
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	1,3-Dichlorobenzene			1,4-Dichlorobenzene			Dichlorodifluoromethane			1,2-Dichloroethane			1,1-Dichloroethene			Dichloromethane (Methylene chloride)			1,2-Dichloropropane			1,4-Dioxane			Ethanol		
				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	Result (mg/m^3)	Lab Qualifier	URS Qualifier
VMP-14	5 ft	VMP-14-5	11/20/2009	<0.016	U		<0.016	U		<0.013	U		<0.01	U		<0.01	U		<0.009	U		<0.012	U		<0.037	U		<0.019	U	
		VMP 14-5-091010	9/10/2010	<0.37	U		<0.37	U		<0.31	U		<0.25	U		<0.24	U		<0.22	U		<0.29	U		<0.89	U		<0.47	U	
		VMP-14-5-120110	12/1/2010	<0.0072	U		<0.0072	U		0.0025	J		<0.0048	U		<0.0048	U		<0.0042	U		<0.0055	U		<0.017	U		0.0085	J	
		VMP-14-5-021711	2/17/2011	<0.0079	U		<0.0079	U		0.0023	J		<0.0053	U		<0.0052	U		<0.0046	U		<0.0061	U		<0.019	U		0.026	J	J
		VMP-14-5-040511	4/5/2011	<0.0081	J	U	<0.0081	J	U	0.0023	J		<0.0054	U		<0.0053	U		0.0022	J		<0.0062	U		<0.019	U		0.012		
	11.5 ft	VMP-14-11.5	11/16/2009	<1.8	U		<1.8	U		<1.5	U		<1.2	U		<1.2	U		<1.1	U		<1.4	U		<4.4	U		<2.3	U	
		VMP 14-11.5-091010	9/10/2010	<5.7	U		<5.7	U		<4.7	U		<3.9	U		<3.8	U		<3.3	U		<4.4	U		<14	U		<7.2	U	
		VMP-14-11.5-120110	12/2/2010	<0.5	U		<0.5	U		<0.42	U		<0.34	U		<0.33	U		1.2			<0.39	U		<1.2	U		<0.63	U	
		VMP-14-11.5-120110-DUP	12/2/2010	<0.46	U		<0.46	U		<0.38	U		<0.31	U		<0.3	U		1.9			<0.35	U		<1.1	U		<0.57	U	
		VMP-14-11.5-021711	2/17/2011	<0.16	U		<0.16	U		<0.14	U		<0.11	U		<0.11	U		<0.096	U		<0.13	U		<0.4	U		<0.21	U	
		VMP-14-11.5-021711-DUP	2/17/2011	<0.16	U		<0.16	U		<0.14	U		<0.11	U		<0.11	U		<0.096	U		<0.13	U		<0.4	U		<0.21	U	
		VMP-14-11.5-040511	4/5/2011	<0.027	U		<0.027	U		<0.022	U		<0.018	U		<0.018	U		<0.016	U		<0.021	U		<0.065	U		<0.034	U	
	20 ft	VMP-14-20	11/16/2009	<72	U		<72	U		<59	U		<48	U		<47	U		<41	U		<55	U		<170	U		<90	U	
		VMP 14-20-091010	9/10/2010	<87	U		<87	U		<72	U		<59	U		<58	U		18	J		<67	U		<210	U		<110	U	
		VMP 14-20-091010-Dup	9/10/2010	<91	U		<91	U		<75	U		<61	U		<60	U		<52	U		<70	U		<220	U		<110	U	
		VMP-14-20-120110	12/2/2010	<240	U		<240	U		<190	U		<160	U		<160	U		160			<180	U		<560	U		<300	U	
		VMP-14-20-021811	2/18/2011	<130	U		<130	U		<110	U		<90	U		<88	U		<77	U		<100	U		<320	U		<170	U	
		VMP-14-20-040511	4/5/2011	<57	U		<57	U		<47	U		<38	U		<38	U		<33	U		<44	U		<140	U		<72	U	
	29 ft	VMP-14-29	11/16/2009	<280	U		<280	U		<230	U		<190	U		<180	U		<160	U		<220	U		<670	U		<350	U	
		VMP-14-29-021811	2/18/2011	<190	U		<190	U		<160	U		<130	U		<130	U		<110	U		<150	U		<460	U		<240	U	
		VMP-14-29-040511	4/5/2011	<160	U		<160	U		<140	U		<110	U		<110	U		<96	U		<130	U		<400	U		<210	U	
VMP-15	5 ft	VMP-15-5	11/18/2009	<0.007	U		<0.007	U		<0.006	U		<0.005	U		<0.005	U		<0.004	U		<0.005	U		<0.018	U		0.011		J
		VMP-15-5-D	11/18/2009	<0.007	U		<0.007	U		<0.006	U		<0.005	U		<0.005	U		<0.004	U		<0.005	U		<0.018	U		0.018		J
		VMP 15-5-091410	9/14/2010	<0.0076	U		<0.0076	U		0.002	J		<0.0051	U		<0.005	U		0.001	J		<0.0058	U		<0.018	U		0.0076	J	
		VMP-15-5-113010	11/30/2010	<0.18	U		<0.18	U		<0.15	U		<0.12	U		<0.12	U		<0.1	U		<0.14	U		<0.43	U		<0.22	U	
		VMP-15-5-021611	2/16/2011	<0.17	U		<0.17	U		<0.14	U		<0.11	U		<0.11	U		0.091	J		<0.13	U		<0.41	U		0.13	J	J
		VMP-15-5-042011	4/20/2011	<0.4	U		<0.4	U		<0.33	U		<0.27	U		<0.26	U		<0.23	U		<0.3	U		<0.95	U		<0.5	U	
	21.5 ft	VMP-15-21.5	11/18/2009	<3.4	U		<3.4	U		<2.8	U		<2.3	U		<2.3	U		<2	U		<2.6	U		<8.2	U		<4.3	U	
		VMP 15-21.5-091410	9/14/2010	<0.82	U		<0.82	U		<0.68	U		<0.55	U		<0.54	U		<0.48	U		<0.63	U		<2	U		<1	U	
		VMP-15-21.5-113010	11/30/2010	<0.96	U		<0.96	U		<0.79	U		<0.65	U		<0.64	U		<0.56	U		<0.74	U		<2.3	U		<1.2	U	
		VMP-15-21.5-021611	2/16/2011	<0.67	U		<0.67	U		<0.55	U		<0.45	U		<0.44	U		<0.39	U		<0.52	U		<1.6	U		<0.84	U	
		VMP-15-21.5-042011	4/20/2011	<1	U		<1	U		<0.87	U		<0.71	U		<0.7	U		<0.61	U		<0.81	U		<2.5	U		<1.3	U	
	25.5 ft	VMP-15-25.5	11/18/2009	<3.6	U		<3.6	U		<2.9	U		<2.4	U		<2.4	U		<2.1	U		<2.7	U		<8.6	U		<4.5	U	
		VMP 15-25.5-091410	9/14/2010	<0.0078	U		<0.0078	U		0.002	J		<0.0052	U		<0.0051	U		0.0026	J		<0.006	U		<0.018	U		0.0053	J	
		VMP-15-25.5-021611	2/16/2011	<0.1	U		<0.1	U		<0.085	U		<0.07	U		<0.068	U		<0.06	U		<0.079	U		<0.25	U		<0.13	U	
		VMP-15-25.5-042011	4/20/2011	<0.085	U		<0.085	U		<0.07	U		<0.057	U		<0.056	U		<0.049	U	UJ	<0.065	U		<0.2	U		<0.11	U	
		VMP-15-25.5-042011-DUP	4/20/2011	<0.079	U		<0.079	U		<0.065	U		<0.053	U		<0.052	U		0.15		J	<0.061	U		<0.19	U		<0.099	U	
	29 ft	VMP-15-29	11/19/2009	<4.5	U		<4.5	U		<3.7	U		<3	U		<3	U		<2.6	U		<3.4	U		<11	U		<5.6	U	
VMP-16	5 ft	VMP-16-5	11/20/2009	<0.1	U		<0.1	U		<0.083	U		<0.068	U		<0.067	U		<0.058	U		<0.078	U		<0.24	U		<0.13	U	
		VMP-16-5-090210	9/2/2010	<14	U		<14	U		<12	U		<9.6	U		<9.4	U		<8.3	U		<11	U		<34	U		<18	U	
		VMP-16-5-112910	11/29/2010	<6.6	U		<6.6	U		<5.4	U		<4.4	U		<4.3	U		<3.8	U		<5	U		<16	U		<8.2	U	
		VMP-16-5-021511	2/15/2011	<4	U		<4	U		<3.3	U		<2.7	U		<2.6	U		<2.3	U		<3	U		<9.5	U		<5	U	
		VMP-16-5-042211	4/22/2011	<5.3	U		<5.3	U		<4.4	U		<3.6	U		<3.5	U		<3	U		<4.1	U		<13	U		<6.6	U	
	13.5 ft	VMP-16-13.5	11/19/2009	<0.45	U		<0.45	U		<0.37	U		<0.3	U		<0.3	U		<0.26	U		<0.34	U		<1.1	U		<0.56	U	
		VMP-16-13.5-090210	9/2/2010	<15	U		<15	U		<12	U		<10	U		<9.8	U		2.1	J		<11	U		<36	U		<19	U	
		VMP-16-13.5-090210-DUP	9/2/2010	<15	U		<15	U		<12	U		<10	U		<9.8	U		<8.6	U		<11	U		<36	U		<19	U	
		VMP-16-13.5-112910	11/29/2010	<42	U		<42	U		<35	U		<28	U		<28	U		<24	U		<32	U		<100	U		<53	U	
		VMP-16-13.5-021611	2/16/2011	<8.1	U		<8.1	U		<6.6	U		<5.4	U		<5.3	U		<4.7	U		<6.2	U		<19	U		<10	U	
		VMP-16-13.5-021611-DUP	2/16/2011	<7.9	U		<7.9	U		<6.5	U		<5.3	U		<5.2	U		<4.6	U		<6.1	U		<19	U		<9.9	U	
		VMP-16-13.5-042211	4/22/2011	<8.5	U		<8.5	U		<7	U		<5.7	U		<5.6	U		<4.9	U		<6.6	U		<20	U		<11	U	
	19 ft	VMP-16-19	11/19/2009	<3.9	U		<3.9	U		<3.2	U		<2.6	U		<2.6	U		<2.2	U		<3	U		<9.3	U		<4.9	U	
		VMP-16-19-090210	9/2/2010	<15	U		<15	U		<12	U		<10	U		<9.8	U		<8.6	U		<11	U		<36	U		<19	U	
		VMP-16-19-112910	11/29/2010	<32	U		<32	U		<27	U		<22	U		<21	U		<19	U		<25	U		<78	U		<41	U	
		VMP-16-19-021611	2/16/2011	<7.8	U		<7.8	U		<6.4	U		<5.2	U		<5.1	U		<4.5	U		<6	U		<18	U		<9.7	U	
		VMP-16-19-042711	4/27/2011	<7.9	U		<7.9	U		<6.5	U		<5.3	U		<5.2	U		1	J		<6.1	U		<19	U		<9.9	U	
		VMP-16-19-042711-DUP	4/27/2011	<7.8	U		<7.8	U		<6.4	U		<5.2	U		<5.1	U		0.54	J		<6	U		<18	U		<9.7	U	
	31 ft	VMP-16-31	11/19/2009	<5.8	U		<5.8	U		<4.8	U		<3.9	U		<3.8	U		<3.4	U		<4.5	U		<14	U		<7.3	U	
		VMP-16-31-D	11/19/2009	<5.8	U		<5.8	U		<4.8	U		<3.9	U		<3.8	U		<3.4	U		<4.5	U		<14	U		<7.3	U	
		VMP-16-31-090310	9/3/2010	<0.0087	U		<0.0087	U		0.0018	J		<0.0058	U		<0.0057	U		<0.005	U		<0.0067	U		<0.021	U		0.014		
		VMP-16-31-112910	11/29/2010	<33	U		<33	U		<27	U		<22	U		<22	U		<19	U		<25	U		<78	U		<41	U	
VMP-17	5 ft	VMP-17-5	6/21/2010	<0.008	U		<0.008	U		0.0022	J		<0.005	U		<0.005	U		<0.005	U		<0.006	U		<0.021	U		<0.011	U	
		VMP-17-5-DUP	6/21/2010	<0.009	U		<0.009	U		0.002	J		<0.006	U		<0.005	U		<0.005	U		<0.006	U		<0.022	U		<0.011	U	
		VMP-17-5-090110	9/1/2010	<0.0081	U		<0.0081	U		0.0026	J		<0.0054	U		<0.0053	U		<0.0047	U		<0.0062	U		0.0033	J		0.022		
		VMP-17-5-112210	11/22/2010	<0.0081	U		<0.0081	U		0.0022	J		<0.0054	U		<0.0053	U		<0.0047	U		<0.0062	U		0.0036	J		0.011		
		VMP-17-5-020711	2/7/2011	<0.0076	J	U	<0.0076	J	U	0.0013	J		<0.0051	U		<0.005	U		0.001	J		<0.0058	U		0.0034	J		<0.0095	U	
		VMP-17-5-040611	4/6/2011	<0.03	U		<0.03	U		<0.025	U		<0.02	U		<0.02	U		<0.018	U		<0.023	U		<0.073	U		<0.038	U	
VMP-25	5 ft	VMP-25-5-031511	3/15/2011	<0.073	U		<0.073	U		<0.06	U		<0.049	U		<0.048	U		<0.042	U		<0.056	U		<0.17	U		<0.091	U	
		VMP-25-5-040811	4/8/2011	<0.033	U		<0.033	U		<0.027	U		<0.022	U		<0.022	U		0.0095	J		<0.025	U		<0.079	U		0.033	J	
	21 ft	VMP-25-21-031511	3/15/2011	<14	U		<14	U		<12	U		<9.6	U		<9.4	U		2.7	J		<11	U		<34	U		12	J	
		VMP-25-21-031511-DUP	3/15/2011	<18	U		<18	U		<15	U		<12	U		<12	U		<10	U		<14	U		<44	U		14	J	
		VMP-25-21-040811	4/8/2011	<150	U		<150	U		<120	U		<100	U		<100	U		<88	U		<120	U		<360	U		<190	U	
		VMP-25-21-040811-DUP	4/8/2011	<150	U		<150	U		<130	U		<100	U		<100	U		<88	U		<120	U		<370	U		<190	U	

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

See last page of table for notes.

TABLE 4
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	Ethylbenzene			4-Ethyltoluene			Heptane			Hexane			Isopentane			Isopropylbenzene (Cumene)			Methyl tert-Butyl Ether (MTBE)			4-Methyl-2-pentanone (Methyl Isobutyl Ketone)		
				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-14	5 ft	VMP-14-5	11/20/2009	<0.011	U		<0.013	U		<0.01	U		0.015						<0.013	U		<0.009	U		<0.01	U	
		VMP 14-5-091010	9/10/2010	<0.27	U		<0.3	U		<0.25	U		0.55						<0.3	U		<0.22	U		<0.25	U	
		VMP-14-5-120110	12/1/2010	<0.0052	U		<0.0059	U		0.0011	J		0.0017	J					<0.0059	U		0.00061	J		<0.0049	U	
		VMP-14-5-021711	2/17/2011	0.0029	J		<0.0065	U		0.059			0.1						<0.0065	J	U	<0.0048	U		<0.0054	U	
		VMP-14-5-040511	4/5/2011	<0.0058	U		<0.0066	U		<0.0055	U		0.0076			1.7	E	J	<0.0066	U		0.00051	J		<0.0055	U	
	11.5 ft	VMP-14-11.5	11/16/2009	<1.3	U		<1.5	U		43			380						<1.5	U		<1.1	U		<1.2	U	
		VMP 14-11.5-091010	9/10/2010	<4.1	U		<4.7	U		<3.9	U		4.6						0.97	J		<3.4	U		<3.9	U	
		VMP-14-11.5-120110	12/2/2010	<0.36	U		<0.41	U		<0.34	U		0.27	J					<0.41	U		<0.3	U		<0.34	U	
		VMP-14-11.5-120110-DUP	12/2/2010	0.08	J		<0.37	U		<0.31	U		0.32						<0.37	U		<0.27	U		<0.31	U	
		VMP-14-11.5-021711	2/17/2011	<0.12	U		<0.14	U		<0.11	U		<0.097	U					<0.14	U		<0.1	U		<0.11	U	
		VMP-14-11.5-021711-DUP	2/17/2011	<0.12	U		<0.14	U		<0.11	U		<0.097	U					<0.14	U		<0.1	U		<0.11	U	
		VMP-14-11.5-040511	4/5/2011	0.0054	J		<0.022	U		<0.018	U		0.15			43	E	J	<0.022	U		<0.016	U		<0.018	U	
	20 ft	VMP-14-20	11/16/2009	<52	U		<58	U		67			350						<58	U		<43	U		<49	U	
		VMP 14-20-091010	9/10/2010	<63	U		<72	U		100			700						6.4	J		<52	U		<60	U	
		VMP 14-20-091010-Dup	9/10/2010	<66	U		<74	U		98			750						<74	U		<54	U		<62	U	
		VMP-14-20-120110	12/2/2010	<170	U		<190	U		130	J		800						<190	U		<140	U		<160	U	
		VMP-14-20-021811	2/18/2011	<96	U		<110	U		47	J		320						<110	U		<80	U		<91	U	
		VMP-14-20-040511	4/5/2011	<41	U		<47	U		51			350			3200			<47	U		<34	U		<39	U	
	29 ft	VMP-14-29	11/16/2009	<200	U		<230	U		220			900						<230	U		<170	U		<190	U	
		VMP-14-29-021811	2/18/2011	<140	U		<160	U		110	J		530						<160	U		<120	U		<130	U	
		VMP-14-29-040511	4/5/2011	<120	U		<140	U		140			700			4600			<140	U		<100	U		<110	U	
VMP-15	5 ft	VMP-15-5	11/18/2009	<0.005	U		<0.006	U		<0.005	U		<0.004	U					<0.006	U		<0.004	U		<0.005	U	
		VMP-15-5-D	11/18/2009	<0.005	U		<0.006	U		<0.005	U		<0.004	U					<0.006	U		<0.004	U		<0.005	U	
		VMP 15-5-091410	9/14/2010	<0.0055	U		<0.0062	U		0.0059			0.022						<0.0062	U		<0.0045	U		<0.0052	U	
		VMP-15-5-113010	11/30/2010	0.031	J		<0.15	U		<0.12	U		0.12						<0.15	U		<0.11	U		<0.12	U	
		VMP-15-5-021611	2/16/2011	<0.12	U		<0.14	U		<0.12	U		<0.099	U					<0.14	U		<0.1	U		<0.12	U	
		VMP-15-5-042011	4/20/2011	<0.29	U		<0.32	U		<0.27	U		<0.23	U		140			<0.32	U		<0.24	U		<2.7	U	
	21.5 ft	VMP-15-21.5	11/18/2009	<2.5	U		<2.8	U		30			96						<2.8	U		<2	U		<2.3	U	
		VMP 15-21.5-091410	9/14/2010	<0.59	U		<0.67	U		<0.56	U		<0.48	U					<0.67	U		<0.49	U		<0.56	U	
		VMP-15-21.5-113010	11/30/2010	<0.7	U		<0.79	U		<0.66	U		<0.56	U					<0.79	U		<0.58	U		<0.66	U	
		VMP-15-21.5-021611	2/16/2011	<0.49	U		<0.55	U		<0.46	U		1.9						<0.55	U		<0.4	U		<0.46	U	
		VMP-15-21.5-042011	4/20/2011	<0.76	U		<0.86	U		<0.72	U		<0.62	U		190			<0.86	U		<0.63	U		<7.2	U	
	25.5 ft	VMP-15-25.5	11/18/2009	<2.6	U		<2.9	U		22			86						<2.9	U		<2.1	U		<2.4	U	
		VMP 15-25.5-091410	9/14/2010	<0.0056	U		<0.0063	U		0.0039	J		0.011						<0.0063	U		<0.0046	U		<0.0053	U	
		VMP-15-25.5-021611	2/16/2011	<0.075	U		<0.084	U		<0.07	U		<0.061	U					<0.084	U		<0.062	U		<0.07	U	
		VMP-15-25.5-042011	4/20/2011	<0.061	U		<0.069	U		<0.058	U		0.046	J		0.42		J	<0.069	U		<0.051	U		<0.58	U	
		VMP-15-25.5-042011-DUP	4/20/2011	<0.057	U		<0.065	U		<0.054	U		0.035	J		2.5		J	<0.065	U		<0.048	U		<0.54	U	
	29 ft	VMP-15-29	11/19/2009	<3.2	U		<3.7	U		32			110						<3.7	U		<2.7	U		<3	U	
VMP-16	5 ft	VMP-16-5	11/20/2009	<0.073	U		<0.083	U		<0.069	U		<0.059	U					<0.083	U		<0.061	U		<0.069	U	
		VMP-16-5-090210	9/2/2010	12			2.5	J		14			6.3	J					14			2.7	J		<9.7	U	
		VMP-16-5-112910	11/29/2010	7.5		J	<5.4	U		<4.5	U		<3.8	U					4.2	J	J	1.2	J	J	<4.5	U	
		VMP-16-5-021511	2/15/2011	<2.9	U		<3.2	U		<2.7	U		45		J				<3.2	U		<2.4	U		<2.7	U	
		VMP-16-5-042211	4/22/2011	<3.8	U		<4.3	U		<3.6	U		4.8			4800			<4.3	U		1.9	J		<36	U	
	13.5 ft	VMP-16-13.5	11/19/2009	<0.32	U		<0.37	U		<0.3	U		<0.26	U					<0.37	U		<0.27	U		<0.3	U	
		VMP-16-13.5-090210	9/2/2010	15			3.4	J		13			6.6	J	J				15			2.9	J		<10	U	
		VMP-16-13.5-090210-DUP	9/2/2010	15			2.9	J		12			9.7		J				16			3.1	J		<10	U	
		VMP-16-13.5-112910	11/29/2010	9.9	J		<34	U		<29	U		<25	U					<34	U		<25	U		<29	U	
		VMP-16-13.5-021611	2/16/2011	<5.8	U		<6.6	U		<5.5	U		12						<6.6	U		<4.8	U		<5.5	U	
		VMP-16-13.5-021611-DUP	2/16/2011	<5.7	U		<6.5	U		<5.4	U		10						<6.5	U		<4.8	U		<5.4	U	
		VMP-16-13.5-042211	4/22/2011	<6.2	U		<7	U		<5.8	U		5			4800			<7	U		2.6	J		<58	U	
	19 ft	VMP-16-19	11/19/2009	<2.8	U		<3.2	U		<2.6	U		<2.3	U					<3.2	U		<2.3	U		<2.6	U	
		VMP-16-19-090210	9/2/2010	23			3.2	J		14			7.5	J					24			3.1	J		<10	U	
		VMP-16-19-112910	11/29/2010	14	J		<26	U		<22	U		<19	U					9.4	J		<19	U		<22	U	
		VMP-16-19-021611	2/16/2011	<5.6	U		<6.3	U		<5.3	U		7.4						<6.3	U		<4.6	U		<5.3	U	
		VMP-16-19-042711	4/27/2011	<5.7	U		<6.5	U		<5.4	U		1.8	J		2800			<6.5	U		1.2	J		<54	U	
		VMP-16-19-042711-DUP	4/27/2011	<5.6	U		<6.3	U		<5.3	U		1.7	J		2800			<6.3	U		1.3	J		<53	U	
	31 ft	VMP-16-31	11/19/2009	<4.2	U		<4.8	U		<4	U		<3.4	U					<4.8	U		<3.5	U		<4	U	
		VMP-16-31-D	11/19/2009	<4.2	U		<4.8	U		<4	U		<3.4	U					<4.8	U		<3.5	U		<4	U	
		VMP-16-31-090310	9/3/2010	0.002	J		<0.0071	U		<0.0059	U		0.0028	J					0.0037	J		0.014			<0.0059	U	
		VMP-16-31-112910	11/29/2010	15	J		<27	U		<22	U		<19	U					12	J		<20	U		<22	U	
VMP-17	5 ft	VMP-17-5	6/21/2010	<0.006	U		<0.007	U		0.023			0.41						<0.007	U		<0.005	U		<0.006	U	
		VMP-17-5-DUP	6/21/2010	<0.006	U		<0.007	U		0.019			0.35						<0.007	U		<0.005	U		<0.006	U	
		VMP-17-5-090110	9/1/2010	0.0039	J	J	<0.0066	U		0.043			0.088						<0.0066	U		<0.0048	U		<0.0055	U	
		VMP-17-5-112210	11/22/2010	<0.0058	U		<0.0066	U		<0.0055	U		0.0013	J					<0.0066	U		<0.0048	U		<0.0055	U	
		VMP-17-5-020711	2/7/2011	<0.0055	U		<0.0062	U		0.016			0.02						<0.0062	U		<0.0045	U		<0.0052	U	
		VMP-17-5-040611	4/6/2011	<0.022	U		<0.025	U		0.025			0.11			0.18			<0.025	U		<0.018	U		<0.021	U	
VMP-25	5 ft	VMP-25-5-031511	3/15/2011	0.07			0.12			0.6			1.3						0.28			<0.044	U		<0.05	U	
		VMP-25-5-040811	4/8/2011	<0.024	U		<0.027	U		<0.022	U		0.093			0.27			<0.027	U		0.019	J		<0.022	U	
	21 ft	VMP-25-21-031511	3/15/2011	11			1.7	J		420		J	1700		J				4.3	J		<8.5	U		<9.7	U	
		VMP-25-21-031511-DUP	3/15/2011	11	J		<15	U		650		J	2700		J				6.7	J		<11	U		<12	U	
		VMP-25-21-040811	4/8/2011	<110	U		<120	U		480			2100			23000			<120	U		<91	U		<100	U	
		VMP-25-21-040811-DUP	4/8/2011	<110	U		<120	U		510			2100			23000			<120	U		<92	U		<100	U	

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

See last page of table for notes.

TABLE 4
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	2-Propanol			n-Propylbenzene			Styrene			Tetrachloroethene			Tetrahydrofuran			Toluene			1,2,4-Trichlorobenzene			1,1,1-Trichloroethane (Methyl chloroform)		
				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-14	5 ft	VMP-14-5	11/20/2009	<0.025	U		<0.013	U		<0.011	U		<0.018	U		<0.007	U		<0.009	U		<0.076	U		<0.014	U	
		VMP 14-5-091010	9/10/2010	<0.61	U		<0.3	U		<0.26	U		<0.42	U		<0.18	U		<0.23	U		<1.8	U		<0.34	U	
		VMP-14-5-120110	12/1/2010	0.15			<0.0059	U		<0.0051	U		<0.0081	U		0.0025	J		<0.0045	U		<0.036	U		<0.0065	U	
		VMP-14-5-021711	2/17/2011	0.0053	J		<0.0065	J	U	<0.0056	U		<0.009	U		<0.0039	U		<0.005	J	U	<0.039	U		<0.0072	U	
		VMP-14-5-040511	4/5/2011	0.004	J		<0.0066	U		<0.0057	U		<0.0091	J	U	<0.004	U		0.0032	J		<0.04	J	U	<0.0073	U	
	11.5 ft	VMP-14-11.5	11/16/2009	<3	U		<1.5	U		<1.3	U		<2.1	U		<0.91	U		<1.2	U		<9.1	UJ	UJ	<1.7	U	
		VMP 14-11.5-091010	9/10/2010	<9.4	U		<4.7	U		<4.1	U		<6.5	U		<2.8	U		<3.6	U		<28	U		<5.2	U	
		VMP-14-11.5-120110	12/2/2010	0.39	J		<0.41	U		<0.36	U		<0.57	U		<0.25	U		<0.32	U		<2.5	U		<0.46	U	
		VMP-14-11.5-120110-DUP	12/2/2010	0.42	J		<0.37	U		<0.32	U		<0.52	U		<0.22	U		0.15	J		<2.2	U		<0.41	U	
		VMP-14-11.5-021711	2/17/2011	<0.27	U		<0.14	U		<0.12	U		<0.19	U		<0.081	U		<0.1	U		<0.82	U		<0.15	U	
		VMP-14-11.5-021711-DUP	2/17/2011	<0.27	U		<0.14	U		<0.12	U		<0.19	U		<0.081	U		<0.1	U		<0.82	U		<0.15	U	
		VMP-14-11.5-040511	4/5/2011	<0.044	U		0.02	J		<0.019	U		<0.03	U		<0.013	U		0.035			<0.13	U		<0.024	U	
	20 ft	VMP-14-20	11/16/2009	<120	U		<58	U		<51	U		<81	U		<35	U		<45	U		<350	UJ	UJ	<65	U	
		VMP 14-20-091010	9/10/2010	<140	U		<72	U		<62	U		<99	U		<43	U		<55	U		<430	U		<79	U	
		VMP 14-20-091010-Dup	9/10/2010	<150	U		<74	U		<64	U		<100	U		<44	U		<57	U		<450	U		<82	U	
		VMP-14-20-120110	12/2/2010	<380	U		<190	U		<170	U		<260	U		<120	U		<150	U		<1200	U		<210	U	
		VMP-14-20-021811	2/18/2011	<220	U		<110	U		<94	U		<150	U		<65	U		<83	U		<660	U		<120	U	
		VMP-14-20-040511	4/5/2011	<93	U		<47	U		<40	U		<64	U		<28	U		<36	U		<280	U		<52	U	
	29 ft	VMP-14-29	11/16/2009	<460	U		<230	U		<200	U		<320	U		<140	U		<180	U		<1400	UJ	UJ	<250	U	
		VMP-14-29-021811	2/18/2011	<320	U		<160	U		<140	U		<220	U		<95	U		47	J		<950	U		<180	U	
		VMP-14-29-040511	4/5/2011	<270	U		<140	U		<120	U		<190	U		<81	U		50	J		<820	U		<150	U	
VMP-15	5 ft	VMP-15-5	11/18/2009	<0.012	U		<0.006	U		<0.005	U		<0.008	U		<0.003	U		<0.004	U		<0.038	U		<0.006	U	
		VMP-15-5-D	11/18/2009	<0.012	U		<0.006	U		<0.005	U		<0.008	U		<0.003	U		<0.004	U		<0.038	U		<0.006	U	
		VMP 15-5-091410	9/14/2010	0.018			<0.0062	U		<0.0054	U		0.0016	J		<0.0037	U		0.0018	J		<0.037	U		<0.0069	U	
		VMP-15-5-113010	11/30/2010	<0.29	U		0.065	J		<0.13	U		<0.2	U		<0.088	U		<0.11	U		<0.89	U		<0.16	U	
		VMP-15-5-021611	2/16/2011	0.17	J		<0.14	U		0.036	J		<0.19	U		<0.083	U		0.1	J		<0.84	U		<0.15	U	
		VMP-15-5-042011	4/20/2011	<0.65	U		<0.32	U		<2.8	U		<0.45	U		<0.19	U		<0.25	U		<2	U		<0.36	U	
	21.5 ft	VMP-15-21.5	11/18/2009	<5.6	U		<2.8	U		<2.4	U		<3.9	U		<1.7	U		<2.1	U		<17	U		<3.1	U	
		VMP 15-21.5-091410	9/14/2010	<1.3	U		<0.67	U		<0.58	U		<0.93	U		<0.4	U		<0.52	U		<4.1	U		<0.75	U	
		VMP-15-21.5-113010	11/30/2010	<1.6	U		<0.79	U		<0.68	U		<1.1	U		<0.47	U		<0.6	U		<4.8	U		<0.88	U	
		VMP-15-21.5-021611	2/16/2011	<1.1	U		<0.55	U		<0.48	U		<0.76	U		<0.33	U		<0.42	U		<3.3	U		<0.61	U	
		VMP-15-21.5-042011	4/20/2011	<1.7	U		<0.86	U		<7.5	U		<1.2	U		<0.52	U		<0.66	U		<5.2	U		<0.96	U	
	25.5 ft	VMP-15-25.5	11/18/2009	<5.8	U		<2.9	U		<2.5	U		<4	U		<1.8	U		<2.2	U		<18	U		<3.2	U	
		VMP 15-25.5-091410	9/14/2010	0.0041	J		<0.0063	U		<0.0055	U		<0.0088	U		0.0033	J		0.0011	J		<0.038	U		<0.007	U	
		VMP-15-25.5-021611	2/16/2011	0.057	J		<0.084	U		<0.073	U		<0.12	U		<0.051	U		<0.065	U		<0.51	U		<0.094	U	
		VMP-15-25.5-042011	4/20/2011	<0.14	U		<0.069	U		<0.6	U		<0.096	U		<0.042	U		<0.053	U		<0.42	U		<0.077	U	
		VMP-15-25.5-042011-DUP	4/20/2011	<0.13	U		<0.065	U		<0.56	U		<0.09	U		<0.039	U		<0.05	U		<0.39	U		<0.072	U	
	29 ft	VMP-15-29	11/19/2009	<7.3	U		<3.7	U		<3.2	U		<5	U		<2.2	U		<2.8	U		<22	U		<4.1	U	
VMP-16	5 ft	VMP-16-5	11/20/2009	<0.16	U		<0.083	U		<0.072	U		<0.11	U		<0.05	U		0.12			<0.5	U		<0.092	U	
		VMP-16-5-090210	9/2/2010	<23	U		20			<10	U		<16	U		<7	U		<9	U		<71	U		<13	U	
		VMP-16-5-112910	11/29/2010	<11	U		4.4	J	J	<4.6	U		<7.4	U		<3.2	U		<4.1	U		<32	U		<5.9	U	
		VMP-16-5-021511	2/15/2011	<6.5	U		1.4	J	J	<2.8	U		<4.5	U		<1.9	U		2.4	J	J	<20	U		<3.6	U	
		VMP-16-5-042211	4/22/2011	<8.6	U		<4.3	U		<37	U		<6	U		<2.6	U		<3.3	U		<26	U		<4.8	U	
	13.5 ft	VMP-16-13.5	11/19/2009	<0.73	U		<0.37	U		<0.32	U		<0.5	U		<0.22	U		0.46			<2.2	U		<0.41	U	
		VMP-16-13.5-090210	9/2/2010	<24	U		24			<10	U		<17	U		<7.3	U		1.4	J		<73	U		<13	U	
		VMP-16-13.5-090210-DUP	9/2/2010	<24	U		23			<10	U		<17	U		<7.3	U		1.6	J		<73	U		<13	U	
		VMP-16-13.5-112910	11/29/2010	<69	U		<34	U		<30	U		<47	U		<21	U		<26	U		<210	U		<38	U	
		VMP-16-13.5-021611	2/16/2011	<13	U		<6.6	U		<5.7	U		<9.1	U		<4	U		<5.1	U		<40	U		<7.3	U	
		VMP-16-13.5-021611-DUP	2/16/2011	<13	U		<6.5	U		<5.6	U		<9	U		<3.9	U		<5	U		<39	U		<7.2	U	
		VMP-16-13.5-042211	4/22/2011	<14	U		<7	U		<60	U		<9.6	U		<4.2	U		<5.4	U		<42	U		<7.7	U	
	19 ft	VMP-16-19	11/19/2009	<6.3	U		<3.2	U		<2.7	U		<4.4	U		<1.9	U		<2.4	U		<19	U		<3.5	U	
		VMP-16-19-090210	9/2/2010	<24	U		35			<10	U		<17	U		<7.3	U		<9.3	U		<73	U		<13	U	
		VMP-16-19-112910	11/29/2010	<53	U		12	J		<23	U		<37	U		<16	U		<20	U		<160	U		<29	U	
		VMP-16-19-021611	2/16/2011	<13	U		<6.3	U		<5.5	U		<8.8	U		<3.8	U		<4.9	U		<38	U		<7	U	
		VMP-16-19-042711	4/27/2011	<13	U		<6.5	U		<56	U		<9	U		<3.9	U		<5	U		<39	U		<7.2	U	
		VMP-16-19-042711-DUP	4/27/2011	<13	U		<6.3	U		<55	U		<8.8	U		<3.8	U		<4.9	U		<38	U		<7	U	
	31 ft	VMP-16-31	11/19/2009	<9.5	U		<4.8	U		<4.1	U		<6.6	U		<2.9	U		<3.6	U		<29	U		<5.3	U	
		VMP-16-31-D	11/19/2009	<9.5	U		<4.8	U		<4.1	U		<6.6	U		<2.9	U		<3.6	U		<29	U		<5.3	U	
		VMP-16-31-090310	9/3/2010	0.041			0.0047	J		<0.0062	U		<0.0098	U		<0.0043	U		0.0016	J		<0.043	U		<0.0079	U	
		VMP-16-31-112910	11/29/2010	<54	U		14	J		<23	U		<37	U		<16	U		<20	U		<160	U		<30	U	
VMP-17	5 ft	VMP-17-5	6/21/2010	2.1	E	J	<0.007	U		<0.006	U		<0.009	J	U	<0.004	U		0.001	J		<0.043	U		<0.007	U	
		VMP-17-5-DUP	6/21/2010	1.6	E	J	<0.007	U		<0.006	U		<0.01	J	U	<0.004	U		<0.005	U		<0.044	U		<0.008	U	
		VMP-17-5-090110	9/1/2010	0.027			<0.0066	U		<0.0057	U		<0.0091	J	U	0.0034	J		0.0078			<0.04	J	UJ	<0.0073	U	
		VMP-17-5-112210	11/22/2010	0.022			<0.0066	U		0.0027	J		<0.0091	J	U	<0.004	U		<0.0051	J	U	<0.04	U		<0.0073	U	
		VMP-17-5-020711	2/7/2011	0.004	J		<0.0062	J	U	<0.0054	U		<0.0085	U		<0.0037	U		0.0021	J		<0.037	J	U	<0.0069	U	
		VMP-17-5-040611	4/6/2011	<0.05	U		<0.025	U		<0.022	U		<0.034	U		<0.015	U		<0.019	U		<0.15	U		<0.028	U	
VMP-25	5 ft	VMP-25-5-031511	3/15/2011	<0.12	U		0.46			<0.052	U		<0.082	U		<0.036	U		0.042	J		<0.36	U	UJ	<0.066	U	
		VMP-25-5-040811	4/8/2011	<0.054	U		<0.027	U		<0.023	U		<0.037	U		<0.016	U		0.0071	J		<0.16	U		<0.03	U	
	21 ft	VMP-25-21-031511	3/15/2011	15	J		6.7	J		1.4	J		<16	U		<7	U		27			<70	U		<13	U	
		VMP-25-21-031511-DUP	3/15/2011	27	J		9.3	J		<13	U		<20	U		<8.9	U		16			<90	U		<16	U	
		VMP-25-21-040811	4/8/2011	38	J		17	J		<110	U		<170	U		<74	U		12	J		<750	U		<140	U	
		VMP-25-21-040811-DUP	4/8/2011	<250	U		<120	U		<110	U		<170	U		<75	U		<96	U		<760	U		<140	U	

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

See last page of table for notes.

TABLE 4
SUMMARY OF SOIL VAPOR ANALYTICAL DETECTIONS AND SCREENING RESULTS -
PUBLIC WORKS YARD AND WRR - VOCS

Location	Depth	Sample ID	Sample Date	1,1,2-Trichloroethane			Trichloroethene			Trichlorofluoromethane			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			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-14	5 ft	VMP-14-5	11/20/2009	<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		<0.33	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		0.0016	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		<0.0071	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		<0.0072	J	U	0.0018	J		<0.0066	U		<0.0066	U		0.0042	J		<0.0058	U		<0.0058	U	
	11.5 ft	VMP-14-11.5	11/16/2009	<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		<5.1	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		<0.45	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		<0.43	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		<0.16	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		<0.16	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		<0.025	U		0.0036	J		<0.022	U		21			0.0041	J		<0.019	U	
	20 ft	VMP-14-20	11/16/2009	<65	U		<64	U		<67	U		<58	U		<58	U		160			<52	U		<52	U	
		VMP 14-20-091010	9/10/2010	<79	U		<78	U		<82	U		<72	U		<72	U		250			<63	U		<63	U	
		VMP 14-20-091010-Dup	9/10/2010	<82	U		<81	U		<85	U		<74	U		<74	U		240			<66	U		<66	U	
		VMP-14-20-120110	12/2/2010	<210	U		<210	U		<220	U		<190	U		<190	U		320			<170	U		<170	U	
		VMP-14-20-021811	2/18/2011	<120	U		<120	U		<120	U		<110	U		<110	U		220			<96	U		<96	U	
		VMP-14-20-040511	4/5/2011	<52	U		<51	U		<53	U		<47	U		<47	U		150			<41	U		<41	U	
	29 ft	VMP-14-29	11/16/2009	<250	U		<250	U		<260	U		<230	U		<230	U		370			<200	U		<200	U	
		VMP-14-29-021811	2/18/2011	<180	U		<170	U		<180	U		<160	U		<160	U		320			<140	U		<140	U	
		VMP-14-29-040511	4/5/2011	<150	U		<150	U		<160	U		<140	U		<140	U		280			<120	U		<120	U	
VMP-15	5 ft	VMP-15-5	11/18/2009	<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-15-5-D	11/18/2009	<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 15-5-091410	9/14/2010	<0.0069	U		<0.0068	U		<0.0071	U		<0.0062	U		<0.0062	U		0.028			0.0011	J		<0.0055	U	
		VMP-15-5-113010	11/30/2010	<0.16	U		<0.16	U		<0.17	U		<0.15	U		<0.15	U		56			<0.13	U		<0.13	U	
		VMP-15-5-021611	2/16/2011	<0.15	U		<0.15	U		<0.16	U		0.017	J		<0.14	U		39			0.023	J		<0.12	U	
		VMP-15-5-042011	4/20/2011	<0.36	U		<0.35	U		<0.37	U		<0.32	U		<0.32	U		65			<0.29	U		<0.29	U	
	21.5 ft	VMP-15-21.5	11/18/2009	<3.1	U		<3.1	U		<3.2	U		<2.8	U		<2.8	U		1000			<2.5	U		<2.5	U	
		VMP 15-21.5-091410	9/14/2010	<0.75	U		<0.74	U		<0.77	U		<0.67	U		<0.67	U		300			<0.59	U		<0.59	U	
		VMP-15-21.5-113010	11/30/2010	<0.88	U		<0.86	U		<0.9	U		<0.79	U		<0.79	U		440			<0.7	U		<0.7	U	
		VMP-15-21.5-021611	2/16/2011	<0.61	U		<0.6	U		<0.63	U		<0.55	U		<0.55	U		430			<0.49	U		<0.49	U	
		VMP-15-21.5-042011	4/20/2011	<0.96	U		<0.94	U		<0.99	U		<0.86	U		<0.86	U		580			<0.76	U		<0.76	U	
	25.5 ft	VMP-15-25.5	11/18/2009	<3.2	U		<3.2	U		<3.3	U		<2.9	U		<2.9	U		850			<2.6	U		<2.6	U	
		VMP 15-25.5-091410	9/14/2010	<0.007	U		<0.0069	U		0.001	J		<0.0063	U		<0.0063	U		0.17			<0.0056	U		<0.0056	U	
		VMP-15-25.5-021611	2/16/2011	<0.094	U		<0.092	U		<0.097	U		<0.084	U		<0.084	U		29			<0.075	U		<0.075	U	
		VMP-15-25.5-042011	4/20/2011	<0.077	U		<0.076	U		<0.079	U		<0.069	U		<0.069	U		1.2		J	<0.061	U		<0.061	U	
		VMP-15-25.5-042011-DUP	4/20/2011	<0.072	U		<0.071	U		<0.074	U		<0.065	U		<0.065	U		1.6		J	<0.057	U		<0.057	U	
	29 ft	VMP-15-29	11/19/2009	<4.1	U		<4	U		<4.2	U		<3.7	U		<3.7	U		880			<3.2	U		<3.2	U	
VMP-16	5 ft	VMP-16-5	11/20/2009	<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		2.3	J		<12	U		9300			5.4	J		<10	U	
		VMP-16-5-112910	11/29/2010	<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		<3.5	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		<4.7	U		<4.9	U		<4.3	U		<4.3	U		7900			1	J		<3.8	U	
	13.5 ft	VMP-16-13.5	11/19/2009	<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		<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		<14	U		3	J		<12	U		8000			6.1	J		<11	U	
		VMP-16-13.5-112910	11/29/2010	<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		<7.2	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		<7.1	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		<7.6	U		<8	U		<7	U		<7	U		7600			<6.2	U		<6.2	U	
	19 ft	VMP-16-19	11/19/2009	<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		<14	U		3.8	J		<12	U		10000			8.2	J		<11	U	
		VMP-16-19-112910	11/29/2010	<29	U		<29	U		<30	U		<26	U		<26	U		10000			<23	U		<23	U	
		VMP-16-19-021611	2/16/2011	<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		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		<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		<5.2	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		<5.2	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		<0.0078	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		<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		0.0013	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		0.00099	J		<0.007	U		<0.007	U		1			<0.006	U		<0.006	U	
		VMP-17-5-090110	9/1/2010	<0.0073	U		<0.0072	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		<0.0072	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		0.0028	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		0.0071	J		<0.028	U		<0.025	U		<0.025	U		0.047			<0.022	U		<0.022	U	
VMP-25	5 ft	VMP-25-5-031511	3/15/2011	<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		<0.031	U		<0.027	U		<0.027	U		0.73			<0.024	U		<0.024	U	
	21 ft	VMP-25-21-031511	3/15/2011	<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		<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		<120	U		<120	U		<120	U		16	J		<110	U	
		VMP-25-21-040811-DUP	4/8/2011	<140	U		<140	U		<140	U		<120	U		<120	U		<120	U		14	J		<110	U	

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

See last page of table for notes.

TABLE 5
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-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		
	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		
	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
	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		
	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		
	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		
	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		0.00094	J		<0.0024	U		0.57			3.9			88			2.6		
		VMP-3-5-041411	4/14/2011	9.8			<0.026	U		0.0053			<0.0026	U		0.48			15			71			1.6		
	10 ft	VMP-3-10	6/21/2010	7.9			<0.03	U		0.01			<0.003	U		<0.15	U		26			60			1.3		
		VMP 3-10-091010	9/10/2010	9.2			<0.024	U		0.012			<0.0024	U		<0.12	U		28			56			1.1		
		VMP-3-10-092010	9/20/2010	8.3			<0.025	U		0.011			<0.0025	U		<0.12	J	U	26			58			2.9		
		VMP-3-10-112210	11/22/2010	8.7			<0.026	U		0.011			<0.0026	U		0.044	J		25			60			1.6		
		VMP-3-10-112210-Dup	11/22/2010	8.3			<0.026	U		0.0098			<0.0026	U		0.018	J		23			61			2.6		
		VMP-3-10-020811	2/8/2011	8.2			<0.023	U		0.0072			<0.0023	U		0.1	J		18			68			1.8		
		VMP-3-10-041311	4/13/2011	8.2			<0.027	U		0.0092			<0.0027	U		0.098	J		22			64			1.2		
	22 ft	VMP-3-22	11/4/2009	8.7			<0.023	U		0.012			<0.0023	U		<0.12	U		25			58			1.1		
		VMP-3-22-092010	9/20/2010	8			<0.024	U		0.013			<0.0024	U		<0.12	J	U	<0.00024	U		52			1.1		
		VMP-3-22-112210	11/22/2010	8.2			<0.023	U		0.011			<0.0023	U		0.02	J		28			56			1.3		
		VMP-3-22-020811	2/8/2011	7.9			<0.045	U		0.013			<0.0045	U		0.013	J		25			60			1.6		
		VMP-3-22-041511	4/15/2011	7.8			<0.025	U		0.012			<0.0025	U		0.028	J		29			56			1.2		
	31.5 ft	VMP-3-31.5	11/4/2009	5.6			<0.025	U		0.02			<0.0025	U		<0.12	U		43			36			0.77		
		VMP-3-31.5-090910	9/9/2010	4.4			<0.021	U		0.017			<0.0021	U		0.018	J		47			30			1.3		
		VMP-3-31.5-112210	11/22/2010	4.9			<0.026	U		0.017			<0.0026	U		0.024	J		47			32			1.1		
		VMP-3-31.5-020911	2/9/2011	6.4			<0.02	U		0.014			<0.002	U		0.016	J		37			46			2		
		VMP-3-31.5-041411	4/14/2011	5.7			<0.025	U		0.016			<0.0025	U		0.019	J		48			33			0.86		
		VMP-3-31.5-041411-DUP	4/14/2011	5.7			<0.025	U		0.016			<0.0025	U		0.066	J		48			32			1		
	39 ft	VMP-3-39	11/4/2009	5.6			<0.025	U		0.021			<0.0025	U		<0.12	U		45			33			0.79		
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		
	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		
	23.5 ft	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		
		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		
	39 ft	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		

See last page of table for notes.

TABLE 5
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-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		
	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-5-31	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-5-40	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		
	10 ft	VMP-6-10	11/6/2009	14			<0.026	U		<0.0026	U		<0.0026	U		<0.13	U		4.2			78			2.7		
		VMP-6-10-090810	9/8/2010	15			<0.024	U		0.0012	J		<0.0024	U		<0.12	J	U	3.6			80			1.3		
		VMP-6-10-111710	11/17/2010	9.8			<0.026	U		<0.0026	U		<0.0026	U		0.092	J		<0.00026	U		82			8.5		
		VMP-6-10-020711	2/7/2011	8.5			<0.025	U		<0.0025	U		<0.0025	U		0.67			<0.00025	U		82			9.2		
		VMP-6-10-040811	4/8/2011	11			<0.03	U		<0.003	U		<0.003	U		0.04	J		0.00028	J		84			5		
	31.5 ft	VMP-6-31.5	11/9/2009	14			<0.022	U		0.003			<0.0022	U		<0.11	U		7.7			75			1.4		
		VMP-6-31.5-090810	9/8/2010	14			<0.026	U		0.0032			<0.0026	U		<0.13	U		8.6			74			1.2		
		VMP-6-31.5-111710	11/17/2010	13			<0.025	U		0.003			<0.0025	U		0.012	J		7.5			76			1.4		
		VMP-6-31.5-020711	2/7/2011	13			<0.024	U		0.0023	J		<0.0024	U		0.01	J		5.9			78			1.5		
		VMP-6-31.5-041111	4/11/2011	13			<0.028	U		0.0021	J		<0.0028	U		0.08	J		5.2			80			1.5		
	39 ft	VMP-6-39	11/9/2009	15			<0.023	U		0.0033			<0.0023	U		<0.11	U		8.3			73			1.3		
		VMP-6-39-041111	4/11/2011	12			<0.027	U		0.0022	J		<0.0027	U		0.083	J		5.2			77			3.9		
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		
	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		
	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		
	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		
	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-8-23.5	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-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		

See last page of table for notes.

TABLE 5
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-9	5 ft	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		
		VMP-9-5-040611	4/6/2011	10			<0.061	U		<0.0061	U		<0.0061	U		0.034	J		<0.00061	U		83			6.8		
	11.5 ft	VMP-9-11.5	11/11/2009	12			<0.028	U		<0.0028	U		<0.0028	U		2.5			<0.00028	U		79			6.5		
		VMP-9-11.5-082610	8/26/2010	15			<0.026	U		0.00015	J		<0.0026	U		0.042	J		1.8			82			1.4		
		VMP-9-11.5-111910	11/19/2010	16			<0.027	U		<0.0027	U		<0.0027	U		0.021	J		1.5			81			1.6		
		VMP-9-11.5-020911	2/9/2011	10			<0.027	U		<0.0027	U		<0.0027	U		0.024	J		<0.00027	U		83			7		
		VMP-9-11.5-020911-DUP	2/9/2011	9.9			<0.021	U		<0.0021	U		<0.0021	U		0.0097	J		<0.00021	U		82			8.4		
		VMP-9-11.5-040611	4/6/2011	13			<0.059	U		<0.0059	U		<0.0059	U		0.035	J		0.0025			84			3.2		
	25.5 ft	VMP-9-25.5	11/10/2009	17			<0.022	U		<0.0022	U		<0.0022	U		<0.11	U		3.8			78			1.2		
		VMP-9-25.5-D	11/10/2009	16			<0.025	U		<0.0025	U		<0.0025	U		<0.12	U		3.8			79			1.3		
		VMP-9-25.5-082610	8/26/2010	14			<0.024	U		0.00042	J		<0.0024	U		0.012	J	J	4.3			80			1.7		
		VMP-9-25.5-082610-DUP	8/26/2010	14			<0.026	U		0.0004	J		<0.0026	U		0.04	J	J	4.3			80			1.5		
		VMP-9-25.5-111910	11/19/2010	15			<0.028	U		0.0002	J		<0.0028	U		<0.14	U		3			80			1.6		
		VMP-9-25.5-020911	2/9/2011	15			<0.025	U		<0.0025	U		<0.0025	U		0.011	J		0.98			83			1.3		
		VMP-9-25.5-040811	4/8/2011	12			<0.026	U		<0.0026	U		<0.0026	U		9.2			0.64			75			3.3		
	38.5 ft	VMP-9-38.5	11/10/2009	17			<0.022	U		<0.0022	U		<0.0022	U		<0.11	U		3.2			78			1.2		
		VMP-9-38.5-020911	2/9/2011	16			<0.021	U		0.00011	J		<0.0021	U		<0.1	U		1.4			81			1.5		
		VMP-9-38.5-040811	4/8/2011	15			<0.028	U		<0.0028	U		<0.0028	U		0.11	J		1.1			82			1.6		
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		
	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		
	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		
	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		
	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		
	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		
	38 ft	VMP-11-38	11/18/2009	16			<0.03	U		<0.003	U		<0.003	U		<0.15	U		0.35			81			1.8		
VMP-12	5 ft	VMP-12-5	11/13/2009	14			<0.025	U		<0.0025	U		<0.0025	U		<0.13	U		33			50			0.9		
		VMP-12-5-090310	9/3/2010	12			<0.027	U		0.0012	J		<0.0027	U		<0.13	U		36			49			0.97		
		VMP-12-5-120310	12/3/2010	13			<0.021	U		0.001	J		<0.0021	U		0.0086	J		36			47			1.3		
		VMP-12-5-021511	2/15/2011	7.6			<0.024	U		0.00044	J		<0.0024	U		0.021	J		18			72			1.6		
		VMP-12-5-041911	4/19/2011	7.4			<0.029	U		0.00088	J		<0.0029	U		0.023	J		31			59			1.4		
	11.5 ft	VMP-12-11.5	11/13/2009	14			<0.022	U		<0.0022	U		<0.0022	U		<0.11	U		34			49			0.84		
		VMP-12-11.5-090310	9/3/2010	13			<0.028	U		0.0011	J		<0.0028	U		<0.14	U		38			46			1.1		
		VMP-12-11.5-120310	12/3/2010	11			<0.021	U		0.00072	J		<0.0021	U		0.039	J		27			58			2.5		
		VMP-12-11.5-021511	2/15/2011	9.1			<0.027	U		0.00099	J		<0.0027	U		0.022	J		35			53			1.5		
		VMP-12-11.5-021511-DUP	2/15/2011	8.6			<0.023	U		0.00094	J		<0.0023	U		0.04	J		34			54			2.3		
		VMP-12-11.5-041911	4/19/2011	9.2			<0.026	U		0.0011	J		<0.0026	U		0.023	J		37			50			1.6		
	25 ft	VMP-12-25	11/13/2009	14			<0.023	U		<0.0023	U		<0.0023	U		<0.11	U		33			49			0.84		
		VMP-12-25-090310	9/3/2010	13			<0.026	U		0.0012	J		<0.0026	U		<0.13	J	U	36			47			0.99		
		VMP-12-25-120310	12/3/2010	13			<0.022	U		0.000091	J		<0.0022	U		<0.11	U		4.8			80			1.5		
		VMP-12-25-021511	2/15/2011	13			<0.027	U		0.00089	J		<0.0027	U		0.026	J		32			52			1.4		
		VMP-12-25-041911	4/19/2011	13			<0.028	U		0.00097	J		<0.0028	U		0.032	J		35			49			1.1		
	39 ft	VMP-12-39	11/13/2009	14			<0.024	U		<0.0024	U		<0.0024	U		<0.12	U		32			50			0.95		
		VMP-12-39-041911	4/19/2011	13			<0.03	U		0.0014	J		<0.003	U		0.014	J		42			42			1		

See last page of table for notes.

TABLE 5
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-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		
	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-DUP	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-13-21.5	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		
	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		
	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		
	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		
		VMP-14-20-040511	4/5/2011	14			<0.053	U		0.006			<0.0053	U		0.028	J		12			68			4		
	29 ft	VMP-14-29	11/16/2009	17			<0.023	U		0.0073			<0.0023	U		<0.12	U		18			60			1		
		VMP-14-29-021811	2/18/2011	16			<0.026	U		0.0062			<0.0026	U		0.61			13			66			1.6		
		VMP-14-29-040511	4/5/2011	16			<0.028	U		0.0058			<0.0028	U		0.025	J		13			67			1.3		
VMP-15	5 ft	VMP-15-5	11/18/2009	13			<0.025	U		<0.0025	U		<0.0025	U		<0.13	U		<0.00025	U		82			4.8		
		VMP-15-5-D	11/18/2009	13			<0.025	U		<0.0025	U		<0.0025	U		<0.13	U		<0.00025	U		82			4.8		
		VMP 15-5-091410	9/14/2010	17			<0.025	U		<0.0025	U		<0.0025	U		<0.13	J	U	0.00012	J		80			3		
		VMP-15-5-113010	11/30/2010	15			<0.024	U		0.00077	J		<0.0024	U		0.04	J		1.3			82			1.5		
		VMP-15-5-021611	2/16/2011	10			<0.028	U		<0.0028	U		<0.0028	U		0.022	J		0.069			85			4.9		
		VMP-15-5-042011	4/20/2011	15			<0.026	U		<0.0026	U		<0.0026	U		0.04	J		0.056			83			1.9		
	21.5 ft	VMP-15-21.5	11/18/2009	18			<0.023	U		0.012			<0.0023	U		<0.11	U		19			60			1.2		
		VMP 15-21.5-091410	9/14/2010	17			<0.025	U		0.012			<0.0025	U		1			13			66			2.3		
		VMP-15-21.5-113010	11/30/2010	19			<0.024	U		0.0085			<0.0024	U		0.22			11			68			1.3		
		VMP-15-21.5-021611	2/16/2011	18			<0.027	U		0.0034			<0.0027	U		0.0097	J		5.4			75			1.6		
		VMP-15-21.5-042011	4/20/2011	18			<0.028	U		0.0055			<0.0028	U		0.022	J		8.3			72			1.5		
	25.5 ft	VMP-15-25.5	11/18/2009	17			<0.024	U		0.014			<0.0024	U		<0.12	U		20			60			1.1		
		VMP 15-25.5-091410	9/14/2010	7.1			<0.067	U		<0.0067	U		<0.0067	U		5.3			0.013			74			14		
		VMP-15-25.5-021611	2/16/2011	7.6			<0.026	U		0.0004	J		<0.0026	U		4.3			0.6			79			8.5		
		VMP-15-25.5-042011	4/20/2011	3.9			<0.028	U		<0.0028	U		<0.0028	U		9.9			0.0012			71			15		
		VMP-15-25.5-042011-DUP	4/20/2011	3.7			<0.026	U		<0.0026	U		<0.0026	U		9.5			0.0071			72			15		
	29 ft	VMP-15-29	11/19/2009	17			<0.024	U		0.014			<0.0024	U		<0.12	U		20			60			1.2		
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		
	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		
	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		

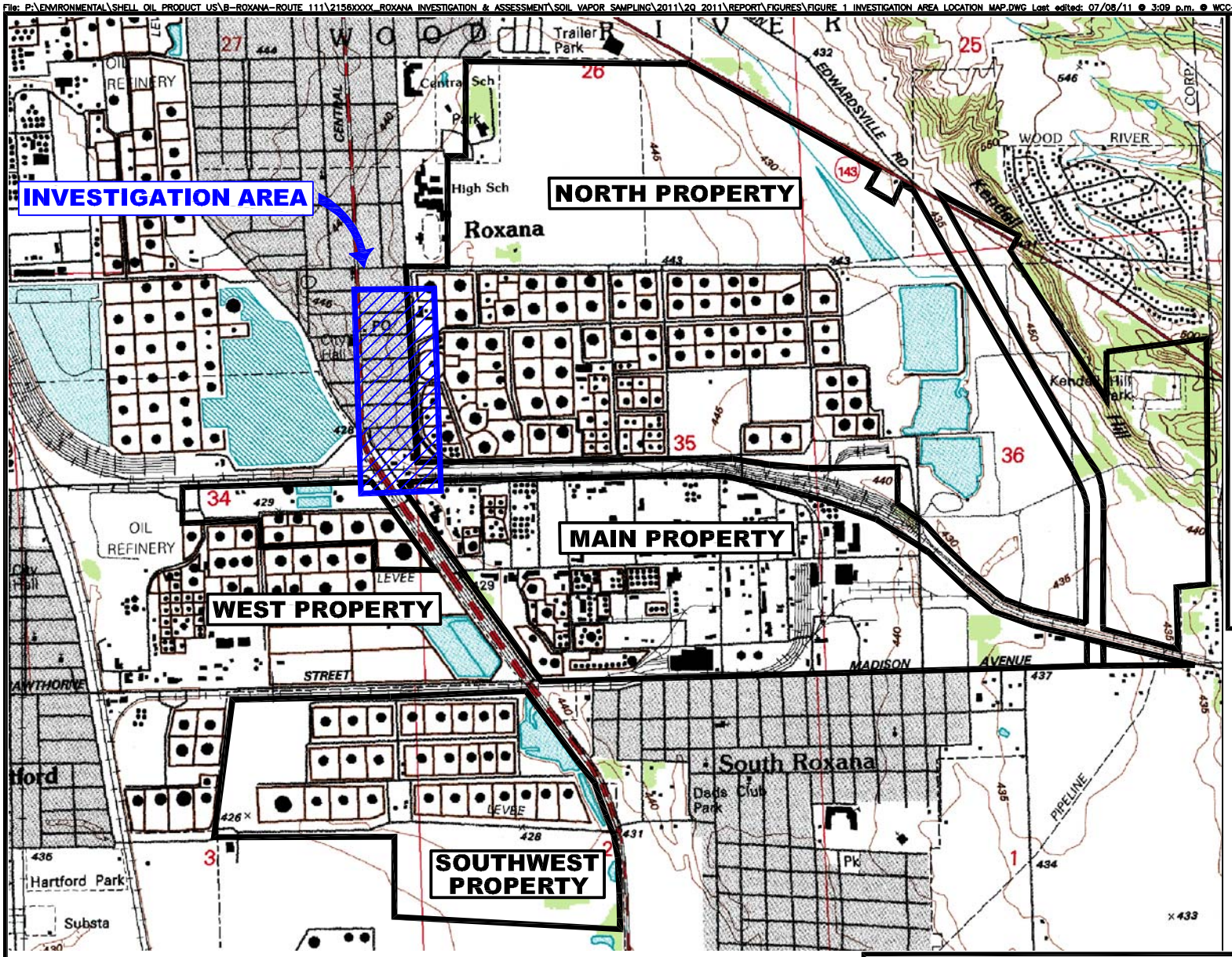
See last page of table for notes.

TABLE 5
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-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-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-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-20	5 ft	VMP-20-5-031411	3/14/2011	9.3			<0.024	U		<0.0024	U		<0.0024	U		0.012	J		0.00017	J		83			7.9		
		VMP-20-5-041511	4/15/2011	6.9			<0.027	U		<0.0027	U		<0.0027	U		0.045	J		0.0014			83			9.7		
	10 ft	VMP-20-10-031411	3/14/2011	6.8			<0.024	U		<0.0024	U		<0.0024	U		<0.12	U		0.000065	J		83			10		
		VMP-20-10-041511	4/15/2011	7.3			<0.024	U		<0.0024	U		<0.0024	U		0.039	J		0.0001	J		83			9.3		
	25 ft	VMP-20-25-031411	3/14/2011	9.4			<0.024	U		<0.0024	U		<0.0024	U		0.0059	J		<0.00024	U		87			3.2		
		VMP-20-25-041511	4/15/2011	9.8			<0.028	U		<0.0028	U		<0.0028	U		0.042	J		<0.00028	U		88			2.6		
VMP-21	5 ft	VMP-21-5-020911	2/9/2011	5.2			<0.023	U		0.00039	J		<0.0023	U		0.01	J		0.91			84			9.2		
		VMP-21-5-020911-DUP	2/9/2011	5.3			<0.024	U		0.00045	J		<0.0024	U		<0.12	U		0.91			84			9.2		
		VMP-21-5-041311	4/13/2011	2			<0.026	U		<0.0026	U		<0.0026	U		0.16			0.00056			81			17		
	10 ft	VMP-21-10-021011	2/10/2011	6.4			<0.025	U		0.00019	J		<0.0025	U		0.3			0.41			83			9.7		
		VMP-21-10-041311	4/13/2011	7.2			<0.026	U		<0.0026	U		<0.0026	U		0.021	J		0.00032			83			9.6		
	25 ft	VMP-21-25-021011	2/10/2011	6.4			<0.023	U		0.0017	J		<0.0023	U		0.0092	J		3.6			87			1.5		
		VMP-21-25-041411	4/14/2011	6.1			<0.026	U		0.0018	J		<0.0026	U		0.023	J		3.9			86			1.7		
		VMP-21-25-041411-DUP	4/14/2011	6.1			<0.026	U		0.0018	J		<0.0026	U		0.063	J		3.9			86			1.9		
	33 ft	VMP-21-33-021011	2/10/2011	5.8			<0.023	U		0.0015	J		<0.0023	U		0.15			3.7			86			1.9		
		VMP-21-33-041411	4/14/2011	6			<0.027	U		0.0018	J		<0.0027	U		0.026	J		4			86			1.6		
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		
	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		
	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		
	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		
	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		
	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-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		
	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		
	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		
	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-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		
	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		

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

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\21562XXXX_ROXANA INVESTIGATION & ASSESSMENT\SOIL VAPOR SAMPLING\2011\2Q 2011\REPORT\FIGURES\FIGURE 1 INVESTIGATION AREA LOCATION MAP.DWG Last edited: 07/08/11 @ 3:09 p.m. @ WCC-ST.LOUIS



CONOCOPHILLIPS COMPANY
WOOD RIVER REFINERY

SITE VICINITY MAP
SCALE: 1IN = 8 MILES

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

N

SHELL OIL PRODUCTS US
ROXANA, ILLINOIS

PROJECT NO.
21562593

URS

DRN. BY: djd July 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 INVESTIGATION & ASSESSMENT\SOIL VAPOR SAMPLING\2011\2Q 2011\REPORT\FIGURES\FIGURE 2 VAPOR MONITORING POINT LOCATIONS.DWG Last edited: JUL. 08, 11 @ 3:11 p.m. by: david_deguire

LEGEND

VAPOR MONITORING POINT LOCATION

WRR PROPERTY BOUNDARY

TYDEMAN AVE

FIRST ST

SECOND ST

THIRD ST

FOURTH ST

FIFTH ST

SIXTH ST

SEVENTH ST

EIGHTH ST

RAND AVENUE

(S. CENTRAL AVE) HIGHWAY 111

CHAFFER ST

VILLAGE OF ROXANA

NORTH PROPERTY

VILLAGE

BP

WOOD RIVER REFINERY

PUBLIC WORKS YARD

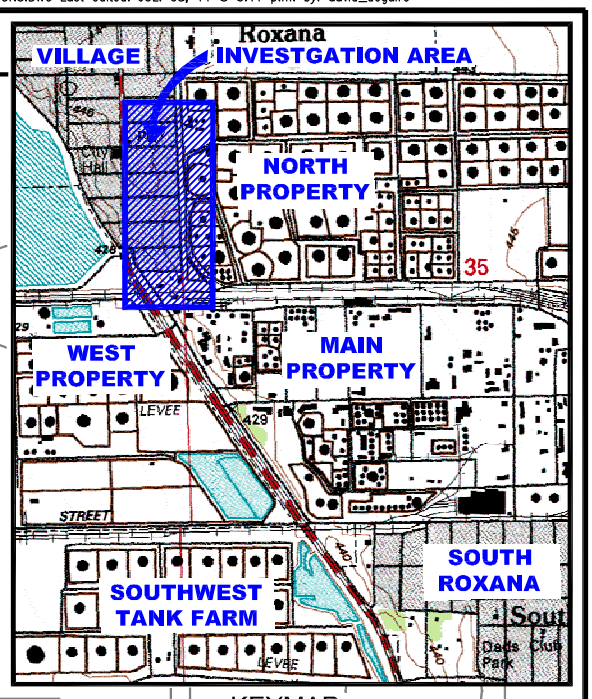
1986 APPROXIMATE BENZENE RELEASE SITE

A-28

A-33

A-27

VMP-1
VMP-2
VMP-3
VMP-4
VMP-5
VMP-6
VMP-7
VMP-8
VMP-9
VMP-10
VMP-11
VMP-12
VMP-13
VMP-14
VMP-15
VMP-16
VMP-17
VMP-18
VMP-19
VMP-20
VMP-21
VMP-22
VMP-23
VMP-24
VMP-25



KEYMAP
1" = 2,500'

0 200
SCALE FEET

N

SHELL OIL PRODUCTS US ROXANA, ILLINOIS	PROJECT NO. 21562593
URS	
DRN. BY:mpm July 2011 DSGN. BY:djd CHKD. BY:tja	Vapor Monitoring Point Locations FIG. NO. 2

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\2156XXXX_ROXANA INVESTIGATION & ASSESSMENT\SOIL VAPOR SAMPLING\2011\2Q 2011\REPORT\FIGURES\FIGURE 3 VAPOR PORT SCREEN COMPARISON TO GW ELEVATIONS.DWG Last edited: JUL. 08, 11 @ 3:14 p.m. by: david_deguire

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)
- WRR PROPERTY BOUNDARY

NOTES:

WATER LEVELS WERE OBTAINED DURING A COMPREHENSIVE GAUGING EVENT ON APRIL 4, 2011.

1. CONTOUR LINES PRIMARILY GENERATED BY SURFER VERSION 8 MODELING. SOME INTERPRETATION WAS DONE UTILIZING PROFESSIONAL JUDGMENT AND CONTOUR LINES WERE MODIFIED BY HAND.
2. GROUNDWATER ELEVATIONS IN WELLS WHERE PRODUCT WAS ENCOUNTERED WERE CORRECTED BY A SPECIFIC GRAVITY OF 0.74.

406
405
404
403
406

P-84A
P-84B
P-84C
P-84D

TYDEMAN AVE
FIRST ST
SECOND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
RAND AVENUE
VILLAGE
CHAFFER ST
(S. CENTRAL AVE) HIGHWAY 111

T-13 404.44
T-1
T-2 404.87
MW-9 NM
MW-10 404.65
VMP-1 404.70
P-55 404.04
VMP-20 404.17
VMP-2 401.56
ROST-3-PZ 403.96
ROST-4-PZ 404.60
P-60-11 403.78
P-60-12 403.44
P-60-12S
P-60 403.51
P-68 403.39
A-28
T-24 403.57
A-33
VMP-3 403.22
P-60-13 403.37
P-60-13S
P-54 404.05
MW-11 404.18
VMP-21 409.43
T-12 402.83
P-69 402.97
P-70 403.52
P-62 404.04
A-27
VMP-22 407.15
VMP-4 404.09
P-61 403.24
P-74 403.30
P-59 403.38
MW-12 404.29
VMP-23 404.14
VMP-5 404.59
P-56 403.70
MW-2 (B-2) 404.26
MW-1 (B-1) 404.38
VMP-6 405.18
VMP-7 405.68
T-6 405.22
P-71 405.32
MW-4 (B-4) 404.73
VMP-24 407.53
P-57 404.47
VMP-8 406.15
VMP-9 405.73
MW-3 (B-3) 404.70
MW-7 (B-7) 404.82
VMP-18 ~434
VMP-19 ~438
P-93A 404.66
P-93B
P-93C
P-93D
P-73 404.55
MW-5 (B-5) 404.88
VMP-10 404.72
VMP-11 405.46
VMP-12 405.46
VMP-17 ~438.5
P-58 404.98
MW-8 (B-8) 404.82
VMP-13 406.03
VMP-14 405.94
VMP-25 400.77
VMP-15 404.46
P-66 405.14
VMP-16 405.95
P-75 405.22
MW-13 405.36
MW-6 (B-6) 405.43
P-114 405.19
P-117 404.90
P-116 404.96
P-115 405.26
P-119 405.64
T-64 NM
T-63 405.57
T-62 405.76

1986 APPROXIMATE BENZENE RELEASE SITE

BP

WOOD RIVER REFINERY

WEST PROPERTY

0 300
SCALE FEET
N

SHELL OIL PRODUCTS US ROXANA, ILLINOIS		PROJECT NO. 21562593
URS		
DRN. BY:mpm July 2011 DSGN. BY:djd CHKD. BY:tja	Vapor Port Screen Comparison to Groundwater Elevations	FIG. NO. 3

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\2156XXXX_ROXANA INVESTIGATION & ASSESSMENT\SOIL VAPOR SAMPLING\2011\2Q 2011\REPORT\FIGURES\FIGURE 4 SUMMARY OF BENZENE SOIL VAPOR ANALYTICAL RESULTS (VILLAGE).DWG Last edited: JUL. 15, 11 @ 09:39 a.m. by: david_deguire

LEGEND

- VAPOR MONITORING POINT LOCATION
- BENZENE CONCENTRATION > SCREENING CRITERION (0.37 mg/m³, RESIDENTIAL, OR 2.8 mg/m³ COMMERCIAL)
- WRR PROPERTY BOUNDARY

NOTES:

1. SOIL VAPOR SAMPLES WERE ANALYZED FOR VOC'S VIA EPA METHOD TO-15 AND NATURAL GASES VIA ASTM METHOD D-1946. ANALYTICAL RESULTS FOR BENZENE ONLY ARE SHOWN ON THIS FIGURE.
2. SCREEN SUBMERGED BELOW WATER TABLE. NO SAMPLE COLLECTED.
3. J = RESULT IS ESTIMATED
   < = NOT DETECTED AT INDICATED REPORTING LIMIT.
4. MULTIPLE RESULTS (e.g., 440/410) INDICATE DUPLICATE SAMPLES).
5. VMPs 20-25 INSTALLED AND FIRST SAMPLED IN 1Q11.

TYDEMAN AVE

FIRST ST

SECOND ST

THIRD ST

FOURTH ST

FIFTH ST

SIXTH ST

SEVENTH ST

EIGHTH ST

RAND AVENUE

(S. CENTRAL AVE) HIGHWAY 111

CHAFFER ST

NORTH PROPERTY

WOOD RIVER REFINERY

VILLAGE

BP

PUBLIC WORKS YARD

1986 APPROXIMATE BENZENE RELEASE SITE

A-28

VMP-1 VMP-2 VMP-3 VMP-4 VMP-5 VMP-6 VMP-7 VMP-8 VMP-9 VMP-10 VMP-11 VMP-12 VMP-13 VMP-14 VMP-15 VMP-16 VMP-17 VMP-18 VMP-19 VMP-20 VMP-21 VMP-22 VMP-23 VMP-24 VMP-25

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-20	5 ft			0.27	0.037 J
	10 ft			0.21	0.046
	25 ft			0.0022 J	< 0.044
	39.5 ft			Not Sampled[2]	Not Sampled[2]

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-1	5 ft	0.044	0.0069 J	0.14 J	0.6
	8.5 ft	0.0079 J	0.0035 J / 0.0034 J	0.26 J	0.31
	23.5 ft	1.4	0.0014 J	<3.7	< 0.61 / <0.77
	38.5 ft	Not Sampled[2]	Not Sampled[2]	Not Sampled[2]	Not Sampled[2]

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-2	5 ft	0.89 J	<2.1	<0.55	0.33
	8.5 ft	1.4	<4.0	<1.4	1.1
	22 ft	1.7 J	<4.2	0.75 J	1 J
	42 ft	Not Sampled[2]	Not Sampled[2]	Not Sampled[2]	Not Sampled[2]

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-3	5 ft	7.8	2.8 J	<1.9	<21
	10 ft	14 / 9J	18 / 15	13	<36
	22 ft	34	36	26	26 J
	31.5 ft	210	180	100	100 J / 89 J
	39 ft	Not Sampled[2]	Not Sampled[2]	Not Sampled[2]	Not Sampled[2]

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-4	5 ft	0.27	41 / 11	2.3	22 J
	12 ft	28	15	5.2	38
	23.5 ft	490 J	510	340	440 / 410
	39 ft	Not Sampled[2]	Not Sampled[2]	Not Sampled[2]	470

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-5	5 ft	7.6 J	9.1	0.024	0.88
	12.5 ft	11	0.54	<0.63	0.71
	31 ft	200	180	74	66
	40 ft	Not Sampled[2]	Not Sampled[2]	Not Sampled[2]	64 J

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-6	5 ft	1	9	0.0033 J	2.4
	10 ft	2.9 J	0.0053	0.0084	2
	31.5 ft	29	30	30	18
	39 ft	Not Sampled[2]	Not Sampled[2]	Not Sampled[2]	16

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-7	5 ft	0.012	0.001 J	0.041	1.6
	13.5 ft	0.15	1.3	0.027	1.7
	29.5 ft	86 J	62	60	40 J
	38 ft	Not Sampled[2]	Not Sampled[2]	57	24 J

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-9	5 ft	0.0088	< 0.0038	<0.0035	0.11
	11.5 ft	0.16	0.110 J	<0.0043 / <0.0033	0.025
	25.5 ft	3.2 / 3.3	1.9	0.079 J	0.82
	38.5 ft	Not Sampled[2]	Not Sampled[2]	0.89	4

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-19	5 ft	0.019	0.0092	0.015	0.76

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-21	5 ft			<1.5 / <2.5	0.84
	10 ft			<1.3	0.066 J
	25 ft			1.7 J	<13 / <13
	33 ft			1.8 J	<12

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-22	5 ft			0.029 J	0.024 J
	10 ft			0.021 J	0.12
	18 ft			0.67 J	1 J
	38 ft			Not Sampled[2]	<0.088

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-23	5 ft			0.023	<0.036
	10 ft			0.0014 J	0.28
	25 ft			0.018	1.6
	40 ft			Not Sampled[2]	Not Sampled[2]

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-24	5 ft			0.019	5
	10 ft			1.4	2.5
	22 ft			0.95	0.013
	34 ft			0.084	0.0072

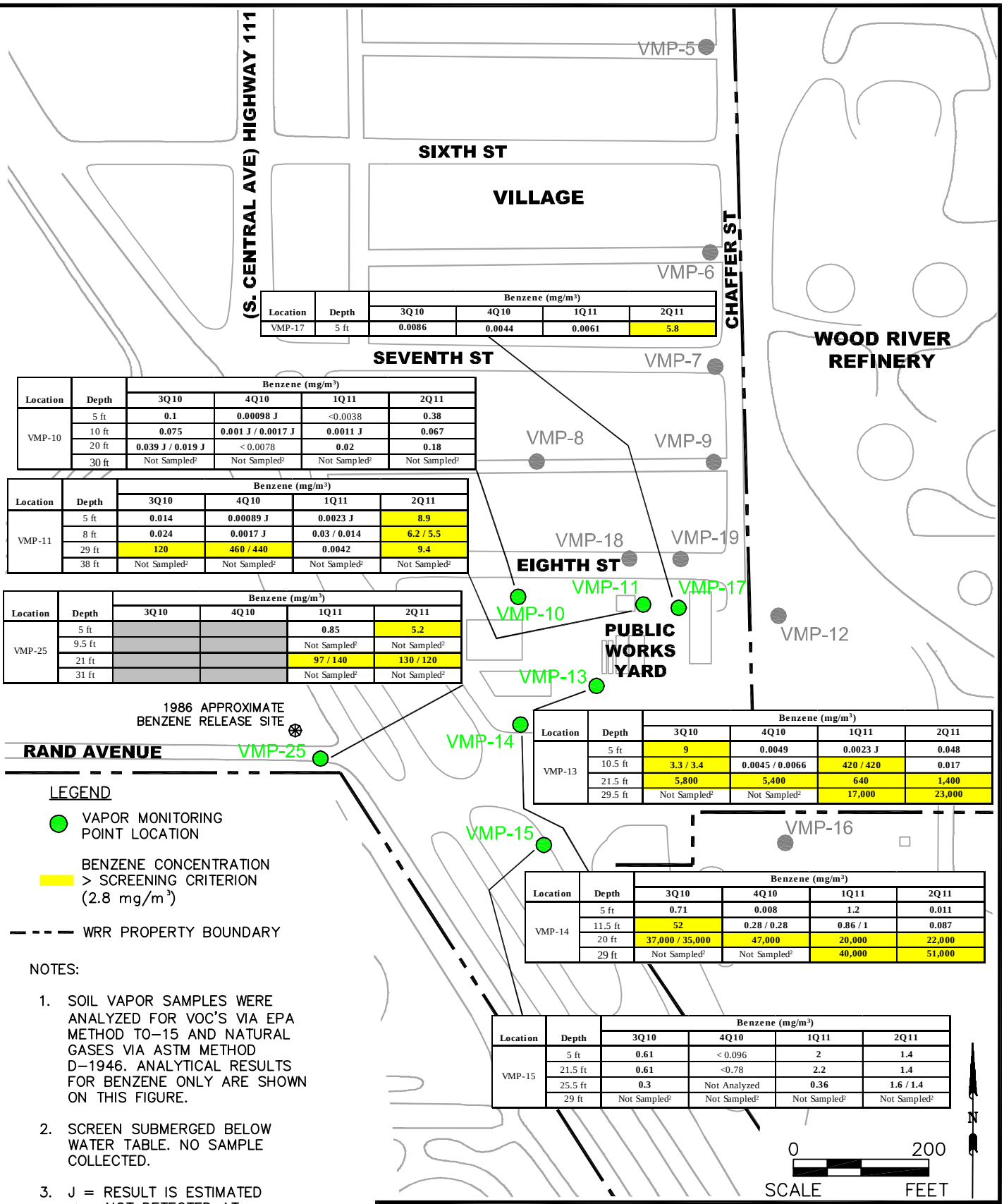
Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-8	5 ft	0.021	<0.0037	0.014	1.2
	8.5 ft	0.015 J / 0.012 J	0.0025 J	<0.004	0.93
	23.5 ft	0.013	2.9 J	0.0079	1.2 J / 0.73 J
	35.5 ft	Not Sampled[2]	Not Sampled[2]	Not Sampled[2]	Not Sampled[2]

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-18	8.5 ft	0.093	< 0.0034	0.0024 J / 0.0013 J	0.084

0 200 SCALE FEET

N

SHELL OIL PRODUCTS US ROXANA, ILLINOIS	PROJECT NO. 21562593
URS	
DRN. BY: mpm July 2011 DSGN. BY: djd CHKD. BY: tja	Summary of Benzene Soil Vapor Analytical Results – Village FIG. NO. 4



Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-17	5 ft	0.0086	0.0044	0.0061	5.8

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-10	5 ft	0.1	0.00098 J	<0.0038	0.38
	10 ft	0.075	0.001 J / 0.0017 J	0.0011 J	0.067
	20 ft	0.039 J / 0.019 J	< 0.0078	0.02	0.18
	30 ft	Not Sampled[2]	Not Sampled[2]	Not Sampled[2]	Not Sampled[2]

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-11	5 ft	0.014	0.00089 J	0.0023 J	8.9
	8 ft	0.024	0.0017 J	0.03 / 0.014	6.2 / 5.5
	29 ft	120	460 / 440	0.0042	9.4
	38 ft	Not Sampled[2]	Not Sampled[2]	Not Sampled[2]	Not Sampled[2]

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-25	5 ft			0.85	5.2
	9.5 ft			Not Sampled[2]	Not Sampled[2]
	21 ft			97 / 140	130 / 120
	31 ft			Not Sampled[2]	Not Sampled[2]

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-13	5 ft	9	0.0049	0.0023 J	0.048
	10.5 ft	3.3 / 3.4	0.0045 / 0.0066	420 / 420	0.017
	21.5 ft	5,800	5,400	640	1,400
	29.5 ft	Not Sampled[2]	Not Sampled[2]	17,000	23,000

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-14	5 ft	0.71	0.008	1.2	0.011
	11.5 ft	52	0.28 / 0.28	0.86 / 1	0.087
	20 ft	37,000 / 35,000	47,000	20,000	22,000
	29 ft	Not Sampled[2]	Not Sampled[2]	40,000	51,000

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-15	5 ft	0.61	< 0.096	2	1.4
	21.5 ft	0.61	<0.78	2.2	1.4
	25.5 ft	0.3	Not Analyzed	0.36	1.6 / 1.4
	29 ft	Not Sampled[2]	Not Sampled[2]	Not Sampled[2]	Not Sampled[2]

NOTES:

1. SOIL VAPOR SAMPLES WERE ANALYZED FOR VOC'S VIA EPA METHOD TO-15 AND NATURAL GASES VIA ASTM METHOD D-1946. ANALYTICAL RESULTS FOR BENZENE ONLY ARE SHOWN ON THIS FIGURE.
2. SCREEN SUBMERGED BELOW WATER TABLE. NO SAMPLE COLLECTED.
3. J = RESULT IS ESTIMATED
   < = NOT DETECTED AT INDICATED REPORTING LIMIT.
4. MULTIPLE RESULTS (e.g., 440/410) INDICATE DUPLICATE SAMPLES).
5. VMPs 20-25 INSTALLED AND FIRST SAMPLED IN 1Q11.

SHELL OIL PRODUCTS US
ROXANA, ILLINOIS

PROJECT NO. 21562593

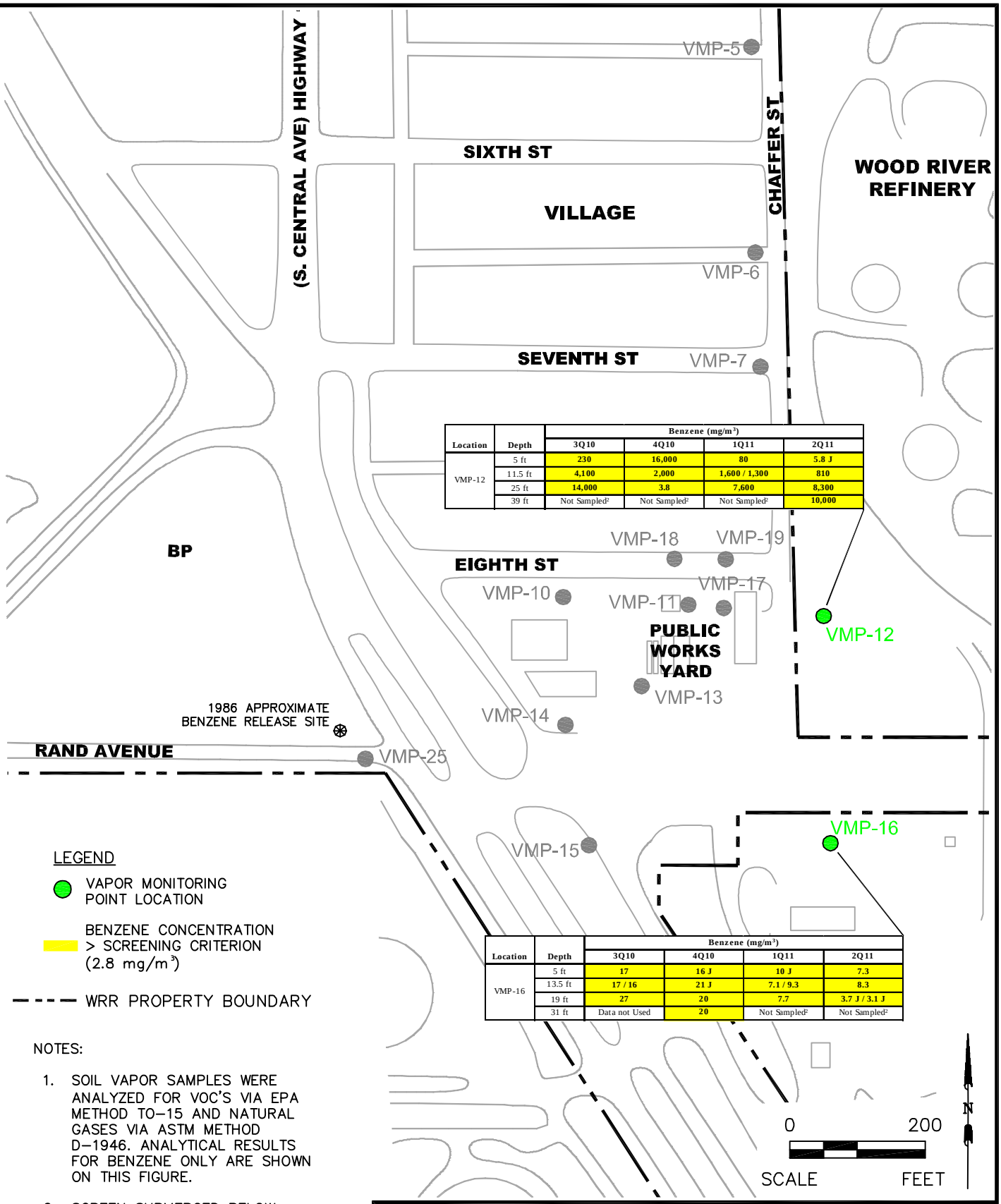
URS

DRN. BY: mpm July 2011
DSGN. BY: djd
CHKD. BY: tja

Summary of Benzene Soil Vapor Analytical Results- Public Works Yard

FIG. NO. 5

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\21562XXXX_ROXANA INVESTIGATION & ASSESSMENT\SOIL VAPOR SAMPLING\2011\2Q 2011\REPORT\FIGURES\FIGURE 5 SUMMARY OF BENZENE SOIL VAPOR ANALYTICAL RESULTS (PUBLIC WORKS YARD).DWG Last edited: JUL. 15, 11 @ 08:42 a.m. by: david_deguire



Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-12	5 ft	230	16,000	80	5.8 J
	11.5 ft	4,100	2,000	1,600 / 1,300	810
	25 ft	14,000	3.8	7,600	8,300
	39 ft	Not Sampled[2]	Not Sampled[2]	Not Sampled[2]	10,000

Location	Depth	Benzene (mg/m³) 3Q10	4Q10	1Q11	2Q11
VMP-16	5 ft	17	16 J	10 J	7.3
	13.5 ft	17 / 16	21 J	7.1 / 9.3	8.3
	19 ft	27	20	7.7	3.7 J / 3.1 J
	31 ft	Data not Used	20	Not Sampled[2]	Not Sampled[2]

NOTES:

1. SOIL VAPOR SAMPLES WERE ANALYZED FOR VOC'S VIA EPA METHOD TO-15 AND NATURAL GASES VIA ASTM METHOD D-1946. ANALYTICAL RESULTS FOR BENZENE ONLY ARE SHOWN ON THIS FIGURE.
2. SCREEN SUBMERGED BELOW WATER TABLE. NO SAMPLE COLLECTED.
3. J = RESULT IS ESTIMATED.
4. MULTIPLE RESULTS (e.g., 440/410) INDICATE DUPLICATE SAMPLES).

SHELL OIL PRODUCTS US
ROXANA, ILLINOIS

PROJECT NO. 21562593

URS

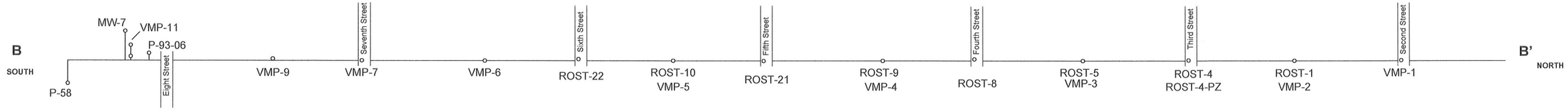
DRN. BY: mpm July 2011
DSGN. BY: djd
CHKD. BY: tja

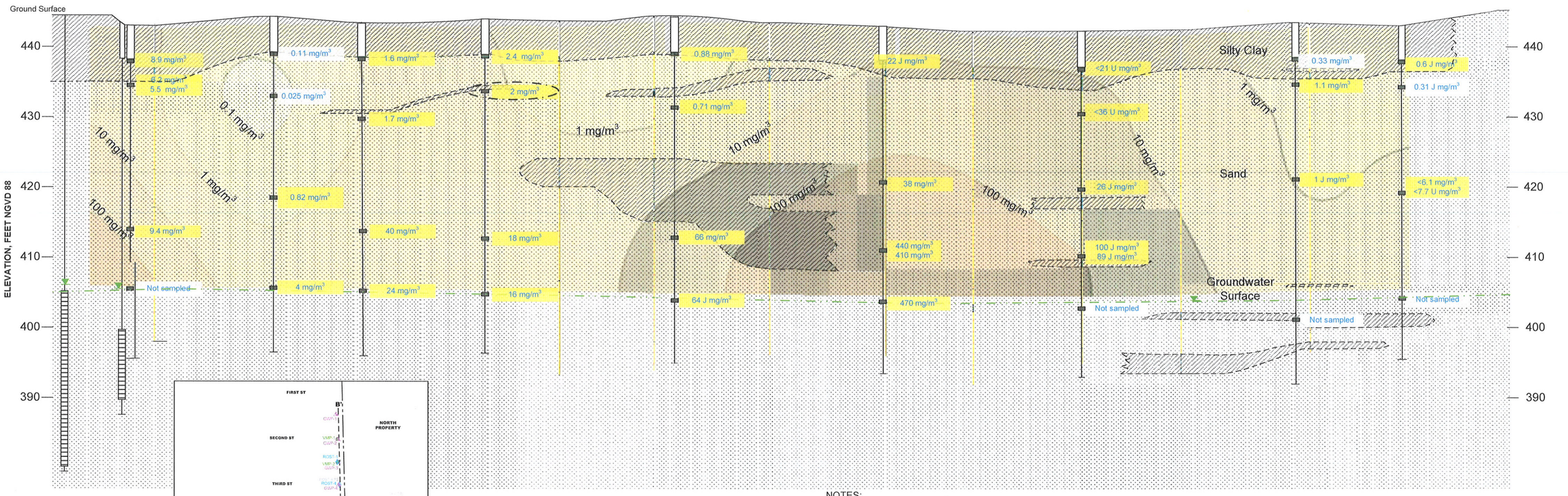
Summary of Benzene Soil Vapor Analytical Results – WRR

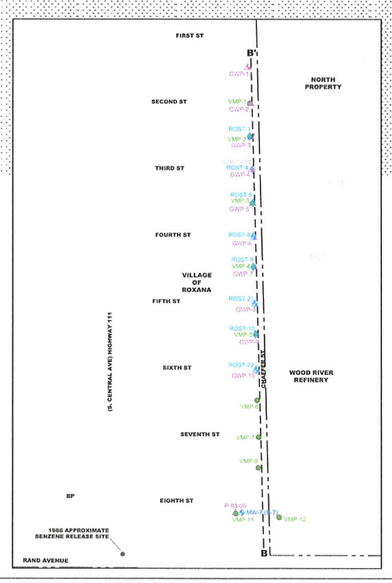
FIG. NO. 6

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\2156XXXX_ROXANA INVESTIGATION & ASSESSMENT\SOIL VAPOR SAMPLING\2011\2Q 2011\REPORT\FIGURES\FIGURE 6 SUMMARY OF BENZENE SOIL VAPOR ANALYTICAL RESULTS (WRR.DWG Last edited: JUL 15, 11 @ 09:45 a.m. by: david_deguire

PLAN VIEW (DEPICTING OFFSETS)







LEGEND:

- Stratum Boundary Assumed
- CLAY projected between points (Includes Silty CLAY and Sandy CLAY)
- SAND projected between points (Includes Silty SAND and Clayey SAND)
- Vapor Port Screens
- Water Level
- Potentiometric Surface - estimated

NOTES:

1) Soil vapor benzene concentrations from the second quarter 2011 sampling event are depicted in blue. Yellow highlighted values exceed screening criterion (0.37 mg/m^3 for VMP 1-9 [Residential] and 2.8 mg/m^3 for VMP-11 [Commercial/Industrial]). Validation of the second quarter data is in progress.

2) Concentration contours were modeled using EVS-PRO version 9.52. A vertical cross section of the 3D model is superimposed behind the cross-section. Differences between the modeled line and actual analytical results are due to 2D conversion from 3D modeling.

3) Groundwater elevations shown on this cross section are based on gauging data collected on April 25, 2011.

4) This cross section is primarily based on the interpretation of CPT data collected by URS during the 2006 and 2009 investigation activities. Boring logs developed during other drilling techniques (e.g. auger and Geoprobe) were used to supplement CPT data.

5) The depth and the thickness of individual strata observed in the borings (non-CPT) may vary slightly from what was observed in CPT logs generated at nearby locations. Therefore, well screens may appear to be partially within clay layers or shallower/deeper within a permeable stratum than actual conditions due to map projections.

6) Cross section trace line shows distance and direction each point was projected to construct this cross section.

7) All investigative locations were air knifed prior to commencing drilling activities.

Benzene Concentrations

mg/m^3

0.001 | 0.01 | 0.1 | 1 | 10 | 100 | 1,000

Vertical Scale: (Feet) 0 10

Plan View and Horizontal Scale: (Feet) 0 100

SHELL OIL PRODUCTS US ROXANA, ILLINOIS	PROJECT NO. 21562593
URS	
DRN. BY: sej July 2011 DSGN. BY: mpm CHKD. BY: ___	Typical Cross-Section with Benzene Soil Vapor Analytical Results
	FIG. NO. 7

Last edit: 6/24/2011 12:53:19 PM

P:\Environmental\Shell Oil Product US\B-Roxana-Route 111\2156XXXX_Roxana Investigation & Assessment\Soil Vapor Sampling\2011\2Q 2011\Report\Figures\Figure 7 - Typical Cross Section with Benzene Concentrations 2Q11a.vsd

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\2156XXXX_ROXANA INVESTIGATION & ASSESSMENT\SOIL VAPOR SAMPLING\2011\2Q 2011\REPORT\FIGURES\FIGURE 8 THRU 11 SUMMARY OF SOIL VAPOR BENZENE.DWG Last edited: JUL. 08, 11 @ 3:29 p.m. by: david_deguire

LEGEND

VAPOR MONITORING POINT

WRR PROPERTY BOUNDARY

EXTENT OF EVS MODEL DATA SET

SOIL VAPOR CONCENTRATION BENZENE (mg/m^3)

- < 0.370
- 0.370 – 2.80
- 2.80 – 10
- 10 – 100
- 100 – 1,000

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.

SECOND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
VILLAGE
CHAFFER ST
(S. CENTRAL AVE) HIGHWAY 111
RAND AVENUE
BP
WOOD RIVER REFINERY
PUBLIC WORKS YARD
WEST PROPERTY
1986 APPROXIMATE BENZENE RELEASE SITE
A-28
A-27

VMP-1
VMP-2
VMP-3
VMP-4
VMP-5
VMP-6
VMP-7
VMP-8
VMP-9
VMP-10
VMP-11
VMP-12
VMP-13
VMP-14
VMP-15
VMP-16
VMP-17
VMP-18
VMP-19
VMP-20
VMP-21
VMP-22
VMP-23
VMP-24
VMP-25

0 200
SCALE FEET

N

SHELL OIL PRODUCTS US ROXANA, ILLINOIS		PROJECT NO. 21562593
URS		
DRN. BY: djd July 2011 DSGN. BY:nm CHKD. BY:b3	Benzene Distribution in Soil Vapor – 5 ft bgs	FIG. NO. 8

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\2156XXXX_ROXANA INVESTIGATION & ASSESSMENT\SOIL VAPOR SAMPLING\2011\2Q 2011\REPORT\FIGURES\FIGURE 8 THRU 11 SUMMARY OF SOIL VAPOR BENZENE.DWG Last edited: JUL. 08, 11 @ 3:28 p.m. by: david_deguire

LEGEND

VAPOR MONITORING POINT

WRR PROPERTY BOUNDARY

EXTENT OF EVS MODEL DATA SET

SOIL VAPOR CONCENTRATION BENZENE (mg/m^3)

- < 0.370
- 0.370 – 2.80
- 2.80 – 10
- 10 – 100
- 100 – 1,000

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.

SECOND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
VILLAGE
PUBLIC WORKS YARD
(S. CENTRAL AVE) HIGHWAY 111
CHAFFER ST
RAND AVENUE
BP
WOOD RIVER REFINERY
WEST PROPERTY
1986 APPROXIMATE BENZENE RELEASE SITE
A-28
A-27

VMP-1
VMP-2
VMP-3
VMP-4
VMP-5
VMP-6
VMP-7
VMP-8
VMP-9
VMP-10
VMP-11
VMP-12
VMP-13
VMP-14
VMP-15
VMP-16
VMP-17
VMP-18
VMP-19
VMP-20
VMP-21
VMP-22
VMP-23
VMP-24
VMP-25

0 200
SCALE FEET
N

SHELL OIL PRODUCTS US ROXANA, ILLINOIS		PROJECT NO. 21562593
URS		
DRN. BY: djd July 2011 DSGN. BY:nm CHKD. BY:b3	Benzene Distribution in Soil Vapor – 10 ft bgs	FIG. NO. 9

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\2156XXXX_ROXANA INVESTIGATION & ASSESSMENT\SOIL VAPOR SAMPLING\2011\2Q 2011\REPORT\FIGURES\FIGURE 8 THRU 11 SUMMARY OF SOIL VAPOR BENZENE.DWG Last edited: JUL. 08, 11 @ 3:27 p.m. by: david_deguire

LEGEND

VAPOR MONITORING POINT

WRR PROPERTY BOUNDARY

EXTENT OF EVS MODEL DATA SET

SOIL VAPOR
CONCENTRATION BENZENE (mg/m^3)

- < 0.370
- 0.370 – 2.80
- 2.80 – 10
- 10 – 100
- 100 – 1,000

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.

SECOND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
VILLAGE
PUBLIC WORKS YARD
(S. CENTRAL AVE) HIGHWAY 111
CHAFFER ST
RAND AVENUE
BP
WOOD RIVER REFINERY
WEST PROPERTY
A-28
A-27
1986 APPROXIMATE BENZENE RELEASE SITE

VMP-1
VMP-2
VMP-3
VMP-4
VMP-5
VMP-6
VMP-7
VMP-8
VMP-9
VMP-10
VMP-11
VMP-12
VMP-13
VMP-14
VMP-15
VMP-16
VMP-17
VMP-18
VMP-19
VMP-20
VMP-21
VMP-22
VMP-23
VMP-24
VMP-25

0 200
SCALE FEET
N

SHELL OIL PRODUCTS US ROXANA, ILLINOIS		PROJECT NO. 21562593
URS		
DRN. BY: djd July 2011 DSGN. BY:nm CHKD. BY:b3	Benzene Distribution in Soil Vapor – 25 ft bgs	FIG. NO. 10

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\2156XXXX_ROXANA INVESTIGATION & ASSESSMENT\SOIL VAPOR SAMPLING\2011\2Q 2011\REPORT\FIGURES\FIGURE 8 THRU 11 SUMMARY OF SOIL VAPOR BENZENE.DWG Last edited: JUL. 08, 11 @ 3:23 p.m. by: david_deguire

LEGEND

VAPOR MONITORING POINT

WRR PROPERTY BOUNDARY

EXTENT OF EVS MODEL DATA SET

SOIL VAPOR
CONCENTRATION BENZENE (mg/m^3)

- < 0.370
- 0.370 – 2.80
- 2.80 – 10
- 10 – 100
- 100 – 1,000

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.

SECOND ST
THIRD ST
FOURTH ST
FIFTH ST
SIXTH ST
SEVENTH ST
EIGHTH ST
VILLAGE
PUBLIC WORKS YARD
RAND AVENUE
(S. CENTRAL AVE) HIGHWAY 111
CHAFFER ST
BP
WEST PROPERTY
WOOD RIVER REFINERY
A-28
A-27
1986 APPROXIMATE BENZENE RELEASE SITE

VMP-1
VMP-2
VMP-3
VMP-4
VMP-5
VMP-6
VMP-7
VMP-8
VMP-9
VMP-10
VMP-11
VMP-12
VMP-13
VMP-14
VMP-15
VMP-16
VMP-17
VMP-18
VMP-19
VMP-20
VMP-21
VMP-22
VMP-23
VMP-24
VMP-25

0 200
SCALE FEET
N

SHELL OIL PRODUCTS US ROXANA, ILLINOIS		PROJECT NO. 21562593
URS		
DRN. BY: djd July 2011 DSGN. BY:nm CHKD. BY:b3	Benzene Distribution in Soil Vapor – 38 ft bgs	FIG. NO. 11

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\2156XXXX_ROXANA INVESTIGATION & ASSESSMENT\SOIL VAPOR SAMPLING\2011\2Q 2011\REPORT\FIGURES\FIGURE 12 DISSOLVED PHASE CONCENTRATIONS IN GROUNDWATER.DWG Last edited: JUL. 08, 11 @ 2:03 p.m. by: david_deguire

LEGEND

- VAPOR MONITORING POINT
- GROUNDWATER DATA LOCATION-SAMPLED
- GROUNDWATER DATA LOCATION-NOT SAMPLED
- WRR PROPERTY BOUNDARY
- EXTENT OF EVS MODEL DATA SET

GROUNDWATER CONCENTRATION
BENZENE (mg/L)

- < 0.005
- 0.005 - 0.05
- 0.05 - 0.5
- 0.5 - 5
- 5 - 50
- 50 - 500
- 500 - 1,150

NOTES:

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. NO DATA INSIDE REFINERY SHOWN.

MW-9
MW-10
SECOND ST
VMP-1
P-55
VMP-20
VMP-2
THIRD ST
ROST-3-PZ
ROST-4-PZ
P-60
P-68
A-28
T-24
MW-11
VMP-21
VMP-3
P-54
T-12
FOURTH ST
P-69
P-70
VMP-22
VMP-4
A-27
P-74
WOOD RIVER REFINERY
P-61
P-59
FIFTH ST
VILLAGE
MW-12
VMP-23
VMP-5
P-56
(S. CENTRAL AVE) HIGHWAY 111
CHAFFER ST
SIXTH ST
MW-2 (B-2)
VMP-6
MW-1 (B-1)
BP
SEVENTH ST
VMP-7
VMP-24
T-6
P-57
VMP-8
VMP-9
MW-3 (B-3)
MW-4 (B-4)
P-93A
P-93B
P-93C
P-93D
P-73
VMP-18
VMP-19
EIGHTH ST
MW-5 (B-5)
MW-7 (B-7)
VMP-10
VMP-11
VMP-17
VMP-12
PUBLIC WORKS YARD
MW-8 (B-8)
P-58
VMP-13
1986 APPROXIMATE BENZENE RELEASE SITE
VMP-14
RAND AVENUE
VMP-25
VMP-15
P-66
VMP-16
P-75
MW-13
MW-6A (B-6)
MW-6B
MW-6C
MW-6D
P-114
P-116
P-115
WEST PROPERTY

0 200
SCALE FEET
N

SHELL OIL PRODUCTS US
ROXANA, ILLINOIS

PROJECT NO.
21562593

URS

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

Dissolved Phase Concentrations in Groundwater

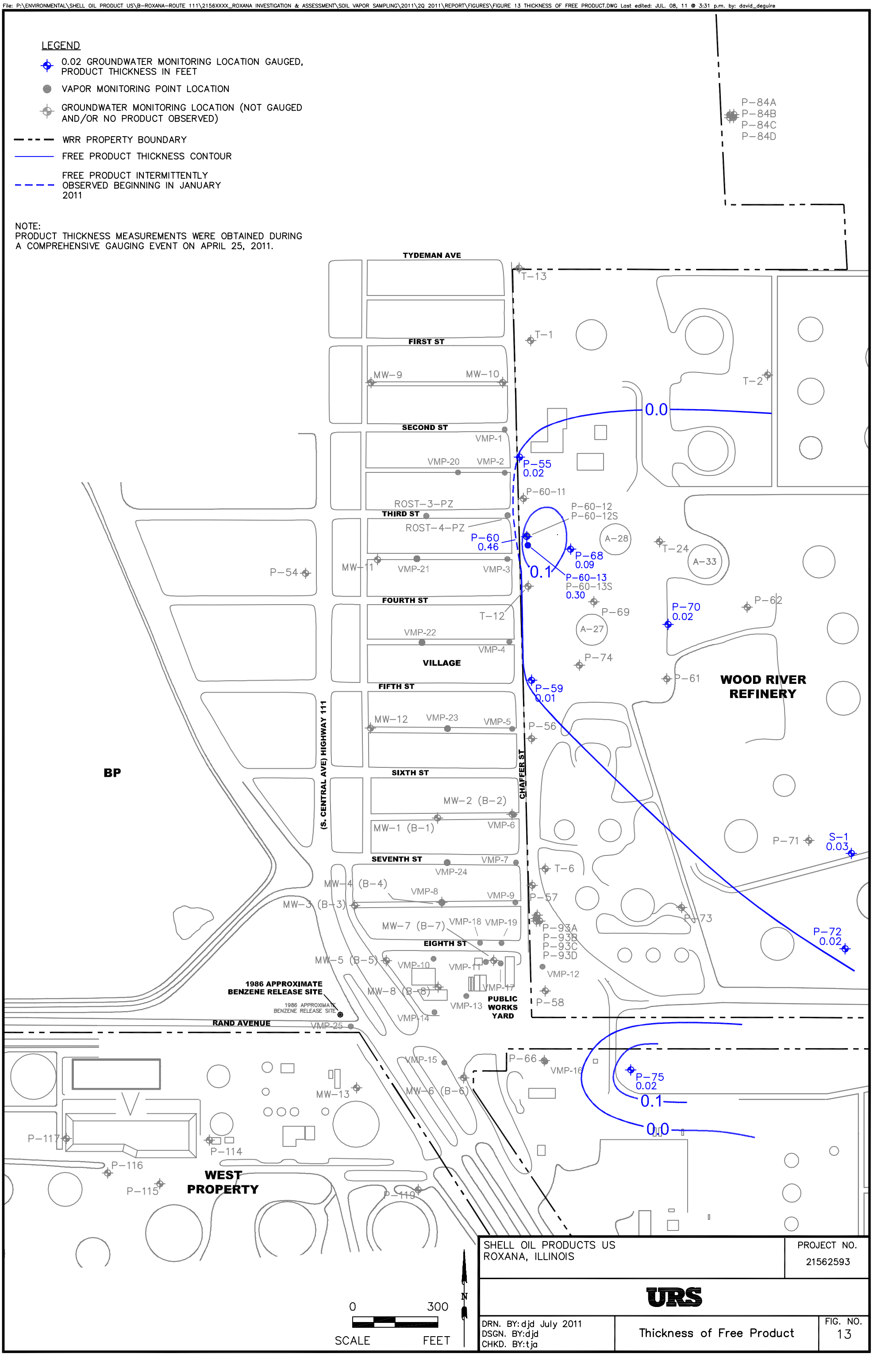
FIG. NO.
12

File: P:\ENVIRONMENTAL\SHELL OIL PRODUCT US\B-ROXANA-ROUTE 111\2156XXXX_ROXANA INVESTIGATION & ASSESSMENT\SOIL VAPOR SAMPLING\2011\2Q 2011\REPORT\FIGURES\FIGURE 13 THICKNESS OF FREE PRODUCT.DWG Last edited: JUL. 08, 11 @ 3:31 p.m. by: david_deguire

LEGEND

- 0.02 GROUNDWATER MONITORING LOCATION GAUGED, PRODUCT THICKNESS IN FEET
- VAPOR MONITORING POINT LOCATION
- GROUNDWATER MONITORING LOCATION (NOT GAUGED AND/OR NO PRODUCT OBSERVED)
- WRR PROPERTY BOUNDARY
- FREE PRODUCT THICKNESS CONTOUR
- FREE PRODUCT INTERMITTENTLY OBSERVED BEGINNING IN JANUARY 2011

NOTE:
PRODUCT THICKNESS MEASUREMENTS WERE OBTAINED DURING A COMPREHENSIVE GAUGING EVENT ON APRIL 25, 2011.



SHELL OIL PRODUCTS US ROXANA, ILLINOIS	PROJECT NO. 21562593
URS	
DRN. BY: djd July 2011 DSGN. BY: djd CHKD. BY: tja	Thickness of Free Product FIG. NO. 13

See last page of table for notes.

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	Dilectric		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%	NS	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%	NS	74.5%	2.5%	0	1.0	0	0	0	17.9	0.0	0	1.9	18.1	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%	NS	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%	NS	87.0%	0.0%	0.0	1.6	0	0	0	7.8	0.0	0	5.3	8.3	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%	NS	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%	NS	62.0%	0.0%	42,500	78.3	8	1	34	0.5	22.1	>>>	10.0	1.0	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
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%	NS	54.0%	0.06%	352.6	0.4	0	0	0	15.2	0.0	0	4.0	16.3	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%	NS	61.0%	0.0%	42,750	74.1	0	0	4.00%	0.0	0.2	4	11.6	1.8	N/A

See last page of table for notes.

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	Dilectric		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%	NS	70.0%	0.51%	57,210	94	0	0	77	0.0	18.9	>>>	10.8	0.3	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
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%	NS	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
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%	NS	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	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%	NS	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	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%	NS	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-3-39	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

See last page of table for notes.

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	Dilectric		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-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%	NS	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%	NS	54.0%	0.0%	26.0	304	16	34	OVR	0.2	>>>	>>>	11.3	3.3	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
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
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
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%	NS	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%	NS	56.4%	0.4%	0.0	0.3	0	0	0	18.5	0.0	0	7.5	19.0	N/A
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%	NS	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%	NS	51.1%	0.0%	0.0	0.7	0	0	0	9.5	0.0	0	8.3	10.3	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%	NS	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

See last page of table for notes.

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	Dilectric		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-5-40	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	NS	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
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%	NS	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
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%	NS	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%	NS	63.0%	0.0%	111	12.5	2	0	0	1.9	0.2	4	10.8	3.7	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%	NS	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%	NS	68.5%	0.0%	10,000	416	1211	76	OVR	0.0	>>>	>>>	13.2	0.6	N/A
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%	NS	91.8%	0.0%	11,300	420	1222	100	OVR	0.5	>>>	>>>	12.8	0.5	N/A
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
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

See last page of table for notes.

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	Dilectric		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-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
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
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
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%	NS	67.0%	0.0%		0.1	0	0	0	12.6	0.1	2	7.0	13.4	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%	NS	85.0%	0.0%		0.0	0	0	0	12.0	0.0	0	8.6	12.0	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
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%	NS	62.2%	0.0%	0.0	1.6	0	0	0	0.4	0.0	0	1.1	5.8	N/A

See last page of table for notes.

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	Dilectric		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-9-11.5	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%	NS	56.3%	0.0%	60.8	0.0	0	0	0	0.0	0.0	0	10.4	1.4	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%	NS	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%	NS	80.0%	0.0%		45.0	0	2	14	0.0	1.5	31	15.8	0.6	N/A
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%	NS	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%	NS	55.0%	0.0%		169	0	7	20	0.0	3.6	81	17.9	0.3	N/A
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%	NS	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%	NS	62.7%	0.1%	28.8	3.2	0	0	0	19.0	0.0	0	0.9	19.8	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%	NS	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%	NS	59.4%	0.1%	38.9	0.0	0	0	0	18.7	0.0	0	0	19.6	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%	NS	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%	NS	54.7%	0.2%	50.0	0.6	0	0	0	17.7	0.0	0	2.7	17.6	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

See last page of table for notes.

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	Dilectric		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-11-5	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%	NS	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
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%	NS	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
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%	NS	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
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
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
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
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

See last page of table for notes.

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	Dilectric		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
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%	NS	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%	NS	82.6%	0.0%	50.9	5.9	0	0	0	15.3	0.0	0	3.7	17.4	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%	NS	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%	NS	72.8%	0.0%	30.5	4.4	1	0	0	10.6	0.0	0	3.3	12.1	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%	NS	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%	NS	50.2%	0.0%	18,220	OVR	0	0	17	4.4	0.0	34	0.1	10.4	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%	NS	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%	NS	47.9%	0.0%	50,220	OVR	1	0	22	3.4	0.0	55	0	19.8	N/A
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%	NS	54.9%	0.2%	0.0	0.5	0	0	0	19.2	0.0	0	2.7	19.0	N/A
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%	NS	49.8%	0.0%	766	118.5	0	0	0	8.6	0.3	6	12	8.6	N/A

See last page of table for notes.

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	Dilectric		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-14-20	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
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
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%	NS	61.0%	0.0%	661.6	35.8	0	0	5	1.9	0.2	5	15.4	2.9	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
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
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
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

See last page of table for notes.

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	Dilectric		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-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
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
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
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
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%	NS	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%	NS	61.3%	0.4%	14.0	1.0	0	0	0	13.4	0.0	0	6.4	13.1	N/A
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%	NS	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%	NS	68.0%	0.2%		0.2	0	0	0	15.0	0.2	3	5.3	15.4	N/A
VMP-20-5	03/14/11	53.4%	0.0%	NS	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%	NS	80.0%	0.0%		0.2	8	0	0	5.4	0.0	0	8.7	8.9	N/A
VMP-20-10	03/14/11	52.1%	0.0%	NS	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%	NS	94.3%	0.0%		5.0	2	0	0	5.4	0.0	0	8.4	8.5	N/A
VMP-20-25	03/14/11	52.0%	0.0%	NS	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%	NS	60.4%	0.0%		2.5	3	0	3	0.0	0.1	1	10.5	2.1	N/A

See last page of table for notes.

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	Dilectric		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-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
VMP-21-5	02/09/11	73.4%	0.0%	NS	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%	NS	52.8%	0.2%	0.0	0.9	0	0	0	16.7	0.0	0	1.9	16.9	N/A
VMP-21-10	02/10/11	64.5%	0.0%	NS	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%	NS	57.7%	0.4%	263	40.2	0	0	0	8.2	0.1	3	6.7	8.3	N/A
VMP-21-25	02/10/11	50.7%	0.0%	NS	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%	NS	66.0%	0.2%	102,000	459.0	61	11	18	0.0	>>>	>>>	6.3	0.5	N/A
VMP-21-33	02/10/11	51.9%	0.0%	NS	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%	NS	59.9%	0.9%	98,820	385.0	8	15	36	0.0	>>>	>>>	6	0.8	N/A
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%	NS	58.1%	0.0%	0.0	0.0	0	0	0	7.9	0.1	0	6.8	11.1	N/A
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%	NS	49.5%	0.0%	0.0	0.0	0	0	0	6.4	0.0	2	8.4	6.8	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%	NS	44.3%	0.0%	29,430	258	3	6	24	0.0	21.7	>>>	10.7	0.3	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%	NS	50.0%	0.0%	60,850	290	0	9	OVR	0.0	>>>	>>>	10.8	0.3	N/A
VMP-23-5	02/15/11	62.3%	0.0%	NS	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%	NS	52.3%	0.0%	0.0	0.7	23	0	0	14.7	0.0	2	5.5	15.1	N/A
VMP-23-10	02/15/11	52.0%	0.0%	NS	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%	NS	58.2%	0.0%	0.0	1.2	16	0	0	11.8	0.2	6	6.5	12.1	N/A
VMP-23-25	02/15/11	54.5%	0.0%	NS	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%	NS	53.6%	0.0%	0.0	0.6	13	0	0	2.2	0.2	0	13.7	2.4	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
VMP-24-5	02/16/11	50.9%	0.0%	NS	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%	NS	53.1%	0.1%	41.7	0.7	0	0	0	15.0	0.0	0	4.9	15.9	N/A
VMP-24-10	02/17/11	51.0%	0.0%	NS	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%	NS	77.0%	0.0%	32.4	0.7	0	0	0	13.9	0.0	0	7.1	13.8	N/A
VMP-24-22	02/17/11	52.5%	0.0%	NS	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%	NS	67.8%	0.0%	47.3	0.3	0	0	3	11.9	0.0	0	8.8	10.8	N/A
VMP-24-34	02/17/11	52.2%	0.0%	NS	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%	NS	74.4%	0.0%	40.5	0.1	0	0	2	11.1	0.0	0	9.2	11.0	N/A

See last page of table for notes.

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	Dilectric		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%	NS	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%	NS	51.9%	0.0%	95.0	1.9	0	0	3	0.9	0.1	2	7.5	1.0	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
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
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

Notes:

1. November 2009 Sampling and the June 2010 Supplemental utilized a MuitiRAE IR for CO2 readings. Any CO2 over 5% resulted in a "OVR" reading. No direct CH4 or secondary LEL anr 02 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.

SOIL VAPOR SAMPLING - CANISTER SAMPLING DATA

Date	Port ID	Required Purge (mL)	15 mL Hand Pumps	Number of Hand Pumps Achieved	Canister ID	Flow Controller ID	Vacuum Leak Check OK (Y/N)	Helium Leak Check Before OK (Y/N)	Helium Leak Check After OK (Y/N)	Initial Vacuum	Time Start	Final Vacuum	Time Finish	
4/12/11	VMP-1-5	83.18	6	6	2550	6486	Y	Y	Y	29.5" Hg	1216	6 in Hg	1247	yellow
4/12/11	VMP-1-8.5	108.48	8	8	3723	40617	Y	Y	Y	30" Hg	1415	5.5 in Hg	1445	blue
4/12/11	VMP-1-23.5	216.93	15	15	3742	FC00405	Y	Y	Y	29" Hg	1545	5.5" Hg	16.21	green
	VMP-1-38.5	325.38	22	41										red
4/13/11	VMP-2-5	83.18	6	6	3134	FC00562	Y	Y	Y	29.5" Hg	1017	6" Hg	1055	yellow
4/13/11	VMP-2-8.5	108.48	8	8	3658	FC00461	Y	Y	Y	28" Hg	1137	4" Hg	1264	blue
4/13/11	VMP-2-22	206.09	14	14	2221	FC00345	Y	Y	Y	29" Hg	1246	6" Hg	1315	green
	VMP-2-42	350.69	24	24										red
[illegible]	VMP-3-5	83.18	6											yellow
4/14/11	VMP-3-10	119.33	8	8	308	FC00227	Y	Y	Y	29	1530	5.5" Hg	1556	white
	VMP-3-22	206.09	14											blue
	VMP-3-31.5	274.77	19											green
	VMP-3-39	329.00	22											red
04/19/11	VMP-4-5	83.18	6	6	3795	FC00124	Y	Y	Y	30" Hg	1034	5.5" Hg	1104	yellow
04/19/11	VMP-4-12	133.79	9	9	3074	FC00179	Y	Y	Y	30" Hg	1205	4.5" Hg	1235	blue
4/20/11	VMP-4-23.5	216.93	15	16	1369	FC00266	Y	Y	Y	29" Hg	1015	-4.0 Hg	1042	green
4/26/11 2011	VMP-4-39	329.00	22	was 22	3485	FC00295	Y	Y	Y	-30" Hg	0945	-5.0 Hg	1008	red

Helium Leak Check Before: Compare Tedlar Helium Before with Helium in Shroud Before. Y = Tedlar < 10% Shroud.
Helium Leak Check Before: Compare Tedlar Helium After with Helium in Shroud After. Y = Tedlar < 10% Shroud.

SOIL VAPOR SAMPLING - CANISTER SAMPLING DATA

Date	Port ID	Required Purge (mL)	15 mL Hand Pumps	Number of Hand Pumps Achieved	Canister ID	Flow Controller ID	Vacuum Leak Check OK (Y/N)	Helium Leak Check Before OK (Y/N)	Helium Leak Check After OK (Y/N)	Initial Vacuum	Time Start	Final Vacuum	Time Finish	
	VMP-1-5	83.18	6											yellow
	VMP-1-8.5	108.48	8											blue
	VMP-1-23.5	216.93	15											green
	VMP-1-38.5	325.38	22											red
	VMP-2-5	83.18	6											yellow
	VMP-2-8.5	108.48	8											blue
	VMP-2-22	206.09	14											green
	VMP-2-42	350.69	24											red
4/14/11	VMP-3-5	83.18	6	6	2547	FC00297	Y	Y	Y	-29.5"Hg	1518	-7.0"Hg	1548	yellow
4/14/11	VMP-3-10	119.33	8	~~8~~			~~Y~~	~~Y~~	~~Y~~		~~1625~~		~~1655~~	white
4/15/11	VMP-3-22	206.09	14	14	301	FC00321	Y	Y	Y	-29.5	0930	-6.0"Hg	1000	blue
4/14/11	VMP-3-31.5	274.77	19	19	3707	FC00332	Y	Y	Y	-30.0"Hg	1625	-6"Hg	1655	green
	VMP-3-39	329.00	22											red
	VMP-4-5	83.18	6											yellow
	VMP-4-12	133.79	9											blue
	VMP-4-23.5	216.93	15											green
	VMP-4-39	329.00	22											red

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Helium Leak Check Before: Compare Tedlar Helium After with Helium in Shroud After. Y = Tedlar < 10% Shroud.

SOIL VAPOR SAMPLING - CANISTER SAMPLING DATA

Date	Port ID	Required Purge (mL)	15 mL Hand Pumps	Number of Hand Pumps Achieved	Canister ID	Flow Controller ID	Vacuum Leak Check OK (Y/N)	Helium Leak Check Before OK (Y/N)	Helium Leak Check After OK (Y/N)	Initial Vacuum	Time Start	Final Vacuum	Time Finish	
4/7/2011	VMP-5-5	83.18	6	6	0214	6841	Y	Y	Y	-29"Hg	1045	-8"Hg	1116	yellow
	VMP-5-12.5	137.40	10											blue
	VMP-5-31	271.16	19											green
	VMP-5-40	336.23	23											red
04/08/2011	VMP-6-5	83.18	6	6	2189	FC0134	Y	Y	Y	-29.5"Hg	1425	-4.5"Hg	1459	yellow
4/8/2011	VMP-6-10	119.33	8	8	2133	FC00511	Y	Y	Y	-30.0"Hg	1543	-8.5"Hg	1613	blue
	VMP-6-31.5	274.77	19											green
	VMP-6-39	329.00	22											red
	VMP-7-5	83.18	6											yellow
	VMP-7-13.5	144.63	10											blue
	VMP-7-29.5	260.31	18											green
	VMP-7-38	321.77	22											red
4/7/2011	VMP-8-5	83.18	6	6	0214	6841	Y	Y	Y	-29"Hg	1045	-8"Hg	1116	yellow
4/7/2011	VMP-8-9.5	115.71	8	8	3762	FC00392	Y	Y	Y	-28½"Hg	1200	-8"Hg	1233	blue
4/7/2011	VMP-8-23.5	216.93	15	15	5815	FC00173	Y	Y	Y	-27"Hg	1320	-5"Hg	1352	green
4/7/2011	VMP-8-35.5	303.69	21	Did not sample. Under water.										red

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SOIL VAPOR SAMPLING - CANISTER SAMPLING DATA

Date	Port ID	Required Purge (mL)	15 mL Hand Pumps	Number of Hand Pumps Achieved	Canister ID	Flow Controller ID	Vacuum Leak Check OK (Y/N)	Helium Leak Check Before OK (Y/N)	Helium Leak Check After OK (Y/N)	Initial Vacuum	Time Start	Final Vacuum	Time Finish	
4/21/11	VMP-5-5	83.18	6	6	2151	6653	Y	Y	Y	-29	0935	-8	1000	yellow
4/21/11	VMP-5-12.5	137.40	10	10	3868	FC00408	Y	Y	Y	-29	1030	-9.5	1100	blue
4/21/11	VMP-5-31	271.16	19	19	2023	FC00379	Y	Y	Y	-30	1130	-8.5	1155	green
4/21/11	VMP-5-40	336.23	23	23	2651	6447	Y	Y	Y	-29	1300	-9	1322	red
	VMP-6-5	83.18	6											yellow
	VMP-6-10	119.33	8											blue
4/11/11	VMP-6-31.5	274.77	19	19	2162	FC01002	Y	Y	Y	-30	1529	-8	1601	green
4/11/11	VMP-6-39	329.00	22	22	3962	FC00251	Y	Y	Y	-28.5	1654	-6	1723	red
4/7/11	VMP-7-5	83.18	6	6	2109	FC00561	Y	Y	Y	-29	0943	-8	1017	yellow
4/7/11	VMP-7-13.5	144.63	10	10	3082	FC00391	Y	Y	Y	-29.5	1050	-7	1124	blue
4/7/11	VMP-7-29.5	260.31	18	18	2726	FC00596	Y	Y	Y	-27	1157	-8	1226	green
4/7/11	VMP-7-38	321.77	22	23	2609	FC00445	Y	Y	Y	-29.5	1301	-7	1334	red
	VMP-8-5	83.18	6											yellow
	VMP-8-9.5	115.71	8											blue
	VMP-8-23.5	216.93	15											green
	VMP-8-35.5	303.69	21											red

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Helium Leak Check Before: Compare Tedlar Helium After with Helium in Shroud After. Y = Tedlar < 10% Shroud.

SOIL VAPOR SAMPLING CANISTER SAMPLING DATA

Date	Port ID	Required Purge (mL)	15 mL Hand Pumps	Number of Hand Pumps Achieved	Canister ID	Flow Controller ID	Vacuum Leak Check OK - (Y/N)	Helium Leak Check Before OK (Y/N)	Helium Leak Check After OK (Y/N)	Initial Vacuum	Time Start	Final Vacuum	Time Finish	
04/06/2011	VMP-9-5	83.18	6	6	2070	6671	Y	Y	Y	-28.5"Hg	1318	-9.5"Hg	1349	yellow
04/06/2011	VMP-9-11.5	130.17	9	9	1472	FC00125	Y	Y	Y	-29"Hg	1419	-8.0"Hg	1451	blue
04/08/2011	VMP-9-25.5	231.39	16	16	2080	FC10388	Y	Y	Y	-29"Hg	0944	-5.5"Hg	1013	green
04/08/2011	VMP-9-38.5	325.38	22	22	2221	FC00249	Y	Y	Y	-29.5"Hg	1055	-7.0"Hg	1128	red
04/05/2011	VMP-10-5	83.18	6	6	1514 ~~2218~~	FC00702	Y	Y	Y	-29"Hg	1409	-1.5"Hg	1437	yellow
04/06/2011	VMP-10-10	119.33	8	8	130687	FC00557	Y	Y	Y	-29"Hg	0934	-7.5"Hg	1003	blue
04/06/2011	VMP-10-20	191.63	13	13	0550	FC00551	Y	Y	Y	-28"Hg	1036	-8.5Hg	1106	green
Did not sample	VMP-10-30	263.93	18	None- underwater	~~[illegible]~~	~~[illegible]~~	UNDER WATER							red
	VMP-11-5	83.18	6											yellow
	VMP-11-8	104.87	7											blue
	VMP-11-29	256.70	18											green
	VMP-11-38	321.77	22											red
	VMP-12-5	83.18	6											yellow
	VMP-12-11.5	130.17	9											blue
	VMP-12-25	227.78	16											green
	VMP-12-39	329.00	22											red

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Helium Leak Check Before: Compare Tedlar Helium After with Helium in Shroud After. Y = Tedlar < 10% Shroud.

SOIL VAPOR SAMPLING – CANISTER SAMPLING DATA

Date	Port ID	Required Purge (mL)	15 mL Hand Pumps	Number of Hand Pumps Achieved	Canister ID	Flow Controller ID	Vacuum Leak Check OK (Y/N)	Helium Leak Check Before OK (Y/N)	Helium Leak Check After OK (Y/N)	Initial Vacuum	Time Start	Final Vacuum	Time Finish	
	VMP-9-5	83.18	6											yellow
	VMP-9-11.5	130.17	9											blue
	VMP-9-25.5	231.39	16											green
	VMP-9-38.5	325.38	22											red
	VMP-10-5	83.18	6											yellow
	VMP-10-10	119.33	8											blue
	VMP-10-20	191.63	13											green
	VMP-10-30	263.93	18											red
4/6/11	VMP-11-5	83.18	6	6	1368	FC00330	Y	Y	Y	-29	0934	-7.5	1007	yellow
4/6/11	VMP-11-8	104.87	7	8	3899	FC00726	Y	Y	Y	-30	1046	-8	1121	blue
4/6/11	VMP-11-29	256.70	18	18	2567	FC00823	Y	Y	Y	-29.5	1153	-8	1237	green
4/6/11	VMP-11-38	321.77	22	Field	precision	err	Zero Hg							red
4/19/11	VMP-12-5	83.18	6	6	2689	FC00413	Y	Y	Y	29.5	1040	-9	1105	yellow
4/19/11	VMP-12-11.5	130.17	9	9	3261	6342	Y	Y	Y	29.5	1140	-6	1210	blue
4/19/11	VMP-12-25	227.78	16	16	2037	40830	Y	Y	Y	30	1410	-7.5	1435	green
4/19/11	VMP-12-39	329.00	22	22	2185	FC00772 FC00872	Y	Y	Y	29	1503	-9	1528	red
4/6/11	VMP-11-5-Dup	104.87	7	8	125	FC00857	Y	Y	Y	-29.5	1046	-8.5	1121	

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SOIL VAPOR SAMPLING NISTER SAMPLING DATA

Date	Port ID	Required Purge (mL)	15 mL Hand Pumps	Number of Hand Pumps Achieved	Canister ID	Flow Controller ID	Vacuum Leak Check OK (Y/N)	Helium Leak Check Before OK (Y/N)	Helium Leak Check After OK (Y/N)	Initial Vacuum	Time Start	Final Vacuum	Time Finish	
4/5/2011	VMP-13-5	83.18	6	6	1366	FC00623	Y	Y	Y	-28 "Hg	0949	-7 "Hg	1021	yellow
4/5/2011	VMP-13-10.5	122.94	9	9	~~1368~~ 3087 ~~27327~~	FC00101	Y	Y	Y	-29 "Hg	1100	-8.5 "Hg	1136	blue
4/5/2011	VMP-13-21.5	202.47	14	14	~~4129~~ 3002	6716	Y	Y	Y	-29 "Hg	1336	-4.5 "Hg	1402	green
4/5/2011	VMP-13-29.5	260.31	18	18	~~1005~~ ~~20~~ 3086	FC00253	Y	Y	Y	-21 "Hg	1458	-2.0 "Hg	1520	red
	VMP-14-5	83.18	6											yellow
	VMP-14-11.5	130.17	9											blue
	VMP-14-20	191.63	13											green
	VMP-14-29	256.70	18											red
	VMP-15-5	83.18	6											yellow
	VMP-15-21.5	202.47	14											blue
	VMP-15-25.5	231.39	16											green
	VMP-15-29	256.70	18											red
	VMP-16-5	83.18	6											yellow
	VMP-16-13.5	144.63	10											blue
	VMP-16-19	184.40	13											green
	VMP-16-31	271.16	19											red

Helium Leak Check Before: Compare Tedlar Helium Before with Helium in Shroud Before. Y = Tedlar < 10% Shroud.
Helium Leak Check Before: Compare Tedlar Helium After with Helium in Shroud After. Y = Tedlar < 10% Shroud.

SOIL VAPOR SAMPLING - ANISTER SAMPLING DATA

Date	Port ID	Required Purge (mL)	15 mL Hand Pumps	Number of Hand Pumps Achieved	Canister ID	Flow Controller ID	Vacuum Leak Check OK (Y/N)	Helium Leak Check Before OK (Y/N)	Helium Leak Check After OK (Y/N)	Initial Vacuum	Time Start	Final Vacuum	Time Finish	
	VMP-13-5	83.18	6											yellow
	VMP-13-10.5	122.94	9											blue
	VMP-13-21.5	202.47	14											green
	VMP-13-29.5	260.31	18											red
4/5/11	VMP-14-5	83.18	6	6	2115	FC03357	Y	Y	Y	-29.5	0943	-8.5	1018	yellow
4/5/11	VMP-14-11.5	130.17	9	9	2011	FC00648	Y	Y	Y	-29	1108	-8.5	1140	blue
4/5/11	VMP-14-20	191.63	13	13	196	FC00332	Y	Y	Y	-28.5	1239	-7.0	1311	green
4/5/11	VMP-14-29	256.70	18	18	3079	6560	Y	Y	Y	-29.5	1350	-8.0	1420	red
4/20/11	VMP-15-5	83.18	6	6	1911	FC00489	Y	Y	Y	-30	1240	-7.5	1310	yellow
4/20/11	VMP-15-21.5	202.47	14	14	3800	6490	Y	Y	Y	-30	1340	-8.5	1410	blue
4/20/11	VMP-15-25.5	231.39	16	16	3257	6524	Y	Y	Y	-29	1440	-8.0	1515	green
	VMP-15-29	256.70	18											red
04/22/11	VMP-16-5	83.18	6	6	2076	FC00778	Y	Y	Y	-30	0940	-7.5	1005	yellow
04/22/11	VMP-16-13.5	144.63	10	10	3890	FC00543	Y	Y	Y	-30	1041	-8.5	1105	blue
	VMP-16-19	184.40	13	13	1728	40891	Y	Y	Y	-30	1405	-6.5	1428	green
	VMP-16-31	271.16	19											red

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Helium Leak Check Before: Compare Tedlar Helium After with Helium in Shroud After. Y = Tedlar < 10% Shroud.

SOIL VAPOR SAMPLING .NISTER SAMPLING DATA

Date	Port ID	Required Purge (mL)	15 mL Hand Pumps	Number of Hand Pumps Achieved	Canister ID	Flow Controller ID	Vacuum Leak Check OK (Y/N)	Helium Leak Check Before OK (Y/N)	Helium Leak Check After OK (Y/N)	Initial Vacuum	Time Start	Final Vacuum	Time Finish	
	VMP-17-5	83.18	6											yellow
	VMP-18-8.5	108.48	8											white
4/7/2011	VMP-19-5	83.18	6	6	3869	FC00777	Y	Y	Y	29"Hg	1408	8.0"Hg	1443	yellow
	VMP-20-5	83.18	6											yellow
	VMP-20-10	119.33	8											blue
	VMP-20-25	227.78	16											green
	VMP-20-39.5	332.61	23											red
	VMP-21-5	83.18	6											yellow
	VMP-21-10	119.33	8											blue
	VMP-21-25	227.78	16											green
	VMP-21-33	285.62	20											red
4/18/2011	VMP-22-5	83.18	6	6	1633	~~FC~~ 10829	Y	Y	OK ~~27"Hg~~	27"Hg	1015	6"Hg	1048	yellow
4/18/2011	VMP-22-10	119.33	8	9	2746	6851	Y	Y	Y	-29.5"	1133	-5.5"Hg	1205	blue
4/18/2011	VMP-22-18	177.17	12	12	2496	FC00996	Y	Y	Y	-30.0"Hg	1415	-8.0"Hg	1445	green
4/18/2011	VMP-22-38	321.77	22	22	2376	6497	Y	Y	Y	-28.5"Hg	1525	-7.5"Hg	1555	red

Helium Leak Check Before: Compare Tedlar Helium Before with Helium in Shroud Before. Y = Tedlar < 10% Shroud.
Helium Leak [illegible] Before: Compare Tedlar Helium After with Helium in Shroud After. Y = Tedlar < 10% Shroud.

SOIL VAPOR SAMPLING - CANISTER SAMPLING DATA

Date	Port ID	Required Purge (mL)	15 mL Hand Pumps	Number of Hand Pumps Achieved	Canister ID	Flow Controller ID	Vacuum Leak Check OK (Y/N)	Helium Leak Check Before OK (Y/N)	Helium Leak Check After OK (Y/N)	Initial Vacuum	Time Start	Final Vacuum	Time Finish	
4/6/11	VMP-17-5	83.18	6	6	93	FC00798	Y	Y	Y	-29.5	1346	-9	1419	yellow
4/7/11	VMP-18-8.5	108.48	8	8	718	FC00513	Y	Y	Y	-29.5	1530	-6.5	1601	white
	VMP-19-5	83.18	6											yellow
4/15/11	VMP-20-5	83.18	6	6	2074	FC6842	Y	Y	Y	29	1108	6.5	1135	yellow
4/15/11	VMP-20-10	119.33	8	8	5803	FC00317	Y	Y	Y	30	1400	3.5	1435	blue
4/15/11	VMP-20-25	227.78	16	16	2521	FC6317	Y	Y	Y	29	1520	6.0	1548	green
	VMP-20-39.5	332.61	23											red
4/13/11	VMP-21-5	83.18	6		3514	FC00816	Y	Y	Y	-30	0959	-7.5	1029	yellow
4/13/11	VMP-21-10	119.33	8		3077	FC00320	Y	Y	Y	-29.5	1102	-7.5	1133	blue
4/14/11	VMP-21-25	227.78	16	16	3882	FC00709	Y	Y	Y	-30.0	1105	-7.0	1135	green
4/19/11	VMP-21-33	285.62	20	20	~~3235~~ ~~3422~~	FC00908 ~~6673~~	Y	Y	Y	-30.0	1215	-5.5	1245	red
	VMP-22-5	83.18	6											yellow
	VMP-22-10	119.33	8											blue
	VMP-22-18	177.17	12											green
	VMP-22-38	321.77	22											red

Helium Leak Check Before: Compare Tedlar Helium Before with Helium in Shroud Before. Y = Tedlar < 10% Shroud.
Helium Leak Check Before: Compare Tedlar Helium After with Helium in Shroud After. Y = Tedlar < 10% Shroud.

SOIL VAPOR SAMPLING CANISTER SAMPLING DATA

Date	Port ID	Required Purge (mL)	15 mL Hand Pumps	Number of Hand Pumps Achieved	Canister ID	Flow Controller ID	Vacuum Leak Check OK (Y/N)	Helium Leak Check Before OK (Y/N)	Helium Leak Check After OK (Y/N)	Initial Vacuum	Time Start	Final Vacuum	Time Finish	
04/21/11	VMP-23-5	83.18	6	6	1456	FC00151	Y	Y	Y	-30"Hg	1320	-5.5Hg	1350	yellow
04/21/11	VMP-23-10	119.33	8	8	5836	FC00877	Y	Y	Y	-30"Hg	1508 WCB	-5.0Hg	1540	blue
04/21/11	VMP-23-25	227.78	16	16	0626	FC00667	Y	Y	Y	-30"Hg	1609	-5.5Hg	1639	green
—	VMP-23-40	336.23	23	UNDER WATER										red
	VMP-24-5	83.18	6											yellow
	VMP-24-10	119.33	8											blue
	VMP-24-22	206.09	14											green
	VMP-24-34	292.85	20											red
	VMP-25-5	83.18	6											yellow
	VMP-25-9.5	119.33	8											blue
	VMP-25-21	198.86	14											green
	VMP-25-31	271.16	19											red

Helium Leak Check Before: Compare Tedlar Helium Before with Helium in Shroud Before. Y = Tedlar < 10% Shroud.
Helium Leak Check Before: Compare Tedlar Helium After with Helium in Shroud After. Y = Tedlar < 10% Shroud.

SOIL VAPOR SAMPLING - CANISTER SAMPLING DATA

Date	Port ID	Required Purge (mL)	15 mL Hand Pumps	Number of Hand Pumps Achieved	Canister ID	Flow Controller ID	Vacuum Leak Check OK (Y/N)	Helium Leak Check Before OK (Y/N)	Helium Leak Check After OK (Y/N)	Initial Vacuum	Time Start	Final Vacuum	Time Finish	
	VMP-23-5	83.18	6											yellow
	VMP-23-10	119.33	8											blue
	VMP-23-25	227.78	16											green
	VMP-23-40	336.23	23											red
4/8/11	VMP-24-5	83.18	6	6	2149	FC00911	Y	Y	Y	-29	1454	-3	1510	yellow
4/11/11	VMP-24-10	119.33	8	8	691	FC00937	Y	Y	Y	-29	0004	-6	1036	blue
4/11/11	VMP-24-22	206.09	14	14	1458	FC00550	Y	Y	Y	-29.5	1116	-6	1147	green
4/11/11	VMP-24-34	292.85	20	20	3663	FC00661	Y	Y	Y	-29	1228	-5	1257	red
4/8/11	VMP-25-5	83.18	6	6	2211	FC00163	Y	Y	Y	-28.5	0952	-8.5	1021	yellow
4/8/11	VMP-25-9.5	119.33	8	Water										blue
4/8/11	VMP-25-21	198.86	14	14	2377	FC00925	Y	Y	Y	-29.5	1056	-6	1126	green
4/8/11	VMP-25-31	271.16	19	Water										red
4/8/11	VMP-25-21-Dup	198.86	14	14	2120	FC00146	Y	Y	Y	-29	1056	-6	1126	

Helium Leak Check Before: Compare Tedlar Helium Before with Helium in Shroud Before. Y = Tedlar < 10% Shroud.
Helium Leak Check Before: Compare Tedlar Helium After with Helium in Shroud After. Y = Tedlar < 10% Shroud.

SOIL VAPOR SAMPLING NISTER SAMPLING DATA

Date	Port ID	Required Purge (mL)	15 mL Hand Pumps	Number of Hand Pumps Achieved	Canister ID	Flow Controller ID	Vacuum Leak Check OK (Y/N)	Helium Leak Check Before OK (Y/N)	Helium Leak Check After OK (Y/N)	Initial Vacuum	Time Start	Final Vacuum	Time Finish	
4/5/2011	VMP-13-10.5		9	9	35650	FC00357	Y	Y	Y	28"Hg	1100	-8.0Hg	1136	DUP
4/6/2011	VMP-23.5 (8-23.5)	75	15	15	1012	FC00415	Y	Y	Y	-30"Hg	1315	-9.5"Hg	1352	DUP
4/12/2011	VMP-23.5		15	15	1999	00571	Y	Y	Y	30"Hg	1545	4"Hg	1621	DUP
4/20/2011	VMP-4-23.5		15	15	3259	FC00078	Y	Y	Y	-30"Hg	1015	-3.5Hg	1042	DUP
														DUP
														DUP
														DUP
														DUP
														DUP
														DUP

Helium Leak Check Before: Compare Tedlar Helium Before with Helium in Shroud Before. Y = Tedlar < 10% Shroud.
Helium Leak Check Before: Compare Tedlar Helium After with Helium in Shroud After. Y = Tedlar < 10% Shroud.

SOIL VAPOR SAMPLING - CANISTER SAMPLING DATA

Date	Port ID	Required Purge (mL)	15 mL Hand Pumps	Number of Hand Pumps Achieved	Canister ID	Flow Controller ID	Vacuum Leak Check OK (Y/N)	Helium Leak Check Before OK (Y/N)	Helium Leak Check After OK (Y/N)	Initial Vacuum	Time Start	Final Vacuum	Time Finish	
4/14/2011	VMP-21-25-Dup		16	16	3235	6673	Y	Y	Y	-30	11:05	-7" Hg	11:35	DUP
4/14/2011	VMP-3-3.5-Dup		19	19	3080	FC00113	Y	Y	Y	-29.5	1025	-6" Hg	1655	DUP
4/20/11	VMP-15-25.5 Dup		16	16	2053	FC00770	Y	Y	Y	-29	1440	-8.5	1515	DUP
4/27/11	VMP-16-19 Dup		13	13	3923	FC00492	Y	Y	Y	-29.5	1405	-6	1428	DUP
														DUP
														DUP
														DUP
														DUP
														DUP
														DUP

Helium Leak Check Before: Compare Tedlar Helium Before with Helium in Shroud Before. Y = Tedlar < 10% Shroud.
Helium Leak Check Before: Compare Tedlar Helium After with Helium in Shroud After. Y = Tedlar < 10% Shroud.

SOIL VAPOR SAMPLING ... DLAR SAMPLING DATA

Reading Location		Shroud	Tedlar Bag 1		Shroud		Tedlar Bag 2										Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	MultiRAE				Landtec				Dielectric	
Date	Port ID	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	62.0%	0.0%	NA	74.5%	2.5%	0	1.0	0.0	0.0	0.0	17.9	0.0	0.0	1.9	18.1	NA	yellow
	VMP-1-8.5	56.0%	0.0%	NA	87.0%	0.0%	0	1.6	0.0	0.0	0.0	7.8	0.0	0.0	5.3	8.3	NA	blue
	VMP-1-23.5	52.0%	0.0%	NA	62.0%	0.0%	[illegible]	38.3	8.0	1.0	34.0	0.5	22.1	OVER	10.0	1.0	NA	green
	VMP-1-38.5	~~52.3%~~	~~0.0%~~	~~NA~~	~~[illegible] 5%~~	~~6000 ppm~~		~~0.4~~	~~0.0~~	~~0.0~~	~~0.0~~	~~15.2~~	~~0.0~~	~~0.0~~	~~4.0~~	~~16.3~~	~~NA~~	red
	VMP-2-5	52.3%	0.0%	NA	54%	6000 ppm	352.6	0.4	0.0	0.0	0.0	15.2	0.0	0.0	4.0	16.3	NA	yellow
	VMP-2-8.5	53.2%	0.0%	NA	61%	0.0%	42750	74.1	0.0	0.0	4.0	0.0	0.2	4.0	11.4	1.8	NA	blue
	VMP-2-22	52.0%	0.0%	NA	76%	5100 ppm	5[illegible]10	94.0	0.0	0.0	77.0	0.0	18.9	OVER	10.8	0.3	NA	green
	VMP-2-42	~~52.0%~~	~~4.7%~~	~~OVER~~	~~73%~~	~~6.0%~~		~~119.0~~	~~300~~	~~9.0~~	~~OVER~~	~~0.0~~	~~OVER~~	~~OVER~~	~~7.3~~	~~0.7~~	~~NA~~	red
	VMP-3-5																	yellow
4/14/11	VMP-3-10	52.0%	4.7%	OVER	73%	6.0%	51.3%	119.0	300	9.0	OVER	0.0	OVER	OVER	7.3	0.7	NA	white
	VMP-3-22																	blue
	VMP-3-31.5																	green
	VMP-3-39																	red
4/19/11	VMP-4-5	76.8	0.0	NA	54%	0.0	26.0 ppm	304	16	34	OVR	0.2	OVR	OVR	11.3	3.3	NA	yellow
4/19/11	VMP-4-12	57.2	2.5	OVR	54.2%	4.7	28.4 ppm	242	554	40	OVR	3.0	OVR	OVR	7.7	7.3	NA	blue
4/20/11	VMP-4-23.5	53.5	3.8	OVR	50.0%	6.7	OVER	121	OVR	44	OVR	0.0	OVR	OVR	5.7	0.6	NA	green
4/21/11	VMP-4-39	54.8	11.3	OVR	62.4%	1.4	OVER	119	OVR	50	OVR	0.2	OVR	OVR	4.9	0.6	NA	red

SOIL VAPOR SAMPLING ~~)~~LAR SAMPLING DATA

Reading Location		Shroud	Tedlar Bag 1		Shroud		Tedlar Bag 2										Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	MultiRAE				Landtec				Dielectric	
Date	Port ID	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																	yellow
	VMP-1-8.5																	blue
	VMP-1-23.5																	green
	VMP-1-38.5																	red
	VMP-2-5																	yellow
	VMP-2-8.5																	blue
	VMP-2-22																	green
	VMP-2-42																	red
4/14/11	VMP-3-5	57.8	3.8	OVR	56.1	5.1	28.5 %	180	15.7	13.0	18.1	0.0	OVR	OVR	9.4	1.5	N/A	yellow
4/14/11	VMP-3-10	~~57.0~~	~~6.1~~	~~OVR~~														white
4/15/11	VMP-3-22	71.2	7.0	OVR	55.0	8.1	over	153	4810	20.0	~~OVR~~ 28.0	0.0	OVR	OVR	8.2	2.7	N/A	blue
4/14/11	VMP-3-31.5	57.0	6.1	OVR	89.0	12.1	~~over~~ 28.5%	199	214	8.16	20.1	0.0	OVR	OVR	5.3	1.3	N/A	green
4/14/11	VMP-3-39	UNDER WATER																red
	VMP-4-5																	yellow
	VMP-4-12																	blue
	VMP-4-23.5																	green
	VMP-4-39																	red

SOIL VAPOR SAMPLING [illegible]DLAR SAMPLING DATA

Reading Location		Shroud	Tedlar Bag 1		Shroud		Tedlar Bag 2										Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	MultiRAE				Landtec				Dielectric	
Date	Port ID	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	
Other back																		
~~4/1/2011~~	VMP-5-5	~~53%~~	0.0															yellow
	VMP-5-12.5																	blue
	VMP-5-31																	green
	VMP-5-40																	red
4/08/2011	VMP-6-5	54%	2100ppm	0.2%	~~4700ppm~~ 49%	4700ppm	5.10	0.2	0.0	8.0	0.0	14.1	0.1	2.0	4.4	14.1		yellow
4/8/2011	VMP-6-10	53%	0.0	—	63%	0.0	110.5	12.5	2.0	0.0	0.0	7.9	0.2	4.0	10.8	3.7		blue
	VMP-6-31.5						10%											green
	VMP-6-39						11.3%											red
	VMP-7-5																	yellow
	VMP-7-13.5																	blue
	VMP-7-29.5																	green
	VMP-7-38																	red
4/7/2011	VMP-8-5	53%	0.0	—	~~82% 2100ppm~~	2700ppm		0.3	0.0	0.0	0.0	18.5	0.0	0.0	3.0	19.0		yellow
4/7/2011	VMP-8-9.5	54%	0.0	—	67%	0.0%		0.1	0.0	0.0	0.0	12.6	0.1	2.0	7.0	13.4		blue
4/7/2011	VMP-8-23.5	55%	0.0	—	85%	0.0%		0.0	0.0	0.0	0.0	12.0	0.0	0.0	8.6	12.0		green
4/7/2011	VMP-8-35.5	Did	not	sample.	Under	Water												red

SOIL VAPOR SAMPLING [illegible]OLAR SAMPLING DATA

Reading Location		Shroud	Tedlar Bag 1		Shroud		Tedlar Bag 2										Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	MultiRAE				Landtec				Dielectric	
Date	Port ID	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	
4/21/11 ~~4/7/11~~	VMP-5-5	54.2	0.0	N/A	56.4	3800 ppm	0.0	0.3	0	0	0	18.5	0.0	0.0	2.5	19.0	N/A	yellow
4/21/11	VMP-5-12.5	59.0	0.0	N/A	51.1	0.0	0.0	0.7	0	0	0	9.5	0.0	0.0	8.3	10.3	NA	blue
4/21/11	VMP-5-31	53.0	8.7%	over	-10.0%	5.8%	over	204	600	18	over	0.0	over	over	8.9	0.4	NA	green
4/21/11	VMP-5-40	56.5%	5.7%	over	51%	5.3%	over	229	632	18	over	0.0	over	over	8.8	0.2	NA	red
	VMP-6-5						5.10											yellow
	VMP-6-10						110.5											blue
4/11/11	VMP-6-31.5	53.4%	0%	N/A	68.5	0		416	1211	76	OVR	0.0	>>>	>>>	13.2	0.6	N/A	green
4/11/11	VMP-6-39	53.0%	0%	777	91.8%	0.2		420	1222	100	OVR	0.5	>>>	>>>	12.8	0.5	N/A	red
4/7/11	VMP-7-5	61.6	0	0	53.8	0	34.2	0.1	0	0	0	12.6	0	0	6.6	12.8	N/A	yellow
4/7/11	VMP-7-13.5	57.5	0	0	62.8	0	45.0	0.3	0	0	0	8.4	0	0	10.2	8.3	N/A	blue
4/7/11	VMP-7-29.5	59.2	0	19.8	57.6	0	28300	430	2	5	25	0.4	23.4	>>>	15.1	0.2	N/A	green
4/7/11	VMP-7-38	76.5	0	25.1	43.2	0	31250	448	8	6	35	0.5	25.9	>>>	14.9	0.4	N/A	red
	VMP-8-5																	yellow
	VMP-8-9.5																	blue
	VMP-8-23.5																	green
	VMP-8-35.5																	red

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	MultiRAE				Landtec				Dielectric	
Date	Port ID	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	
04/06/2011	VMP-9-5	50.3%	0.0	–	62.2%	0.0	0.0	1.6	0.0	0.0	0.0	0.4	0.0	0.0	8.1	5.8		yellow
04/06/2011	VMP-9-11.5	53.7	0.0	–	56.3	0.0	60.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	1.4		blue
04/08/2011	VMP-9-25.5	54.0	0.0	–	80.0	0.0		45.0	0.0	2.0	14.0	0.0	1.5	31.0	15.8	0.6		green
04/28/2011	VMP-9-38.5	52.0	0.0	–	55.0	0.0		169.0	0.0	7.0	20.0	0.0	3.6	81.0	17.9	0.3		red
04/05/11	VMP-10-5	62.6	0.0	–	~~0.0~~ 62.7%	1354ppm	28.8	3.2	0.0	0.0	0.0	19.0	0.0	0.0	0.9	~~19~~ 19.8		yellow
04/06/11	VMP-10-10	55.7	0.0	–	59.4	800ppm	38.9	0.0	0.0	0.0	0.0	18.3	0.0	0.0	0.0	19.6		blue
04/06/11	VMP-10-20	53.5	0.0	–	54.7	1625ppm	50.0	0.6	0.0	0.0	0.0	17.7	0.0	0.0	2.7	17.6		green
~~04/06/11~~	VMP-10-30	Did not sample, underwater					–	–	–	–	–	–	–	–	–	–		red
	VMP-11-5																	yellow
	VMP-11-8																	blue
	VMP-11-29																	green
	VMP-11-38																	red
	VMP-12-5						~~76.0~~ ~~69.5~~											yellow
	VMP-12-11.5						80.8											blue
	VMP-12-25						~~96.7~~ 76.0											green
	VMP-12-39						~~69.5~~ 96.7											red

SOIL VAPOR SAMPLING ... OLAR SAMPLING DATA

Reading Location		Shroud	Tedlar Bag 1		Shroud		Tedlar Bag 2										Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	MultiRAE				Landtec				Dielectric	
Date	Port ID	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-9-5																	yellow
	VMP-9-11.5																	blue
	VMP-9-25.5																	green
	VMP-9-38.5																	red
	VMP-10-5																	yellow
	VMP-10-10																	blue
	VMP-10-20																	green
	VMP-10-30																	red
4/6/11	VMP-11-5	55.3%	0%	0%	48.9%	0%	3.40	0.7	0	0	0	10.6	0	0	8.5	10.5	N/A	yellow
4/6/11	VMP-11-8	73.8	0%	0%	70.0%	0%	3.04	0.8	0	0	0	10.5	0	0	8.3	10.1	N/A	blue
4/6/11	VMP-11-29	63.8	0%	0%	66.0	0%	3.94	1.1	0	0	0	0.2	0.1	2	14.6	0.8	N/A	green
4/6/11	VMP-11-38	58.3	NA															red
4/19/11	VMP-12-5	52%	7.7%	over	59%	7.9%		71.8	9	11	OVER	8	over	over	7.7	0.4	N/A	yellow
4/19/11	VMP-12-11.5	51%	8.7%	over	58.3%	9.4%		78.0	50	19	over	0	over	over	9.5	0.2	N/A	blue
4/19/11	VMP-12-25	53%	8.8%	over	75%	9.3%		133	90	9	over	0	over	over	12.3	0.8	N/A	green
4/19/11	VMP-12-39	51%	12%	over	53%	11.2%		131	85	17	over	0	over	over	13.0	0.7	N/A	red
4/6/11	VMP11-8-Dup	73.8%	0%	0%	70.0%	0%	3.04	0.8	0	0	0	10.5	0	0	8.3	10.1	N/A	

SOIL VAPOR SAMPLING ...OLAR SAMPLING DATA

Reading Location		Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2											Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	MultiRAE				Landtec				Dielectric	
Date	Port ID	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	
4/5/2011	VMP-13-5	70.2%	0.0	-	82.6	0.0	50.9	5.9	0.0	0.0	0.0	15.3	0.0	0%	3.7	17.4		yellow
4/5/2011	VMP-13-10.5	50.2%	0.0	-	72.8	0.0	30.5	4.4	1.0	0.0	0.0	10.6	0.0	0%	3.3	12.1		blue
4/5/2011	VMP-13-21.5	50.2%	0.0	-	50.2	0.0	18220	OVR	0.0	0.0	17.0	4.4	0.0	34%	0.1	10.4		green
4/5/2011	VMP-13-29.5	69.9%	0.0	-	47.9	0.0	50220	OVR	1.0	0.0	22.0	3.4	0.0	55%	0.0	19.8		red
	VMP-14-5																	yellow
	VMP-14-11.5																	blue
	VMP-14-20																	green
	VMP-14-29																	red
	VMP-15-5																	yellow
	VMP-15-21.5																	blue
	VMP-15-25.5																	green
	VMP-15-29																	red
	VMP-16-5																	yellow
	VMP-16-13.5																	blue
	VMP-16-19																	green
	VMP-16-31																	red

SOIL VAPOR SAMPLING ... OLAR SAMPLING DATA

Reading Location		Shroud	Tedlar Bag 1		Shroud		Tedlar Bag 2										Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	MultiRAE				Landtec				Dielectric	
Date	Port ID	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-13-5																	yellow
	VMP-13-10.5																	blue
	VMP-13-21.5																	green
	VMP-13-29.5																	red
4/5/11	VMP-14-5	59.6%	0%	N/A	54.9%	0.13%	0	0.5	0	0	0	19.2	0	0	2.7	19.0	NA	yellow
4/5/11	VMP-14-11.5	90.0%	0%	N/A	49.8%	0%	766.1	118.5	0	0	0	8.6	0.3	6	12.0	8.6	NA	blue
4/5/11	VMP-14-20	60.1%	1.2%	>>>	53.6%	2.2%	233000	856.7	71	2	OVR	0.3	777	777	16.5	0.3	NA	green
4/5/11	VMP-14-29	58.1%	2.1%	777	48.8%	2.4%	276000	1420	100	5	OVR	0.2	777	777	15.7	0.3	NA	red
4/20/11	VMP-15-5	55%	0%	N/A	61%	0%	661.6	35.8	0	0	5	1.9	0.2%	5%	15.4	2.9	NA	yellow
4/20/11	VMP-15-21.5	52.3%	10,293 ppm	19.5%	50.3%	14950 ppm	13.2%	96.6	0	2	over	0.0	24.8	over	19.1	0.0	NA	blue
4/20/11	VMP-15-25.5	52%	8.3%	2.0%	50%	5.9%	10,000 ppm	17.6	0	0	10	10.7	30%	21%	5.2	9.9 over	N/A	green
	~~VMP-15-29~~	~~52.4%~~	~~11.8%~~	~~over~~	~~54%~~	~~12.6%~~		~~76.7~~	~~27~~	~~3~~	~~over~~	~~0~~	~~over~~	~~over~~	~~17.3~~	~~0.4%~~	~~NA~~	~~red~~
04/22/11	VMP-16-5	52.4%	11.8%	over	54%	12.6%	over	76.7	27	3	over	0	over	over	17.3	0.4%	NA	yellow
04/22/11	VMP-16-13.5	62.0%	14%	over	70%	11.4%	over	80.2	30	4	over	0	over	over	17.0	1.8%	NA	blue
4/27/11	VMP-16-19	51.3%	10.6%	over	67.3%	27.8%	43.90%	111	3	0	over	1.6	over	over	11.7	1.8%	NA	green
	VMP-16-31																	red

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	MultiRAE				Landtec				Dielectric	
Date	Port ID	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-17-5																	yellow
	VMP-18-8.5																	white
4/7/2011	VMP-19-5	52.3	0.0	–	68.0	~~1835 ppm~~		0.2	0.0	0.0	0.0	15.0	0.2	3.0	5.3	13.4		yellow
	VMP-20-5																	yellow
	VMP-20-10																	blue
	VMP-20-25																	green
	VMP-20-39.5																	red
	VMP-21-5																	yellow
	VMP-21-10																	blue
	VMP-21-25																	green
	VMP-21-33																	red
4/28/11	VMP-22-5	57.0%	0.0	–	58.1%	0.0	0.0	0.0	0.0	0.0	0.0	7.9	0.1	0.0	6.8	11.1		yellow
4/18/11	VMP-22-10	51.0%	0.0	–	49.5%	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	1.8	8.4	6.8		blue
4/18/11	VMP-22-18	51.0%	0.0	–	44.3%	0.0	29,430	~~158~~ 158	3.0	6.6	24.6	0.0	21.7	OVR	10.7	0.3		green
4/18/11	VMP-22-38	55.0%	0.0	–	50.0%	0.0	60,850	290	0.0	9.0	~~H 9.0~~ OVR	0.0	OVR	OVR	10.8	0.3		red

SOIL VAPOR SAMPLING [illegible]OLAR SAMPLING DATA

Reading Location		Shroud	Tedlar Bag 1		Shroud		Tedlar Bag 2										Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	MultiRAE				Landtec				Dielectric	
Date	Port ID	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	
4/6/11	VMP-17-5	62.5%	0%	0.1%	33.6%	0%	3.86	0.7	0	0	0	17.1	0.1	2	2.8	17.1	N/A	yellow
4/7/11	VMP-18-8.5	58.1%	0.1%	N/A	61.3%	0.4%	14.0	1.0	0	0	0	13.4	0	0	6.4	13.1	N/A	white
	VMP-19-5																	yellow
4/10/11	VMP-20-5	52.0%	0.0%	—	80.0%	0%		0.2	8.0	0	0.	5.4	0.0	0.0	8.7	8.9	NA	yellow
4/15/11	VMP-20-10	56.0%	0.0%	—	94.3%	0.0%		5	2.0	0	0.0	5.4	0.0	0.0	8.4	8.5	NA	blue
4/15/11	VMP-20-25	52.0 %	0.0%	—	60.4%	0.0%		2.5	3.0	0	3.0	0	0.1	1.0	10.5	2.1	NA	green
	VMP-20-39.5																	red
4/13/11	VMP-21-5	70.1%	0%	NA	52.8%	0.2%	1.0	0.9	0	0	0	16.7%	0	0	1.9	16.9	N/A	yellow
	VMP-21-10	65.2	0%	N/A	57.7%	0.38%	263.0	40.2	0	0	0	8.2%	0.1	3	6.7	8.3	N/A	blue
4/14/11	VMP-21-25	55.0%	0%	NA	46.0%	2100ppm	10.2% 459.0	459.0	61	11	18.0	0.0%	OVR	OVR	6.3	0.5	NA	green
4/14/11	VMP-21-33	59.9%	0%	NA	59.9%	8520ppm	385.0	385.0	8	15	36	0.0	OVR	OVR	6.0	0.8	NA	red
	VMP-22-5																	yellow
	VMP-22-10																	blue
	VMP-22-18																	green
	VMP-22-38																	red

SOIL VAPOR SAMPLING ~~)~~OLAR SAMPLING DATA

Reading Location		Shroud	Tedlar Bag 1		Shroud		Tedlar Bag 2										Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	MultiRAE				Landtec				Dielectric	
Date	Port ID	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	
04/21/11	VMP-23-5	60.0	0	NA	62.3	~~0.0~~	0.0	0.7	23	0	0	14.7	0.0	~~1~~2	5.5	15.1		yellow
4/21/11	VMP-23-10	52.3	0	NA	58.2	0.0	0.0	1.2	16	0	0	11.8	0.2	~~1~~6	6.5	12.1		blue
4/21/11	VMP-23-25	58.2	0	NA	53.6	0.0	0.0	0.6	13	0	0	2.2	0.2	0.0	13.7	2.4		green
4/21/11	VMP-23-40	UNDER	WATER															red
	VMP-24-5																	yellow
	VMP-24-10						32.43											blue
	VMP-24-22						47.30											green
	VMP-24-34						40.50											red
	VMP-25-5																	yellow
	VMP-25-9.5																	blue
	VMP-24-21																	green
	VMP-24-31																	red

SOIL VAPOR SAMPLING [illegible]OLAR SAMPLING DATA

Reading Location		Shroud	Tedlar Bag 1		Shroud	Tedlar Bag 2											Tedlar Bag 3	
Instrument		Dielectric		Landtec	Dielectric		FID	PID	MultiRAE				Landtec				Dielectric	
Date	Port ID	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-23-5																	yellow
	VMP-23-10																	blue
	VMP-23-25																	green
	VMP-23-40																	red
4/8/11	VMP-24-5	53.5%	0	N/A	53.1%	0.1	41.70	0.7	0	0	0	15.0	0	0	4.9	15.9	N/A	yellow
4/11/11	VMP-24-10	55.5%	0	N/A	77.0%	0%		0.7	0	0	0	13.9	0	0	7.1	13.8	N/A	blue
4/11/11	VMP-24-22	67.8%	0	N/A	67.8%	0%		0.3	0	0	3	11.9	0	0	8.8	10.8	N/A	green
4/11/11	VMP-24-34	70.9%	0	N/A	74.4%	0%		0.1	0	0	2	11.1	0	0	9.2	11.0	N/A	red
4/8/11	VMP-25-5	75.0%	0%	N/A	51.9%	0%	95.0	1.9	0	0	3	0.9	0.1	2	7.5	1.0	N/A	yellow
4/8/11	VMP-25-9.5	Water	—															blue
4/8/11	VMP-25-21	72.4%	4.1%	<<<	54.3%	4.6%	632000	150	OVR	54	OVR	0.8	>>>	>>>	14.4	0.8	N/A	green
4/8/11	VMP-25-31	Water	—															red
4/8/11	VMP-25-21-Dup	72.4%	4.1%	<<<	54.3%	4.6%	632000	150	OVR	54	OVR	0.8	>>>	>>>	14.4	0.8	N/A	

Roxana 2Q2011 Vapor Data Review

Laboratory SDG: 1104124A, B

Data Reviewer: Steve Gragert

Peer Reviewer: Jeff Aust

Date Reviewed: 6/30/2011

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-14-5-040511	VMP-14-11.5-040511
VMP-14-20-040511	VMP-14-29-040511
VMP-13-5-040511	VMP-13-10.5-040511
VMP-13-10.5-040511-DUP	VMP-13-21.5-040511
VMP-13-29.5-040511	VMP-10-5-040511

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 samples VMP-14-11.5-040511, VMP-14-20-040511, VMP-14-29-040511, VMP-13-21.5-040511, and VMP-13-29.5-040511 were diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in TO-15 and ASTM D-1946 method blanks. TO-15 LCS and CCV recoveries were above evaluation criteria. These issues are addressed further in the appropriate sections below.

TO-15 sample VMP-14-11.5-040511 was diluted and re-analyzed to bring the highest level compounds within calibration range of the instrument. Results for 2,2,4-trimethylpentane were reported from the re-analysis run and the remaining compounds were reported from the original analysis.

The Summa canister for ASTM D-1946 sample VMP-13-10.5-040511 was leaking at the time of analysis. Per URS chemist, the analysis was cancelled. Sample VMP-13-10.5 was field duplicated; therefore, the results from the duplicate sample VMP-13-10.5-040511-DUP can be used in place of the cancelled analysis.

No other 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 Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1104124A-11A	TO-15	Bromomethane	0.14 ppbv / 0.53 µg/m^3
1104124A-11A	TO-15	Carbon disulfide	0.21 ppbv / 0.65 µg/m^3
1104124A-11A	TO-15	Methylene chloride	0.14 ppbv / 0.50 µg/m^3
1104124A-11A	TO-15	Trichloroethene	0.12 ppbv / 0.62 µg/m^3
1104124A-11A	TO-15	cis-1,3-Dichloropropene	0.11 ppbv / 0.52 µg/m^3
1104124A-11A	TO-15	trans-1,3-Dichloropropene	0.16 ppbv / 0.74 µg/m^3
1104124A-11A	TO-15	Tetrachloroethene	0.071 ppbv / 0.48 µg/m^3
1104124A-11A	TO-15	Dibromochloromethane	0.10 ppbv / 0.87 µg/m^3
1104124A-11A	TO-15	1,2-Dibromoethane	0.14 ppbv / 1.1 µg/m^3
1104124A-11A	TO-15	Chlorobenzene	0.11 ppbv / 0.50 µg/m^3
1104124A-11A	TO-15	m,p-Xylene	0.068 ppbv / 0.30 µg/m^3
1104124A-11A	TO-15	o-Xylene	0.10 ppbv / 0.44 µg/m^3
1104124A-11A	TO-15	1,1,2,2-Tetrachloroethane	0.085 ppbv / 0.59 µg/m^3
1104124A-11A	TO-15	Propylbenzene	0.10 ppbv / 0.50 µg/m^3
1104124A-11A	TO-15	4-Ethyltoluene	0.11 ppbv / 0.56 µg/m^3
1104124A-11A	TO-15	1,3,5-Trimethylbenzene	0.12 ppbv / 0.59 µg/m^3
1104124A-11A	TO-15	1,2,4-Trimethylbenzene	0.14 ppbv / 0.70 µg/m^3
1104124A-11A	TO-15	1,3-Dichlorobenzene	0.32 ppbv / 2.0 µg/m^3
1104124A-11A	TO-15	1,4-Dichlorobenzene	0.30 ppbv / 1.8 µg/m^3
1104124A-11A	TO-15	alpha-Chlorotoluene	0.14 ppbv / 0.75 µg/m^3
1104124A-11A	TO-15	1,2-Dichlorobenzene	0.24 ppbv / 1.4 µg/m^3
1104124A-11A	TO-15	1,2,4-Trichlorobenzene	1.0 ppbv / 7.8 µg/m^3
1104124A-11A	TO-15	Hexachlorobutadiene	0.84 ppbv / 8.9 µg/m^3
1104124B-11A	ATM D-1946	Oxygen	0.011 %
1104124B-11A	ATM D-1946	Nitrogen	0.056 %

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-14-5-040511	TO-15	Bromomethane	-	**U**
VMP-14-5-040511	TO-15	Carbon disulfide	-	**U**
VMP-14-5-040511	TO-15	Trichloroethene	-	**U**
VMP-14-5-040511	TO-15	Tetrachloroethene	-	**U**
VMP-14-5-040511	TO-15	1,3-Dichlorobenzene	-	**U**
VMP-14-5-040511	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-14-5-040511	TO-15	1,2-Dichlorobenzene	-	**U**
VMP-14-5-040511	TO-15	1,2,4-Trichlorobenzene	-	**U**
VMP-14-11.5-040511	TO-15	Carbon disulfide	-	**U**
VMP-13-5-040511	TO-15	Tetrachloroethene	-	**U**
VMP-13-5-040511	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-13-5-040511	TO-15	1,2-Dichlorobenzene	-	**U**

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
VMP-13-5-040511	TO-15	1,2,4-Trichlorobenzene	-	**U**
VMP-13-10.5-040511	TO-15	1,3-Dichlorobenzene	-	**U**
VMP-13-10.5-040511	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-13-10.5-040511	TO-15	1,2,4-Trichlorobenzene	-	**U**
VMP-13-10.5-040511-DUP	TO-15	Methylene chloride	-	**U**
VMP-13-10.5-040511-DUP	TO-15	Trichloroethene	-	**U**
VMP-13-10.5-040511-DUP	TO-15	Tetrachloroethene	-	**U**
VMP-13-10.5-040511-DUP	TO-15	Dibromochloromethane	-	**U**
VMP-13-10.5-040511-DUP	TO-15	1,2-Dibromoethane	-	**U**
VMP-13-10.5-040511-DUP	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-13-10.5-040511-DUP	TO-15	1,2,4-Trichlorobenzene	-	**U**
VMP-10-5-040511	TO-15	Methylene chloride	-	**U**
VMP-10-5-040511	TO-15	Trichloroethene	-	**U**
VMP-10-5-040511	TO-15	Tetrachloroethene	-	**U**
VMP-10-5-040511	TO-15	o-Xylene	-	**U**
VMP-10-5-040511	TO-15	Propylbenzene	-	**U**
VMP-10-5-040511	TO-15	1,3,5-Trimethylbenzene	-	**U**
VMP-10-5-040511	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-10-5-040511	TO-15	1,2-Dichlorobenzene	-	**U**
VMP-10-5-040511	TO-15	1,2,4-Trichlorobenzene	-	**U**

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS Recovery	LCS Criteria
1104124A-13B	TO-15	Hexachlorobutadiene	**137**	70-130
1104124A-13BB	TO-15	Hexachlorobutadiene	**143**	70-130

All associated data were reported as nondetect 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-13-10.5-040511	VMP-13-10.5-040511-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. Butane and Isopentane results exceeded the calibration range for samples VMP-14-5-040511 and VMP-14-11.5-040511. The results are qualified as estimated (**J**) due to professional judgment.

Sample ID	Parameter	Analyte	Qualification
VMP-14-5-040511	TO-15	Butane	**J**
VMP-14-5-040511	TO-15	Isopentane	**J**
VMP-14-11.5-040511	TO-15	Butane	**J**
VMP-14-11.5-040511	TO-15	Isopentane	**J**

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

CCV ID	Parameter	Analyte	CCV Recovery	CCV Criteria
1104124A-12B	TO-15	Hexachlorobutadiene	**148**	70-130

All associated data were reported as nondetect and associated with CCV recoveries above evaluation criteria, indicating a possible high bias; therefore, no qualification of data was required.

Air Toxics LTD.
Laboratory Services Since 1989

4/19/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562593.00008
Workorder #: 1104124A

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/6/2011 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 6/30/11

WORK ORDER #: 1104124A

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/06/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/19/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-14-5-040511	Modified TO-15	7.5 "Hg	15 psi
02A	VMP-14-11.5-040511	Modified TO-15	7.5 "Hg	15 psi
02B	VMP-14-11.5-040511	Modified TO-15	7.5 "Hg	15 psi
03A	VMP-14-20-040511	Modified TO-15	7.0 "Hg	15 psi
04A	VMP-14-29-040511	Modified TO-15	8.0 "Hg	15 psi
05A	VMP-13-5-040511	Modified TO-15	7.0 "Hg	15 psi
06A	VMP-13-10.5-040511	Modified TO-15	7.0 "Hg	15 psi
07A	VMP-13-10.5-040511-DUP	Modified TO-15	8.0 "Hg	15 psi
08A	VMP-13-21.5-040511	Modified TO-15	5.0 "Hg	15 psi
09A	VMP-13-29.5-040511	Modified TO-15	3.0 "Hg	15 psi
10A	VMP-10-5-040511	Modified TO-15	2.5 "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

Continued on next page

WORK ORDER #: 1104124A

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/06/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/19/2011		

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

CERTIFIED BY: Linda D. Truman DATE: 04/19/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1104124A

Ten 1 Liter Summa Canister samples were received on April 06, 2011. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

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

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

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

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.

Dilution was performed on samples VMP-14-11.5-040511, VMP-14-20-040511, VMP-14-29-040511, VMP-13-21.5-040511 and VMP-13-29.5-040511 due to the presence of high level target species.

Due to high-level target compounds, sample VMP-14-11.5-040511 was analyzed twice. In the "A" fraction, the sample was diluted to bring 2,2,4-Trimethylpentane 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.

Butane and Isopentane exceeded the calibration range for samples VMP-14-5-040511and VMP-14-11.5-040511.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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

Client Sample ID: VMP-14-5-040511

Lab ID#: 1104124A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.46 J	6.6	2.3 J
Bromomethane	1.3	~~0.62 J~~ U	5.2	~~2.0 J~~ U
Freon 11	1.3	0.33 J	7.6	1.8 J
Ethanol	5.4	6.5	10	12
Acetone	5.4	5.1 J	13	12 J
2-Propanol	5.4	1.6 J	13	4.0 J
Carbon Disulfide	5.4	~~0.32 J~~ U	17	~~1.0 J~~ U
Methylene Chloride	1.3	0.63 J	4.7	2.2 J
Methyl tert-butyl ether	1.3	0.14 J	4.8	0.51 J
Hexane	1.3	2.1	4.7	7.6
Cyclohexane	1.3	0.37 J	4.6	1.3 J
2,2,4-Trimethylpentane	1.3	0.89 J	6.3	4.2 J
Benzene	1.3	3.5	4.3	11
Trichloroethene	1.3	~~0.58 J~~ U	7.2	~~3.1 J~~ U
Toluene	1.3	0.86 J	5.1	3.2 J
Tetrachloroethene	1.3	~~0.15 J~~ U	9.1	~~1.0 J~~ U
1,3-Dichlorobenzene	1.3	~~0.22 J~~ U	8.1	~~1.4 J~~ U
1,4-Dichlorobenzene	1.3	~~0.18 J~~ U	8.1	~~1.1 J~~ U
1,2-Dichlorobenzene	1.3	~~0.17 J~~ U	8.1	~~1.0 J~~ U
1,2,4-Trichlorobenzene	5.4	~~0.67 J~~ U	40	~~5.0 J~~ U
Butane	5.4	630 E J	13	1500 E J
Isopentane	5.4	580 E J	16	1700 E J

Client Sample ID: VMP-14-11.5-040511

Lab ID#: 1104124A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroethane	54	12 J	140	33 J
Hexane	13	42	47	150
Cyclohexane	13	360	46	1200
2,2,4-Trimethylpentane	13	4500	63	21000

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

Client Sample ID: VMP-14-11.5-040511

Lab ID#: 1104124A-02A

Benzene	13	27	43	87
Toluene	13	8.6 J	51	32 J
Butane	54	7400 E J	130	18000 E J
Isopentane	54	14000 E J	160	41000 E J

Client Sample ID: VMP-14-11.5-040511

Lab ID#: 1104124A-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroethane	18	14 J	47	37 J
Carbon Disulfide	18	~~0.92 J~~ U	56	~~2.9 J~~ U
Hexane	4.5	42	16	150
2-Butanone (Methyl Ethyl Ketone)	18	4.7 J	53	14 J
Cyclohexane	4.5	360	15	1200
2,2,4-Trimethylpentane	4.5	3700 E	21	17000 E
Benzene	4.5	25	14	79
Toluene	4.5	9.3	17	35
Ethyl Benzene	4.5	1.2 J	19	5.4 J
m,p-Xylene	4.5	0.95 J	19	4.1 J
Propylbenzene	4.5	4.0 J	22	20 J
1,2,4-Trimethylbenzene	4.5	0.73 J	22	3.6 J
Butane	18	6100 E J	43	14000 E J
Isopentane	18	14000 E J	53	43000 E J

Client Sample ID: VMP-14-20-040511

Lab ID#: 1104124A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	38000	7400 J	90000	18000 J
Hexane	9500	100000	33000	350000
Cyclohexane	9500	44000	33000	150000
2,2,4-Trimethylpentane	9500	32000	44000	150000
Benzene	9500	6900000	30000	22000000

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

Client Sample ID: VMP-14-20-040511

Lab ID#: 1104124A-03A

Heptane	9500	12000	39000	51000
Butane	38000	1400000	90000	3400000
Isopentane	38000	1100000	110000	3200000

Client Sample ID: VMP-14-29-040511

Lab ID#: 1104124A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	28000	200000	97000	700000
Cyclohexane	28000	74000	95000	250000
2,2,4-Trimethylpentane	28000	60000	130000	280000
Benzene	28000	16000000	88000	51000000
Heptane	28000	35000	110000	140000
Toluene	28000	13000 J	100000	50000 J
Butane	110000	2000000	260000	4900000
Isopentane	110000	1600000	320000	4600000

Client Sample ID: VMP-13-5-040511

Lab ID#: 1104124A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	11	2.9 J	21	5.4 J
Acetone	11	7.2 J	26	17 J
Methylene Chloride	2.8	2.4 J	9.6	8.2 J
Hexane	2.8	2.5 J	9.7	8.8 J
Cyclohexane	2.8	0.60 J	9.5	2.1 J
2,2,4-Trimethylpentane	2.8	2.5 J	13	12 J
Benzene	2.8	15	8.8	48
Heptane	2.8	1.7 J	11	7.0 J
Trichloroethene	2.8	1.1 J	15	6.0 J
Toluene	2.8	0.69 J	10	2.6 J
Tetrachloroethene	2.8	~~0.27 J~~ U	19	~~1.8 J~~ U
1,4-Dichlorobenzene	2.8	~~0.37 J~~ U	16	~~2.2 J~~ U

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

Client Sample ID: VMP-13-5-040511

Lab ID#: 1104124A-05A

1,2-Dichlorobenzene	2.8	~~0.26 J~~ U	16	~~1.7 J~~ U
1,2,4-Trichlorobenzene	11	~~0.81 J~~ U	82	~~6.0 J~~ U
Butane	11	7.4 J	26	18 J
Isopentane	11	7.0 J	32	21 J

Client Sample ID: VMP-13-10.5-040511

Lab ID#: 1104124A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.7	0.58 J	13	2.9 J
Freon 11	2.7	0.33 J	15	1.8 J
Ethanol	11	9.3 J	20	18 J
Acetone	11	5.4 J	25	13 J
Carbon Disulfide	11	1.5 J	33	4.7 J
Methylene Chloride	2.7	6.1	9.2	21
Hexane	2.7	1.0 J	9.4	3.6 J
Benzene	2.7	1.8 J	8.5	5.7 J
Trichloroethene	2.7	0.90 J	14	4.8 J
Toluene	2.7	0.47 J	10	1.8 J
1,3-Dichlorobenzene	2.7	~~9.37 J~~ U	16	~~2.2 J~~ U
1,4-Dichlorobenzene	2.7	~~0.32 J~~ U	16	~~1.9 J~~ U
1,2,4-Trichlorobenzene	11	~~0.95 J~~ U	79	~~7.1 J~~ U
Isopentane	11	1.6 J	31	4.7 J

Client Sample ID: VMP-13-10.5-040511-DUP

Lab ID#: 1104124A-07A

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 11	1.4	0.15 J	7.8	0.87 J
Ethanol	5.5	4.1 J	10	7.7 J
Acetone	5.5	4.9 J	13	12 J
2-Propanol	5.5	0.88 J	14	2.2 J

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

Client Sample ID: VMP-13-10.5-040511-DUP

Lab ID#: 1104124A-07A

Methylene Chloride	1.4	~~0.47 J~~ U	4.8	~~1.6 J~~ U
Hexane	1.4	1.8	4.9	6.3
Cyclohexane	1.4	1.1 J	4.8	3.9 J
2,2,4-Trimethylpentane	1.4	0.26 J	6.4	1.2 J
Benzene	1.4	5.2	4.4	17
Heptane	1.4	0.73 J	5.6	3.0 J
Trichloroethene	1.4	~~0.42 J~~ U	7.4	~~2.3 J~~ U
Toluene	1.4	0.29 J	5.2	1.1 J
Tetrachloroethene	1.4	~~0.24 J~~ U	9.4	~~1.6 J~~ U
Dibromochloromethane	1.4	~~0.27 J~~ U	12	~~2.3 J~~ U
1,2-Dibromoethane (EDB)	1.4	~~0.16 J~~ U	11	~~1.2 J~~ U
m,p-Xylene	1.4	~~0.18 J~~ U	6.0	~~0.81 J~~ U
1,4-Dichlorobenzene	1.4	~~0.17 J~~ U	8.3	~~1.0 J~~ U
1,2,4-Trichlorobenzene	5.5	~~0.34 J~~ U	41	~~2.5 J~~ U
Butane	5.5	5.0 J	13	12 J
Isopentane	5.5	5.8	16	17

Client Sample ID: VMP-13-21.5-040511

Lab ID#: 1104124A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	1000	660 J	3500	2300 J
Cyclohexane	1000	290 J	3500	1000 J
2,2,4-Trimethylpentane	1000	3400	4700	16000
Benzene	1000	450000	3200	1400000
Butane	4000	15000	9600	35000
Isopentane	4000	14000	12000	40000

Client Sample ID: VMP-13-29.5-040511

Lab ID#: 1104124A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,2,4-Trimethylpentane	14000	8700 J	65000	41000 J

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

Client Sample ID: VMP-13-29.5-040511

Lab ID#: 1104124A-09A

Benzene	14000	7300000	45000	23000000
Toluene	14000	5100 J	53000	19000 J
Ethyl Benzene	14000	4500 J	61000	20000 J
m,p-Xylene	14000	5400 J	61000	23000 J
Butane	56000	40000 J	130000	94000 J
Isopentane	56000	35000 J	160000	100000 J

Client Sample ID: VMP-10-5-040511

Lab ID#: 1104124A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	0.43 J	5.4	2.1 J
Freon 11	1.1	0.15 J	6.2	0.85 J
Ethanol	4.4	15	8.3	28
Acetone	4.4	15	10	35
2-Propanol	4.4	26	11	65
Methylene Chloride	1.1	~~0.48 J~~ U	3.8	~~1.7 J~~ U
Methyl tert-butyl ether	1.1	0.10 J	4.0	0.36 J
Hexane	1.1	1.9	3.9	6.6
2-Butanone (Methyl Ethyl Ketone)	4.4	2.8 J	13	8.2 J
Tetrahydrofuran	1.1	2.1	3.2	6.2
Cyclohexane	1.1	1.5	3.8	5.3
2,2,4-Trimethylpentane	1.1	2.3	5.1	11
Benzene	1.1	120	3.5	380
Heptane	1.1	1.2	4.5	5.1
Trichloroethene	1.1	~~0.51 J~~ U	5.9	~~2.8 J~~ U
4-Methyl-2-pentanone	1.1	9.6	4.5	39
Toluene	1.1	2.2	4.1	8.2
Tetrachloroethene	1.1	~~0.41 J~~ U	7.5	~~2.8 J~~ U
Ethyl Benzene	1.1	0.42 J	4.8	1.8 J
m,p-Xylene	1.1	1.3	4.8	5.8
o-Xylene	1.1	~~0.43 J~~ U	4.8	~~1.8 J~~ U
Cumene	1.1	2.6	5.4	13

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

Client Sample ID: VMP-10-5-040511

Lab ID#: 1104124A-10A

Propylbenzene	1.1	~~0.20 J~~ U	5.4	~~0.98 J~~ U
4-Ethyltoluene	1.1	1.0 J	5.4	5.0 J
1,3,5-Trimethylbenzene	1.1	~~0.34 J~~ U	5.4	~~1.6 J~~ U
1,2,4-Trimethylbenzene	1.1	1.1	5.4	5.4
1,4-Dichlorobenzene	1.1	~~0.14 J~~ U	6.6	~~0.86 J~~ U
1,2-Dichlorobenzene	1.1	~~0.094 J~~ U	6.6	~~0.57 J~~ U
1,2,4-Trichlorobenzene	4.4	~~0.29 J~~ U	33	~~2.1 J~~ U
Butane	4.4	5.6	10	13
Isopentane	4.4	5.9	13	17

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Client Sample ID: VMP-14-5-040511

Lab ID#: 1104124A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041415**	**Date of Collection:**	**4/5/11 10:18:00 AM**
Dil. Factor:	**2.69**	**Date of Analysis:**	**4/14/11 03:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.46 J	6.6	2.3 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	~~0.52 J~~ U	5.2	~~2.0 J~~ U
Chloroethane	5.4	Not Detected	14	Not Detected
Freon 11	1.3	0.33 J	7.6	1.8 J
Ethanol	5.4	6.5	10	12
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Acetone	5.4	5.1 J	13	12 J
2-Propanol	5.4	1.6 J	13	4.0 J
Carbon Disulfide	5.4	~~0.32 J~~ U	17	~~1.0 J~~ U
3-Chloropropene	5.4	Not Detected	17	Not Detected
Methylene Chloride	1.3	0.63 J	4.7	2.2 J
Methyl tert-butyl ether	1.3	0.14 J	4.8	0.51 J
trans-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Hexane	1.3	2.1	4.7	7.6
1,1-Dichloroethane	1.3	Not Detected	5.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.4	Not Detected	16	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Tetrahydrofuran	1.3	Not Detected	4.0	Not Detected
Chloroform	1.3	Not Detected	6.6	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Cyclohexane	1.3	0.37 J	4.6	1.3 J
Carbon Tetrachloride	1.3	Not Detected	8.5	Not Detected
2,2,4-Trimethylpentane	1.3	0.89 J	6.3	4.2 J
Benzene	1.3	3.5	4.3	11
1,2-Dichloroethane	1.3	Not Detected	5.4	Not Detected
Heptane	1.3	Not Detected	5.5	Not Detected
Trichloroethene	1.3	~~0.58 J~~ U	7.2	~~3.1 J~~ U
1,2-Dichloropropane	1.3	Not Detected	6.2	Not Detected
1,4-Dioxane	5.4	Not Detected	19	Not Detected
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	Not Detected	5.5	Not Detected
Toluene	1.3	0.86 J	5.1	3.2 J
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	~~0.15 J~~ U	9.1	~~1.0 J~~ U

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Laboratory Services Since 1989

Client Sample ID: VMP-14-5-040511

Lab ID#: 1104124A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041415**	**Date of Collection:**	**4/5/11 10:18:00 AM**
Dil. Factor:	**2.69**	**Date of Analysis:**	**4/14/11 03:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.4	Not Detected	22	Not Detected
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	Not Detected	5.8	Not Detected
m,p-Xylene	1.3	Not Detected	5.8	Not Detected
o-Xylene	1.3	Not Detected	5.8	Not Detected
Styrene	1.3	Not Detected	5.7	Not Detected
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	Not Detected	6.6	Not Detected
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	Not Detected	6.6	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.6	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.6	Not Detected
1,3-Dichlorobenzene	1.3	~~0.22 J~~ U	8.1	~~1.4 J~~ U
1,4-Dichlorobenzene	1.3	~~0.18 J~~ U	8.1	~~1.1 J~~ U
alpha-Chlorotoluene	1.3	Not Detected	7.0	Not Detected
1,2-Dichlorobenzene	1.3	~~0.17 J~~ U	8.1	~~1.0 J~~ U
1,2,4-Trichlorobenzene	5.4	~~0.67 J~~ U	40	~~5.0 J~~ U
Hexachlorobutadiene	5.4	Not Detected	57	Not Detected
Butane	5.4	630 E J	13	1500 E J
Isopentane	5.4	580 E J	16	1700 E J

J = Estimated value.
E = Exceeds instrument calibration range.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	86	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-14-11.5-040511

Lab ID#: 1104124A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041430**	**Date of Collection:**	**4/5/11 1:40:00 AM**
Dil. Factor:	**26.9**	**Date of Analysis:**	**4/15/11 12:15 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	13	Not Detected	66	Not Detected
Freon 114	13	Not Detected	94	Not Detected
Chloromethane	54	Not Detected	110	Not Detected
Vinyl Chloride	13	Not Detected	34	Not Detected
1,3-Butadiene	13	Not Detected	30	Not Detected
Bromomethane	13	Not Detected	52	Not Detected
Chloroethane	54	12 J	140	33 J
Freon 11	13	Not Detected	76	Not Detected
Ethanol	54	Not Detected	100	Not Detected
Freon 113	13	Not Detected	100	Not Detected
1,1-Dichloroethene	13	Not Detected	53	Not Detected
Acetone	54	Not Detected	130	Not Detected
2-Propanol	54	Not Detected	130	Not Detected
Carbon Disulfide	54	Not Detected	170	Not Detected
3-Chloropropene	54	Not Detected	170	Not Detected
Methylene Chloride	13	Not Detected	47	Not Detected
Methyl tert-butyl ether	13	Not Detected	48	Not Detected
trans-1,2-Dichloroethene	13	Not Detected	53	Not Detected
Hexane	13	42	47	150
1,1-Dichloroethane	13	Not Detected	54	Not Detected
2-Butanone (Methyl Ethyl Ketone)	54	Not Detected	160	Not Detected
cis-1,2-Dichloroethene	13	Not Detected	53	Not Detected
Tetrahydrofuran	13	Not Detected	40	Not Detected
Chloroform	13	Not Detected	66	Not Detected
1,1,1-Trichloroethane	13	Not Detected	73	Not Detected
Cyclohexane	13	360	46	1200
Carbon Tetrachloride	13	Not Detected	85	Not Detected
2,2,4-Trimethylpentane	13	4500	63	21000
Benzene	13	27	43	87
1,2-Dichloroethane	13	Not Detected	54	Not Detected
Heptane	13	Not Detected	55	Not Detected
Trichloroethene	13	Not Detected	72	Not Detected
1,2-Dichloropropane	13	Not Detected	62	Not Detected
1,4-Dioxane	54	Not Detected	190	Not Detected
Bromodichloromethane	13	Not Detected	90	Not Detected
cis-1,3-Dichloropropene	13	Not Detected	61	Not Detected
4-Methyl-2-pentanone	13	Not Detected	55	Not Detected
Toluene	13	8.6 J	51	32 J
trans-1,3-Dichloropropene	13	Not Detected	61	Not Detected
1,1,2-Trichloroethane	13	Not Detected	73	Not Detected
Tetrachloroethene	13	Not Detected	91	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-14-11.5-040511

Lab ID#: 1104124A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041430**	**Date of Collection:**	**4/5/11 1:40:00 AM**
Dil. Factor:	**26.9**	**Date of Analysis:**	**4/15/11 12:15 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	54	Not Detected	220	Not Detected
Dibromochloromethane	13	Not Detected	110	Not Detected
1,2-Dibromoethane (EDB)	13	Not Detected	100	Not Detected
Chlorobenzene	13	Not Detected	62	Not Detected
Ethyl Benzene	13	Not Detected	58	Not Detected
m,p-Xylene	13	Not Detected	58	Not Detected
o-Xylene	13	Not Detected	58	Not Detected
Styrene	13	Not Detected	57	Not Detected
Bromoform	13	Not Detected	140	Not Detected
Cumene	13	Not Detected	66	Not Detected
1,1,2,2-Tetrachloroethane	13	Not Detected	92	Not Detected
Propylbenzene	13	Not Detected	66	Not Detected
4-Ethyltoluene	13	Not Detected	66	Not Detected
1,3,5-Trimethylbenzene	13	Not Detected	66	Not Detected
1,2,4-Trimethylbenzene	13	Not Detected	66	Not Detected
1,3-Dichlorobenzene	13	Not Detected	81	Not Detected
1,4-Dichlorobenzene	13	Not Detected	81	Not Detected
alpha-Chlorotoluene	13	Not Detected	70	Not Detected
1,2-Dichlorobenzene	13	Not Detected	81	Not Detected
1,2,4-Trichlorobenzene	54	Not Detected	400	Not Detected
Hexachlorobutadiene	54	Not Detected	570	Not Detected
Butane	54	7400 E J	130	18000 E J
Isopentane	54	14000 E J	160	41000 E J

J = Estimated value.
E = Exceeds instrument calibration range.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	90	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-14-11.5-040511

Lab ID#: 1104124A-02B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041424**	**Date of Collection:**	**4/5/11 1:40:00 AM**
Dil. Factor:	**8.97**	**Date of Analysis:**	**4/14/11 09:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	4.5	Not Detected	22	Not Detected
Freon 114	4.5	Not Detected	31	Not Detected
Chloromethane	18	Not Detected	37	Not Detected
Vinyl Chloride	4.5	Not Detected	11	Not Detected
1,3-Butadiene	4.5	Not Detected	9.9	Not Detected
Bromomethane	4.5	Not Detected	17	Not Detected
Chloroethane	18	14 J	47	37 J
Freon 11	4.5	Not Detected	25	Not Detected
Ethanol	18	Not Detected	34	Not Detected
Freon 113	4.5	Not Detected	34	Not Detected
1,1-Dichloroethene	4.5	Not Detected	18	Not Detected
Acetone	18	Not Detected	43	Not Detected
2-Propanol	18	Not Detected	44	Not Detected
Carbon Disulfide	18	~~0.92 J~~ U	56	~~2.9 J~~ U
3-Chloropropene	18	Not Detected	56	Not Detected
Methylene Chloride	4.5	Not Detected	16	Not Detected
Methyl tert-butyl ether	4.5	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	4.5	Not Detected	18	Not Detected
Hexane	4.5	42	16	150
1,1-Dichloroethane	4.5	Not Detected	18	Not Detected
2-Butanone (Methyl Ethyl Ketone)	18	4.7 J	53	14 J
cis-1,2-Dichloroethene	4.5	Not Detected	18	Not Detected
Tetrahydrofuran	4.5	Not Detected	13	Not Detected
Chloroform	4.5	Not Detected	22	Not Detected
1,1,1-Trichloroethane	4.5	Not Detected	24	Not Detected
Cyclohexane	4.5	360	15	1200
Carbon Tetrachloride	4.5	Not Detected	28	Not Detected
2,2,4-Trimethylpentane	4.5	3700 E	21	17000 E
Benzene	4.5	25	14	79
1,2-Dichloroethane	4.5	Not Detected	18	Not Detected
Heptane	4.5	Not Detected	18	Not Detected
Trichloroethene	4.5	Not Detected	24	Not Detected
1,2-Dichloropropane	4.5	Not Detected	21	Not Detected
1,4-Dioxane	18	Not Detected	65	Not Detected
Bromodichloromethane	4.5	Not Detected	30	Not Detected
cis-1,3-Dichloropropene	4.5	Not Detected	20	Not Detected
4-Methyl-2-pentanone	4.5	Not Detected	18	Not Detected
Toluene	4.5	9.3	17	35
trans-1,3-Dichloropropene	4.5	Not Detected	20	Not Detected
1,1,2-Trichloroethane	4.5	Not Detected	24	Not Detected
Tetrachloroethene	4.5	Not Detected	30	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-14-11.5-040511

Lab ID#: 1104124A-02B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041424**	**Date of Collection:**	**4/5/11 1:40:00 AM**
Dil. Factor:	**8.97**	**Date of Analysis:**	**4/14/11 09:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	18	Not Detected	73	Not Detected
Dibromochloromethane	4.5	Not Detected	38	Not Detected
1,2-Dibromoethane (EDB)	4.5	Not Detected	34	Not Detected
Chlorobenzene	4.5	Not Detected	21	Not Detected
Ethyl Benzene	4.5	1.2 J	19	5.4 J
m,p-Xylene	4.5	0.95 J	19	4.1 J
o-Xylene	4.5	Not Detected	19	Not Detected
Styrene	4.5	Not Detected	19	Not Detected
Bromoform	4.5	Not Detected	46	Not Detected
Cumene	4.5	Not Detected	22	Not Detected
1,1,2,2-Tetrachloroethane	4.5	Not Detected	31	Not Detected
Propylbenzene	4.5	4.0 J	22	20 J
4-Ethyltoluene	4.5	Not Detected	22	Not Detected
1,3,5-Trimethylbenzene	4.5	Not Detected	22	Not Detected
1,2,4-Trimethylbenzene	4.5	0.73 J	22	3.6 J
1,3-Dichlorobenzene	4.5	Not Detected	27	Not Detected
1,4-Dichlorobenzene	4.5	Not Detected	27	Not Detected
alpha-Chlorotoluene	4.5	Not Detected	23	Not Detected
1,2-Dichlorobenzene	4.5	Not Detected	27	Not Detected
1,2,4-Trichlorobenzene	18	Not Detected	130	Not Detected
Hexachlorobutadiene	18	Not Detected	190	Not Detected
Butane	18	6100 E J	43	14000 E J
Isopentane	18	14000 E J	53	43000 E J

J = Estimated value.
E = Exceeds instrument calibration range.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	95	70-130
4-Bromofluorobenzene	102 ✓	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-14-20-040511

Lab ID#: 1104124A-03A

EPA METHOD TO-15 GC/MS

File Name:	**b041819**	**Date of Collection:**	**4/5/11 1:11:00 PM**
Dil. Factor:	**1900**	**Date of Analysis:**	**4/18/11 06:32 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	9500	Not Detected	47000	Not Detected
Freon 114	9500	Not Detected	66000	Not Detected
Chloromethane	38000	Not Detected	78000	Not Detected
Vinyl Chloride	9500	Not Detected	24000	Not Detected
1,3-Butadiene	9500	Not Detected	21000	Not Detected
Bromomethane	9500	Not Detected	37000	Not Detected
Chloroethane	38000	Not Detected	100000	Not Detected
Freon 11	9500	Not Detected	53000	Not Detected
Ethanol	38000	Not Detected	72000	Not Detected
Freon 113	9500	Not Detected	73000	Not Detected
1,1-Dichloroethene	9500	Not Detected	38000	Not Detected
Acetone	38000	7400 J	90000	18000 J
2-Propanol	38000	Not Detected	93000	Not Detected
Carbon Disulfide	9500	Not Detected	30000	Not Detected
3-Chloropropene	38000	Not Detected	120000	Not Detected
Methylene Chloride	9500	Not Detected	33000	Not Detected
Methyl tert-butyl ether	9500	Not Detected	34000	Not Detected
trans-1,2-Dichloroethene	9500	Not Detected	38000	Not Detected
Hexane	9500	100000	33000	350000
1,1-Dichloroethane	9500	Not Detected	38000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	38000	Not Detected	110000	Not Detected
cis-1,2-Dichloroethene	9500	Not Detected	38000	Not Detected
Tetrahydrofuran	9500	Not Detected	28000	Not Detected
Chloroform	9500	Not Detected	46000	Not Detected
1,1,1-Trichloroethane	9500	Not Detected	52000	Not Detected
Cyclohexane	9500	44000	33000	150000
Carbon Tetrachloride	9500	Not Detected	60000	Not Detected
2,2,4-Trimethylpentane	9500	32000	44000	150000
Benzene	9500	6900000	30000	22000000
1,2-Dichloroethane	9500	Not Detected	38000	Not Detected
Heptane	9500	12000	39000	51000
Trichloroethene	9500	Not Detected	51000	Not Detected
1,2-Dichloropropane	9500	Not Detected	44000	Not Detected
1,4-Dioxane	38000	Not Detected	140000	Not Detected
Bromodichloromethane	9500	Not Detected	64000	Not Detected
cis-1,3-Dichloropropene	9500	Not Detected	43000	Not Detected
4-Methyl-2-pentanone	9500	Not Detected	39000	Not Detected
Toluene	9500	Not Detected	36000	Not Detected
trans-1,3-Dichloropropene	9500	Not Detected	43000	Not Detected
1,1,2-Trichloroethane	9500	Not Detected	52000	Not Detected
Tetrachloroethene	9500	Not Detected	64000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-14-20-040511

Lab ID#: 1104124A-03A

EPA METHOD TO-15 GC/MS

File Name:	**b041819**	**Date of Collection: 4/5/11 1:11:00 PM**	
Dil. Factor:	**1900**	**Date of Analysis: 4/18/11 06:32 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	38000	Not Detected	160000	Not Detected
Dibromochloromethane	9500	Not Detected	81000	Not Detected
1,2-Dibromoethane (EDB)	9500	Not Detected	73000	Not Detected
Chlorobenzene	9500	Not Detected	44000	Not Detected
Ethyl Benzene	9500	Not Detected	41000	Not Detected
m,p-Xylene	9500	Not Detected	41000	Not Detected
o-Xylene	9500	Not Detected	41000	Not Detected
Styrene	9500	Not Detected	40000	Not Detected
Bromoform	9500	Not Detected	98000	Not Detected
Cumene	9500	Not Detected	47000	Not Detected
1,1,2,2-Tetrachloroethane	9500	Not Detected	65000	Not Detected
Propylbenzene	9500	Not Detected	47000	Not Detected
4-Ethyltoluene	9500	Not Detected	47000	Not Detected
1,3,5-Trimethylbenzene	9500	Not Detected	47000	Not Detected
1,2,4-Trimethylbenzene	9500	Not Detected	47000	Not Detected
1,3-Dichlorobenzene	9500	Not Detected	57000	Not Detected
1,4-Dichlorobenzene	9500	Not Detected	57000	Not Detected
alpha-Chlorotoluene	9500	Not Detected	49000	Not Detected
1,2-Dichlorobenzene	9500	Not Detected	57000	Not Detected
1,2,4-Trichlorobenzene	38000	Not Detected	280000	Not Detected
Hexachlorobutadiene	38000	Not Detected	400000	Not Detected
Butane	38000	1400000	90000	3400000
Isopentane	38000	1100000	110000	3200000

J = Estimated value.

Container Type: 1 Liter Summa Canister

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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-14-29-040511

Lab ID#: 1104124A-04A

EPA METHOD TO-15 GC/MS

File Name:	**b041817**	**Date of Collection: 4/5/11 2:20:00 PM**	
Dil. Factor:	**5520**	**Date of Analysis: 4/18/11 04:58 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	70000	Not Detected
1,3-Butadiene	28000	Not Detected	61000	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	Not Detected	270000	Not Detected
Carbon Disulfide	28000	Not Detected	86000	Not Detected
3-Chloropropene	110000	Not Detected	340000	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	200000	97000	700000
1,1-Dichloroethane	28000	Not Detected	110000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	110000	Not Detected	320000	Not Detected
cis-1,2-Dichloroethene	28000	Not Detected	110000	Not Detected
Tetrahydrofuran	28000	Not Detected	81000	Not Detected
Chloroform	28000	Not Detected	130000	Not Detected
1,1,1-Trichloroethane	28000	Not Detected	150000	Not Detected
Cyclohexane	28000	74000	95000	250000
Carbon Tetrachloride	28000	Not Detected	170000	Not Detected
2,2,4-Trimethylpentane	28000	60000	130000	280000
Benzene	28000	16000000	88000	51000000
1,2-Dichloroethane	28000	Not Detected	110000	Not Detected
Heptane	28000	35000	110000	140000
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	180000	Not Detected
cis-1,3-Dichloropropene	28000	Not Detected	120000	Not Detected
4-Methyl-2-pentanone	28000	Not Detected	110000	Not Detected
Toluene	28000	13000 J	100000	50000 J
trans-1,3-Dichloropropene	28000	Not Detected	120000	Not Detected
1,1,2-Trichloroethane	28000	Not Detected	150000	Not Detected
Tetrachloroethene	28000	Not Detected	190000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-14-29-040511

Lab ID#: 1104124A-04A

EPA METHOD TO-15 GC/MS

File Name:	**b041817**	**Date of Collection: 4/5/11 2:20:00 PM**	
Dil. Factor:	**5520**	**Date of Analysis: 4/18/11 04:58 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	110000	Not Detected	450000	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	280000	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	160000	Not Detected
1,4-Dichlorobenzene	28000	Not Detected	160000	Not Detected
alpha-Chlorotoluene	28000	Not Detected	140000	Not Detected
1,2-Dichlorobenzene	28000	Not Detected	160000	Not Detected
1,2,4-Trichlorobenzene	110000	Not Detected	820000	Not Detected
Hexachlorobutadiene	110000	Not Detected	1200000	Not Detected
Butane	110000	2000000	260000	4900000
Isopentane	110000	1600000	320000	4600000

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	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-13-5-040511

Lab ID#: 1104124A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041417**	**Date of Collection:**	**4/5/11 10:21:00 AM**
Dil. Factor:	**5.52**	**Date of Analysis:**	**4/14/11 05:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.8	Not Detected	14	Not Detected
Freon 114	2.8	Not Detected	19	Not Detected
Chloromethane	11	Not Detected	23	Not Detected
Vinyl Chloride	2.8	Not Detected	7.0	Not Detected
1,3-Butadiene	2.8	Not Detected	6.1	Not Detected
Bromomethane	2.8	Not Detected	11	Not Detected
Chloroethane	11	Not Detected	29	Not Detected
Freon 11	2.8	Not Detected	16	Not Detected
Ethanol	11	2.9 J	21	5.4 J
Freon 113	2.8	Not Detected	21	Not Detected
1,1-Dichloroethene	2.8	Not Detected	11	Not Detected
Acetone	11	7.2 J	26	17 J
2-Propanol	11	Not Detected	27	Not Detected
Carbon Disulfide	11	Not Detected	34	Not Detected
3-Chloropropene	11	Not Detected	34	Not Detected
Methylene Chloride	2.8	2.4 J	9.6	8.2 J
Methyl tert-butyl ether	2.8	Not Detected	10	Not Detected
trans-1,2-Dichloroethene	2.8	Not Detected	11	Not Detected
Hexane	2.8	2.5 J	9.7	8.8 J
1,1-Dichloroethane	2.8	Not Detected	11	Not Detected
2-Butanone (Methyl Ethyl Ketone)	11	Not Detected	32	Not Detected
cis-1,2-Dichloroethene	2.8	Not Detected	11	Not Detected
Tetrahydrofuran	2.8	Not Detected	8.1	Not Detected
Chloroform	2.8	Not Detected	13	Not Detected
1,1,1-Trichloroethane	2.8	Not Detected	15	Not Detected
Cyclohexane	2.8	0.60 J	9.5	2.1 J
Carbon Tetrachloride	2.8	Not Detected	17	Not Detected
2,2,4-Trimethylpentane	2.8	2.5 J	13	12 J
Benzene	2.8	15	8.8	48
1,2-Dichloroethane	2.8	Not Detected	11	Not Detected
Heptane	2.8	1.7 J	11	7.0 J
Trichloroethene	2.8	1.1 J	15	6.0 J
1,2-Dichloropropane	2.8	Not Detected	13	Not Detected
1,4-Dioxane	11	Not Detected	40	Not Detected
Bromodichloromethane	2.8	Not Detected	18	Not Detected
cis-1,3-Dichloropropene	2.8	Not Detected	12	Not Detected
4-Methyl-2-pentanone	2.8	Not Detected	11	Not Detected
Toluene	2.8	0.69 J	10	2.6 J
trans-1,3-Dichloropropene	2.8	Not Detected	12	Not Detected
1,1,2-Trichloroethane	2.8	Not Detected	15	Not Detected
Tetrachloroethene	2.8	~~0.27 J~~ U	19	~~1.8 J~~ U

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-13-5-040511

Lab ID#: 1104124A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041417**	**Date of Collection:**	**4/5/11 10:21:00 AM**
Dil. Factor:	**5.52**	**Date of Analysis:**	**4/14/11 05:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	11	Not Detected	45	Not Detected
Dibromochloromethane	2.8	Not Detected	24	Not Detected
1,2-Dibromoethane (EDB)	2.8	Not Detected	21	Not Detected
Chlorobenzene	2.8	Not Detected	13	Not Detected
Ethyl Benzene	2.8	Not Detected	12	Not Detected
m,p-Xylene	2.8	Not Detected	12	Not Detected
o-Xylene	2.8	Not Detected	12	Not Detected
Styrene	2.8	Not Detected	12	Not Detected
Bromoform	2.8	Not Detected	28	Not Detected
Cumene	2.8	Not Detected	14	Not Detected
1,1,2,2-Tetrachloroethane	2.8	Not Detected	19	Not Detected
Propylbenzene	2.8	Not Detected	14	Not Detected
4-Ethyltoluene	2.8	Not Detected	14	Not Detected
1,3,5-Trimethylbenzene	2.8	Not Detected	14	Not Detected
1,2,4-Trimethylbenzene	2.8	Not Detected	14	Not Detected
1,3-Dichlorobenzene	2.8	Not Detected	16	Not Detected
1,4-Dichlorobenzene	2.8	~~0.37 J~~ U	16	~~2.2 J~~ U
alpha-Chlorotoluene	2.8	Not Detected	14	Not Detected
1,2-Dichlorobenzene	2.8	~~0.28 J~~ U	16	~~1.7 J~~ U
1,2,4-Trichlorobenzene	11	~~0.81 J~~ U	82	~~6.0 J~~ U
Hexachlorobutadiene	11	Not Detected	120	Not Detected
Butane	11	7.4 J	26	18 J
Isopentane	11	7.0 J	32	21 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	90	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-13-10.5-040511

Lab ID#: 1104124A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041418**	**Date of Collection:**	**4/5/11 11:36:00 AM**
Dil. Factor:	**5.33**	**Date of Analysis:**	**4/14/11 06:08 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.7	0.58 J	13	2.9 J
Freon 114	2.7	Not Detected	19	Not Detected
Chloromethane	11	Not Detected	22	Not Detected
Vinyl Chloride	2.7	Not Detected	6.8	Not Detected
1,3-Butadiene	2.7	Not Detected	5.9	Not Detected
Bromomethane	2.7	Not Detected	10	Not Detected
Chloroethane	11	Not Detected	28	Not Detected
Freon 11	2.7	0.33 J	15	1.8 J
Ethanol	11	9.3 J	20	18 J
Freon 113	2.7	Not Detected	20	Not Detected
1,1-Dichloroethene	2.7	Not Detected	10	Not Detected
Acetone	11	5.4 J	25	13 J
2-Propanol	11	Not Detected	26	Not Detected
Carbon Disulfide	11	1.5 J	33	4.7 J
3-Chloropropene	11	Not Detected	33	Not Detected
Methylene Chloride	2.7	6.1	9.2	21
Methyl tert-butyl ether	2.7	Not Detected	9.6	Not Detected
trans-1,2-Dichloroethene	2.7	Not Detected	10	Not Detected
Hexane	2.7	1.0 J	9.4	3.6 J
1,1-Dichloroethane	2.7	Not Detected	11	Not Detected
2-Butanone (Methyl Ethyl Ketone)	11	Not Detected	31	Not Detected
cis-1,2-Dichloroethene	2.7	Not Detected	10	Not Detected
Tetrahydrofuran	2.7	Not Detected	7.8	Not Detected
Chloroform	2.7	Not Detected	13	Not Detected
1,1,1-Trichloroethane	2.7	Not Detected	14	Not Detected
Cyclohexane	2.7	Not Detected	9.2	Not Detected
Carbon Tetrachloride	2.7	Not Detected	17	Not Detected
2,2,4-Trimethylpentane	2.7	Not Detected	12	Not Detected
Benzene	2.7	1.8 J	8.5	5.7 J
1,2-Dichloroethane	2.7	Not Detected	11	Not Detected
Heptane	2.7	Not Detected	11	Not Detected
Trichloroethene	2.7	0.90 J	14	4.8 J
1,2-Dichloropropane	2.7	Not Detected	12	Not Detected
1,4-Dioxane	11	Not Detected	38	Not Detected
Bromodichloromethane	2.7	Not Detected	18	Not Detected
cis-1,3-Dichloropropene	2.7	Not Detected	12	Not Detected
4-Methyl-2-pentanone	2.7	Not Detected	11	Not Detected
Toluene	2.7	0.47 J	10	1.8 J
trans-1,3-Dichloropropene	2.7	Not Detected	12	Not Detected
1,1,2-Trichloroethane	2.7	Not Detected	14	Not Detected
Tetrachloroethene	2.7	Not Detected	18	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-13-10.5-040511

Lab ID#: 1104124A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041418**	**Date of Collection:**	**4/5/11 11:36:00 AM**
Dil. Factor:	**5.33**	**Date of Analysis:**	**4/14/11 06:08 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	11	Not Detected	44	Not Detected
Dibromochloromethane	2.7	Not Detected	23	Not Detected
1,2-Dibromoethane (EDB)	2.7	Not Detected	20	Not Detected
Chlorobenzene	2.7	Not Detected	12	Not Detected
Ethyl Benzene	2.7	Not Detected	12	Not Detected
m,p-Xylene	2.7	Not Detected	12	Not Detected
o-Xylene	2.7	Not Detected	12	Not Detected
Styrene	2.7	Not Detected	11	Not Detected
Bromoform	2.7	Not Detected	28	Not Detected
Cumene	2.7	Not Detected	13	Not Detected
1,1,2,2-Tetrachloroethane	2.7	Not Detected	18	Not Detected
Propylbenzene	2.7	Not Detected	13	Not Detected
4-Ethyltoluene	2.7	Not Detected	13	Not Detected
1,3,5-Trimethylbenzene	2.7	Not Detected	13	Not Detected
1,2,4-Trimethylbenzene	2.7	Not Detected	13	Not Detected
1,3-Dichlorobenzene	2.7	~~0.37 J~~ U	16	~~2.2 J~~ U
1,4-Dichlorobenzene	2.7	~~0.32 J~~ U	16	~~1.9 J~~ U
alpha-Chlorotoluene	2.7	Not Detected	14	Not Detected
1,2-Dichlorobenzene	2.7	Not Detected	16	Not Detected
1,2,4-Trichlorobenzene	11	~~0.95 J~~ U	79	~~7.1 J~~ U
Hexachlorobutadiene	11	Not Detected	110	Not Detected
Butane	11	Not Detected	25	Not Detected
Isopentane	11	1.6 J	31	4.7 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	90	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-13-10.5-040511-DUP

Lab ID#: 1104124A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041420**	**Date of Collection: 4/5/11 11:36:00 AM**	
Dil. Factor:	**2.76**	**Date of Analysis: 4/14/11 07:20 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	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	0.15 J	7.8	0.87 J
Ethanol	5.5	4.1 J	10	7.7 J
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	5.5	4.9 J	13	12 J
2-Propanol	5.5	0.88 J	14	2.2 J
Carbon Disulfide	5.5	Not Detected	17	Not Detected
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	1.4	~~0.47 J~~ U	4.8	~~1.6 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	1.8	4.9	6.3
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	Not Detected	16	Not Detected
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	1.1 J	4.8	3.9 J
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	0.26 J	6.4	1.2 J
Benzene	1.4	5.2	4.4	17
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	0.73 J	5.6	3.0 J
Trichloroethene	1.4	~~0.42 J~~ U	7.4	~~2.3 J~~ U
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	Not Detected	5.6	Not Detected
Toluene	1.4	0.29 J	5.2	1.1 J
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	~~0.24 J~~ U	9.4	~~1.6 J~~ U

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-13-10.5-040511-DUP

Lab ID#: 1104124A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041420**	**Date of Collection: 4/5/11 11:36:00 AM**	
Dil. Factor:	**2.76**	**Date of Analysis: 4/14/11 07:20 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.5	Not Detected	23	Not Detected
Dibromochloromethane	1.4	~~0.27 J~~ U	12	~~2.3 J~~ U
1,2-Dibromoethane (EDB)	1.4	~~0.16 J~~ U	11	~~1.2 J~~ U
Chlorobenzene	1.4	Not Detected	6.4	Not Detected
Ethyl Benzene	1.4	Not Detected	6.0	Not Detected
m,p-Xylene	1.4	~~0.18 J~~ U	6.0	~~0.81 J~~ U
o-Xylene	1.4	Not Detected	6.0	Not Detected
Styrene	1.4	Not Detected	5.9	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.8	Not Detected
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	Not Detected	6.8	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	~~0.17 J~~ U	8.3	~~1.0 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	~~0.34 J~~ U	41	~~2.5 J~~ U
Hexachlorobutadiene	5.5	Not Detected	59	Not Detected
Butane	5.5	5.0 J	13	12 J
Isopentane	5.5	5.8	16	17

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	86	70-130
1,2-Dichloroethane-d4	84	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-13-21.5-040511

Lab ID#: 1104124A-08A

EPA METHOD TO-15 GC/MS

File Name:	**b041808**	**Date of Collection:**	**4/5/11 2:02:00 PM**
Dil. Factor:	**202**	**Date of Analysis:**	**4/18/11 11:10 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1000	Not Detected	5000	Not Detected
Freon 114	1000	Not Detected	7100	Not Detected
Chloromethane	4000	Not Detected	8300	Not Detected
Vinyl Chloride	1000	Not Detected	2600	Not Detected
1,3-Butadiene	1000	Not Detected	2200	Not Detected
Bromomethane	1000	Not Detected	3900	Not Detected
Chloroethane	4000	Not Detected	11000	Not Detected
Freon 11	1000	Not Detected	5700	Not Detected
Ethanol	4000	Not Detected	7600	Not Detected
Freon 113	1000	Not Detected	7700	Not Detected
1,1-Dichloroethene	1000	Not Detected	4000	Not Detected
Acetone	4000	Not Detected	9600	Not Detected
2-Propanol	4000	Not Detected	9900	Not Detected
Carbon Disulfide	1000	Not Detected	3100	Not Detected
3-Chloropropene	4000	Not Detected	13000	Not Detected
Methylene Chloride	1000	660 J	3500	2300 J
Methyl tert-butyl ether	1000	Not Detected	3600	Not Detected
trans-1,2-Dichloroethene	1000	Not Detected	4000	Not Detected
Hexane	1000	Not Detected	3600	Not Detected
1,1-Dichloroethane	1000	Not Detected	4100	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4000	Not Detected	12000	Not Detected
cis-1,2-Dichloroethene	1000	Not Detected	4000	Not Detected
Tetrahydrofuran	1000	Not Detected	3000	Not Detected
Chloroform	1000	Not Detected	4900	Not Detected
1,1,1-Trichloroethane	1000	Not Detected	5500	Not Detected
Cyclohexane	1000	290 J	3500	1000 J
Carbon Tetrachloride	1000	Not Detected	6400	Not Detected
2,2,4-Trimethylpentane	1000	3400	4700	16000
Benzene	1000	450000	3200	1400000
1,2-Dichloroethane	1000	Not Detected	4100	Not Detected
Heptane	1000	Not Detected	4100	Not Detected
Trichloroethene	1000	Not Detected	5400	Not Detected
1,2-Dichloropropane	1000	Not Detected	4700	Not Detected
1,4-Dioxane	4000	Not Detected	14000	Not Detected
Bromodichloromethane	1000	Not Detected	6800	Not Detected
cis-1,3-Dichloropropene	1000	Not Detected	4600	Not Detected
4-Methyl-2-pentanone	1000	Not Detected	4100	Not Detected
Toluene	1000	Not Detected	3800	Not Detected
trans-1,3-Dichloropropene	1000	Not Detected	4600	Not Detected
1,1,2-Trichloroethane	1000	Not Detected	5500	Not Detected
Tetrachloroethene	1000	Not Detected	6800	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-13-21.5-040511

Lab ID#: 1104124A-08A

EPA METHOD TO-15 GC/MS

File Name:	**b041808**	**Date of Collection: 4/5/11 2:02:00 PM**	
Dil. Factor:	**202**	**Date of Analysis: 4/18/11 11:10 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	4000	Not Detected	16000	Not Detected
Dibromochloromethane	1000	Not Detected	8600	Not Detected
1,2-Dibromoethane (EDB)	1000	Not Detected	7800	Not Detected
Chlorobenzene	1000	Not Detected	4600	Not Detected
Ethyl Benzene	1000	Not Detected	4400	Not Detected
m,p-Xylene	1000	Not Detected	4400	Not Detected
o-Xylene	1000	Not Detected	4400	Not Detected
Styrene	1000	Not Detected	4300	Not Detected
Bromoform	1000	Not Detected	10000	Not Detected
Cumene	1000	Not Detected	5000	Not Detected
1,1,2,2-Tetrachloroethane	1000	Not Detected	6900	Not Detected
Propylbenzene	1000	Not Detected	5000	Not Detected
4-Ethyltoluene	1000	Not Detected	5000	Not Detected
1,3,5-Trimethylbenzene	1000	Not Detected	5000	Not Detected
1,2,4-Trimethylbenzene	1000	Not Detected	5000	Not Detected
1,3-Dichlorobenzene	1000	Not Detected	6100	Not Detected
1,4-Dichlorobenzene	1000	Not Detected	6100	Not Detected
alpha-Chlorotoluene	1000	Not Detected	5200	Not Detected
1,2-Dichlorobenzene	1000	Not Detected	6100	Not Detected
1,2,4-Trichlorobenzene	4000	Not Detected	30000	Not Detected
Hexachlorobutadiene	4000	Not Detected	43000	Not Detected
Butane	4000	15000	9600	35000
Isopentane	4000	14000	12000	40000

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	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-13-29.5-040511

Lab ID#: 1104124A-09A

EPA METHOD TO-15 GC/MS

File Name:	**b041812**	**Date of Collection: 4/5/11 3:20:00 PM**	
Dil. Factor:	**2800**	**Date of Analysis: 4/18/11 01:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	14000	Not Detected	69000	Not Detected
Freon 114	14000	Not Detected	98000	Not Detected
Chloromethane	56000	Not Detected	120000	Not Detected
Vinyl Chloride	14000	Not Detected	36000	Not Detected
1,3-Butadiene	14000	Not Detected	31000	Not Detected
Bromomethane	14000	Not Detected	54000	Not Detected
Chloroethane	56000	Not Detected	150000	Not Detected
Freon 11	14000	Not Detected	79000	Not Detected
Ethanol	56000	Not Detected	100000	Not Detected
Freon 113	14000	Not Detected	110000	Not Detected
1,1-Dichloroethene	14000	Not Detected	56000	Not Detected
Acetone	56000	Not Detected	130000	Not Detected
2-Propanol	56000	Not Detected	140000	Not Detected
Carbon Disulfide	14000	Not Detected	44000	Not Detected
3-Chloropropene	56000	Not Detected	180000	Not Detected
Methylene Chloride	14000	Not Detected	49000	Not Detected
Methyl tert-butyl ether	14000	Not Detected	50000	Not Detected
trans-1,2-Dichloroethene	14000	Not Detected	56000	Not Detected
Hexane	14000	Not Detected	49000	Not Detected
1,1-Dichloroethane	14000	Not Detected	57000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	56000	Not Detected	160000	Not Detected
cis-1,2-Dichloroethene	14000	Not Detected	56000	Not Detected
Tetrahydrofuran	14000	Not Detected	41000	Not Detected
Chloroform	14000	Not Detected	68000	Not Detected
1,1,1-Trichloroethane	14000	Not Detected	76000	Not Detected
Cyclohexane	14000	Not Detected	48000	Not Detected
Carbon Tetrachloride	14000	Not Detected	88000	Not Detected
2,2,4-Trimethylpentane	14000	8700 J	65000	41000 J
Benzene	14000	7300000	45000	23000000
1,2-Dichloroethane	14000	Not Detected	57000	Not Detected
Heptane	14000	Not Detected	57000	Not Detected
Trichloroethene	14000	Not Detected	75000	Not Detected
1,2-Dichloropropane	14000	Not Detected	65000	Not Detected
1,4-Dioxane	56000	Not Detected	200000	Not Detected
Bromodichloromethane	14000	Not Detected	94000	Not Detected
cis-1,3-Dichloropropene	14000	Not Detected	64000	Not Detected
4-Methyl-2-pentanone	14000	Not Detected	57000	Not Detected
Toluene	14000	5100 J	53000	19000 J
trans-1,3-Dichloropropene	14000	Not Detected	64000	Not Detected
1,1,2-Trichloroethane	14000	Not Detected	76000	Not Detected
Tetrachloroethene	14000	Not Detected	95000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-13-29.5-040511

Lab ID#: 1104124A-09A

EPA METHOD TO-15 GC/MS

File Name:	**b041812**	**Date of Collection: 4/5/11 3:20:00 PM**	
Dil. Factor:	**2800**	**Date of Analysis: 4/18/11 01:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	56000	Not Detected	230000	Not Detected
Dibromochloromethane	14000	Not Detected	120000	Not Detected
1,2-Dibromoethane (EDB)	14000	Not Detected	110000	Not Detected
Chlorobenzene	14000	Not Detected	64000	Not Detected
Ethyl Benzene	14000	4500 J	61000	20000 J
m,p-Xylene	14000	5400 J	61000	23000 J
o-Xylene	14000	Not Detected	61000	Not Detected
Styrene	14000	Not Detected	60000	Not Detected
Bromoform	14000	Not Detected	140000	Not Detected
Cumene	14000	Not Detected	69000	Not Detected
1,1,2,2-Tetrachloroethane	14000	Not Detected	96000	Not Detected
Propylbenzene	14000	Not Detected	69000	Not Detected
4-Ethyltoluene	14000	Not Detected	69000	Not Detected
1,3,5-Trimethylbenzene	14000	Not Detected	69000	Not Detected
1,2,4-Trimethylbenzene	14000	Not Detected	69000	Not Detected
1,3-Dichlorobenzene	14000	Not Detected	84000	Not Detected
1,4-Dichlorobenzene	14000	Not Detected	84000	Not Detected
alpha-Chlorotoluene	14000	Not Detected	72000	Not Detected
1,2-Dichlorobenzene	14000	Not Detected	84000	Not Detected
1,2,4-Trichlorobenzene	56000	Not Detected	420000	Not Detected
Hexachlorobutadiene	56000	Not Detected	600000	Not Detected
Butane	56000	40000 J	130000	94000 J
Isopentane	56000	35000 J	160000	100000 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-10-5-040511

Lab ID#: 1104124A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041421**	**Date of Collection: 4/5/11 4:37:00 PM**	
Dil. Factor:	**2.20**	**Date of Analysis: 4/14/11 07:39 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	0.43 J	5.4	2.1 J
Freon 114	1.1	Not Detected	7.7	Not Detected
Chloromethane	4.4	Not Detected	9.1	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
1,3-Butadiene	1.1	Not Detected	2.4	Not Detected
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	4.4	Not Detected	12	Not Detected
Freon 11	1.1	0.15 J	6.2	0.85 J
Ethanol	4.4	15	8.3	28
Freon 113	1.1	Not Detected	8.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.4	15	10	35
2-Propanol	4.4	26	11	65
Carbon Disulfide	4.4	Not Detected	14	Not Detected
3-Chloropropene	4.4	Not Detected	14	Not Detected
Methylene Chloride	1.1	~~0.48 J~~ U	3.8	~~1.7 J~~ U
Methyl tert-butyl ether	1.1	0.10 J	4.0	0.36 J
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	1.9	3.9	6.6
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.4	2.8 J	13	8.2 J
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	2.1	3.2	6.2
Chloroform	1.1	Not Detected	5.4	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Cyclohexane	1.1	1.5	3.8	5.3
Carbon Tetrachloride	1.1	Not Detected	6.9	Not Detected
2,2,4-Trimethylpentane	1.1	2.3	5.1	11
Benzene	1.1	120	3.5	380
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	1.2	4.5	5.1
Trichloroethene	1.1	~~0.51 J~~ U	5.9	~~2.8 J~~ U
1,2-Dichloropropane	1.1	Not Detected	5.1	Not Detected
1,4-Dioxane	4.4	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.4	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
4-Methyl-2-pentanone	1.1	9.6	4.5	39
Toluene	1.1	2.2	4.1	8.2
trans-1,3-Dichloropropene	1.1	Not Detected	5.0	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Tetrachloroethene	1.1	~~0.41 J~~ U	7.5	~~2.8 J~~ U

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-10-5-040511

Lab ID#: 1104124A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041421**	**Date of Collection:**	**4/5/11 4:37:00 PM**
Dil. Factor:	**2.20**	**Date of Analysis:**	**4/14/11 07:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	4.4	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.4	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.4	Not Detected
Chlorobenzene	1.1	Not Detected	5.1	Not Detected
Ethyl Benzene	1.1	0.42 J	4.8	1.8 J
m,p-Xylene	1.1	1.3	4.8	5.8
o-Xylene	1.1	~~0.43 J~~ U	4.8	~~1.8 J~~ U
Styrene	1.1	Not Detected	4.7	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	2.6	5.4	13
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.6	Not Detected
Propylbenzene	1.1	~~0.20 J~~ U	5.4	~~0.99 J~~ U
4-Ethyltoluene	1.1	1.0 J	5.4	5.0 J
1,3,5-Trimethylbenzene	1.1	~~0.34 J~~ U	5.4	~~1.6 J~~ U
1,2,4-Trimethylbenzene	1.1	1.1	5.4	5.4
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	~~0.14 J~~ U	6.6	~~0.86 J~~ U
alpha-Chlorotoluene	1.1	Not Detected	5.7	Not Detected
1,2-Dichlorobenzene	1.1	~~0.094 J~~ U	6.6	~~0.57 J~~ U
1,2,4-Trichlorobenzene	4.4	~~0.29 J~~ U	33	~~2.1 J~~ U
Hexachlorobutadiene	4.4	Not Detected	47	Not Detected
Butane	4.4	5.6	10	13
Isopentane	4.4	5.9	13	17

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	107	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104124A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041409a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/14/11 12:23 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	0.14 J	1.9	0.53 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	0.21 J	6.2	0.65 J
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	0.14 J	1.7	0.50 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	0.12 J	2.7	0.62 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	0.11 J	2.3	0.52 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	0.16 J	2.3	0.74 J
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	0.071 J	3.4	0.48 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104124A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041409a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/14/11 12:23 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	0.10 J	4.2	0.87 J
1,2-Dibromoethane (EDB)	0.50	0.14 J	3.8	1.1 J
Chlorobenzene	0.50	0.11 J	2.3	0.50 J
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	0.068 J	2.2	0.30 J
o-Xylene	0.50	0.10 J	2.2	0.44 J
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	0.085 J	3.4	0.59 J
Propylbenzene	0.50	0.10 J	2.4	0.50 J
4-Ethyltoluene	0.50	0.11 J	2.4	0.56 J
1,3,5-Trimethylbenzene	0.50	0.12 J	2.4	0.59 J
1,2,4-Trimethylbenzene	0.50	0.14 J	2.4	0.70 J
1,3-Dichlorobenzene	0.50	0.32 J	3.0	2.0 J
1,4-Dichlorobenzene	0.50	0.30 J	3.0	1.8 J
alpha-Chlorotoluene	0.50	0.14 J	2.6	0.75 J
1,2-Dichlorobenzene	0.50	0.24 J	3.0	1.4 J
1,2,4-Trichlorobenzene	2.0	1.0 J	15	7.8 J
Hexachlorobutadiene	2.0	0.84 J	21	8.9 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	92	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104124A-11B

EPA METHOD TO-15 GC/MS

File Name:	**b041805a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 09:39 AM**	

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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104124A-11B

EPA METHOD TO-15 GC/MS

File Name:	**b041805a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 09:39 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	93	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104124A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/14/11 07:34 AM**	

Compound	%Recovery
Freon 12	80
Freon 114	98
Chloromethane	77
Vinyl Chloride	84
1,3-Butadiene	89
Bromomethane	86
Chloroethane	77
Freon 11	85
Ethanol	87
Freon 113	97
1,1-Dichloroethene	92
Acetone	88
2-Propanol	97
Carbon Disulfide	76
3-Chloropropene	70
Methylene Chloride	89
Methyl tert-butyl ether	80
trans-1,2-Dichloroethene	89
Hexane	94
1,1-Dichloroethane	86
2-Butanone (Methyl Ethyl Ketone)	71
cis-1,2-Dichloroethene	86
Tetrahydrofuran	89
Chloroform	78
1,1,1-Trichloroethane	88
Cyclohexane	78
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	89
Benzene	77
1,2-Dichloroethane	91
Heptane	89
Trichloroethene	88
1,2-Dichloropropane	82
1,4-Dioxane	72
Bromodichloromethane	86
cis-1,3-Dichloropropene	86
4-Methyl-2-pentanone	88
Toluene	86
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	85
Tetrachloroethene	102

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104124A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/14/11 07:34 AM**	

Compound	%Recovery
2-Hexanone	90
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	91
Chlorobenzene	92
Ethyl Benzene	89
m,p-Xylene	84
o-Xylene	90
Styrene	88
Bromoform	102
Cumene	96
1,1,2,2-Tetrachloroethane	75
Propylbenzene	90
4-Ethyltoluene	97
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	95
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	96
1,2,4-Trichlorobenzene	113
Hexachlorobutadiene	121
Butane	88
Isopentane	85

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	90	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	111	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104124A-12B

EPA METHOD TO-15 GC/MS

File Name:	**b041802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 08:13 AM**	

Compound	%Recovery
Freon 12	94
Freon 114	93
Chloromethane	88
Vinyl Chloride	94
1,3-Butadiene	88
Bromomethane	92
Chloroethane	86
Freon 11	92
Ethanol	81
Freon 113	92
1,1-Dichloroethene	84
Acetone	84
2-Propanol	74
Carbon Disulfide	85
3-Chloropropene	82
Methylene Chloride	84
Methyl tert-butyl ether	84
trans-1,2-Dichloroethene	88
Hexane	84
1,1-Dichloroethane	85
2-Butanone (Methyl Ethyl Ketone)	81
cis-1,2-Dichloroethene	84
Tetrahydrofuran	77
Chloroform	86
1,1,1-Trichloroethane	87
Cyclohexane	90
Carbon Tetrachloride	90
2,2,4-Trimethylpentane	85
Benzene	90
1,2-Dichloroethane	88
Heptane	89
Trichloroethene	88
1,2-Dichloropropane	87
1,4-Dioxane	88
Bromodichloromethane	89
cis-1,3-Dichloropropene	83
4-Methyl-2-pentanone	84
Toluene	89
trans-1,3-Dichloropropene	89
1,1,2-Trichloroethane	93
Tetrachloroethene	94

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104124A-12B

EPA METHOD TO-15 GC/MS

File Name:	**b041802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 08:13 AM**	

Compound	%Recovery
2-Hexanone	80
Dibromochloromethane	99
1,2-Dibromoethane (EDB)	95
Chlorobenzene	97
Ethyl Benzene	96
m,p-Xylene	96
o-Xylene	96
Styrene	101
Bromoform	96
Cumene	103
1,1,2,2-Tetrachloroethane	91
Propylbenzene	97
4-Ethyltoluene	99
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	100
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	105
1,2,4-Trichlorobenzene	124
Hexachlorobutadiene	148 Q
Butane	92
Isopentane	80

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104124A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/14/11 08:07 AM**	

Compound	%Recovery
Freon 12	83
Freon 114	100
Chloromethane	85
Vinyl Chloride	90
1,3-Butadiene	97
Bromomethane	96
Chloroethane	79
Freon 11	89
Ethanol	87
Freon 113	102
1,1-Dichloroethene	100
Acetone	88
2-Propanol	92
Carbon Disulfide	101
3-Chloropropene	101
Methylene Chloride	92
Methyl tert-butyl ether	87
trans-1,2-Dichloroethene	109
Hexane	96
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	77
cis-1,2-Dichloroethene	94
Tetrahydrofuran	91
Chloroform	83
1,1,1-Trichloroethane	92
Cyclohexane	80
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	91
Benzene	78
1,2-Dichloroethane	95
Heptane	84
Trichloroethene	88
1,2-Dichloropropane	82
1,4-Dioxane	70
Bromodichloromethane	83
cis-1,3-Dichloropropene	80
4-Methyl-2-pentanone	83
Toluene	83
trans-1,3-Dichloropropene	86
1,1,2-Trichloroethane	87
Tetrachloroethene	105

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104124A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/14/11 08:07 AM**	

Compound	%Recovery
2-Hexanone	89
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	94
Chlorobenzene	99
Ethyl Benzene	90
m,p-Xylene	91
o-Xylene	89
Styrene	91
Bromoform	102
Cumene	96
1,1,2,2-Tetrachloroethane	75
Propylbenzene	92
4-Ethyltoluene	91
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	93
alpha-Chlorotoluene	101
1,2-Dichlorobenzene	94
1,2,4-Trichlorobenzene	102
Hexachlorobutadiene	116
Butane	88
Isopentane	91

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	113	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104124A-13AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/14/11 08:35 AM**	

Compound	%Recovery
Freon 12	73
Freon 114	88
Chloromethane	81
Vinyl Chloride	82
1,3-Butadiene	86
Bromomethane	83
Chloroethane	79
Freon 11	78
Ethanol	79
Freon 113	92
1,1-Dichloroethene	92
Acetone	80
2-Propanol	85
Carbon Disulfide	92
3-Chloropropene	88
Methylene Chloride	80
Methyl tert-butyl ether	78
trans-1,2-Dichloroethene	101
Hexane	87
1,1-Dichloroethane	84
2-Butanone (Methyl Ethyl Ketone)	71
cis-1,2-Dichloroethene	85
Tetrahydrofuran	82
Chloroform	73
1,1,1-Trichloroethane	83
Cyclohexane	76
Carbon Tetrachloride	89
2,2,4-Trimethylpentane	84
Benzene	81
1,2-Dichloroethane	93
Heptane	91
Trichloroethene	87
1,2-Dichloropropane	86
1,4-Dioxane	72
Bromodichloromethane	85
cis-1,3-Dichloropropene	82
4-Methyl-2-pentanone	85
Toluene	83
trans-1,3-Dichloropropene	86
1,1,2-Trichloroethane	87
Tetrachloroethene	104

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104124A-13AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/14/11 08:35 AM**	

Compound	%Recovery
2-Hexanone	87
Dibromochloromethane	101
1,2-Dibromoethane (EDB)	93
Chlorobenzene	92
Ethyl Benzene	86
m,p-Xylene	88
o-Xylene	90
Styrene	90
Bromoform	98
Cumene	95
1,1,2,2-Tetrachloroethane	74
Propylbenzene	91
4-Ethyltoluene	90
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	97
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	92
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	94
1,2,4-Trichlorobenzene	112
Hexachlorobutadiene	113
Butane	80
Isopentane	81

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	88	70-130
1,2-Dichloroethane-d4	77	70-130
4-Bromofluorobenzene	113	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104124A-13B

EPA METHOD TO-15 GC/MS

File Name:	**b041803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 08:45 AM**	

Compound	%Recovery
Freon 12	90
Freon 114	86
Chloromethane	88
Vinyl Chloride	90
1,3-Butadiene	83
Bromomethane	85
Chloroethane	80
Freon 11	85
Ethanol	72
Freon 113	86
1,1-Dichloroethene	84
Acetone	77
2-Propanol	68
Carbon Disulfide	97
3-Chloropropene	89
Methylene Chloride	78
Methyl tert-butyl ether	79
trans-1,2-Dichloroethene	92
Hexane	79
1,1-Dichloroethane	81
2-Butanone (Methyl Ethyl Ketone)	79
cis-1,2-Dichloroethene	80
Tetrahydrofuran	70
Chloroform	82
1,1,1-Trichloroethane	83
Cyclohexane	84
Carbon Tetrachloride	86
2,2,4-Trimethylpentane	80
Benzene	85
1,2-Dichloroethane	82
Heptane	83
Trichloroethene	82
1,2-Dichloropropane	81
1,4-Dioxane	82
Bromodichloromethane	82
cis-1,3-Dichloropropene	78
4-Methyl-2-pentanone	78
Toluene	82
trans-1,3-Dichloropropene	83
1,1,2-Trichloroethane	85
Tetrachloroethene	86

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104124A-13B

EPA METHOD TO-15 GC/MS

File Name:	**b041803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 08:45 AM**	

Compound	%Recovery
2-Hexanone	76
Dibromochloromethane	89
1,2-Dibromoethane (EDB)	90
Chlorobenzene	90
Ethyl Benzene	88
m,p-Xylene	90
o-Xylene	90
Styrene	93
Bromoform	88
Cumene	97
1,1,2,2-Tetrachloroethane	87
Propylbenzene	91
4-Ethyltoluene	90
1,3,5-Trimethylbenzene	93
1,2,4-Trimethylbenzene	92
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	95
alpha-Chlorotoluene	92
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	118
Hexachlorobutadiene	137 Q
Butane	79
Isopentane	74

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104124A-13BB

EPA METHOD TO-15 GC/MS

File Name:	**b041804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 09:09 AM**	

Compound	%Recovery
Freon 12	89
Freon 114	86
Chloromethane	88
Vinyl Chloride	90
1,3-Butadiene	84
Bromomethane	86
Chloroethane	79
Freon 11	85
Ethanol	74
Freon 113	88
1,1-Dichloroethene	86
Acetone	78
2-Propanol	69
Carbon Disulfide	99
3-Chloropropene	88
Methylene Chloride	78
Methyl tert-butyl ether	79
trans-1,2-Dichloroethene	92
Hexane	79
1,1-Dichloroethane	82
2-Butanone (Methyl Ethyl Ketone)	80
cis-1,2-Dichloroethene	81
Tetrahydrofuran	70
Chloroform	83
1,1,1-Trichloroethane	84
Cyclohexane	85
Carbon Tetrachloride	86
2,2,4-Trimethylpentane	81
Benzene	85
1,2-Dichloroethane	82
Heptane	84
Trichloroethene	82
1,2-Dichloropropane	81
1,4-Dioxane	81
Bromodichloromethane	82
cis-1,3-Dichloropropene	79
4-Methyl-2-pentanone	81
Toluene	82
trans-1,3-Dichloropropene	81
1,1,2-Trichloroethane	85
Tetrachloroethene	85

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104124A-13BB

EPA METHOD TO-15 GC/MS

File Name:	**b041804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 09:09 AM**	

Compound	%Recovery
2-Hexanone	74
Dibromochloromethane	88
1,2-Dibromoethane (EDB)	88
Chlorobenzene	90
Ethyl Benzene	88
m,p-Xylene	90
o-Xylene	90
Styrene	93
Bromoform	87
Cumene	96
1,1,2,2-Tetrachloroethane	86
Propylbenzene	92
4-Ethyltoluene	90
1,3,5-Trimethylbenzene	93
1,2,4-Trimethylbenzene	93
1,3-Dichlorobenzene	97
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	92
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	126
Hexachlorobutadiene	143 Q
Butane	80
Isopentane	74

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130

1104124

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21582593.00008
Lab Vendor #

Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Thomas Adams
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 8 6 4 0
SAP #: 3 4 0 0 5 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 04/05/11
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
COF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT MANAGER: Roxana Dissolved Phase
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (Print): M. Miller, C Smith, B. Crafton, W. Buchman
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-Mail: Thomas_Adams@URSCorp.com

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
01A	VMP-14-5-040511	04/05/11	0943 - 1018	2116	-29.5	-8.5			X	X	
02A	VMP-14-11.5-040511	04/05/11	1108 - 140	2011	-29	-8.5			X	X	
03A	VMP-14-20-040511	04/05/11	1239 - 1311	196	-28.5	-7			X	X	
04A	VMP-14-29-040511	04/05/11	1350 - 1420	3079	-28.5	-8			X	X	
05A	VMP-13-5-040511	04/05/11	0949 - 1021	1368	-28.5	-7			X	X	
06A	VMP-13-10.5-040511	04/05/11	1100 - 1138	3087	-28.5	-8.5			X	X	
07A	VMP-13-10.5-040511-DUP	04/05/11	1100 - 1138	3246	-28.5	-8			X	X	
08A	VMP-13-21.5-040511	04/05/11	1336 - 1402	3002	-29	-2			X	X	
09A	VMP-13-29.5-040511	04/05/11	1458 - 1529	2036	-29.5	-2			X	X	
10A	VMP-10-5-040511	04/05/11	1609 - 1637	1514	-25.5	-1.5			X	X	

Turn Around Time: ☑ Normal ☐ Rush Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	4/5/11	1800
	K. McKiernan, AT	4/6/11	09:15

05/2006 Revision

Fedex
CUSTODY SEAL INTACT
NA

Air Toxics LTD.
Laboratory Services Since 1989

4/13/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562593.00008
Workorder #: 1104124B

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/6/2011 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

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1104124B

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/06/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/13/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-14-5-040511	Modified ASTM D-1946	7.5 "Hg	15 psi
02A	VMP-14-11.5-040511	Modified ASTM D-1946	7.5 "Hg	15 psi
03A	VMP-14-20-040511	Modified ASTM D-1946	7.0 "Hg	15 psi
04A	VMP-14-29-040511	Modified ASTM D-1946	8.0 "Hg	15 psi
05A	VMP-13-5-040511	Modified ASTM D-1946	7.0 "Hg	15 psi
06A(cancelled)	VMP-13-10.5-040511	Modified ASTM D-1946	7.0 "Hg	15 psi
07A	VMP-13-10.5-040511-DUP	Modified ASTM D-1946	8.0 "Hg	15 psi
08A	VMP-13-21.5-040511	Modified ASTM D-1946	5.0 "Hg	15 psi
09A	VMP-13-29.5-040511	Modified ASTM D-1946	3.0 "Hg	15 psi
10A	VMP-10-5-040511	Modified ASTM D-1946	2.5 "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: Linda J. Frumarc DATE: 04/13/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1104124B

Ten 1 Liter Summa Canister samples were received on April 06, 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.

Requirement	*ASTM D-1946*	*ATL Modifications*
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 >/= 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 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The Summa canister for sample VMP-13-10.5-040511 was leaking at the time of ASTMD-1946 analysis. The client was notified and the analysis was cancelled.

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

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-14-5-040511

Lab ID#: 1104124B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	19
Nitrogen	0.27	78
Methane	0.00027	0.0022
Carbon Dioxide	0.027	2.6
Helium	0.13	0.025 J

Client Sample ID: VMP-14-11.5-040511

Lab ID#: 1104124B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	10
Nitrogen	0.27	79
Methane	0.00027	0.0024
Carbon Dioxide	0.027	11
Helium	0.13	0.028 J

Client Sample ID: VMP-14-20-040511

Lab ID#: 1104124B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.53	4.0
Nitrogen	0.53	68
Methane	0.00053	12
Carbon Dioxide	0.053	14
Ethane	0.0053	0.0060
Helium	0.27	0.028 J

Client Sample ID: VMP-14-29-040511

Lab ID#: 1104124B-04A

Compound	Rpt. Limit (%)	Amount (%)

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-14-29-040511

Lab ID#: 1104124B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.3
Nitrogen	0.28	67
Methane	0.00028	13
Carbon Dioxide	0.028	16
Ethane	0.0028	0.0058
Helium	0.14	0.025 J

Client Sample ID: VMP-13-5-040511

Lab ID#: 1104124B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.55	16
Nitrogen	0.55	81
Carbon Dioxide	0.055	3.4
Helium	0.28	0.079 J

Client Sample ID: VMP-13-10.5-040511-DUP

Lab ID#: 1104124B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	11
Nitrogen	0.28	83
Carbon Dioxide	0.028	5.9
Helium	0.14	0.023 J

Client Sample ID: VMP-13-21.5-040511

Lab ID#: 1104124B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	8.2
Nitrogen	0.24	83

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-13-21.5-040511

Lab ID#: 1104124B-08A

Methane	0.00024	0.88
Carbon Dioxide	0.024	7.5
Ethane	0.0024	0.00020 J
Helium	0.12	0.029 J

Client Sample ID: VMP-13-29.5-040511

Lab ID#: 1104124B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	1.7
Nitrogen	0.22	84
Methane	0.00022	2.0
Carbon Dioxide	0.022	12
Ethane	0.0022	0.00047 J
Helium	0.11	0.0083 J

Client Sample ID: VMP-10-5-040511

Lab ID#: 1104124B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	21
Nitrogen	0.22	78
Methane	0.00022	0.00017 J
Carbon Dioxide	0.022	0.38
Helium	0.11	0.29

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-14-5-040511

Lab ID#: 1104124B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041105**	**Date of Collection:**	**4/5/11 10:18:00 AM**
Dil. Factor:	**2.69**	**Date of Analysis:**	**4/11/11 08:28 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	19
Nitrogen	0.27	78
Carbon Monoxide	0.027	Not Detected
Methane	0.00027	0.0022
Carbon Dioxide	0.027	2.6
Ethane	0.0027	Not Detected
Ethene	0.0027	Not Detected
Helium	0.13	0.025 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-14-11.5-040511

Lab ID#: 1104124B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041109**	**Date of Collection: 4/5/11 1:40:00 AM**	
Dil. Factor:	**2.69**	**Date of Analysis: 4/11/11 10:20 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	10
Nitrogen	0.27	79
Carbon Monoxide	0.027	Not Detected
Methane	0.00027	0.0024
Carbon Dioxide	0.027	11
Ethane	0.0027	Not Detected
Ethene	0.0027	Not Detected
Helium	0.13	0.028 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-14-20-040511

Lab ID#: 1104124B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041115**	**Date of Collection:**	**4/5/11 1:11:00 PM**
Dil. Factor:	**5.33**	**Date of Analysis:**	**4/11/11 01:29 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.53	4.0
Nitrogen	0.53	68
Carbon Monoxide	0.053	Not Detected
Methane	0.00053	12
Carbon Dioxide	0.053	14
Ethane	0.0053	0.0060
Ethene	0.0053	Not Detected
Helium	0.27	0.028 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-14-29-040511

Lab ID#: 1104124B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041110**	**Date of Collection: 4/5/11 2:20:00 PM**	
Dil. Factor:	**2.76**	**Date of Analysis: 4/11/11 10:43 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.28	1.3
Nitrogen	0.28	67
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	13
Carbon Dioxide	0.028	16
Ethane	0.0028	0.0058
Ethene	0.0028	Not Detected
Helium	0.14	0.025 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-13-5-040511

Lab ID#: 1104124B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041114**	**Date of Collection:**	**4/5/11 10:21:00 AM**
Dil. Factor:	**5.52**	**Date of Analysis:**	**4/11/11 12:25 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.55	16
Nitrogen	0.55	81
Carbon Monoxide	0.055	Not Detected
Methane	0.00055	Not Detected
Carbon Dioxide	0.055	3.4
Ethane	0.0055	Not Detected
Ethene	0.0055	Not Detected
Helium	0.28	0.079 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-13-10.5-040511-DUP

Lab ID#: 1104124B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041107**	**Date of Collection: 4/5/11 11:36:00 AM**	
Dil. Factor:	**2.76**	**Date of Analysis: 4/11/11 09:29 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	11
Nitrogen	0.28	83
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	Not Detected
Carbon Dioxide	0.028	5.9
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.023 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-13-21.5-040511

Lab ID#: 1104124B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041111**	**Date of Collection: 4/5/11 2:02:00 PM**	
Dil. Factor:	**2.42**	**Date of Analysis: 4/11/11 11:09 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	8.2
Nitrogen	0.24	83
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	0.88
Carbon Dioxide	0.024	7.5
Ethane	0.0024	0.00020 J
Ethene	0.0024	Not Detected
Helium	0.12	0.029 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-13-29.5-040511

Lab ID#: 1104124B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041112**	**Date of Collection:**	**4/5/11 3:20:00 PM**
Dil. Factor:	**2.24**	**Date of Analysis:**	**4/11/11 11:34 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	1.7
Nitrogen	0.22	84
Carbon Monoxide	0.022	Not Detected
Methane	0.00022	2.0
Carbon Dioxide	0.022	12
Ethane	0.0022	0.00047 J
Ethene	0.0022	Not Detected
Helium	0.11	0.0083 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-10-5-040511

Lab ID#: 1104124B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041108**	**Date of Collection:**	**4/5/11 4:37:00 PM**
Dil. Factor:	**2.20**	**Date of Analysis:**	**4/11/11 09:51 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	21
Nitrogen	0.22	78
Carbon Monoxide	0.022	Not Detected
Methane	0.00022	0.00017 J
Carbon Dioxide	0.022	0.38
Ethane	0.0022	Not Detected
Ethene	0.0022	Not Detected
Helium	0.11	0.29

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104124B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041104a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/11 07:57 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.011 J
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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104124B-11B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041103b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/11 07:33 AM**	

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

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104124B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/11 07:01 AM**	

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	99
Methane	100
Carbon Dioxide	100
Ethane	102
Ethene	102
Helium	92

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104124B-12AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041126**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/11/11 06:31 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	97
Methane	96
Carbon Dioxide	100
Ethane	99
Ethene	98
Helium	93

Container Type: NA - Not Applicable

1104124

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Thomas Adams
PO #:
INCIDENT # (ENV SERVICES): 9721884D
SAP #: 340061
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 04/05/11
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME/#: Roxana Dissolved Phase
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Cc To Contact E-MAIL: Thomas.Adams@URSCorp.com
SAMPLER NAME(S) (Print): M. Miller, C Smith, B. Crafton, W. Buchman

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ UA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N2 He

Lab ID	Field Sample Identification	Sampling Date	Sampling Time	Canister Number	Canister Pressure/Vacuum: Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
01A	VMP-14-5-040511	04/05/11	0943 - 1018	2116	-29.5	-8.5			X	X	
02A	VMP-14-11.5-040511	04/05/11	1108 - 140	2011	-29	-8.5			X	X	
03A	VMP-14-20-040511	04/05/11	1239 - 1311	198	-28.5	-7			X	X	
04A	VMP-14-29-040511	04/05/11	1350 - 1420	3079	-28.5	-8			X	X	
05A	VMP-13-5-040511	04/05/11	0940 - 1021	1368	-28.5	-7			X	X	
06A	VMP-13-10.5-040511	04/05/11	1100 - 1136	3087	-29.5	-8.5			X	X	
07A	VMP-13-10.5-040511-DUP	04/05/11	1100 - 1136	3246	-29.5	-8			X	X	
08A	VMP-13-21.5-040511	04/05/11	1336 - 1402	3002	-29	-2			X	X	
09A	VMP-13-29.5-040511	04/05/11	1458 - 1529	2036	-29.5	-2			X	X	
10A	VMP-10-5-040511	04/05/11	1609 - 1637	1514	-25.5	-1.6			X	X	

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	4/5/11	1800
	K. McKiernan, AD	4/6/11	0915

05/2008 Revision

Fedex
CUSTODY SEAL INTACT
VOA TEMP N/A

Roxana 2Q2011 Vapor Data Review

Laboratory SDG: 1104186A,B

Data Reviewer: Steve Gragert

Peer Reviewer: Jeff Aust

Date Reviewed: 6/29/2011

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-11-5-040611	VMP-11-8-040611
VMP-11-8-040611-DUP	VMP-11-29-040611
VMP-17-5-040611	VMP-10-10-040611
VMP-10-20-040611	VMP-9-5-040611
VMP-9-11.5-040611	VMP-7-5-040711
VMP-7-13.5-040711	VMP-7-29.5-040711
VMP-7-38-040711	VMP-18-8.5-040711
VMP-8-5-040711	VMP-8-9.5-040711
VMP-8-23.5-040711	VMP-8-23.5-040711-Dup
VMP-19-5-040711	-

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 samples VMP-11-5-040611, VMP-11-8-040611, VMP-11-8-040611-DUP, VMP-11-29-040611, VMP-17-5-040611, VMP-9-11.5-040611, VMP-7-5-040711, VMP-7-13.5-040711, VMP-7-29.5-040711, and VMP-7-38- were diluted due to high levels of target analytes. Surrogate recoveries were outside evaluation criteria. Although not indicated in the laboratory case narrative, analytes were detected in TO-15 method blanks. Some TO-15 compounds were qualified due to field duplicate RPD outside evaluation criteria. 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 Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1104186A-20A	TO-15	Carbon disulfide	0.27 ppbv / 0.83 µg/m^3
1104186A-20A	TO-15	Methylene chloride	0.12 ppbv / 0.42 µg/m^3
1104186A-20A	TO-15	1,1-Dichloroethane	0.047 ppbv / 0.19 µg/m^3
1104186A-20A	TO-15	cis-1,2-Dichloroethene	0.10 ppbv / 0.41 µg/m^3
1104186A-20A	TO-15	Benzene	0.22 ppbv / 0.70 µg/m^3
1104186A-20A	TO-15	1,2-Dichloroethane	0.11 ppbv / 0.46 µg/m^3
1104186A-20A	TO-15	Trichloroethene	0.086 ppbv / 0.46 µg/m^3
1104186A-20A	TO-15	cis-1,3-Dichloropropene	0.12 ppbv / 0.56 µg/m^3
1104186A-20A	TO-15	trans-1,3-Dichloropropene	0.18 ppbv / 0.82 µg/m^3
1104186A-20A	TO-15	Tetrachloroethene	0.096 ppbv / 0.65 µg/m^3
1104186A-20A	TO-15	1,2-Dibromoethane	0.15 ppbv / 1.1 µg/m^3
1104186A-20A	TO-15	Chlorobenzene	0.096 ppbv / 0.44 µg/m^3
1104186A-20A	TO-15	m,p-Xylene	0.074 ppbv / 0.32 µg/m^3
1104186A-20A	TO-15	1,1,2,2-Tetrachloroethane	0.072 ppbv / 0.50 µg/m^3
1104186A-20A	TO-15	Propylbenzene	0.078 ppbv / 0.38 µg/m^3
1104186A-20A	TO-15	4-Ethyltoluene	0.12 ppbv / 0.58 µg/m^3
1104186A-20A	TO-15	1,3,5-Trimethylbenzene	0.16 ppbv / 0.76 µg/m^3
1104186A-20A	TO-15	1,2,4-Trimethylbenzene	0.21 ppbv / 1.0 µg/m^3
1104186A-20A	TO-15	1,3-Dichlorobenzene	0.32 ppbv / 1.9 µg/m^3
1104186A-20A	TO-15	1,4-Dichlorobenzene	0.42 ppbv / 2.5 µg/m^3
1104186A-20A	TO-15	alpha-Chlorotoluene	0.17 ppbv / 0.86 µg/m^3
1104186A-20A	TO-15	1,2-Dichlorobenzene	0.34 ppbv / 2.0 µg/m^3
1104186A-20A	TO-15	1,2,4-Trichlorobenzene	1.2 ppbv / 9.3 µg/m^3
1104186A-20A	TO-15	Hexachlorobutadiene	0.92 ppbv / 9.8 µg/m^3
1104186B-20A	ASTM D-1946	Oxygen	0.013 %
1104186B-20A	ASTM D-1946	Nitrogen	0.062 %

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-10-10-040611	TO-15	cis-1,2-Dichloroethene	-	**U**
VMP-10-10-040611	TO-15	Trichloroethene	-	**U**
VMP-10-10-040611	TO-15	cis-1,3-Dichloropropene	-	**U**
VMP-10-10-040611	TO-15	trans-1,3-Dichloropropene	-	**U**
VMP-10-10-040611	TO-15	Tetrachloroethene	-	**U**
VMP-10-10-040611	TO-15	1,2-Dibromoethane	-	**U**
VMP-10-10-040611	TO-15	Chlorobenzene	-	**U**
VMP-10-10-040611	TO-15	m,p-Xylene	-	**U**
VMP-10-10-040611	TO-15	Propylbenzene	-	**U**
VMP-10-10-040611	TO-15	4-Ethyltoluene	-	**U**
VMP-10-10-040611	TO-15	1,2,4-Trimethylbenzene	-	**U**
VMP-10-10-040611	TO-15	1,3-Dichlorobenzene	-	**U**

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
VMP-10-10-040611	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-10-10-040611	TO-15	alpha-Chlorotoluene	-	**U**
VMP-10-10-040611	TO-15	1,2-Dichlorobenzene	-	**U**
VMP-10-10-040611	TO-15	1,2,4-Trichlorobenzene	-	**U**
VMP-10-10-040611	TO-15	Hexachlorobutadiene	-	**U**
VMP-10-20-040611	TO-15	Carbon disulfide	-	**U**
VMP-10-20-040611	TO-15	Trichloroethene	-	**U**
VMP-10-20-040611	TO-15	trans-1,3-Dichloropropene	-	**U**
VMP-10-20-040611	TO-15	Tetrachloroethene	-	**U**
VMP-10-20-040611	TO-15	Chlorobenzene	-	**U**
VMP-10-20-040611	TO-15	m,p-Xylene	-	**U**
VMP-10-20-040611	TO-15	4-Ethyltoluene	-	**U**
VMP-10-20-040611	TO-15	1,2,4-Trimethylbenzene	-	**U**
VMP-10-20-040611	TO-15	1,3-Dichlorobenzene	-	**U**
VMP-10-20-040611	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-10-20-040611	TO-15	alpha-Chlorotoluene	-	**U**
VMP-10-20-040611	TO-15	1,2-Dichlorobenzene	-	**U**
VMP-10-20-040611	TO-15	1,2,4-Trichlorobenzene	-	**U**
VMP-10-20-040611	TO-15	Hexachlorobutadiene	-	**U**
VMP-9-5-040611	TO-15	Carbon disulfide	-	**U**
VMP-9-5-040611	TO-15	1,3-Dichlorobenzene	-	**U**
VMP-9-5-040611	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-9-5-040611	TO-15	1,2-Dichlorobenzene	-	**U**
VMP-9-5-040611	TO-15	1,2,4-Trichlorobenzene	-	**U**
VMP-9-11.5-040611	TO-15	Carbon disulfide	-	**U**
VMP-9-11.5-040611	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-9-11.5-040611	TO-15	1,2-Dichlorobenzene	-	**U**
VMP-9-11.5-040611	TO-15	1,2,4-Trichlorobenzene	-	**U**
VMP-7-5-040611	TO-15	Carbon disulfide	-	**U**
VMP-7-5-040611	TO-15	Methylene chloride	-	**U**
VMP-7-13.5-040611	TO-15	Carbon disulfide	-	**U**
VMP-7-13.5-040611	TO-15	Methylene chloride	-	**U**
VMP-18-8.5-040611	TO-15	Carbon disulfide	-	**U**
VMP-18-8.5-040611	TO-15	Chlorobenzene	-	**U**
VMP-18-8.5-040611	TO-15	m,p-Xylene	-	**U**
VMP-18-8.5-040611	TO-15	4-Ethyltoluene	-	**U**
VMP-18-8.5-040611	TO-15	1,2,4-Trimethylbenzene	-	**U**
VMP-18-8.5-040611	TO-15	1,3-Dichlorobenzene	-	**U**
VMP-18-8.5-040611	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-18-8.5-040611	TO-15	alpha-Chlorotoluene	-	**U**
VMP-18-8.5-040611	TO-15	1,2-Dichlorobenzene	-	**U**
VMP-18-8.5-040611	TO-15	1,2,4-Trichlorobenzene	-	**U**
VMP-8-5-040711	TO-15	Carbon disulfide	-	**U**
VMP-8-5-040711	TO-15	Tetrachloroethene	-	**U**
VMP-8-5-040711	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-8-5-040711	TO-15	1,2-Dichlorobenzene	-	**U**

Sample ID	Parameter	Analyte	New Reporting Limit (RL)	Qualification
VMP-8-5-040711	TO-15	1,2,4-Trichlorobenzene	-	**U**

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS Recovery	LCS Criteria
1104186A-22B	TO-15	Hexachlorobutadiene	**137**	70-130
1104186A-22BB	TO-15	Hexachlorobutadiene	**143**	70-130

All associated data were reported as nondetect 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?

No. The surrogate recoveries listed in the table below were outside evaluation criteria due to high levels of hydrocarbon matrix interference.

Sample ID	Parameter	Surrogate	Surrogate Recovery	Surrogate Criteria
VMP-7-29.5-040711	TO-15	1,2-Dichloroethane-d_4	**138**	70-130
VMP-7-38-040711	TO-15	1,2-Dichloroethane-d_4	**135**	70-130

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Sample ID	Parameter	Analyte	Qualification
VMP-7-29.5-040711	TO-15	Hexane	**J**
VMP-7-29.5-040711	TO-15	Cyclohexane	**J**
VMP-7-29.5-040711	TO-15	2,2,4-Trimethylpentane	**J**
VMP-7-29.5-040711	TO-15	Benzene	**J**
VMP-7-29.5-040711	TO-15	Heptane	**J**
VMP-7-29.5-040711	TO-15	m,p-Xylene	**J**
VMP-7-29.5-040711	TO-15	Cumene	**J**
VMP-7-29.5-040711	TO-15	Propylbenzene	**J**
VMP-7-29.5-040711	TO-15	4-Ethyltoluene	**J**
VMP-7-29.5-040711	TO-15	Butane	**J**
VMP-7-29.5-040711	TO-15	Isopentane	**J**
VMP-7-38-040711	TO-15	Hexane	**J**
VMP-7-38-040711	TO-15	Cyclohexane	**J**
VMP-7-38-040711	TO-15	2,2,4-Trimethylpentane	**J**
VMP-7-38-040711	TO-15	Benzene	**J**

Sample ID	Parameter	Analyte	Qualification
VMP-7-38-040711	TO-15	Heptane	**J**
VMP-7-38-040711	TO-15	m,p-Xylene	**J**
VMP-7-38-040711	TO-15	Cumene	**J**
VMP-7-38-040711	TO-15	Propylbenzene	**J**
VMP-7-38-040711	TO-15	Butane	**J**
VMP-7-38-040711	TO-15	Isopentane	**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 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-11-8-040611	VMP-11-8-040611-DUP
VMP-8-23.5-040711	VMP-8-23.5-040711-Dup

Were field duplicates within evaluation criteria?

No

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qual
VMP-11-8-040611	VMP-11-8-040611-DUP	TO-15	Hexane	200	**UJ/J**
VMP-8-23.5-040711	VMP-8-23.5-040711-Dup	TO-15	Benzene	49	**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
1104186A-21B	TO-15	Hexachlorobutadiene	**148**	70-130

All associated data were reported as nondetect 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.

Air Toxics LTD.
Laboratory Services Since 1989

4/19/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562593.00008
Workorder #: 1104186A

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/8/2011 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 6/29/11

WORK ORDER #: 1104186A

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/08/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/19/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-11-5-040611	Modified TO-15	7.6 "Hg	15 psi
02A	VMP-11-8-040611	Modified TO-15	8.2 "Hg	15 psi
03A	VMP-11-8-040611-DUP	Modified TO-15	9.0 "Hg	15 psi
04A	VMP-11-29-040611	Modified TO-15	8.6 "Hg	15 psi
05A	VMP-17-5-040611	Modified TO-15	10.0 "Hg	15 psi
06A	VMP-10-10-040611	Modified TO-15	7.0 "Hg	15 psi
07A	VMP-10-20-040611	Modified TO-15	9.4 "Hg	15 psi
08A	VMP-9-5-040611	Modified TO-15	9.8 "Hg	15 psi
09A	VMP-9-11.5-040611	Modified TO-15	9.0 "Hg	15 psi
10A	VMP-7-5-040711	Modified TO-15	7.8 "Hg	15 psi
11A	VMP-7-13.5-040711	Modified TO-15	6.6 "Hg	15 psi
12A	VMP-7-29.5-040711	Modified TO-15	5.8 "Hg	15 psi
13A	VMP-7-38-040711	Modified TO-15	7.0 "Hg	15 psi
14A	VMP-18-8.5-040711	Modified TO-15	6.4 "Hg	15 psi
15A	VMP-8-5-040711	Modified TO-15	8.0 "Hg	15 psi
16A	VMP-8-9.5-040711	Modified TO-15	8.0 "Hg	15 psi
17A	VMP-8-23.5-040711	Modified TO-15	6.0 "Hg	15 psi

Continued on next page

Air Toxics LTD.
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WORK ORDER #: 1104186A

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/08/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/19/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
18A	VMP-8-23.5-040711-Dup	Modified TO-15	8.2 "Hg	15 psi
19A	VMP-19-5-040711	Modified TO-15	7.6 "Hg	15 psi
20A	Lab Blank	Modified TO-15	NA	NA
20B	Lab Blank	Modified TO-15	NA	NA
21A	CCV	Modified TO-15	NA	NA
21B	CCV	Modified TO-15	NA	NA
22A	LCS	Modified TO-15	NA	NA
22AA	LCSD	Modified TO-15	NA	NA
22B	LCS	Modified TO-15	NA	NA
22BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 04/19/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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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# 1104186A

Nineteen 1 Liter Summa Canister samples were received on April 08, 2011. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

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

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

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

A dilution was performed on samples VMP-11-5-040611, VMP-11-8-040611, VMP-11-8-040611-DUP, VMP-11-29-040611, VMP-17-5-040611, VMP-9-11.5-040611, VMP-7-5-040711, VMP-7-13.5-040711, VMP-7-29.5-040711 and VMP-7-38-040711 due to the presence of high level target species.

The recovery of surrogate 1,2-Dichloroethane-d4 in samples VMP-7-29.5-040711 and VMP-7-38-040711 was outside control limits due to high level hydrocarbon matrix interference. Data is reported as qualified.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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

Client Sample ID: VMP-11-5-040611

Lab ID#: 1104186A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloromethane	43	26 J	89	55 J
Acetone	43	8.6 J	100	20 J
Carbon Disulfide	43	2.8 J	130	8.8 J
Methylene Chloride	11	2.5 J	38	8.6 J
Hexane	11	80	38	280
Cyclohexane	11	24	37	82
2,2,4-Trimethylpentane	11	24	50	110
Benzene	11	2800	34	8900
Heptane	11	10 J	44	42 J
Toluene	11	2.3 J	41	8.7 J
Butane	43	360	100	860
Isopentane	43	370	130	1100

Client Sample ID: VMP-11-8-040611

Lab ID#: 1104186A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	5.6	12	19	42
2,2,4-Trimethylpentane	5.6	13	26	62
Benzene	5.6	2000	18	6200
Heptane	5.6	8.6	23	35
Butane	22	98	53	230
Isopentane	22	130	66	380

Client Sample ID: VMP-11-8-040611-DUP

Lab ID#: 1104186A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	19	7.8 J	46	18 J
Carbon Disulfide	19	1.3 J	60	4.1 J
Methylene Chloride	4.8	0.78 J	17	2.7 J

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

Client Sample ID: VMP-11-8-040611-DUP

Lab ID#: 1104186A-03A

	RL	ppbV	RL	ug/m3
Hexane	4.8	34 J	17	120 J
Chloroform	4.8	0.60 J	23	2.9 J
Cyclohexane	4.8	14	16	47
2,2,4-Trimethylpentane	4.8	10	22	48
Benzene	4.8	1700	15	5500
Heptane	4.8	6.0	20	25
Trichloroethene	4.8	0.52 J	26	2.8 J
Toluene	4.8	0.90 J	18	3.4 J
Butane	19	71	46	170
Isopentane	19	99	57	290

Client Sample ID: VMP-11-29-040611

Lab ID#: 1104186A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	38	9.9 J	90	23 J
Carbon Disulfide	38	2.4 J	120	7.5 J
Methyl tert-butyl ether	9.4	0.86 J	34	3.1 J
Hexane	9.4	70	33	250
Cyclohexane	9.4	19	32	65
2,2,4-Trimethylpentane	9.4	20	44	96
Benzene	9.4	2900	30	9400
Heptane	9.4	13	39	52
Butane	38	110	90	260
Isopentane	38	150	110	440

Client Sample ID: VMP-17-5-040611

Lab ID#: 1104186A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	20	16 J	48	39 J
Carbon Disulfide	20	1.9 J	63	5.8 J
Hexane	5.0	31	18	110

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

Client Sample ID: VMP-17-5-040611

Lab ID#: 1104186A-05A

2-Butanone (Methyl Ethyl Ketone)	20	1.7 J	60	5.0 J
Cyclohexane	5.0	9.9	17	34
2,2,4-Trimethylpentane	5.0	10	24	47
Benzene	5.0	1800	16	5800
Heptane	5.0	6.1	21	25
Trichloroethene	5.0	1.3 J	27	7.1 J
Butane	20	53	48	130
Isopentane	20	62	60	180

Client Sample ID: VMP-10-10-040611

Lab ID#: 1104186A-06A

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 11	1.3	0.21 J	7.4	1.2 J
Ethanol	5.3	7.1	9.9	13
Acetone	5.3	3.5 J	12	8.4 J
Carbon Disulfide	5.3	0.46 J	16	1.4 J
Methylene Chloride	1.3	4.5	4.6	16
Hexane	1.3	1.9	4.6	6.8
2-Butanone (Methyl Ethyl Ketone)	5.3	0.52 J	16	1.5 J
cis-1,2-Dichloroethene	1.3	~~0.33 J~~ U	5.2	~~1.3 J~~ U
Cyclohexane	1.3	0.60 J	4.5	2.1 J
2,2,4-Trimethylpentane	1.3	1.9	6.2	8.8
Benzene	1.3	21	4.2	67
Heptane	1.3	0.54 J	5.4	2.2 J
Trichloroethene	1.3	~~0.43 J~~ U	7.1	~~2.3 J~~ U
cis-1,3-Dichloropropene	1.3	~~0.33 J~~ U	6.0	~~1.5 J~~ U
Toluene	1.3	0.47 J	5.0	1.8 J
trans-1,3-Dichloropropene	1.3	~~0.31 J~~ U	6.0	~~1.4 J~~ U
Tetrachloroethene	1.3	~~0.41 J~~ U	9.0	~~2.8 J~~ U
Dibromochloromethane	1.3	0.28 J	11	2.4 J
1,2-Dibromoethane (EDB)	1.3	~~0.28 J~~ U	10	~~2.2 J~~ U

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

Client Sample ID: VMP-10-10-040611

Lab ID#: 1104186A-06A

Chlorobenzene	1.3	~~0.27 J~~ U	6.1	~~1.2 J~~ U
Ethyl Benzene	1.3	0.22 J	5.7	0.94 J
m,p-Xylene	1.3	~~0.30 J~~ U	5.7	~~1.3 J~~ U
Propylbenzene	1.3	~~0.15 J~~ U	6.5	~~0.74 J~~ U
4-Ethyltoluene	1.3	~~0.19 J~~ U	6.5	~~0.93 J~~ U
1,2,4-Trimethylbenzene	1.3	~~0.25 J~~ U	6.5	~~1.2 J~~ U
1,3-Dichlorobenzene	1.3	~~0.49 J~~ U	7.9	~~3.0 J~~ U
1,4-Dichlorobenzene	1.3	~~0.51 J~~ U	7.9	~~3.0 J~~ U
alpha-Chlorotoluene	1.3	~~0.29 J~~ U	6.8	~~1.5 J~~ U
1,2-Dichlorobenzene	1.3	~~0.43 J~~ U	7.9	~~2.6 J~~ U
1,2,4-Trichlorobenzene	5.3	~~4.9 J~~ U	39	~~44 J~~ U
Hexachlorobutadiene	5.3	~~1.1 J~~ U	56	~~12 J~~ U
Butane	5.3	3.6 J	12	8.6 J
Isopentane	5.3	4.8 J	16	14 J

Client Sample ID: VMP-10-20-040611

Lab ID#: 1104186A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.42 J	7.3	2.1 J
Freon 11	1.5	0.25 J	8.2	1.4 J
Ethanol	5.9	27	11	50
Acetone	5.9	21	14	50
2-Propanol	5.9	22	14	54
Carbon Disulfide	5.9	~~0.41 J~~ U	18	~~1.3 J~~ U
Methylene Chloride	1.5	2.0	5.1	6.8
Hexane	1.5	2.4	5.2	8.4
2-Butanone (Methyl Ethyl Ketone)	5.9	32	17	96
Cyclohexane	1.5	1.0 J	5.0	3.4 J
2,2,4-Trimethylpentane	1.5	6.7	6.9	31
Benzene	1.5	56	4.7	180
Heptane	1.5	0.89 J	6.0	3.6 J
Trichloroethene	1.5	~~0.46 J~~ U	7.9	~~2.5 J~~ U

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

Client Sample ID: VMP-10-20-040611

Lab ID#: 1104186A-07A

4-Methyl-2-pentanone	1.5	26	6.0	100
Toluene	1.5	6.8	5.5	26
trans-1,3-Dichloropropene	1.5	~~0.40 J~~ U	6.7	~~1.8 J~~ U
Tetrachloroethene	1.5	~~1.2 J~~ U	10	~~8.1 J~~ U
Chlorobenzene	1.5	~~0.21 J~~ U	6.8	~~0.98 J~~ U
Ethyl Benzene	1.5	0.61 J	6.4	2.6 J
m,p-Xylene	1.5	~~1.6~~ U	6.4	~~6.8~~ U
o-Xylene	1.5	0.36 J	6.4	1.6 J
Cumene	1.5	5.9	7.2	29
4-Ethyltoluene	1.5	~~0.36 J~~ U	7.2	~~1.8 J~~ U
1,2,4-Trimethylbenzene	1.5	~~0.35 J~~ U	7.2	~~1.7 J~~ U
1,3-Dichlorobenzene	1.5	~~0.34 J~~ U	8.8	~~2.0 J~~ U
1,4-Dichlorobenzene	1.5	~~0.45 J~~ U	8.8	~~2.7 J~~ U
alpha-Chlorotoluene	1.5	~~0.33 J~~ U	7.6	~~1.7 J~~ U
1,2-Dichlorobenzene	1.5	~~0.27 J~~ U	8.8	~~1.6 J~~ U
1,2,4-Trichlorobenzene	5.9	~~1.2 J~~ U	44	~~8.8 J~~ U
Hexachlorobutadiene	5.9	~~0.84 J~~ U	63	~~8.9 J~~ U
Butane	5.9	9.3	14	22
Isopentane	5.9	9.0	17	27

Client Sample ID: VMP-9-5-040611

Lab ID#: 1104186A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3.0	0.50 J	15	2.5 J
Ethanol	12	10 J	23	20 J
Acetone	12	11 J	29	26 J
Carbon Disulfide	12	~~0.88 J~~ U	38	~~2.7 J~~ U
Methylene Chloride	3.0	3.2	10	11
Hexane	3.0	1.8 J	11	6.4 J
2-Butanone (Methyl Ethyl Ketone)	12	0.98 J	36	2.9 J
2,2,4-Trimethylpentane	3.0	4.6	14	22
Benzene	3.0	35	9.7	110

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

Client Sample ID: VMP-9-5-040611

Lab ID#: 1104186A-08A

Trichloroethene	3.0	1.4 J	16	7.7 J
Toluene	3.0	0.50 J	11	1.9 J
Tetrachloroethene	3.0	0.85 J	20	5.8 J
1,3-Dichlorobenzene	3.0	~~0.48 J~~ U	18	~~2.9 J~~ U
1,4-Dichlorobenzene	3.0	~~0.60 J~~ U	18	~~3.6 J~~ U
1,2-Dichlorobenzene	3.0	~~0.32 J~~ U	18	~~2.0 J~~ U
1,2,4-Trichlorobenzene	12	~~1.9 J~~ U	90	~~14 J~~ U
Isopentane	12	4.4 J	36	13 J

Client Sample ID: VMP-9-11.5-040611

Lab ID#: 1104186A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	16	9.2 J	30	17 J
Acetone	16	11 J	37	26 J
Carbon Disulfide	16	~~0.74 J~~ U	49	~~2.3 J~~ U
Methylene Chloride	3.9	2.0 J	14	6.9 J
Hexane	3.9	2.2 J	14	7.9 J
2-Butanone (Methyl Ethyl Ketone)	16	1.5 J	46	4.4 J
Cyclohexane	3.9	0.96 J	14	3.3 J
2,2,4-Trimethylpentane	3.9	1.6 J	18	7.5 J
Benzene	3.9	7.7	13	25
Heptane	3.9	0.86 J	16	3.5 J
Trichloroethene	3.9	2.1 J	21	11 J
Tetrachloroethene	3.9	0.55 J	27	3.7 J
1,4-Dichlorobenzene	3.9	~~0.62 J~~ U	24	~~4.9 J~~ U
1,2-Dichlorobenzene	3.9	~~0.37 J~~ U	24	~~2.2 J~~ U
1,2,4-Trichlorobenzene	16	~~4.9 J~~ U	120	~~14 J~~ U
Butane	16	3.8 J	38	9.0 J
Isopentane	16	3.1 J	46	9.1 J

Client Sample ID: VMP-7-5-040711

Lab ID#: 1104186A-10A

Air Toxics LTD.
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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: VMP-7-5-040711

Lab ID#: 1104186A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.8	0.29 J	9.0	1.4 J
Ethanol	7.3	1.8 J	14	3.4 J
Acetone	7.3	3.2 J	17	7.6 J
Carbon Disulfide	7.3	~~0.84 J~~ U	23	~~2.6 J~~ U
Methylene Chloride	1.8	~~0.42 J~~ U	6.3	~~1.5 J~~ U
Hexane	1.8	4.7	6.4	16
Cyclohexane	1.8	2.4	6.3	8.1
2,2,4-Trimethylpentane	1.8	2.2	8.5	10
Benzene	1.8	490	5.8	1600
Heptane	1.8	1.8	7.4	7.4
Trichloroethene	1.8	0.59 J	9.8	3.2 J
Toluene	1.8	0.65 J	6.8	2.5 J
Butane	7.3	5.3 J	17	12 J
Isopentane	7.3	6.5 J	21	19 J

Client Sample ID: VMP-7-13.5-040711

Lab ID#: 1104186A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	8.6	5.0 J	20	12 J
Carbon Disulfide	8.6	~~1.1 J~~ U	27	~~3.4 J~~ U
Methylene Chloride	2.2	~~0.53 J~~ U	7.5	~~1.8 J~~ U
Hexane	2.2	6.3	7.6	22
Cyclohexane	2.2	2.6	7.4	9.1
2,2,4-Trimethylpentane	2.2	3.7	10	17
Benzene	2.2	540	6.9	1700
Heptane	2.2	1.6 J	8.8	6.4 J
Trichloroethene	2.2	0.72 J	12	3.8 J
Toluene	2.2	0.43 J	8.1	1.6 J
Butane	8.6	6.8 J	20	16 J
Isopentane	8.6	8.1 J	25	24 J

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

Client Sample ID: VMP-7-29.5-040711

Lab ID#: 1104186A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	160	54000	550	190000
Cyclohexane	160	82000	540	280000
2,2,4-Trimethylpentane	160	120000	730	550000
Benzene	160	13000	500	40000
Heptane	160	53000	640	220000
m,p-Xylene	160	180	680	770
Cumene	160	690	770	3400
Propylbenzene	160	520	770	2500
4-Ethyltoluene	160	47 J	770	230 J
Butane	630	39000	1500	94000
Isopentane	630	130000	1800	380000

Client Sample ID: VMP-7-38-040711

Lab ID#: 1104186A-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	220	43000	780	150000
Cyclohexane	220	100000	760	350000
2,2,4-Trimethylpentane	220	150000	1000	720000
Benzene	220	7600	700	24000
Heptane	220	27000	900	110000
m,p-Xylene	220	96 J	960	420 J
Cumene	220	110 J	1100	560 J
Propylbenzene	220	88 J	1100	430 J
Butane	880	51000	2100	120000
Isopentane	880	170000	2600	500000

Client Sample ID: VMP-18-8.5-040711

Lab ID#: 1104186A-14A

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

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-18-8.5-040711

Lab ID#: 1104186A-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.38 J	6.4	1.9 J
Freon 11	1.3	0.18 J	7.2	1.0 J
Ethanol	5.1	6.2	9.7	12
Acetone	5.1	6.3	12	15
Carbon Disulfide	5.1	~~0.64 J~~ U	16	~~2.0 J~~ U
Methylene Chloride	1.3	~~0.62~~ stet	4.5	~~2.1 J~~ stet
Hexane	1.3	1.4	4.5	4.9
2-Butanone (Methyl Ethyl Ketone)	5.1	0.77 J	15	2.3 J
Cyclohexane	1.3	1.8	4.4	6.2
2,2,4-Trimethylpentane	1.3	4.8	6.0	22
Benzene	1.3	26	4.1	84
Heptane	1.3	2.8	5.3	12
Trichloroethene	1.3	0.60 J	6.9	3.2 J
1,2-Dichloropropane	1.3	0.71 J	5.9	3.3 J
1,4-Dioxane	5.1	1.2 J	18	4.3 J
Toluene	1.3	0.30 J	4.8	1.1 J
Tetrachloroethene	1.3	0.53 J	8.7	3.6 J
Dibromochloromethane	1.3	0.27 J	11	2.3 J
Chlorobenzene	1.3	~~0.20 J~~ U	5.9	~~0.93 J~~ U
m,p-Xylene	1.3	~~0.14 J~~ U	5.6	~~0.59 J~~ U
Cumene	1.3	1.3	6.3	6.4
Propylbenzene	1.3	2.0	6.3	10
4-Ethyltoluene	1.3	~~0.26 J~~ U	6.3	~~1.3 J~~ U
1,2,4-Trimethylbenzene	1.3	~~0.25 J~~ U	6.3	~~1.2 J~~ U
1,3-Dichlorobenzene	1.3	~~0.22 J~~ U	7.7	~~1.4 J~~ U
1,4-Dichlorobenzene	1.3	~~0.29 J~~ U	7.7	~~1.7 J~~ U
alpha-Chlorotoluene	1.3	~~4.1 J~~ U	6.6	~~5.9 J~~ U
1,2-Dichlorobenzene	1.3	~~0.20 J~~ U	7.7	~~1.2 J~~ U
1,2,4-Trichlorobenzene	5.1	~~0.60 J~~ U	38	~~4.4 J~~ U
Butane	5.1	2.9 J	12	6.9 J
Isopentane	5.1	4.1 J	15	12 J

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-8-5-040711

Lab ID#: 1104186A-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.52 J	6.8	2.6 J
Freon 11	1.4	0.20 J	7.8	1.1 J
Acetone	5.5	23	13	55
Carbon Disulfide	5.5	~~0.98 J~~ U	17	~~3.0 J~~ U
2-Butanone (Methyl Ethyl Ketone)	5.5	0.80 J	16	2.4 J
Chloroform	1.4	0.19 J	6.7	0.94 J
Cyclohexane	1.4	0.41 J	4.8	1.4 J
2,2,4-Trimethylpentane	1.4	0.64 J	6.4	3.0 J
Benzene	1.4	370	4.4	1200
Trichloroethene	1.4	0.55 J	7.4	3.0 J
1,4-Dioxane	5.5	1.6 J	20	5.7 J
Toluene	1.4	0.42 J	5.2	1.6 J
Tetrachloroethene	1.4	~~0.26 J~~ U	9.4	~~1.8 J~~ U
Dibromochloromethane	1.4	0.27 J	12	2.3 J
m,p-Xylene	1.4	0.41 J	6.0	1.8 J
1,4-Dichlorobenzene	1.4	~~0.18 J~~ U	8.3	~~1.1 J~~ U
1,2-Dichlorobenzene	1.4	~~0.15 J~~ U	8.3	~~0.93 J~~ U
1,2,4-Trichlorobenzene	5.5	~~0.36 J~~ U	41	~~2.6 J~~ U
Isopentane	5.5	1.2 J	16	3.7 J

Client Sample ID: VMP-8-9.5-040711

Lab ID#: 1104186A-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.32 J	6.8	1.6 J
Ethanol	5.5	3.9 J	10	7.4 J
Acetone	5.5	3.8 J	13	8.9 J
2-Propanol	5.5	1.7 J	14	4.3 J
Carbon Disulfide	5.5	0.49 J	17	1.5 J
Methylene Chloride	1.4	0.28 J	4.8	0.97 J
Hexane	1.4	0.35 J	4.9	1.2 J

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-8-9.5-040711

Lab ID#: 1104186A-16A

2-Butanone (Methyl Ethyl Ketone)	5.5	0.79 J	16	2.3 J
Cyclohexane	1.4	0.23 J	4.8	0.79 J
2,2,4-Trimethylpentane	1.4	0.60 J	6.4	2.8 J
Benzene	1.4	290	4.4	930
Trichloroethene	1.4	0.67 J	7.4	3.6 J
Toluene	1.4	0.33 J	5.2	1.2 J
Tetrachloroethene	1.4	0.69 J	9.4	4.6 J
m,p-Xylene	1.4	0.14 J	6.0	0.63 J
1,4-Dichlorobenzene	1.4	0.15 J	8.3	0.92 J
Isopentane	5.5	1.0 J	16	3.1 J

Client Sample ID: VMP-8-23.5-040711

Lab ID#: 1104186A-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.47 J	6.2	2.3 J
Freon 11	1.3	0.18 J	7.1	0.98 J
Ethanol	5.0	4.0 J	9.5	7.5 J
Acetone	5.0	4.2 J	12	10 J
Carbon Disulfide	5.0	0.78 J	16	2.4 J
Methylene Chloride	1.3	1.9	4.4	6.6
Hexane	1.3	0.76 J	4.4	2.7 J
Cyclohexane	1.3	0.30 J	4.3	1.0 J
2,2,4-Trimethylpentane	1.3	0.49 J	5.9	2.3 J
Benzene	1.3	380	4.0	1200
Trichloroethene	1.3	0.56 J	6.8	3.0 J
Toluene	1.3	0.40 J	4.7	1.5 J
Tetrachloroethene	1.3	0.66 J	8.5	4.5 J
Dibromochloromethane	1.3	0.25 J	11	2.1 J
Ethyl Benzene	1.3	0.15 J	5.5	0.66 J
m,p-Xylene	1.3	0.28 J	5.5	1.2 J
1,2,4-Trichlorobenzene	5.0	0.27 J	37	2.0 J
Isopentane	5.0	1.0 J	15	3.0 J

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-8-23.5-040711-Dup

Lab ID#: 1104186A-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.0	0.35 J	9.9	1.7 J
Ethanol	8.0	3.9 J	15	7.3 J
Acetone	8.0	3.9 J	19	9.3 J
Carbon Disulfide	8.0	0.80 J	25	2.5 J
Methylene Chloride	2.0	0.60 J	6.9	2.1 J
Methyl tert-butyl ether	2.0	0.19 J	7.2	0.68 J
Hexane	2.0	0.79 J	7.0	2.8 J
Cyclohexane	2.0	0.79 J	6.9	2.7 J
2,2,4-Trimethylpentane	2.0	0.38 J	9.3	1.8 J
Benzene	2.0	230 J	6.4	730 J
1,2-Dichloroethane	2.0	0.34 J	8.1	1.4 J
Trichloroethene	2.0	1.1 J	11	6.0 J
Toluene	2.0	0.36 J	7.5	1.4 J
1,1,2-Trichloroethane	2.0	0.45 J	11	2.5 J
Tetrachloroethene	2.0	0.76 J	14	5.2 J
Dibromochloromethane	2.0	0.39 J	17	3.3 J
m,p-Xylene	2.0	0.24 J	8.7	1.0 J
1,3-Dichlorobenzene	2.0	0.26 J	12	1.6 J
1,4-Dichlorobenzene	2.0	0.29 J	12	1.7 J
1,2,4-Trichlorobenzene	8.0	0.65 J	59	4.8 J
Isopentane	8.0	1.7 J	24	4.9 J

Client Sample ID: VMP-19-5-040711

Lab ID#: 1104186A-19A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.42 J	6.7	2.1 J
Freon 11	1.4	0.17 J	7.6	0.94 J
Ethanol	5.4	3.0 J	10	5.8 J
Acetone	5.4	4.4 J	13	10 J
Carbon Disulfide	5.4	0.42 J	17	1.3 J

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-19-5-040711

Lab ID#: 1104186A-19A

Methylene Chloride	1.4	0.27 J	4.7	0.93 J
2-Butanone (Methyl Ethyl Ketone)	5.4	0.59 J	16	1.7 J
Cyclohexane	1.4	1.3 J	4.6	4.3 J
2,2,4-Trimethylpentane	1.4	11	6.3	54
Benzene	1.4	240	4.3	760
Trichloroethene	1.4	0.63 J	7.2	3.4 J
Toluene	1.4	0.38 J	5.1	1.4 J
Tetrachloroethene	1.4	0.22 J	9.2	1.5 J
1,2-Dibromoethane (EDB)	1.4	0.16 J	10	1.2 J
Chlorobenzene	1.4	0.16 J	6.2	0.72 J
Ethyl Benzene	1.4	0.20 J	5.9	0.86 J
m,p-Xylene	1.4	0.36 J	5.9	1.5 J
1,4-Dichlorobenzene	1.4	0.15 J	8.1	0.88 J
1,2-Dichlorobenzene	1.4	0.11 J	8.1	0.68 J
1,2,4-Trichlorobenzene	5.4	0.42 J	40	3.1 J
Butane	5.4	2.2 J	13	5.2 J
Isopentane	5.4	8.6	16	25

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-11-5-040611

Lab ID#: 1104186A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041823**	**Date of Collection:**	**4/6/11 10:07:00 AM**
Dil. Factor:	**21.6**	**Date of Analysis:**	**4/18/11 07:14 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	11	Not Detected	53	Not Detected
Freon 114	11	Not Detected	76	Not Detected
Chloromethane	43	26 J	89	55 J
Vinyl Chloride	11	Not Detected	28	Not Detected
1,3-Butadiene	11	Not Detected	24	Not Detected
Bromomethane	11	Not Detected	42	Not Detected
Chloroethane	43	Not Detected	110	Not Detected
Freon 11	11	Not Detected	61	Not Detected
Ethanol	43	Not Detected	81	Not Detected
Freon 113	11	Not Detected	83	Not Detected
1,1-Dichloroethene	11	Not Detected	43	Not Detected
Acetone	43	8.6 J	100	20 J
2-Propanol	43	Not Detected	110	Not Detected
Carbon Disulfide	43	2.8 J	130	8.8 J
3-Chloropropene	43	Not Detected	140	Not Detected
Methylene Chloride	11	2.5 J	38	8.6 J
Methyl tert-butyl ether	11	Not Detected	39	Not Detected
trans-1,2-Dichloroethene	11	Not Detected	43	Not Detected
Hexane	11	80	38	280
1,1-Dichloroethane	11	Not Detected	44	Not Detected
2-Butanone (Methyl Ethyl Ketone)	43	Not Detected	130	Not Detected
cis-1,2-Dichloroethene	11	Not Detected	43	Not Detected
Tetrahydrofuran	11	Not Detected	32	Not Detected
Chloroform	11	Not Detected	53	Not Detected
1,1,1-Trichloroethane	11	Not Detected	59	Not Detected
Cyclohexane	11	24	37	82
Carbon Tetrachloride	11	Not Detected	68	Not Detected
2,2,4-Trimethylpentane	11	24	50	110
Benzene	11	2800	34	8900
1,2-Dichloroethane	11	Not Detected	44	Not Detected
Heptane	11	10 J	44	42 J
Trichloroethene	11	Not Detected	58	Not Detected
1,2-Dichloropropane	11	Not Detected	50	Not Detected
1,4-Dioxane	43	Not Detected	160	Not Detected
Bromodichloromethane	11	Not Detected	72	Not Detected
cis-1,3-Dichloropropene	11	Not Detected	49	Not Detected
4-Methyl-2-pentanone	11	Not Detected	44	Not Detected
Toluene	11	2.3 J	41	8.7 J
trans-1,3-Dichloropropene	11	Not Detected	49	Not Detected
1,1,2-Trichloroethane	11	Not Detected	59	Not Detected
Tetrachloroethene	11	Not Detected	73	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-11-5-040611

Lab ID#: 1104186A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041823**	**Date of Collection:**	**4/6/11 10:07:00 AM**
Dil. Factor:	**21.6**	**Date of Analysis:**	**4/18/11 07:14 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	43	Not Detected	180	Not Detected
Dibromochloromethane	11	Not Detected	92	Not Detected
1,2-Dibromoethane (EDB)	11	Not Detected	83	Not Detected
Chlorobenzene	11	Not Detected	50	Not Detected
Ethyl Benzene	11	Not Detected	47	Not Detected
m,p-Xylene	11	Not Detected	47	Not Detected
o-Xylene	11	Not Detected	47	Not Detected
Styrene	11	Not Detected	46	Not Detected
Bromoform	11	Not Detected	110	Not Detected
Cumene	11	Not Detected	53	Not Detected
1,1,2,2-Tetrachloroethane	11	Not Detected	74	Not Detected
Propylbenzene	11	Not Detected	53	Not Detected
4-Ethyltoluene	11	Not Detected	53	Not Detected
1,3,5-Trimethylbenzene	11	Not Detected	53	Not Detected
1,2,4-Trimethylbenzene	11	Not Detected	53	Not Detected
1,3-Dichlorobenzene	11	Not Detected	65	Not Detected
1,4-Dichlorobenzene	11	Not Detected	65	Not Detected
alpha-Chlorotoluene	11	Not Detected	56	Not Detected
1,2-Dichlorobenzene	11	Not Detected	65	Not Detected
1,2,4-Trichlorobenzene	43	Not Detected	320	Not Detected
Hexachlorobutadiene	43	Not Detected	460	Not Detected
Butane	43	360	100	860
Isopentane	43	370	130	1100

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	83	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-11-8-040611

Lab ID#: 1104186A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041826**	**Date of Collection: 4/6/11 11:21:00 AM**	
Dil. Factor:	**11.1**	**Date of Analysis: 4/18/11 09:02 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.6	Not Detected	27	Not Detected
Freon 114	5.6	Not Detected	39	Not Detected
Chloromethane	22	Not Detected	46	Not Detected
Vinyl Chloride	5.6	Not Detected	14	Not Detected
1,3-Butadiene	5.6	Not Detected	12	Not Detected
Bromomethane	5.6	Not Detected	22	Not Detected
Chloroethane	22	Not Detected	58	Not Detected
Freon 11	5.6	Not Detected	31	Not Detected
Ethanol	22	Not Detected	42	Not Detected
Freon 113	5.6	Not Detected	42	Not Detected
1,1-Dichloroethene	5.6	Not Detected	22	Not Detected
Acetone	22	Not Detected	53	Not Detected
2-Propanol	22	Not Detected	54	Not Detected
Carbon Disulfide	22	Not Detected	69	Not Detected
3-Chloropropene	22	Not Detected	69	Not Detected
Methylene Chloride	5.6	Not Detected	19	Not Detected
Methyl tert-butyl ether	5.6	Not Detected	20	Not Detected
trans-1,2-Dichloroethene	5.6	Not Detected	22	Not Detected
Hexane	5.6	Not Detected UJ	20	Not Detected UJ
1,1-Dichloroethane	5.6	Not Detected	22	Not Detected
2-Butanone (Methyl Ethyl Ketone)	22	Not Detected	65	Not Detected
cis-1,2-Dichloroethene	5.6	Not Detected	22	Not Detected
Tetrahydrofuran	5.6	Not Detected	16	Not Detected
Chloroform	5.6	Not Detected	27	Not Detected
1,1,1-Trichloroethane	5.6	Not Detected	30	Not Detected
Cyclohexane	5.6	12	19	42
Carbon Tetrachloride	5.6	Not Detected	35	Not Detected
2,2,4-Trimethylpentane	5.6	13	26	62
Benzene	5.6	2000	18	6200
1,2-Dichloroethane	5.6	Not Detected	22	Not Detected
Heptane	5.6	8.6	23	35
Trichloroethene	5.6	Not Detected	30	Not Detected
1,2-Dichloropropane	5.6	Not Detected	26	Not Detected
1,4-Dioxane	22	Not Detected	80	Not Detected
Bromodichloromethane	5.6	Not Detected	37	Not Detected
cis-1,3-Dichloropropene	5.6	Not Detected	25	Not Detected
4-Methyl-2-pentanone	5.6	Not Detected	23	Not Detected
Toluene	5.6	Not Detected	21	Not Detected
trans-1,3-Dichloropropene	5.6	Not Detected	25	Not Detected
1,1,2-Trichloroethane	5.6	Not Detected	30	Not Detected
Tetrachloroethene	5.6	Not Detected	38	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-11-8-040611

Lab ID#: 1104186A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041826**	**Date of Collection:**	**4/6/11 11:21:00 AM**
Dil. Factor:	**11.1**	**Date of Analysis:**	**4/18/11 09:02 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	22	Not Detected	91	Not Detected
Dibromochloromethane	5.6	Not Detected	47	Not Detected
1,2-Dibromoethane (EDB)	5.6	Not Detected	43	Not Detected
Chlorobenzene	5.6	Not Detected	26	Not Detected
Ethyl Benzene	5.6	Not Detected	24	Not Detected
m,p-Xylene	5.6	Not Detected	24	Not Detected
o-Xylene	5.6	Not Detected	24	Not Detected
Styrene	5.6	Not Detected	24	Not Detected
Bromoform	5.6	Not Detected	57	Not Detected
Cumene	5.6	Not Detected	27	Not Detected
1,1,2,2-Tetrachloroethane	5.6	Not Detected	38	Not Detected
Propylbenzene	5.6	Not Detected	27	Not Detected
4-Ethyltoluene	5.6	Not Detected	27	Not Detected
1,3,5-Trimethylbenzene	5.6	Not Detected	27	Not Detected
1,2,4-Trimethylbenzene	5.6	Not Detected	27	Not Detected
1,3-Dichlorobenzene	5.6	Not Detected	33	Not Detected
1,4-Dichlorobenzene	5.6	Not Detected	33	Not Detected
alpha-Chlorotoluene	5.6	Not Detected	29	Not Detected
1,2-Dichlorobenzene	5.6	Not Detected	33	Not Detected
1,2,4-Trichlorobenzene	22	Not Detected	160	Not Detected
Hexachlorobutadiene	22	Not Detected	240	Not Detected
Butane	22	98	53	230
Isopentane	22	130	66	380

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	84	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-11-8-040611-DUP

Lab ID#: 1104186A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041819**	**Date of Collection:**	**4/6/11 11:21:00 AM**
Dil. Factor:	**9.62**	**Date of Analysis:**	**4/18/11 04:50 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	4.8	Not Detected	24	Not Detected
Freon 114	4.8	Not Detected	34	Not Detected
Chloromethane	19	Not Detected	40	Not Detected
Vinyl Chloride	4.8	Not Detected	12	Not Detected
1,3-Butadiene	4.8	Not Detected	11	Not Detected
Bromomethane	4.8	Not Detected	19	Not Detected
Chloroethane	19	Not Detected	51	Not Detected
Freon 11	4.8	Not Detected	27	Not Detected
Ethanol	19	Not Detected	36	Not Detected
Freon 113	4.8	Not Detected	37	Not Detected
1,1-Dichloroethene	4.8	Not Detected	19	Not Detected
Acetone	19	7.8 J	46	18 J
2-Propanol	19	Not Detected	47	Not Detected
Carbon Disulfide	19	1.3 J	60	4.1 J
3-Chloropropene	19	Not Detected	60	Not Detected
Methylene Chloride	4.8	0.78 J	17	2.7 J
Methyl tert-butyl ether	4.8	Not Detected	17	Not Detected
trans-1,2-Dichloroethene	4.8	Not Detected	19	Not Detected
Hexane	4.8	34 J	17	120 J
1,1-Dichloroethane	4.8	Not Detected	19	Not Detected
2-Butanone (Methyl Ethyl Ketone)	19	Not Detected	57	Not Detected
cis-1,2-Dichloroethene	4.8	Not Detected	19	Not Detected
Tetrahydrofuran	4.8	Not Detected	14	Not Detected
Chloroform	4.8	0.60 J	23	2.9 J
1,1,1-Trichloroethane	4.8	Not Detected	26	Not Detected
Cyclohexane	4.8	14	16	47
Carbon Tetrachloride	4.8	Not Detected	30	Not Detected
2,2,4-Trimethylpentane	4.8	10	22	48
Benzene	4.8	1700	15	5500
1,2-Dichloroethane	4.8	Not Detected	19	Not Detected
Heptane	4.8	6.0	20	25
Trichloroethene	4.8	0.52 J	26	2.8 J
1,2-Dichloropropane	4.8	Not Detected	22	Not Detected
1,4-Dioxane	19	Not Detected	69	Not Detected
Bromodichloromethane	4.8	Not Detected	32	Not Detected
cis-1,3-Dichloropropene	4.8	Not Detected	22	Not Detected
4-Methyl-2-pentanone	4.8	Not Detected	20	Not Detected
Toluene	4.8	0.90 J	18	3.4 J
trans-1,3-Dichloropropene	4.8	Not Detected	22	Not Detected
1,1,2-Trichloroethane	4.8	Not Detected	26	Not Detected
Tetrachloroethene	4.8	Not Detected	33	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-11-8-040611-DUP

Lab ID#: 1104186A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041819**	**Date of Collection:**	**4/6/11 11:21:00 AM**
Dil. Factor:	**9.62**	**Date of Analysis:**	**4/18/11 04:50 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	19	Not Detected	79	Not Detected
Dibromochloromethane	4.8	Not Detected	41	Not Detected
1,2-Dibromoethane (EDB)	4.8	Not Detected	37	Not Detected
Chlorobenzene	4.8	Not Detected	22	Not Detected
Ethyl Benzene	4.8	Not Detected	21	Not Detected
m,p-Xylene	4.8	Not Detected	21	Not Detected
o-Xylene	4.8	Not Detected	21	Not Detected
Styrene	4.8	Not Detected	20	Not Detected
Bromoform	4.8	Not Detected	50	Not Detected
Cumene	4.8	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	4.8	Not Detected	33	Not Detected
Propylbenzene	4.8	Not Detected	24	Not Detected
4-Ethyltoluene	4.8	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	4.8	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	4.8	Not Detected	24	Not Detected
1,3-Dichlorobenzene	4.8	Not Detected	29	Not Detected
1,4-Dichlorobenzene	4.8	Not Detected	29	Not Detected
alpha-Chlorotoluene	4.8	Not Detected	25	Not Detected
1,2-Dichlorobenzene	4.8	Not Detected	29	Not Detected
1,2,4-Trichlorobenzene	19	Not Detected	140	Not Detected
Hexachlorobutadiene	19	Not Detected	200	Not Detected
Butane	19	71	46	170
Isopentane	19	99	57	290

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	82	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-11-29-040611

Lab ID#: 1104186A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041828**	**Date of Collection: 4/6/11 12:27:00 PM**	
Dil. Factor:	**18.9**	**Date of Analysis: 4/18/11 09:59 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	9.4	Not Detected	47	Not Detected
Freon 114	9.4	Not Detected	66	Not Detected
Chloromethane	38	Not Detected	78	Not Detected
Vinyl Chloride	9.4	Not Detected	24	Not Detected
1,3-Butadiene	9.4	Not Detected	21	Not Detected
Bromomethane	9.4	Not Detected	37	Not Detected
Chloroethane	38	Not Detected	100	Not Detected
Freon 11	9.4	Not Detected	53	Not Detected
Ethanol	38	Not Detected	71	Not Detected
Freon 113	9.4	Not Detected	72	Not Detected
1,1-Dichloroethene	9.4	Not Detected	37	Not Detected
Acetone	38	9.9 J	90	23 J
2-Propanol	38	Not Detected	93	Not Detected
Carbon Disulfide	38	2.4 J	120	7.5 J
3-Chloropropene	38	Not Detected	120	Not Detected
Methylene Chloride	9.4	Not Detected	33	Not Detected
Methyl tert-butyl ether	9.4	0.86 J	34	3.1 J
trans-1,2-Dichloroethene	9.4	Not Detected	37	Not Detected
Hexane	9.4	70	33	250
1,1-Dichloroethane	9.4	Not Detected	38	Not Detected
2-Butanone (Methyl Ethyl Ketone)	38	Not Detected	110	Not Detected
cis-1,2-Dichloroethene	9.4	Not Detected	37	Not Detected
Tetrahydrofuran	9.4	Not Detected	28	Not Detected
Chloroform	9.4	Not Detected	46	Not Detected
1,1,1-Trichloroethane	9.4	Not Detected	52	Not Detected
Cyclohexane	9.4	19	32	65
Carbon Tetrachloride	9.4	Not Detected	59	Not Detected
2,2,4-Trimethylpentane	9.4	20	44	96
Benzene	9.4	2900	30	9400
1,2-Dichloroethane	9.4	Not Detected	38	Not Detected
Heptane	9.4	13	39	52
Trichloroethene	9.4	Not Detected	51	Not Detected
1,2-Dichloropropane	9.4	Not Detected	44	Not Detected
1,4-Dioxane	38	Not Detected	140	Not Detected
Bromodichloromethane	9.4	Not Detected	63	Not Detected
cis-1,3-Dichloropropene	9.4	Not Detected	43	Not Detected
4-Methyl-2-pentanone	9.4	Not Detected	39	Not Detected
Toluene	9.4	Not Detected	36	Not Detected
trans-1,3-Dichloropropene	9.4	Not Detected	43	Not Detected
1,1,2-Trichloroethane	9.4	Not Detected	52	Not Detected
Tetrachloroethene	9.4	Not Detected	64	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-11-29-040611

Lab ID#: 1104186A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041828**	**Date of Collection:**	**4/6/11 12:27:00 PM**
Dil. Factor:	**18.9**	**Date of Analysis:**	**4/18/11 09:59 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	38	Not Detected	150	Not Detected
Dibromochloromethane	9.4	Not Detected	80	Not Detected
1,2-Dibromoethane (EDB)	9.4	Not Detected	73	Not Detected
Chlorobenzene	9.4	Not Detected	44	Not Detected
Ethyl Benzene	9.4	Not Detected	41	Not Detected
m,p-Xylene	9.4	Not Detected	41	Not Detected
o-Xylene	9.4	Not Detected	41	Not Detected
Styrene	9.4	Not Detected	40	Not Detected
Bromoform	9.4	Not Detected	98	Not Detected
Cumene	9.4	Not Detected	46	Not Detected
1,1,2,2-Tetrachloroethane	9.4	Not Detected	65	Not Detected
Propylbenzene	9.4	Not Detected	46	Not Detected
4-Ethyltoluene	9.4	Not Detected	46	Not Detected
1,3,5-Trimethylbenzene	9.4	Not Detected	46	Not Detected
1,2,4-Trimethylbenzene	9.4	Not Detected	46	Not Detected
1,3-Dichlorobenzene	9.4	Not Detected	57	Not Detected
1,4-Dichlorobenzene	9.4	Not Detected	57	Not Detected
alpha-Chlorotoluene	9.4	Not Detected	49	Not Detected
1,2-Dichlorobenzene	9.4	Not Detected	57	Not Detected
1,2,4-Trichlorobenzene	38	Not Detected	280	Not Detected
Hexachlorobutadiene	38	Not Detected	400	Not Detected
Butane	38	110	90	260
Isopentane	38	150	110	440

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	81	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-17-5-040611

Lab ID#: 1104186A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041820**	**Date of Collection:**	**4/6/11 2:19:00 PM**
Dil. Factor:	**10.1**	**Date of Analysis:**	**4/18/11 05:31 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	42	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	20	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	39	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	16 J	48	39 J
2-Propanol	20	Not Detected	50	Not Detected
Carbon Disulfide	20	1.9 J	63	5.8 J
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	18	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	31	18	110
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	1.7 J	60	5.0 J
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	25	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	28	Not Detected
Cyclohexane	5.0	9.9	17	34
Carbon Tetrachloride	5.0	Not Detected	32	Not Detected
2,2,4-Trimethylpentane	5.0	10	24	47
Benzene	5.0	1800	16	5800
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	6.1	21	25
Trichloroethene	5.0	1.3 J	27	7.1 J
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	73	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	21	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	28	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-17-5-040611

Lab ID#: 1104186A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041820**	**Date of Collection:**	**4/6/11 2:19:00 PM**
Dil. Factor:	**10.1**	**Date of Analysis:**	**4/18/11 05:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	20	Not Detected	83	Not Detected
Dibromochloromethane	5.0	Not Detected	43	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	39	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	22	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	25	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	35	Not Detected
Propylbenzene	5.0	Not Detected	25	Not Detected
4-Ethyltoluene	5.0	Not Detected	25	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	25	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	25	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	220	Not Detected
Butane	20	53	48	130
Isopentane	20	62	60	180

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	82	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-10-10-040611

Lab ID#: 1104186A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041807**	**Date of Collection:**	**4/6/11 10:03:00 AM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**4/18/11 10:56 AM**

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	0.21 J	7.4	1.2 J
Ethanol	5.3	7.1	9.9	13
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Acetone	5.3	3.5 J	12	8.4 J
2-Propanol	5.3	Not Detected	13	Not Detected
Carbon Disulfide	5.3	0.46 J	16	1.4 J
3-Chloropropene	5.3	Not Detected	16	Not Detected
Methylene Chloride	1.3	4.5	4.6	16
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	1.9	4.6	6.8
1,1-Dichloroethane	1.3	Not Detected	5.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.3	0.52 J	16	1.5 J
cis-1,2-Dichloroethene	1.3	~~0.33 J~~ ND U	5.2	~~1.3 J~~ ND U
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	0.60 J	4.5	2.1 J
Carbon Tetrachloride	1.3	Not Detected	8.3	Not Detected
2,2,4-Trimethylpentane	1.3	1.9	6.2	8.8
Benzene	1.3	21	4.2	67
1,2-Dichloroethane	1.3	Not Detected	5.3	Not Detected
Heptane	1.3	0.54 J	5.4	2.2 J
Trichloroethene	1.3	~~0.43 J~~ ND U	7.1	~~2.3 J~~ ND U
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	~~0.33 J~~ ND U	6.0	~~1.5 J~~ ND U
4-Methyl-2-pentanone	1.3	Not Detected	5.4	Not Detected
Toluene	1.3	0.47 J	5.0	1.8 J
trans-1,3-Dichloropropene	1.3	~~0.34 J~~ ND U	6.0	~~1.4 J~~ ND U
1,1,2-Trichloroethane	1.3	Not Detected	7.2	Not Detected
Tetrachloroethene	1.3	~~0.41 J~~ ND U	9.0	~~2.8 J~~ ND U

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-10-10-040611

Lab ID#: 1104186A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041807**	**Date of Collection:**	**4/6/11 10:03:00 AM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**4/18/11 10:56 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.3	Not Detected	22	Not Detected
Dibromochloromethane	1.3	0.28 J	11	2.4 J
1,2-Dibromoethane (EDB)	1.3	~~0.28 J~~ ND u	10	~~2.2 J~~ ND u
Chlorobenzene	1.3	~~0.27 J~~ ND u	6.1	~~1.2 J~~ ND u
Ethyl Benzene	1.3	0.22 J	5.7	0.94 J
m,p-Xylene	1.3	~~0.30 J~~ ND u	5.7	~~1.3 J~~ ND u
o-Xylene	1.3	Not Detected	5.7	Not Detected
Styrene	1.3	Not Detected	5.6	Not Detected
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	Not Detected	6.5	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.1	Not Detected
Propylbenzene	1.3	~~0.15 J~~ ND u	6.5	~~0.74 J~~ ND u
4-Ethyltoluene	1.3	~~0.18 J~~ ND u	6.5	~~0.93 J~~ ND u
1,3,5-Trimethylbenzene	1.3	Not Detected	6.5	Not Detected
1,2,4-Trimethylbenzene	1.3	~~0.25 J~~	6.5	1.2 J
1,3-Dichlorobenzene	1.3	~~0.49 J~~ ND u	7.9	~~3.0 J~~ ND u
1,4-Dichlorobenzene	1.3	~~0.51 J~~ ND u	7.9	~~3.0 J~~ ND u
alpha-Chlorotoluene	1.3	~~0.29 J~~ ND u	6.8	~~1.5 J~~ ND u
1,2-Dichlorobenzene	1.3	~~0.43 J~~ ND u	7.9	~~2.6 J~~ ND u
1,2,4-Trichlorobenzene	5.3	~~1.9 J~~ ND u	39	~~14 J~~ ND u
Hexachlorobutadiene	5.3	~~1.1 J~~ ND u	56	~~12 J~~ ND u
Butane	5.3	3.6 J	12	8.6 J
Isopentane	5.3	4.8 J	16	14 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	82	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-10-20-040611

Lab ID#: 1104186A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041808**	**Date of Collection:**	**4/6/11 11:06:00 AM**
Dil. Factor:	**2.94**	**Date of Analysis:**	**4/18/11 11:20 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.5	0.42 J	7.3	2.1 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	3.2	Not Detected
Bromomethane	1.5	Not Detected	5.7	Not Detected
Chloroethane	5.9	Not Detected	16	Not Detected
Freon 11	1.5	0.25 J	8.2	1.4 J
Ethanol	5.9	27	11	50
Freon 113	1.5	Not Detected	11	Not Detected
1,1-Dichloroethene	1.5	Not Detected	5.8	Not Detected
Acetone	5.9	21	14	50
2-Propanol	5.9	22	14	54
Carbon Disulfide	5.9	~~0.41 J~~ ND U	18	~~1.3 J~~ ND U
3-Chloropropene	5.9	Not Detected	18	Not Detected
Methylene Chloride	1.5	2.0	5.1	6.8
Methyl tert-butyl ether	1.5	Not Detected	5.3	Not Detected
trans-1,2-Dichloroethene	1.5	Not Detected	5.8	Not Detected
Hexane	1.5	2.4	5.2	8.4
1,1-Dichloroethane	1.5	Not Detected	6.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.9	32	17	96
cis-1,2-Dichloroethene	1.5	Not Detected	5.8	Not Detected
Tetrahydrofuran	1.5	Not Detected	4.3	Not Detected
Chloroform	1.5	Not Detected	7.2	Not Detected
1,1,1-Trichloroethane	1.5	Not Detected	8.0	Not Detected
Cyclohexane	1.5	1.0 J	5.0	3.4 J
Carbon Tetrachloride	1.5	Not Detected	9.2	Not Detected
2,2,4-Trimethylpentane	1.5	6.7	6.9	31
Benzene	1.5	56	4.7	180
1,2-Dichloroethane	1.5	Not Detected	5.9	Not Detected
Heptane	1.5	0.89 J	6.0	3.6 J
Trichloroethene	1.5	~~0.46 J~~ ND U	7.9	~~2.5 J~~ ND 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	9.8	Not Detected
cis-1,3-Dichloropropene	1.5	Not Detected	6.7	Not Detected
4-Methyl-2-pentanone	1.5	26	6.0	100
Toluene	1.5	6.8	5.5	26
trans-1,3-Dichloropropene	1.5	~~0.40 J~~ ND U	6.7	~~1.8 J~~ ND U
1,1,2-Trichloroethane	1.5	Not Detected	8.0	Not Detected
Tetrachloroethene	1.5	~~1.2 J~~ ND U	10	~~8.1 J~~ ND U

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-10-20-040611

Lab ID#: 1104186A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041808**	**Date of Collection:**	**4/6/11 11:06:00 AM**
Dil. Factor:	**2.94**	**Date of Analysis:**	**4/18/11 11:20 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	12	Not Detected
1,2-Dibromoethane (EDB)	1.5	Not Detected	11	Not Detected
Chlorobenzene	1.5	~~0.21 J~~ ND U	6.8	~~0.98 J~~ ND U
Ethyl Benzene	1.5	0.61 J	6.4	2.6 J
m,p-Xylene	1.5	~~1.6~~	6.4	~~6.9~~
o-Xylene	1.5	0.36 J	6.4	1.6 J
Styrene	1.5	Not Detected	6.3	Not Detected
Bromoform	1.5	Not Detected	15	Not Detected
Cumene	1.5	5.9	7.2	29
1,1,2,2-Tetrachloroethane	1.5	Not Detected	10	Not Detected
Propylbenzene	1.5	Not Detected	7.2	Not Detected
4-Ethyltoluene	1.5	~~0.36 J~~ ND U	7.2	~~1.8 J~~ ND U
1,3,5-Trimethylbenzene	1.5	Not Detected	7.2	Not Detected
1,2,4-Trimethylbenzene	1.5	~~0.35 J~~ ND U	7.2	~~1.7 J~~ ND U
1,3-Dichlorobenzene	1.5	~~0.34 J~~ ND U	8.8	~~2.0 J~~ ND U
1,4-Dichlorobenzene	1.5	~~0.45 J~~ ND U	8.8	~~2.7 J~~ ND U
alpha-Chlorotoluene	1.5	~~0.33 J~~ ND U	7.6	~~1.7 J~~ ND U
1,2-Dichlorobenzene	1.5	~~0.27 J~~ ND U	8.8	~~1.6 J~~ ND U
1,2,4-Trichlorobenzene	5.9	~~1.2 J~~ ND U	44	~~8.8 J~~ ND U
Hexachlorobutadiene	5.9	~~0.84 J~~ ND U	63	~~8.0 J~~ ND U
Butane	5.9	9.3	14	22
Isopentane	5.9	9.0	17	27

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	88	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-9-5-040611

Lab ID#: 1104186A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041809**	**Date of Collection:**	**4/6/11 1:49:00 PM**
Dil. Factor:	**6.06**	**Date of Analysis:**	**4/18/11 11:46 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3.0	0.50 J	15	2.5 J
Freon 114	3.0	Not Detected	21	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	3.0	Not Detected	7.7	Not Detected
1,3-Butadiene	3.0	Not Detected	6.7	Not Detected
Bromomethane	3.0	Not Detected	12	Not Detected
Chloroethane	12	Not Detected	32	Not Detected
Freon 11	3.0	Not Detected	17	Not Detected
Ethanol	12	10 J	23	20 J
Freon 113	3.0	Not Detected	23	Not Detected
1,1-Dichloroethene	3.0	Not Detected	12	Not Detected
Acetone	12	11 J	29	26 J
2-Propanol	12	Not Detected	30	Not Detected
Carbon Disulfide	12	~~0.88 J~~ ND U	38	~~2.7 J~~ ND U
3-Chloropropene	12	Not Detected	38	Not Detected
Methylene Chloride	3.0	3.2	10	11
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	11	6.4 J
1,1-Dichloroethane	3.0	Not Detected	12	Not Detected
2-Butanone (Methyl Ethyl Ketone)	12	0.98 J	36	2.9 J
cis-1,2-Dichloroethene	3.0	Not Detected	12	Not Detected
Tetrahydrofuran	3.0	Not Detected	8.9	Not Detected
Chloroform	3.0	Not Detected	15	Not Detected
1,1,1-Trichloroethane	3.0	Not Detected	16	Not Detected
Cyclohexane	3.0	Not Detected	10	Not Detected
Carbon Tetrachloride	3.0	Not Detected	19	Not Detected
2,2,4-Trimethylpentane	3.0	4.6	14	22
Benzene	3.0	35	9.7	110
1,2-Dichloroethane	3.0	Not Detected	12	Not Detected
Heptane	3.0	Not Detected	12	Not Detected
Trichloroethene	3.0	1.4 J	16	7.7 J
1,2-Dichloropropane	3.0	Not Detected	14	Not Detected
1,4-Dioxane	12	Not Detected	44	Not Detected
Bromodichloromethane	3.0	Not Detected	20	Not Detected
cis-1,3-Dichloropropene	3.0	Not Detected	14	Not Detected
4-Methyl-2-pentanone	3.0	Not Detected	12	Not Detected
Toluene	3.0	0.50 J	11	1.9 J
trans-1,3-Dichloropropene	3.0	Not Detected	14	Not Detected
1,1,2-Trichloroethane	3.0	Not Detected	16	Not Detected
Tetrachloroethene	3.0	0.85 J	20	5.8 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-9-5-040611

Lab ID#: 1104186A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041809**	**Date of Collection:**	**4/6/11 1:49:00 PM**
Dil. Factor:	**6.06**	**Date of Analysis:**	**4/18/11 11:46 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	12	Not Detected	50	Not Detected
Dibromochloromethane	3.0	Not Detected	26	Not Detected
1,2-Dibromoethane (EDB)	3.0	Not Detected	23	Not Detected
Chlorobenzene	3.0	Not Detected	14	Not Detected
Ethyl Benzene	3.0	Not Detected	13	Not Detected
m,p-Xylene	3.0	Not Detected	13	Not Detected
o-Xylene	3.0	Not Detected	13	Not Detected
Styrene	3.0	Not Detected	13	Not Detected
Bromoform	3.0	Not Detected	31	Not Detected
Cumene	3.0	Not Detected	15	Not Detected
1,1,2,2-Tetrachloroethane	3.0	Not Detected	21	Not Detected
Propylbenzene	3.0	Not Detected	15	Not Detected
4-Ethyltoluene	3.0	Not Detected	15	Not Detected
1,3,5-Trimethylbenzene	3.0	Not Detected	15	Not Detected
1,2,4-Trimethylbenzene	3.0	Not Detected	15	Not Detected
1,3-Dichlorobenzene	3.0	~~0.48 J~~ ND U	18	~~2.9 J~~ ND U
1,4-Dichlorobenzene	3.0	~~0.60 J~~ ND U	18	~~3.6 J~~ ND U
alpha-Chlorotoluene	3.0	Not Detected	16	Not Detected
1,2-Dichlorobenzene	3.0	~~0.32 J~~ ND U	18	~~2.0 J~~ ND U
1,2,4-Trichlorobenzene	12	~~1.9 J~~ ND U	90	~~14 J~~ ND U
Hexachlorobutadiene	12	Not Detected	130	Not Detected
Butane	12	Not Detected	29	Not Detected
Isopentane	12	4.4 J	36	13 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	89	70-130
1,2-Dichloroethane-d4	83	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-9-11.5-040611

Lab ID#: 1104186A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041810**	**Date of Collection:**	**4/6/11 2:51:00 PM**
Dil. Factor:	**7.89**	**Date of Analysis:**	**4/18/11 12:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3.9	Not Detected	20	Not Detected
Freon 114	3.9	Not Detected	28	Not Detected
Chloromethane	16	Not Detected	32	Not Detected
Vinyl Chloride	3.9	Not Detected	10	Not Detected
1,3-Butadiene	3.9	Not Detected	8.7	Not Detected
Bromomethane	3.9	Not Detected	15	Not Detected
Chloroethane	16	Not Detected	42	Not Detected
Freon 11	3.9	Not Detected	22	Not Detected
Ethanol	16	9.2 J	30	17 J
Freon 113	3.9	Not Detected	30	Not Detected
1,1-Dichloroethene	3.9	Not Detected	16	Not Detected
Acetone	16	11 J	37	26 J
2-Propanol	16	Not Detected	39	Not Detected
Carbon Disulfide	16	~~0.74 J~~ ND U	49	~~2.3 J~~ ND U
3-Chloropropene	16	Not Detected	49	Not Detected
Methylene Chloride	3.9	2.0 J	14	6.9 J
Methyl tert-butyl ether	3.9	Not Detected	14	Not Detected
trans-1,2-Dichloroethene	3.9	Not Detected	16	Not Detected
Hexane	3.9	2.2 J	14	7.9 J
1,1-Dichloroethane	3.9	Not Detected	16	Not Detected
2-Butanone (Methyl Ethyl Ketone)	16	1.5 J	46	4.4 J
cis-1,2-Dichloroethene	3.9	Not Detected	16	Not Detected
Tetrahydrofuran	3.9	Not Detected	12	Not Detected
Chloroform	3.9	Not Detected	19	Not Detected
1,1,1-Trichloroethane	3.9	Not Detected	22	Not Detected
Cyclohexane	3.9	0.96 J	14	3.3 J
Carbon Tetrachloride	3.9	Not Detected	25	Not Detected
2,2,4-Trimethylpentane	3.9	1.6 J	18	7.5 J
Benzene	3.9	7.7	13	25
1,2-Dichloroethane	3.9	Not Detected	16	Not Detected
Heptane	3.9	0.86 J	16	3.5 J
Trichloroethene	3.9	2.1 J	21	11 J
1,2-Dichloropropane	3.9	Not Detected	18	Not Detected
1,4-Dioxane	16	Not Detected	57	Not Detected
Bromodichloromethane	3.9	Not Detected	26	Not Detected
cis-1,3-Dichloropropene	3.9	Not Detected	18	Not Detected
4-Methyl-2-pentanone	3.9	Not Detected	16	Not Detected
Toluene	3.9	Not Detected	15	Not Detected
trans-1,3-Dichloropropene	3.9	Not Detected	18	Not Detected
1,1,2-Trichloroethane	3.9	Not Detected	22	Not Detected
Tetrachloroethene	3.9	0.55 J	27	3.7 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-9-11.5-040611

Lab ID#: 1104186A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041810**	**Date of Collection:**	**4/6/11 2:51:00 PM**
Dil. Factor:	**7.89**	**Date of Analysis:**	**4/18/11 12:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	16	Not Detected	65	Not Detected
Dibromochloromethane	3.9	Not Detected	34	Not Detected
1,2-Dibromoethane (EDB)	3.9	Not Detected	30	Not Detected
Chlorobenzene	3.9	Not Detected	18	Not Detected
Ethyl Benzene	3.9	Not Detected	17	Not Detected
m,p-Xylene	3.9	Not Detected	17	Not Detected
o-Xylene	3.9	Not Detected	17	Not Detected
Styrene	3.9	Not Detected	17	Not Detected
Bromoform	3.9	Not Detected	41	Not Detected
Cumene	3.9	Not Detected	19	Not Detected
1,1,2,2-Tetrachloroethane	3.9	Not Detected	27	Not Detected
Propylbenzene	3.9	Not Detected	19	Not Detected
4-Ethyltoluene	3.9	Not Detected	19	Not Detected
1,3,5-Trimethylbenzene	3.9	Not Detected	19	Not Detected
1,2,4-Trimethylbenzene	3.9	Not Detected	19	Not Detected
1,3-Dichlorobenzene	3.9	Not Detected	24	Not Detected
1,4-Dichlorobenzene	3.9	~~0.82 J~~ ND U	24	~~4.9 J~~ ND U
alpha-Chlorotoluene	3.9	Not Detected	20	Not Detected
1,2-Dichlorobenzene	3.9	~~0.37 J~~ ND U	24	~~2.2 J~~ ND U
1,2,4-Trichlorobenzene	16	~~1.9 J~~ ND U	120	~~14 J~~ ND U
Hexachlorobutadiene	16	Not Detected	170	Not Detected
Butane	16	3.8 J	38	9.0 J
Isopentane	16	3.1 J	46	9.1 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	88	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-7-5-040711

Lab ID#: 1104186A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041821**	**Date of Collection:**	**4/7/11 10:17:00 AM**
Dil. Factor:	**3.64**	**Date of Analysis:**	**4/18/11 06:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.8	0.29 J	9.0	1.4 J
Freon 114	1.8	Not Detected	13	Not Detected
Chloromethane	7.3	Not Detected	15	Not Detected
Vinyl Chloride	1.8	Not Detected	4.6	Not Detected
1,3-Butadiene	1.8	Not Detected	4.0	Not Detected
Bromomethane	1.8	Not Detected	7.1	Not Detected
Chloroethane	7.3	Not Detected	19	Not Detected
Freon 11	1.8	Not Detected	10	Not Detected
Ethanol	7.3	1.8 J	14	3.4 J
Freon 113	1.8	Not Detected	14	Not Detected
1,1-Dichloroethene	1.8	Not Detected	7.2	Not Detected
Acetone	7.3	3.2 J	17	7.6 J
2-Propanol	7.3	Not Detected	18	Not Detected
Carbon Disulfide	7.3	~~0.84 J~~ ND U	23	~~2.6 J~~ ND U
3-Chloropropene	7.3	Not Detected	23	Not Detected
Methylene Chloride	1.8	~~0.42 J~~ ND U	6.3	~~1.5 J~~ ND U
Methyl tert-butyl ether	1.8	Not Detected	6.6	Not Detected
trans-1,2-Dichloroethene	1.8	Not Detected	7.2	Not Detected
Hexane	1.8	4.7	6.4	16
1,1-Dichloroethane	1.8	Not Detected	7.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7.3	Not Detected	21	Not Detected
cis-1,2-Dichloroethene	1.8	Not Detected	7.2	Not Detected
Tetrahydrofuran	1.8	Not Detected	5.4	Not Detected
Chloroform	1.8	Not Detected	8.9	Not Detected
1,1,1-Trichloroethane	1.8	Not Detected	9.9	Not Detected
Cyclohexane	1.8	2.4	6.3	8.1
Carbon Tetrachloride	1.8	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	1.8	2.2	8.5	10
Benzene	1.8	490	5.8	1600
1,2-Dichloroethane	1.8	Not Detected	7.4	Not Detected
Heptane	1.8	1.8	7.4	7.4
Trichloroethene	1.8	~~0.59 J~~	9.8	3.2 J
1,2-Dichloropropane	1.8	Not Detected	8.4	Not Detected
1,4-Dioxane	7.3	Not Detected	26	Not Detected
Bromodichloromethane	1.8	Not Detected	12	Not Detected
cis-1,3-Dichloropropene	1.8	Not Detected	8.3	Not Detected
4-Methyl-2-pentanone	1.8	Not Detected	7.4	Not Detected
Toluene	1.8	0.65 J	6.8	2.5 J
trans-1,3-Dichloropropene	1.8	Not Detected	8.3	Not Detected
1,1,2-Trichloroethane	1.8	Not Detected	9.9	Not Detected
Tetrachloroethene	1.8	Not Detected	12	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-7-5-040711

Lab ID#: 1104186A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041821**	**Date of Collection:**	**4/7/11 10:17:00 AM**
Dil. Factor:	**3.64**	**Date of Analysis:**	**4/18/11 06:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	7.3	Not Detected	30	Not Detected
Dibromochloromethane	1.8	Not Detected	16	Not Detected
1,2-Dibromoethane (EDB)	1.8	Not Detected	14	Not Detected
Chlorobenzene	1.8	Not Detected	8.4	Not Detected
Ethyl Benzene	1.8	Not Detected	7.9	Not Detected
m,p-Xylene	1.8	Not Detected	7.9	Not Detected
o-Xylene	1.8	Not Detected	7.9	Not Detected
Styrene	1.8	Not Detected	7.8	Not Detected
Bromoform	1.8	Not Detected	19	Not Detected
Cumene	1.8	Not Detected	8.9	Not Detected
1,1,2,2-Tetrachloroethane	1.8	Not Detected	12	Not Detected
Propylbenzene	1.8	Not Detected	8.9	Not Detected
4-Ethyltoluene	1.8	Not Detected	8.9	Not Detected
1,3,5-Trimethylbenzene	1.8	Not Detected	8.9	Not Detected
1,2,4-Trimethylbenzene	1.8	Not Detected	8.9	Not Detected
1,3-Dichlorobenzene	1.8	Not Detected	11	Not Detected
1,4-Dichlorobenzene	1.8	Not Detected	11	Not Detected
alpha-Chlorotoluene	1.8	Not Detected	9.4	Not Detected
1,2-Dichlorobenzene	1.8	Not Detected	11	Not Detected
1,2,4-Trichlorobenzene	7.3	Not Detected	54	Not Detected
Hexachlorobutadiene	7.3	Not Detected	78	Not Detected
Butane	7.3	5.3 J	17	12 J
Isopentane	7.3	6.5 J	21	19 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	89	70-130
1,2-Dichloroethane-d4	87	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-7-13.5-040711

Lab ID#: 1104186A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041815**	**Date of Collection:**	**4/7/11 11:21:00 AM**
Dil. Factor:	**4.32**	**Date of Analysis:**	**4/18/11 02:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.2	Not Detected	11	Not Detected
Freon 114	2.2	Not Detected	15	Not Detected
Chloromethane	8.6	Not Detected	18	Not Detected
Vinyl Chloride	2.2	Not Detected	5.5	Not Detected
1,3-Butadiene	2.2	Not Detected	4.8	Not Detected
Bromomethane	2.2	Not Detected	8.4	Not Detected
Chloroethane	8.6	Not Detected	23	Not Detected
Freon 11	2.2	Not Detected	12	Not Detected
Ethanol	8.6	Not Detected	16	Not Detected
Freon 113	2.2	Not Detected	16	Not Detected
1,1-Dichloroethene	2.2	Not Detected	8.6	Not Detected
Acetone	8.6	5.0 J	20	12 J
2-Propanol	8.6	Not Detected	21	Not Detected
Carbon Disulfide	8.6	~~1.1 J~~ ND U	27	~~3.4 J~~ ND U
3-Chloropropene	8.6	Not Detected	27	Not Detected
Methylene Chloride	2.2	~~0.53 J~~ ND U	7.5	~~1.8 J~~ ND U
Methyl tert-butyl ether	2.2	Not Detected	7.8	Not Detected
trans-1,2-Dichloroethene	2.2	Not Detected	8.6	Not Detected
Hexane	2.2	6.3	7.6	22
1,1-Dichloroethane	2.2	Not Detected	8.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	8.6	Not Detected	25	Not Detected
cis-1,2-Dichloroethene	2.2	Not Detected	8.6	Not Detected
Tetrahydrofuran	2.2	Not Detected	6.4	Not Detected
Chloroform	2.2	Not Detected	10	Not Detected
1,1,1-Trichloroethane	2.2	Not Detected	12	Not Detected
Cyclohexane	2.2	2.6	7.4	9.1
Carbon Tetrachloride	2.2	Not Detected	14	Not Detected
2,2,4-Trimethylpentane	2.2	3.7	10	17
Benzene	2.2	540	6.9	1700
1,2-Dichloroethane	2.2	Not Detected	8.7	Not Detected
Heptane	2.2	1.6 J	8.8	6.4 J
Trichloroethene	2.2	0.72 J	12	3.8 J
1,2-Dichloropropane	2.2	Not Detected	10	Not Detected
1,4-Dioxane	8.6	Not Detected	31	Not Detected
Bromodichloromethane	2.2	Not Detected	14	Not Detected
cis-1,3-Dichloropropene	2.2	Not Detected	9.8	Not Detected
4-Methyl-2-pentanone	2.2	Not Detected	8.8	Not Detected
Toluene	2.2	0.43 J	8.1	1.6 J
trans-1,3-Dichloropropene	2.2	Not Detected	9.8	Not Detected
1,1,2-Trichloroethane	2.2	Not Detected	12	Not Detected
Tetrachloroethene	2.2	Not Detected	15	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-7-13.5-040711

Lab ID#: 1104186A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041815**	**Date of Collection:**	**4/7/11 11:21:00 AM**
Dil. Factor:	**4.32**	**Date of Analysis:**	**4/18/11 02:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	8.6	Not Detected	35	Not Detected
Dibromochloromethane	2.2	Not Detected	18	Not Detected
1,2-Dibromoethane (EDB)	2.2	Not Detected	16	Not Detected
Chlorobenzene	2.2	Not Detected	9.9	Not Detected
Ethyl Benzene	2.2	Not Detected	9.4	Not Detected
m,p-Xylene	2.2	Not Detected	9.4	Not Detected
o-Xylene	2.2	Not Detected	9.4	Not Detected
Styrene	2.2	Not Detected	9.2	Not Detected
Bromoform	2.2	Not Detected	22	Not Detected
Cumene	2.2	Not Detected	11	Not Detected
1,1,2,2-Tetrachloroethane	2.2	Not Detected	15	Not Detected
Propylbenzene	2.2	Not Detected	11	Not Detected
4-Ethyltoluene	2.2	Not Detected	11	Not Detected
1,3,5-Trimethylbenzene	2.2	Not Detected	11	Not Detected
1,2,4-Trimethylbenzene	2.2	Not Detected	11	Not Detected
1,3-Dichlorobenzene	2.2	Not Detected	13	Not Detected
1,4-Dichlorobenzene	2.2	Not Detected	13	Not Detected
alpha-Chlorotoluene	2.2	Not Detected	11	Not Detected
1,2-Dichlorobenzene	2.2	Not Detected	13	Not Detected
1,2,4-Trichlorobenzene	8.6	Not Detected	64	Not Detected
Hexachlorobutadiene	8.6	Not Detected	92	Not Detected
Butane	8.6	6.8 J	20	16 J
Isopentane	8.6	8.1 J	25	24 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	87	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-7-29.5-040711

Lab ID#: 1104186A-12A

EPA METHOD TO-15 GC/MS

File Name:	**b041821**	**Date of Collection:**	**4/7/11 12:26:00 PM**
Dil. Factor:	**31.3**	**Date of Analysis:**	**4/18/11 08:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	160	Not Detected	770	Not Detected
Freon 114	160	Not Detected	1100	Not Detected
Chloromethane	630	Not Detected	1300	Not Detected
Vinyl Chloride	160	Not Detected	400	Not Detected
1,3-Butadiene	160	Not Detected	350	Not Detected
Bromomethane	160	Not Detected	610	Not Detected
Chloroethane	630	Not Detected	1600	Not Detected
Freon 11	160	Not Detected	880	Not Detected
Ethanol	630	Not Detected	1200	Not Detected
Freon 113	160	Not Detected	1200	Not Detected
1,1-Dichloroethene	160	Not Detected	620	Not Detected
Acetone	630	Not Detected	1500	Not Detected
2-Propanol	630	Not Detected	1500	Not Detected
Carbon Disulfide	160	Not Detected	490	Not Detected
3-Chloropropene	630	Not Detected	2000	Not Detected
Methylene Chloride	160	Not Detected	540	Not Detected
Methyl tert-butyl ether	160	Not Detected	560	Not Detected
trans-1,2-Dichloroethene	160	Not Detected	620	Not Detected
Hexane	160	54000 J	550	190000 J
1,1-Dichloroethane	160	Not Detected	630	Not Detected
2-Butanone (Methyl Ethyl Ketone)	630	Not Detected	1800	Not Detected
cis-1,2-Dichloroethene	160	Not Detected	620	Not Detected
Tetrahydrofuran	160	Not Detected	460	Not Detected
Chloroform	160	Not Detected	760	Not Detected
1,1,1-Trichloroethane	160	Not Detected	850	Not Detected
Cyclohexane	160	82000 J	540	280000 J
Carbon Tetrachloride	160	Not Detected	980	Not Detected
2,2,4-Trimethylpentane	160	120000 J	730	550000 J
Benzene	160	13000 J	500	40000 J
1,2-Dichloroethane	160	Not Detected	630	Not Detected
Heptane	160	53000 J	640	220000 J
Trichloroethene	160	Not Detected	840	Not Detected
1,2-Dichloropropane	160	Not Detected	720	Not Detected
1,4-Dioxane	630	Not Detected	2200	Not Detected
Bromodichloromethane	160	Not Detected	1000	Not Detected
cis-1,3-Dichloropropene	160	Not Detected	710	Not Detected
4-Methyl-2-pentanone	160	Not Detected	640	Not Detected
Toluene	160	Not Detected	590	Not Detected
trans-1,3-Dichloropropene	160	Not Detected	710	Not Detected
1,1,2-Trichloroethane	160	Not Detected	850	Not Detected
Tetrachloroethene	160	Not Detected	1100	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-7-29.5-040711

Lab ID#: 1104186A-12A

EPA METHOD TO-15 GC/MS

File Name:	**b041821**	**Date of Collection: 4/7/11 12:26:00 PM**	
Dil. Factor:	**31.3**	**Date of Analysis: 4/18/11 08:57 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	630	Not Detected	2600	Not Detected
Dibromochloromethane	160	Not Detected	1300	Not Detected
1,2-Dibromoethane (EDB)	160	Not Detected	1200	Not Detected
Chlorobenzene	160	Not Detected	720	Not Detected
Ethyl Benzene	160	Not Detected	680	Not Detected
m,p-Xylene	160	180 J	680	770 J
o-Xylene	160	Not Detected	680	Not Detected
Styrene	160	Not Detected	670	Not Detected
Bromoform	160	Not Detected	1600	Not Detected
Cumene	160	690 J	770	3400 J
1,1,2,2-Tetrachloroethane	160	Not Detected	1100	Not Detected
Propylbenzene	160	520 J	770	2500 J
4-Ethyltoluene	160	47 J J	770	230 J J
1,3,5-Trimethylbenzene	160	Not Detected	770	Not Detected
1,2,4-Trimethylbenzene	160	Not Detected	770	Not Detected
1,3-Dichlorobenzene	160	Not Detected	940	Not Detected
1,4-Dichlorobenzene	160	Not Detected	940	Not Detected
alpha-Chlorotoluene	160	Not Detected	810	Not Detected
1,2-Dichlorobenzene	160	Not Detected	940	Not Detected
1,2,4-Trichlorobenzene	630	Not Detected	4600	Not Detected
Hexachlorobutadiene	630	Not Detected	6700	Not Detected
Butane	630	39000 J	1500	94000 J
Isopentane	630	130000 J	1800	380000 J

J = Estimated value.
Q = Exceeds Quality Control limits.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	138 Q	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-7-38-040711

Lab ID#: 1104186A-13A

EPA METHOD TO-15 GC/MS

File Name:	**b041823**	**Date of Collection: 4/7/11 1:34:00 PM**	
Dil. Factor:	**44.0**	**Date of Analysis: 4/18/11 10:00 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	220	Not Detected	1100	Not Detected
Freon 114	220	Not Detected	1500	Not Detected
Chloromethane	880	Not Detected	1800	Not Detected
Vinyl Chloride	220	Not Detected	560	Not Detected
1,3-Butadiene	220	Not Detected	490	Not Detected
Bromomethane	220	Not Detected	850	Not Detected
Chloroethane	880	Not Detected	2300	Not Detected
Freon 11	220	Not Detected	1200	Not Detected
Ethanol	880	Not Detected	1600	Not Detected
Freon 113	220	Not Detected	1700	Not Detected
1,1-Dichloroethene	220	Not Detected	870	Not Detected
Acetone	880	Not Detected	2100	Not Detected
2-Propanol	880	Not Detected	2200	Not Detected
Carbon Disulfide	220	Not Detected	680	Not Detected
3-Chloropropene	880	Not Detected	2800	Not Detected
Methylene Chloride	220	Not Detected	760	Not Detected
Methyl tert-butyl ether	220	Not Detected	790	Not Detected
trans-1,2-Dichloroethene	220	Not Detected	870	Not Detected
Hexane	220	43000 J	780	150000 J
1,1-Dichloroethane	220	Not Detected	890	Not Detected
2-Butanone (Methyl Ethyl Ketone)	880	Not Detected	2600	Not Detected
cis-1,2-Dichloroethene	220	Not Detected	870	Not Detected
Tetrahydrofuran	220	Not Detected	650	Not Detected
Chloroform	220	Not Detected	1100	Not Detected
1,1,1-Trichloroethane	220	Not Detected	1200	Not Detected
Cyclohexane	220	100000 J	760	350000 J
Carbon Tetrachloride	220	Not Detected	1400	Not Detected
2,2,4-Trimethylpentane	220	150000 J	1000	720000 J
Benzene	220	7600 J	700	24000 J
1,2-Dichloroethane	220	Not Detected	890	Not Detected
Heptane	220	27000 J	900	110000 J
Trichloroethene	220	Not Detected	1200	Not Detected
1,2-Dichloropropane	220	Not Detected	1000	Not Detected
1,4-Dioxane	880	Not Detected	3200	Not Detected
Bromodichloromethane	220	Not Detected	1500	Not Detected
cis-1,3-Dichloropropene	220	Not Detected	1000	Not Detected
4-Methyl-2-pentanone	220	Not Detected	900	Not Detected
Toluene	220	Not Detected	830	Not Detected
trans-1,3-Dichloropropene	220	Not Detected	1000	Not Detected
1,1,2-Trichloroethane	220	Not Detected	1200	Not Detected
Tetrachloroethene	220	Not Detected	1500	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-7-38-040711

Lab ID#: 1104186A-13A

EPA METHOD TO-15 GC/MS

File Name:	**b041823**	**Date of Collection: 4/7/11 1:34:00 PM**	
Dil. Factor:	**44.0**	**Date of Analysis: 4/18/11 10:00 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	880	Not Detected	3600	Not Detected
Dibromochloromethane	220	Not Detected	1900	Not Detected
1,2-Dibromoethane (EDB)	220	Not Detected	1700	Not Detected
Chlorobenzene	220	Not Detected	1000	Not Detected
Ethyl Benzene	220	Not Detected	960	Not Detected
m,p-Xylene	220	96 J J	960	420 J J
o-Xylene	220	Not Detected	960	Not Detected
Styrene	220	Not Detected	940	Not Detected
Bromoform	220	Not Detected	2300	Not Detected
Cumene	220	110 J J	1100	560 J J
1,1,2,2-Tetrachloroethane	220	Not Detected	1500	Not Detected
Propylbenzene	220	88 J J	1100	430 J J
4-Ethyltoluene	220	Not Detected	1100	Not Detected
1,3,5-Trimethylbenzene	220	Not Detected	1100	Not Detected
1,2,4-Trimethylbenzene	220	Not Detected	1100	Not Detected
1,3-Dichlorobenzene	220	Not Detected	1300	Not Detected
1,4-Dichlorobenzene	220	Not Detected	1300	Not Detected
alpha-Chlorotoluene	220	Not Detected	1100	Not Detected
1,2-Dichlorobenzene	220	Not Detected	1300	Not Detected
1,2,4-Trichlorobenzene	880	Not Detected	6500	Not Detected
Hexachlorobutadiene	880	Not Detected	9400	Not Detected
Butane	880	51000 J	2100	120000 J J
Isopentane	880	170000 J	2600	500000 J J

J = Estimated value.
Q = Exceeds Quality Control limits.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	135 Q	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-18-8.5-040711

Lab ID#: 1104186A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041812**	**Date of Collection:**	**4/7/11 4:01:00 PM**
Dil. Factor:	**2.57**	**Date of Analysis:**	**4/18/11 01:05 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.38 J	6.4	1.9 J
Freon 114	1.3	Not Detected	9.0	Not Detected
Chloromethane	5.1	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	5.1	Not Detected	14	Not Detected
Freon 11	1.3	0.18 J	7.2	1.0 J
Ethanol	5.1	6.2	9.7	12
Freon 113	1.3	Not Detected	9.8	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.1	Not Detected
Acetone	5.1	6.3	12	15
2-Propanol	5.1	Not Detected	13	Not Detected
Carbon Disulfide	5.1	~~0.64 J~~ ND U	16	~~2.0 J~~ ND U
3-Chloropropene	5.1	Not Detected	16	Not Detected
Methylene Chloride	1.3	0.62 J	4.5	2.1 J
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	1.4	4.5	4.9
1,1-Dichloroethane	1.3	Not Detected	5.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.1	0.77 J	15	2.3 J
cis-1,2-Dichloroethene	1.3	Not Detected	5.1	Not Detected
Tetrahydrofuran	1.3	Not Detected	3.8	Not Detected
Chloroform	1.3	Not Detected	6.3	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.0	Not Detected
Cyclohexane	1.3	1.8	4.4	6.2
Carbon Tetrachloride	1.3	Not Detected	8.1	Not Detected
2,2,4-Trimethylpentane	1.3	4.8	6.0	22
Benzene	1.3	26	4.1	84
1,2-Dichloroethane	1.3	Not Detected	5.2	Not Detected
Heptane	1.3	2.8	5.3	12
Trichloroethene	1.3	0.60 J	6.9	3.2 J
1,2-Dichloropropane	1.3	0.71 J	5.9	3.3 J
1,4-Dioxane	5.1	1.2 J	18	4.3 J
Bromodichloromethane	1.3	Not Detected	8.6	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.3	Not Detected
Toluene	1.3	0.30 J	4.8	1.1 J
trans-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.0	Not Detected
Tetrachloroethene	1.3	0.53 J	8.7	3.6 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-18-8.5-040711

Lab ID#: 1104186A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041812**	**Date of Collection:**	**4/7/11 4:01:00 PM**
Dil. Factor:	**2.57**	**Date of Analysis:**	**4/18/11 01:05 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.1	Not Detected	21	Not Detected
Dibromochloromethane	1.3	0.27 J	11	2.3 J
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.9	Not Detected
Chlorobenzene	1.3	~~0.20 J~~ ND U	5.9	~~0.93 J~~ ND U
Ethyl Benzene	1.3	Not Detected	5.6	Not Detected
m,p-Xylene	1.3	~~0.14 J~~ ND U	5.6	~~0.59 J~~ ND U
o-Xylene	1.3	Not Detected	5.6	Not Detected
Styrene	1.3	Not Detected	5.5	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
Cumene	1.3	1.3	6.3	6.4
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.8	Not Detected
Propylbenzene	1.3	2.0	6.3	10
4-Ethyltoluene	1.3	~~0.26 J~~ ND U	6.3	~~1.3 J~~ ND U
1,3,5-Trimethylbenzene	1.3	Not Detected	6.3	Not Detected
1,2,4-Trimethylbenzene	1.3	~~0.25 J~~ ND U	6.3	~~1.2 J~~ ND U
1,3-Dichlorobenzene	1.3	~~0.22 J~~ ND U	7.7	~~1.4 J~~ ND U
1,4-Dichlorobenzene	1.3	~~0.29 J~~ ND U	7.7	~~1.7 J~~ ND U
alpha-Chlorotoluene	1.3	~~1.1 J~~ ND U	6.6	~~5.9 J~~ ND U
1,2-Dichlorobenzene	1.3	~~0.20 J~~ ND U	7.7	~~1.2 J~~ ND U
1,2,4-Trichlorobenzene	5.1	~~0.60 J~~ ND U	38	~~4.4 J~~ ND U
Hexachlorobutadiene	5.1	Not Detected	55	Not Detected
Butane	5.1	2.9 J	12	6.9 J
Isopentane	5.1	4.1 J	15	12 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-8-5-040711

Lab ID#: 1104186A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041816**	**Date of Collection:**	**4/7/11 11:16:00 AM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**4/18/11 03:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.52 J	6.8	2.6 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	0.20 J	7.8	1.1 J
Ethanol	5.5	Not Detected	10	Not Detected
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	5.5	23	13	55
2-Propanol	5.5	Not Detected	14	Not Detected
Carbon Disulfide	5.5	~~0.98 J~~ NDU	17	~~3.0 J~~ ND U
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	Not Detected	4.9	Not Detected
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	0.80 J	16	2.4 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	0.19 J	6.7	0.94 J
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	0.41 J	4.8	1.4 J
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	0.64 J	6.4	3.0 J
Benzene	1.4	370	4.4	1200
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	Not Detected	5.6	Not Detected
Trichloroethene	1.4	0.55 J	7.4	3.0 J
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.5	1.6 J	20	5.7 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	Not Detected	5.6	Not Detected
Toluene	1.4	0.42 J	5.2	1.6 J
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	~~0.26 J~~ ND U	9.4	~~1.8 J~~ ND U

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-8-5-040711

Lab ID#: 1104186A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041816**	**Date of Collection:**	**4/7/11 11:16:00 AM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**4/18/11 03:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.5	Not Detected	23	Not Detected
Dibromochloromethane	1.4	0.27 J	12	2.3 J
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.4	Not Detected
Ethyl Benzene	1.4	Not Detected	6.0	Not Detected
m,p-Xylene	1.4	~~0.41 J~~	6.0	1.8 J
o-Xylene	1.4	Not Detected	6.0	Not Detected
Styrene	1.4	Not Detected	5.9	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.8	Not Detected
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	Not Detected	6.8	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	~~0.18 J~~ ND U	8.3	~~1.1 J~~ ND U
alpha-Chlorotoluene	1.4	Not Detected	7.1	Not Detected
1,2-Dichlorobenzene	1.4	~~0.15 J~~ ND U	8.3	~~0.93 J~~ ND U
1,2,4-Trichlorobenzene	5.5	~~0.36 J~~ ND U	41	~~2.6 J~~ ND U
Hexachlorobutadiene	5.5	Not Detected	59	Not Detected
Butane	5.5	Not Detected	13	Not Detected
Isopentane	5.5	1.2 J	16	3.7 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	86	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-8-9.5-040711

Lab ID#: 1104186A-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041817**	**Date of Collection:**	**4/7/11 12:33:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**4/18/11 03:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.32 J	6.8	1.6 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	3.9 J	10	7.4 J
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	5.5	3.8 J	13	8.9 J
2-Propanol	5.5	1.7 J	14	4.3 J
Carbon Disulfide	5.5	0.49 J	17	1.5 J
3-Chloropropene	5.5	Not Detected	17	Not Detected
Methylene Chloride	1.4	0.28 J	4.8	0.97 J
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	0.35 J	4.9	1.2 J
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.5	0.79 J	16	2.3 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	Not Detected	6.7	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.5	Not Detected
Cyclohexane	1.4	0.23 J	4.8	0.79 J
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	0.60 J	6.4	2.8 J
Benzene	1.4	290	4.4	930
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	Not Detected	5.6	Not Detected
Trichloroethene	1.4	0.67 J	7.4	3.6 J
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	Not Detected	5.6	Not Detected
Toluene	1.4	0.33 J	5.2	1.2 J
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	0.69 J	9.4	4.6 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-8-9.5-040711

Lab ID#: 1104186A-16A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041817**	**Date of Collection:**	**4/7/11 12:33:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**4/18/11 03:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.5	Not Detected	23	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	6.4	Not Detected
Ethyl Benzene	1.4	Not Detected	6.0	Not Detected
m,p-Xylene	1.4	0.14 J	6.0	0.63 J
o-Xylene	1.4	Not Detected	6.0	Not Detected
Styrene	1.4	Not Detected	5.9	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.8	Not Detected
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	Not Detected	6.8	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.3	Not Detected
1,4-Dichlorobenzene	1.4	0.15 J	8.3	0.92 J
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	1.0 J	16	3.1 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	88	70-130
1,2-Dichloroethane-d4	87	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-8-23.5-040711

Lab ID#: 1104186A-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041818**	**Date of Collection:**	**4/7/11 1:52:00 PM**
Dil. Factor:	**2.52**	**Date of Analysis:**	**4/18/11 04:21 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.47 J	6.2	2.3 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	0.18 J	7.1	0.98 J
Ethanol	5.0	4.0 J	9.5	7.5 J
Freon 113	1.3	Not Detected	9.6	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Acetone	5.0	4.2 J	12	10 J
2-Propanol	5.0	Not Detected	12	Not Detected
Carbon Disulfide	5.0	0.78 J	16	2.4 J
3-Chloropropene	5.0	Not Detected	16	Not Detected
Methylene Chloride	1.3	1.9	4.4	6.6
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	0.76 J	4.4	2.7 J
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	0.30 J	4.3	1.0 J
Carbon Tetrachloride	1.3	Not Detected	7.9	Not Detected
2,2,4-Trimethylpentane	1.3	0.49 J	5.9	2.3 J
Benzene	1.3	380 J	4.0	1200 J
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected
Heptane	1.3	Not Detected	5.2	Not Detected
Trichloroethene	1.3	0.56 J	6.8	3.0 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	Not Detected	5.2	Not Detected
Toluene	1.3	0.40 J	4.7	1.5 J
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	0.66 J	8.5	4.5 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-8-23.5-040711

Lab ID#: 1104186A-17A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041818**	**Date of Collection:**	**4/7/11 1:52:00 PM**
Dil. Factor:	**2.52**	**Date of Analysis:**	**4/18/11 04:21 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	0.25 J	11	2.1 J
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	0.15 J	5.5	0.66 J
m,p-Xylene	1.3	0.28 J	5.5	1.2 J
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	0.27 J	37	2.0 J
Hexachlorobutadiene	5.0	Not Detected	54	Not Detected
Butane	5.0	Not Detected	12	Not Detected
Isopentane	5.0	1.0 J	15	3.0 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	85	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-8-23.5-040711-Dup

Lab ID#: 1104186A-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041813**	**Date of Collection: 4/7/11 1:52:00 PM**	
Dil. Factor:	**4.00**	**Date of Analysis: 4/18/11 01:55 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.0	0.35 J	9.9	1.7 J
Freon 114	2.0	Not Detected	14	Not Detected
Chloromethane	8.0	Not Detected	16	Not Detected
Vinyl Chloride	2.0	Not Detected	5.1	Not Detected
1,3-Butadiene	2.0	Not Detected	4.4	Not Detected
Bromomethane	2.0	Not Detected	7.8	Not Detected
Chloroethane	8.0	Not Detected	21	Not Detected
Freon 11	2.0	Not Detected	11	Not Detected
Ethanol	8.0	3.9 J	15	7.3 J
Freon 113	2.0	Not Detected	15	Not Detected
1,1-Dichloroethene	2.0	Not Detected	7.9	Not Detected
Acetone	8.0	3.9 J	19	9.3 J
2-Propanol	8.0	Not Detected	20	Not Detected
Carbon Disulfide	8.0	0.80 J	25	2.5 J
3-Chloropropene	8.0	Not Detected	25	Not Detected
Methylene Chloride	2.0	0.60 J	6.9	2.1 J
Methyl tert-butyl ether	2.0	0.19 J	7.2	0.68 J
trans-1,2-Dichloroethene	2.0	Not Detected	7.9	Not Detected
Hexane	2.0	0.79 J	7.0	2.8 J
1,1-Dichloroethane	2.0	Not Detected	8.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	8.0	Not Detected	24	Not Detected
cis-1,2-Dichloroethene	2.0	Not Detected	7.9	Not Detected
Tetrahydrofuran	2.0	Not Detected	5.9	Not Detected
Chloroform	2.0	Not Detected	9.8	Not Detected
1,1,1-Trichloroethane	2.0	Not Detected	11	Not Detected
Cyclohexane	2.0	0.79 J	6.9	2.7 J
Carbon Tetrachloride	2.0	Not Detected	12	Not Detected
2,2,4-Trimethylpentane	2.0	0.38 J	9.3	1.8 J
Benzene	2.0	230 J	6.4	730 J
1,2-Dichloroethane	2.0	0.34 J	8.1	1.4 J
Heptane	2.0	Not Detected	8.2	Not Detected
Trichloroethene	2.0	1.1 J	11	6.0 J
1,2-Dichloropropane	2.0	Not Detected	9.2	Not Detected
1,4-Dioxane	8.0	Not Detected	29	Not Detected
Bromodichloromethane	2.0	Not Detected	13	Not Detected
cis-1,3-Dichloropropene	2.0	Not Detected	9.1	Not Detected
4-Methyl-2-pentanone	2.0	Not Detected	8.2	Not Detected
Toluene	2.0	0.36 J	7.5	1.4 J
trans-1,3-Dichloropropene	2.0	Not Detected	9.1	Not Detected
1,1,2-Trichloroethane	2.0	0.45 J	11	2.5 J
Tetrachloroethene	2.0	0.76 J	14	5.2 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-8-23.5-040711-Dup

Lab ID#: 1104186A-18A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041813**	**Date of Collection: 4/7/11 1:52:00 PM**	
Dil. Factor:	**4.00**	**Date of Analysis: 4/18/11 01:55 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	8.0	Not Detected	33	Not Detected
Dibromochloromethane	2.0	0.39 J	17	3.3 J
1,2-Dibromoethane (EDB)	2.0	Not Detected	15	Not Detected
Chlorobenzene	2.0	Not Detected	9.2	Not Detected
Ethyl Benzene	2.0	Not Detected	8.7	Not Detected
m,p-Xylene	2.0	0.24 J	8.7	1.0 J
o-Xylene	2.0	Not Detected	8.7	Not Detected
Styrene	2.0	Not Detected	8.5	Not Detected
Bromoform	2.0	Not Detected	21	Not Detected
Cumene	2.0	Not Detected	9.8	Not Detected
1,1,2,2-Tetrachloroethane	2.0	Not Detected	14	Not Detected
Propylbenzene	2.0	Not Detected	9.8	Not Detected
4-Ethyltoluene	2.0	Not Detected	9.8	Not Detected
1,3,5-Trimethylbenzene	2.0	Not Detected	9.8	Not Detected
1,2,4-Trimethylbenzene	2.0	Not Detected	9.8	Not Detected
1,3-Dichlorobenzene	2.0	0.26 J	12	1.6 J
1,4-Dichlorobenzene	2.0	0.29 J	12	1.7 J
alpha-Chlorotoluene	2.0	Not Detected	10	Not Detected
1,2-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,2,4-Trichlorobenzene	8.0	0.65 J	59	4.8 J
Hexachlorobutadiene	8.0	Not Detected	85	Not Detected
Butane	8.0	Not Detected	19	Not Detected
Isopentane	8.0	1.7 J	24	4.9 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	84	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-19-5-040711

Lab ID#: 1104186A-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041814**	**Date of Collection:**	**4/7/11 4:43:00 PM**
Dil. Factor:	**2.70**	**Date of Analysis:**	**4/18/11 02:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.42 J	6.7	2.1 J
Freon 114	1.4	Not Detected	9.4	Not Detected
Chloromethane	5.4	Not Detected	11	Not Detected
Vinyl Chloride	1.4	Not Detected	3.4	Not Detected
1,3-Butadiene	1.4	Not Detected	3.0	Not Detected
Bromomethane	1.4	Not Detected	5.2	Not Detected
Chloroethane	5.4	Not Detected	14	Not Detected
Freon 11	1.4	0.17 J	7.6	0.94 J
Ethanol	5.4	3.0 J	10	5.8 J
Freon 113	1.4	Not Detected	10	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.4	Not Detected
Acetone	5.4	4.4 J	13	10 J
2-Propanol	5.4	Not Detected	13	Not Detected
Carbon Disulfide	5.4	0.42 J	17	1.3 J
3-Chloropropene	5.4	Not Detected	17	Not Detected
Methylene Chloride	1.4	0.27 J	4.7	0.93 J
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	Not Detected	4.8	Not Detected
1,1-Dichloroethane	1.4	Not Detected	5.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.4	0.59 J	16	1.7 J
cis-1,2-Dichloroethene	1.4	Not Detected	5.4	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.0	Not Detected
Chloroform	1.4	Not Detected	6.6	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.4	Not Detected
Cyclohexane	1.4	1.3 J	4.6	4.3 J
Carbon Tetrachloride	1.4	Not Detected	8.5	Not Detected
2,2,4-Trimethylpentane	1.4	11	6.3	54
Benzene	1.4	240	4.3	760
1,2-Dichloroethane	1.4	Not Detected	5.5	Not Detected
Heptane	1.4	Not Detected	5.5	Not Detected
Trichloroethene	1.4	0.63 J	7.2	3.4 J
1,2-Dichloropropane	1.4	Not Detected	6.2	Not Detected
1,4-Dioxane	5.4	Not Detected	19	Not Detected
Bromodichloromethane	1.4	Not Detected	9.0	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.1	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.5	Not Detected
Toluene	1.4	0.38 J	5.1	1.4 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.1	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.4	Not Detected
Tetrachloroethene	1.4	0.22 J	9.2	1.5 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-19-5-040711

Lab ID#: 1104186A-19A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041814**	**Date of Collection:**	**4/7/11 4:43:00 PM**
Dil. Factor:	**2.70**	**Date of Analysis:**	**4/18/11 02:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.4	Not Detected	22	Not Detected
Dibromochloromethane	1.4	Not Detected	12	Not Detected
1,2-Dibromoethane (EDB)	1.4	0.16 J	10	1.2 J
Chlorobenzene	1.4	0.16 J	6.2	0.72 J
Ethyl Benzene	1.4	0.20 J	5.9	0.86 J
m,p-Xylene	1.4	0.36 J	5.9	1.5 J
o-Xylene	1.4	Not Detected	5.9	Not Detected
Styrene	1.4	Not Detected	5.8	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	Not Detected	6.6	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.3	Not Detected
Propylbenzene	1.4	Not Detected	6.6	Not Detected
4-Ethyltoluene	1.4	Not Detected	6.6	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	6.6	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	6.6	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.1	Not Detected
1,4-Dichlorobenzene	1.4	0.15 J	8.1	0.88 J
alpha-Chlorotoluene	1.4	Not Detected	7.0	Not Detected
1,2-Dichlorobenzene	1.4	0.11 J	8.1	0.68 J
1,2,4-Trichlorobenzene	5.4	0.42 J	40	3.1 J
Hexachlorobutadiene	5.4	Not Detected	58	Not Detected
Butane	5.4	2.2 J	13	5.2 J
Isopentane	5.4	8.6	16	25

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	90	70-130
1,2-Dichloroethane-d4	89	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104186A-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041806a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 09:37 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	0.27 J	6.2	0.83 J
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	0.047 J	2.0	0.19 J
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	0.10 J	2.0	0.41 J
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	0.22 J	1.6	0.70 J
1,2-Dichloroethane	0.50	0.11 J	2.0	0.46 J
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	0.12 J	2.3	0.56 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	0.18 J	2.3	0.82 J
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	0.096 J	3.4	0.65 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104186A-20A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041806a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 09:37 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	0.15 J	3.8	1.1 J
Chlorobenzene	0.50	0.096 J	2.3	0.44 J
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	0.074 J	2.2	0.32 J
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	0.072 J	3.4	0.50 J
Propylbenzene	0.50	0.078 J	2.4	0.38 J
4-Ethyltoluene	0.50	0.12 J	2.4	0.58 J
1,3,5-Trimethylbenzene	0.50	0.16 J	2.4	0.76 J
1,2,4-Trimethylbenzene	0.50	0.21 J	2.4	1.0 J
1,3-Dichlorobenzene	0.50	0.32 J	3.0	1.9 J
1,4-Dichlorobenzene	0.50	0.42 J	3.0	2.5 J
alpha-Chlorotoluene	0.50	0.17 J	2.6	0.86 J
1,2-Dichlorobenzene	0.50	0.34 J	3.0	2.0 J
1,2,4-Trichlorobenzene	2.0	1.2 J	15	9.3 J
Hexachlorobutadiene	2.0	0.92 J	21	9.8 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	90	70-130
1,2-Dichloroethane-d4	87	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104186A-20B

EPA METHOD TO-15 GC/MS

File Name:	**b041805a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 09:39 AM**	

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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104186A-20B

EPA METHOD TO-15 GC/MS

File Name:	**b041805a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 09:39 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	93	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104186A-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 07:15 AM**	

Compound	%Recovery
Freon 12	80
Freon 114	100
Chloromethane	83
Vinyl Chloride	88
1,3-Butadiene	89
Bromomethane	91
Chloroethane	82
Freon 11	85
Ethanol	89
Freon 113	101
1,1-Dichloroethene	101
Acetone	86
2-Propanol	94
Carbon Disulfide	83
3-Chloropropene	83
Methylene Chloride	90
Methyl tert-butyl ether	84
trans-1,2-Dichloroethene	96
Hexane	99
1,1-Dichloroethane	90
2-Butanone (Methyl Ethyl Ketone)	84
cis-1,2-Dichloroethene	97
Tetrahydrofuran	96
Chloroform	80
1,1,1-Trichloroethane	90
Cyclohexane	81
Carbon Tetrachloride	98
2,2,4-Trimethylpentane	94
Benzene	77
1,2-Dichloroethane	88
Heptane	85
Trichloroethene	82
1,2-Dichloropropane	81
1,4-Dioxane	75
Bromodichloromethane	80
cis-1,3-Dichloropropene	77
4-Methyl-2-pentanone	85
Toluene	83
trans-1,3-Dichloropropene	86
1,1,2-Trichloroethane	86
Tetrachloroethene	100

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104186A-21A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 07:15 AM**	

Compound	%Recovery
2-Hexanone	90
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	89
Chlorobenzene	94
Ethyl Benzene	89
m,p-Xylene	91
o-Xylene	88
Styrene	92
Bromoform	102
Cumene	93
1,1,2,2-Tetrachloroethane	73
Propylbenzene	89
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	100
1,2-Dichlorobenzene	97
1,2,4-Trichlorobenzene	115
Hexachlorobutadiene	114
Butane	90
Isopentane	90

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	87	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	110	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104186A-21B

EPA METHOD TO-15 GC/MS

File Name:	**b041802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 08:13 AM**	

Compound	%Recovery
Freon 12	94
Freon 114	93
Chloromethane	88
Vinyl Chloride	94
1,3-Butadiene	88
Bromomethane	92
Chloroethane	86
Freon 11	92
Ethanol	81
Freon 113	92
1,1-Dichloroethene	84
Acetone	84
2-Propanol	74
Carbon Disulfide	85
3-Chloropropene	82
Methylene Chloride	84
Methyl tert-butyl ether	84
trans-1,2-Dichloroethene	88
Hexane	84
1,1-Dichloroethane	85
2-Butanone (Methyl Ethyl Ketone)	81
cis-1,2-Dichloroethene	84
Tetrahydrofuran	77
Chloroform	86
1,1,1-Trichloroethane	87
Cyclohexane	90
Carbon Tetrachloride	90
2,2,4-Trimethylpentane	85
Benzene	90
1,2-Dichloroethane	88
Heptane	89
Trichloroethene	88
1,2-Dichloropropane	87
1,4-Dioxane	88
Bromodichloromethane	89
cis-1,3-Dichloropropene	83
4-Methyl-2-pentanone	84
Toluene	89
trans-1,3-Dichloropropene	89
1,1,2-Trichloroethane	93
Tetrachloroethene	94

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104186A-21B

EPA METHOD TO-15 GC/MS

File Name:	**b041802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 08:13 AM**	

Compound	%Recovery
2-Hexanone	80
Dibromochloromethane	99
1,2-Dibromoethane (EDB)	95
Chlorobenzene	97
Ethyl Benzene	96
m,p-Xylene	96
o-Xylene	96
Styrene	101
Bromoform	96
Cumene	103
1,1,2,2-Tetrachloroethane	91
Propylbenzene	97
4-Ethyltoluene	99
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	100
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	105
1,2,4-Trichlorobenzene	124
Hexachlorobutadiene	148 Q
Butane	92
Isopentane	80

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130

Air TOXICS LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104186A-22A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 08:10 AM**	

Compound	%Recovery
Freon 12	84
Freon 114	106
Chloromethane	95
Vinyl Chloride	94
1,3-Butadiene	103
Bromomethane	100
Chloroethane	89
Freon 11	91
Ethanol	90
Freon 113	107
1,1-Dichloroethene	105
Acetone	100
2-Propanol	100
Carbon Disulfide	108
3-Chloropropene	98
Methylene Chloride	92
Methyl tert-butyl ether	94
trans-1,2-Dichloroethene	119
Hexane	102
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	82
cis-1,2-Dichloroethene	101
Tetrahydrofuran	98
Chloroform	88
1,1,1-Trichloroethane	96
Cyclohexane	87
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	98
Benzene	81
1,2-Dichloroethane	91
Heptane	88
Trichloroethene	87
1,2-Dichloropropane	84
1,4-Dioxane	74
Bromodichloromethane	83
cis-1,3-Dichloropropene	83
4-Methyl-2-pentanone	87
Toluene	85
trans-1,3-Dichloropropene	87
1,1,2-Trichloroethane	86
Tetrachloroethene	105

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104186A-22A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 08:10 AM**	

Compound	%Recovery
2-Hexanone	87
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	92
Chlorobenzene	96
Ethyl Benzene	89
m,p-Xylene	94
o-Xylene	91
Styrene	91
Bromoform	100
Cumene	96
1,1,2,2-Tetrachloroethane	76
Propylbenzene	91
4-Ethyltoluene	92
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	99
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	100
1,2-Dichlorobenzene	96
1,2,4-Trichlorobenzene	96
Hexachlorobutadiene	106
Butane	96
Isopentane	99

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	110	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104186A-22AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 08:29 AM**	

Compound	%Recovery
Freon 12	78
Freon 114	102
Chloromethane	86
Vinyl Chloride	87
1,3-Butadiene	94
Bromomethane	98
Chloroethane	87
Freon 11	83
Ethanol	85
Freon 113	102
1,1-Dichloroethene	105
Acetone	93
2-Propanol	93
Carbon Disulfide	104
3-Chloropropene	95
Methylene Chloride	90
Methyl tert-butyl ether	87
trans-1,2-Dichloroethene	109
Hexane	101
1,1-Dichloroethane	90
2-Butanone (Methyl Ethyl Ketone)	81
cis-1,2-Dichloroethene	99
Tetrahydrofuran	89
Chloroform	80
1,1,1-Trichloroethane	90
Cyclohexane	82
Carbon Tetrachloride	93
2,2,4-Trimethylpentane	93
Benzene	80
1,2-Dichloroethane	89
Heptane	88
Trichloroethene	86
1,2-Dichloropropane	85
1,4-Dioxane	71
Bromodichloromethane	81
cis-1,3-Dichloropropene	84
4-Methyl-2-pentanone	85
Toluene	83
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	90
Tetrachloroethene	111

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104186A-22AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 08:29 AM**	

Compound	%Recovery
2-Hexanone	91
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	93
Chlorobenzene	102
Ethyl Benzene	94
m,p-Xylene	95
o-Xylene	94
Styrene	95
Bromoform	104
Cumene	98
1,1,2,2-Tetrachloroethane	78
Propylbenzene	96
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	107
1,2,4-Trimethylbenzene	103
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	103
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	123
Hexachlorobutadiene	120
Butane	101
Isopentane	92

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	89	70-130
1,2-Dichloroethane-d4	84	70-130
4-Bromofluorobenzene	111	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104186A-22B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**b041803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 08:45 AM**	

Compound	%Recovery
Freon 12	90
Freon 114	86
Chloromethane	88
Vinyl Chloride	90
1,3-Butadiene	83
Bromomethane	85
Chloroethane	80
Freon 11	85
Ethanol	72
Freon 113	86
1,1-Dichloroethene	84
Acetone	77
2-Propanol	68
Carbon Disulfide	97
3-Chloropropene	89
Methylene Chloride	78
Methyl tert-butyl ether	79
trans-1,2-Dichloroethene	92
Hexane	79
1,1-Dichloroethane	81
2-Butanone (Methyl Ethyl Ketone)	79
cis-1,2-Dichloroethene	80
Tetrahydrofuran	70
Chloroform	82
1,1,1-Trichloroethane	83
Cyclohexane	84
Carbon Tetrachloride	86
2,2,4-Trimethylpentane	80
Benzene	85
1,2-Dichloroethane	82
Heptane	83
Trichloroethene	82
1,2-Dichloropropane	81
1,4-Dioxane	82
Bromodichloromethane	82
cis-1,3-Dichloropropene	78
4-Methyl-2-pentanone	78
Toluene	82
trans-1,3-Dichloropropene	83
1,1,2-Trichloroethane	85
Tetrachloroethene	86

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104186A-22B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**b041803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 08:45 AM**	

Compound	%Recovery
2-Hexanone	76
Dibromochloromethane	89
1,2-Dibromoethane (EDB)	90
Chlorobenzene	90
Ethyl Benzene	88
m,p-Xylene	90
o-Xylene	90
Styrene	93
Bromoform	88
Cumene	97
1,1,2,2-Tetrachloroethane	87
Propylbenzene	91
4-Ethyltoluene	90
1,3,5-Trimethylbenzene	93
1,2,4-Trimethylbenzene	92
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	95
alpha-Chlorotoluene	92
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	118
Hexachlorobutadiene	137 Q
Butane	79
Isopentane	74

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104186A-22BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**b041804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 09:09 AM**	

Compound	%Recovery
Freon 12	89
Freon 114	86
Chloromethane	88
Vinyl Chloride	90
1,3-Butadiene	84
Bromomethane	86
Chloroethane	79
Freon 11	85
Ethanol	74
Freon 113	88
1,1-Dichloroethene	86
Acetone	78
2-Propanol	69
Carbon Disulfide	99
3-Chloropropene	88
Methylene Chloride	78
Methyl tert-butyl ether	79
trans-1,2-Dichloroethene	92
Hexane	79
1,1-Dichloroethane	82
2-Butanone (Methyl Ethyl Ketone)	80
cis-1,2-Dichloroethene	81
Tetrahydrofuran	70
Chloroform	83
1,1,1-Trichloroethane	84
Cyclohexane	85
Carbon Tetrachloride	86
2,2,4-Trimethylpentane	81
Benzene	85
1,2-Dichloroethane	82
Heptane	84
Trichloroethene	82
1,2-Dichloropropane	81
1,4-Dioxane	81
Bromodichloromethane	82
cis-1,3-Dichloropropene	79
4-Methyl-2-pentanone	81
Toluene	82
trans-1,3-Dichloropropene	81
1,1,2-Trichloroethane	85
Tetrachloroethene	85

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104186A-22BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**b041804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 09:09 AM**	

Compound	%Recovery
2-Hexanone	74
Dibromochloromethane	88
1,2-Dibromoethane (EDB)	88
Chlorobenzene	90
Ethyl Benzene	88
m,p-Xylene	90
o-Xylene	90
Styrene	93
Bromoform	87
Cumene	96
1,1,2,2-Tetrachloroethane	86
Propylbenzene	92
4-Ethyltoluene	90
1,3,5-Trimethylbenzene	93
1,2,4-Trimethylbenzene	93
1,3-Dichlorobenzene	97
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	92
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	126
Hexachlorobutadiene	143 Q
Butane	80
Isopentane	74

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	93	70-130
4-Bromofluorobenzene	104	70-130

1104186

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&DM ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Thomas Adams
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 8 4 0
SAP #: 3 4 0 0 8 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 04/07/11
PAGE: 1 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
BTS ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
EMAIL: Elizabeth.Kunkel@URSCorp.com
CONSULTANT PROJECT NAME: Roxana Dissolved Phase
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) PRINT: M. Miller, C Smith, B. Crafton, W. Buchman
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Thomas.Adams@URSCorp.com

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Turn Around Time: ☑ Normal ☐ Rush Specify

Lab Use Only: Pressurized by: Date: Pressurization Gas: N_2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946					
01A	VMP-11-5-040611	04/06/11	0934 - 1007	1368	-29	-7.5			X	X						
02A	VMP-11-8-040611	04/06/11	1046 - 1121	3899	-30	-8			X	X						
03A	VMP-11-8-040611-DUP	04/06/11	1046 - 1121	126	-29.5	-8.5			X	X						
04A	VMP-11-29-040611	04/06/11	1155 - 1227	2567	-29.5	-8			X	X						
05A	VMP-17-5-040611	04/06/11	1346 - 1419	93	-29.5	-9			X	X						
06A	VMP-10-10-040611	04/06/11	0934 - 1003	1387	-29	-7.5			X	X						
07A	VMP-10-20-040611	04/06/11	1036 - 1106	550	-28.5	-8.5			X	X						
08A	VMP-9-5-040611	04/06/11	1318 - 1349	2070	-28.5	-9.5			X	X						
09A	VMP-9-11.5-040611	04/06/11	1418 - 1451	1472	-29	-8			X	X						
10A	VMP-7-5-040711	04/07/11	0943 - 1017	2109	-29	-8			X	X						

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	4/7/11	1830
	K. McKiernan ATL	4/8/11	0900
		Date	Time

05/2/08 Revision

CUSTODY SEAL INTACT? Y N NONE TEMP NA
FedEx

1104120

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&DM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Thomas Adams
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 04/07/11
PAGE: 2 of 2

SAMPLING COMPANY: URS CORPORATION
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Thomas_Adams@URSCorp.com

SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
HCP DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME#: Roxana Dissolved Phase
SAMPLER NAME(S) (Print): M. Miller, C Smith, B. Crafton, W. Buchman

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Lab Use Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
11A	VMP-7-13.5-040711	04/07/11	1050 - 1121	3082	-29.5	-7			X	X	
12A	VMP-7-29.5-040711	04/07/11	1157 - 1226	2726	-27	-8			X	X	
13A	VMP-7-38-040711	04/07/11	1301 - 1334	2609	-29.5	-7			X	X	
14A	VMP-18-8.5-040711	04/07/11	1530 - 1601	748	-29.5	-6.5			X	X	
15A	VMP-8-5-040711	04/07/11	1045 - 1116	214	-29	-8			X	X	
16A	VMP-8-9.5-040711	04/07/11	1200 - 1230	3762	-28.5	-8			X	X	
17A	VMP-8-23.5-040711	04/07/11	1320 - 1352	5815	-27	-5			X	X	
18A	VMP-8-23.5-040711-Dup	04/07/11	1320 - 1352	1012	-30	-9.5			X	X	
19A	VMP-19-5-040711	04/07/11	1558 - 1643	3889	-29	-8			X	X	

Turn Around Time: ☑ Normal ☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FEDEX	4/7/11	1830
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	K. McKiernan ATL	4/8/11	09:00
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/05 Revision

FedEx
CUSTODY SEAL INTACT?
Y N NONE EMP NA

Air Toxics LTD.
Laboratory Services Since 1989

4/15/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562593.00008
Workorder #: 1104186B

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/8/2011 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 #: 1104186B

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/08/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/15/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-11-5-040611	Modified ASTM D-1946	7.6 "Hg	15 psi
02A	VMP-11-8-040611	Modified ASTM D-1946	8.2 "Hg	15 psi
03A	VMP-11-8-040611-DUP	Modified ASTM D-1946	9.0 "Hg	15 psi
04A	VMP-11-29-040611	Modified ASTM D-1946	8.6 "Hg	15 psi
05A	VMP-17-5-040611	Modified ASTM D-1946	10.0 "Hg	15 psi
06A	VMP-10-10-040611	Modified ASTM D-1946	7.0 "Hg	15 psi
07A	VMP-10-20-040611	Modified ASTM D-1946	9.4 "Hg	15 psi
08A	VMP-9-5-040611	Modified ASTM D-1946	9.8 "Hg	15 psi
09A	VMP-9-11.5-040611	Modified ASTM D-1946	9.0 "Hg	15 psi
10A	VMP-7-5-040711	Modified ASTM D-1946	7.8 "Hg	15 psi
11A	VMP-7-13.5-040711	Modified ASTM D-1946	6.6 "Hg	15 psi
12A	VMP-7-29.5-040711	Modified ASTM D-1946	5.8 "Hg	15 psi
13A	VMP-7-38-040711	Modified ASTM D-1946	7.0 "Hg	15 psi
14A	VMP-18-8.5-040711	Modified ASTM D-1946	6.4 "Hg	15 psi
15A	VMP-8-5-040711	Modified ASTM D-1946	8.0 "Hg	15 psi
16A	VMP-8-9.5-040711	Modified ASTM D-1946	8.0 "Hg	15 psi
17A	VMP-8-23.5-040711	Modified ASTM D-1946	6.0 "Hg	15 psi

Continued on next page

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1104186B

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/08/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/15/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
18A	VMP-8-23.5-040711-Dup	Modified ASTM D-1946	8.2 "Hg	15 psi
19A	VMP-19-5-040711	Modified ASTM D-1946	7.6 "Hg	15 psi
20A	Lab Blank	Modified ASTM D-1946	NA	NA
20B	Lab Blank	Modified ASTM D-1946	NA	NA
21A	LCS	Modified ASTM D-1946	NA	NA
21AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 04/15/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1104186B

Nineteen 1 Liter Summa Canister samples were received on April 08, 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.

Requirement	*ASTM D-1946*	*ATL Modifications*
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 >/= 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 X's 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

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-11-5-040611

Lab ID#: 1104186B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	12
Nitrogen	0.27	80
Methane	0.00027	0.0020
Carbon Dioxide	0.027	8.0
Helium	0.14	0.022 J

Client Sample ID: VMP-11-8-040611

Lab ID#: 1104186B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	11
Nitrogen	0.28	81
Methane	0.00028	0.000070 J
Carbon Dioxide	0.028	8.2
Helium	0.14	0.017 J

Client Sample ID: VMP-11-8-040611-DUP

Lab ID#: 1104186B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	12
Nitrogen	0.29	80
Methane	0.00029	0.000058 J
Carbon Dioxide	0.029	8.1
Helium	0.14	0.034 J

Client Sample ID: VMP-11-29-040611

Lab ID#: 1104186B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.8

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-11-29-040611

Lab ID#: 1104186B-04A

Nitrogen	0.28	83
Methane	0.00028	0.00062
Carbon Dioxide	0.028	15
Helium	0.14	0.031 J

Client Sample ID: VMP-17-5-040611

Lab ID#: 1104186B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	18
Nitrogen	0.30	79
Carbon Dioxide	0.030	3.2
Helium	0.15	0.020 J

Client Sample ID: VMP-10-10-040611

Lab ID#: 1104186B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	19
Nitrogen	0.26	79
Methane	0.00026	0.000048 J
Carbon Dioxide	0.026	2.2
Helium	0.13	0.026 J

Client Sample ID: VMP-10-20-040611

Lab ID#: 1104186B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	21
Nitrogen	0.29	78
Methane	0.00029	0.00019 J
Carbon Dioxide	0.029	0.58
Helium	0.15	0.028 J

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-9-5-040611

Lab ID#: 1104186B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.61	6.8
Nitrogen	0.61	83
Carbon Dioxide	0.061	10
Helium	0.30	0.034 J

Client Sample ID: VMP-9-11.5-040611

Lab ID#: 1104186B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.59	3.2
Nitrogen	0.59	84
Methane	0.00059	0.0025
Carbon Dioxide	0.059	13
Helium	0.30	0.035 J

Client Sample ID: VMP-7-5-040711

Lab ID#: 1104186B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	15
Nitrogen	0.27	80
Carbon Dioxide	0.027	5.3
Helium	0.14	0.025 J

Client Sample ID: VMP-7-13.5-040711

Lab ID#: 1104186B-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	7.6
Nitrogen	0.26	81
Carbon Dioxide	0.026	11

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-7-13.5-040711

Lab ID#: 1104186B-11A

Helium	0.13	0.033 J

Client Sample ID: VMP-7-29.5-040711

Lab ID#: 1104186B-12A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	4.7
Nitrogen	0.25	81
Methane	0.00025	1.4
Carbon Dioxide	0.025	13
Ethane	0.0025	0.00022 J
Helium	0.12	0.016 J

Client Sample ID: VMP-7-38-040711

Lab ID#: 1104186B-13A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.9
Nitrogen	0.26	81
Methane	0.00026	1.8
Carbon Dioxide	0.026	15
Ethane	0.0026	0.00028 J
Helium	0.13	0.013 J

Client Sample ID: VMP-18-8.5-040711

Lab ID#: 1104186B-14A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	14
Nitrogen	0.26	80
Methane	0.00026	0.000047 J
Carbon Dioxide	0.026	6.4
Helium	0.13	0.037 J

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-8-5-040711

Lab ID#: 1104186B-15A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	20
Nitrogen	0.28	77
Methane	0.00028	0.00017 J
Carbon Dioxide	0.028	2.9
Helium	0.14	0.032 J

Client Sample ID: VMP-8-9.5-040711

Lab ID#: 1104186B-16A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	14
Nitrogen	0.28	79
Carbon Dioxide	0.028	7.4
Helium	0.14	0.043 J

Client Sample ID: VMP-8-23.5-040711

Lab ID#: 1104186B-17A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	13
Nitrogen	0.25	79
Carbon Dioxide	0.025	8.3
Helium	0.13	0.029 J

Client Sample ID: VMP-8-23.5-040711-Dup

Lab ID#: 1104186B-18A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.60	16
Nitrogen	0.60	72
Carbon Dioxide	0.060	11

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-8-23.5-040711-Dup

Lab ID#: 1104186B-18A

Helium	0.30	1.2

Client Sample ID: VMP-19-5-040711

Lab ID#: 1104186B-19A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	16
Nitrogen	0.27	78
Carbon Dioxide	0.027	5.8
Helium	0.14	0.047 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-11-5-040611

Lab ID#: 1104186B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041425**	**Date of Collection:**	**4/6/11 10:07:00 AM**
Dil. Factor:	**2.70**	**Date of Analysis:**	**4/14/11 05:12 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	12
Nitrogen	0.27	80
Carbon Monoxide	0.027	Not Detected
Methane	0.00027	0.0020
Carbon Dioxide	0.027	8.0
Ethane	0.0027	Not Detected
Ethene	0.0027	Not Detected
Helium	0.14	0.022 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-11-8-040611

Lab ID#: 1104186B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041426**	**Date of Collection:**	**4/6/11 11:21:00 AM**
Dil. Factor:	**2.78**	**Date of Analysis:**	**4/14/11 05:58 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	11
Nitrogen	0.28	81
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.000070 J
Carbon Dioxide	0.028	8.2
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.017 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-11-8-040611-DUP

Lab ID#: 1104186B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041427**	**Date of Collection:**	**4/6/11 11:21:00 AM**
Dil. Factor:	**2.89**	**Date of Analysis:**	**4/14/11 06:19 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	12
Nitrogen	0.29	80
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.000058 J
Carbon Dioxide	0.029	8.1
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.14	0.034 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-11-29-040611

Lab ID#: 1104186B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041428**	**Date of Collection:**	**4/6/11 12:27:00 PM**
Dil. Factor:	**2.83**	**Date of Analysis:**	**4/14/11 06:41 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.8
Nitrogen	0.28	83
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.00062
Carbon Dioxide	0.028	15
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.031 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-17-5-040611

Lab ID#: 1104186B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041429**	**Date of Collection:**	**4/6/11 2:19:00 PM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**4/14/11 07:03 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.30	18
Nitrogen	0.30	79
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	Not Detected
Carbon Dioxide	0.030	3.2
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.020 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-10-10-040611

Lab ID#: 1104186B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041430**	**Date of Collection:**	**4/6/11 10:03:00 AM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**4/14/11 07:45 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	19
Nitrogen	0.26	79
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.000048 J
Carbon Dioxide	0.026	2.2
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.026 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-10-20-040611

Lab ID#: 1104186B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041431**	**Date of Collection:**	**4/6/11 11:06:00 AM**
Dil. Factor:	**2.94**	**Date of Analysis:**	**4/14/11 08:09 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	21
Nitrogen	0.29	78
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	0.00019 J
Carbon Dioxide	0.029	0.58
Ethane	0.0029	Not Detected
Ethene	0.0029	Not Detected
Helium	0.15	0.028 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-9-5-040611

Lab ID#: 1104186B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041432**	**Date of Collection:**	**4/6/11 1:49:00 PM**
Dil. Factor:	**6.06**	**Date of Analysis:**	**4/14/11 09:02 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.61	6.8
Nitrogen	0.61	83
Carbon Monoxide	0.061	Not Detected
Methane	0.00061	Not Detected
Carbon Dioxide	0.061	10
Ethane	0.0061	Not Detected
Ethene	0.0061	Not Detected
Helium	0.30	0.034 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-9-11.5-040611

Lab ID#: 1104186B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041444**	**Date of Collection:**	**4/6/11 2:51:00 PM**
Dil. Factor:	**5.92**	**Date of Analysis:**	**4/15/11 10:35 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.59	3.2
Nitrogen	0.59	84
Carbon Monoxide	0.059	Not Detected
Methane	0.00059	0.0025
Carbon Dioxide	0.059	13
Ethane	0.0059	Not Detected
Ethene	0.0059	Not Detected
Helium	0.30	0.035 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-7-5-040711

Lab ID#: 1104186B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041433**	**Date of Collection:**	**4/7/11 10:17:00 AM**
Dil. Factor:	**2.73**	**Date of Analysis:**	**4/14/11 09:56 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.27	15
Nitrogen	0.27	80
Carbon Monoxide	0.027	Not Detected
Methane	0.00027	Not Detected
Carbon Dioxide	0.027	5.3
Ethane	0.0027	Not Detected
Ethene	0.0027	Not Detected
Helium	0.14	0.025 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-7-13.5-040711

Lab ID#: 1104186B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041435**	**Date of Collection:**	**4/7/11 11:21:00 AM**
Dil. Factor:	**2.59**	**Date of Analysis:**	**4/15/11 06:46 AM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.26	7.6
Nitrogen	0.26	81
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	Not Detected
Carbon Dioxide	0.026	11
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.033 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-7-29.5-040711

Lab ID#: 1104186B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041436**	**Date of Collection:**	**4/7/11 12:26:00 PM**
Dil. Factor:	**2.50**	**Date of Analysis:**	**4/15/11 07:13 AM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.25	4.7
Nitrogen	0.25	81
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	1.4
Carbon Dioxide	0.025	13
Ethane	0.0025	0.00022 J
Ethene	0.0025	Not Detected
Helium	0.12	0.016 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-7-38-040711

Lab ID#: 1104186B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041437**	**Date of Collection:**	**4/7/11 1:34:00 PM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**4/15/11 07:39 AM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.26	1.9
Nitrogen	0.26	81
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	1.8
Carbon Dioxide	0.026	15
Ethane	0.0026	0.00028 J
Ethene	0.0026	Not Detected
Helium	0.13	0.013 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-18-8.5-040711

Lab ID#: 1104186B-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041439**	**Date of Collection:**	**4/7/11 4:01:00 PM**
Dil. Factor:	**2.57**	**Date of Analysis:**	**4/15/11 08:27 AM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.26	14
Nitrogen	0.26	80
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.000047 J
Carbon Dioxide	0.026	6.4
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.037 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-8-5-040711

Lab ID#: 1104186B-15A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041440**	**Date of Collection:**	**4/7/11 11:16:00 AM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**4/15/11 08:51 AM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.28	20
Nitrogen	0.28	77
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.00017 J
Carbon Dioxide	0.028	2.9
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.032 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-8-9.5-040711

Lab ID#: 1104186B-16A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041441**	**Date of Collection:**	**4/7/11 12:33:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**4/15/11 09:14 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	14
Nitrogen	0.28	79
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	Not Detected
Carbon Dioxide	0.028	7.4
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.043 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-8-23.5-040711

Lab ID#: 1104186B-17A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041442**	**Date of Collection:**	**4/7/11 1:52:00 PM**
Dil. Factor:	**2.52**	**Date of Analysis:**	**4/15/11 09:36 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	13
Nitrogen	0.25	79
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	Not Detected
Carbon Dioxide	0.025	8.3
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.13	0.029 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-8-23.5-040711-Dup

Lab ID#: 1104186B-18A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041445**	**Date of Collection:**	**4/7/11 1:52:00 PM**
Dil. Factor:	**6.00**	**Date of Analysis:**	**4/15/11 10:59 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.60	16
Nitrogen	0.60	72
Carbon Monoxide	0.060	Not Detected
Methane	0.00060	Not Detected
Carbon Dioxide	0.060	11
Ethane	0.0060	Not Detected
Ethene	0.0060	Not Detected
Helium	0.30	1.2

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-19-5-040711

Lab ID#: 1104186B-19A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041443**	**Date of Collection:**	**4/7/11 4:43:00 PM**
Dil. Factor:	**2.70**	**Date of Analysis:**	**4/15/11 10:01 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	16
Nitrogen	0.27	78
Carbon Monoxide	0.027	Not Detected
Methane	0.00027	Not Detected
Carbon Dioxide	0.027	5.8
Ethane	0.0027	Not Detected
Ethene	0.0027	Not Detected
Helium	0.14	0.047 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104186B-20A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041424**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/14/11 04:42 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.10	0.013 J
Nitrogen	0.10	0.062 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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104186B-20B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041423b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/14/11 04:14 PM**	

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

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104186B-21A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041422**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/14/11 03:50 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	99
Methane	100
Carbon Dioxide	101
Ethane	104
Ethene	102
Helium	92

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104186B-21AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041446**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/15/11 11:24 AM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	99
Methane	98
Carbon Dioxide	100
Ethane	102
Ethene	100
Helium	94

Container Type: NA - Not Applicable

1104100

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Thomas Adams
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 04/07/11
PAGE: 2 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME/#: Roxana Dissolved Phase
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (PRINT): M. Miller, C Smith, B. Crafton, W. Buchman
TELEPHONE: 314-429-0100
FAX: 314-429-0462
CC To Contact E-MAIL: Thomas_Adams@URSCorp.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Turn Around Time: ☑ Normal ☐ Rush Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

(Lab Use Only)	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946					
11A	VMP-7-13.5-040711	04/07/11	1050 - 1121	3082	-29.5	-7			X	X						
12A	VMP-7-29.5-040711	04/07/11	1157 - 1226	2726	-27	-8			X	X						
13A	VMP-7-38-040711	04/07/11	1301 - 1334	2609	-29.5	-7			X	X						
14A	VMP-18-8.5-040711	04/07/11	1530 - 1601	748	-29.5	-6.5			X	X						
15A	VMP-8-5-040711	04/07/11	1045 - 1116	214	-29	-8			X	X						
16A	VMP-8-9.5-040711	04/07/11	1200 - 1233	3762	-28.5	-9			X	X						
17A	VMP-8-23.5-040711	04/07/11	1320 - 1352	5815	-27	-5			X	X						
18A	VMP-8-23.5-040711-Dup	04/07/11	1320 - 1352	1012	-30	-9.5			X	X						
19A	VMP-19-5-040711	04/07/11	1608 - 1643	3869	-29	-8			X	X						

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FEDEX	4/7/11	1830
	K. McKiernan ATL	4/8/11	09:01
		Date:	Time:

05/2/06 Revision

FedEx
CUSTODY SEAL INTACT?
Y N NONE EMP NA

1104186

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA STA&CN ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Thomas Adams
PO #:

INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 04/07/11
PAGE: 1 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
EMAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME/#: Roxana Dissolved Phase
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (PRINT): M. Miller, C Smith, B. Crelton, W. Buchman
TELEPHONE: 314-429-0100
FAX: 314-429-0462
EDD To Contact E-MAIL: Thomas_Adams@URSCorp.com

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946					
01A	VMP-11-5-040611	04/06/11	0934 - 1007	1368	-29	-7.5			X	X						
02A	VMP-11-8-040611	04/06/11	1046 - 1121	3899	-30	-8			X	X						
03A	VMP-11-8-040611-DUP	04/06/11	1046 - 1121	125	-29.5	-8.5			X	X						
04A	VMP-11-29-040611	04/06/11	1155 - 1227	2587	-29.5	-8			X	X						
05A	VMP-17-5-040611	04/06/11	1346 - 1419	93	-29.5	-9			X	X						
06A	VMP-10-10-040611	04/06/11	0934 - 1003	1367	-29	-7.5			X	X						
07A	VMP-10-20-040611	04/06/11	1036 - 1106	550	-28.5	-8.5			X	X						
08A	VMP-9-5-040611	04/06/11	1318 - 1349	2070	-28.5	-9.5			X	X						
09A	VMP-9-11.5-040611	04/06/11	1418 - 1451	1472	-29	-8			X	X						
10A	VMP-7-5-040711	04/07/11	0943 - 1017	2109	-29	-8			X	X						

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 4/7/11	Time: 1830
Relinquished by: (Signature)	Received by: (Signature) K. McKiernan ATL	Date: 4/8/11	Time: 0900
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2008 Revision

CUSTODY SEAL INTACT? Y N NONE TEMP NA
FedEx

Roxana 2Q2011 Vapor Data Review

Laboratory SDG: 1104195A, B

Data Reviewer: Steve Gragert

Peer Reviewer: Jeff Aust

Date Reviewed: 6/30/2011

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-25-5-040811	VMP-25-21-040811
VMP-25-21-040811-Dup	VMP-24-5-040811
VMP-9-25.5-040811	VMP-9-38.5-040811
VMP-6-5-040811	VMP-6-10-040811

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 all TO-15 samples in this SDG were diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in TO-15 and ASTM D-1946 method blanks. TO-15 LCS recoveries were above evaluation criteria. 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 Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1104195A-09A	TO-15	Chloromethane	0.48 ppbv / 0.99 µg/m^3
1104195A-09A	TO-15	Bromomethane	0.17 ppbv / 0.65 µg/m^3
1104195A-09A	TO-15	Ethanol	1.5 ppbv / 2.8 µg/m^3
1104195A-09A	TO-15	Carbon disulfide	0.67 ppbv / 2.1 µg/m^3
1104195A-09A	TO-15	Methylene chloride	0.13 ppbv / 0.44 µg/m^3
1104195A-09A	TO-15	2,2,4-Trimethylpentane	0.19 ppbv / 0.88 µg/m^3

Blank ID	Parameter	Analyte	Concentration/Amount
1104195A-09A	TO-15	cis-1,3-Dichloropropene	0.11 ppbv / 0.49 µg/m^3
1104195A-09A	TO-15	Toluene	0.092 ppbv / 0.34 µg/m^3
1104195A-09A	TO-15	trans-1,3-Dichloropropene	0.26 ppbv / 1.2 µg/m^3
1104195A-09A	TO-15	Tetrachloroethene	0.12 ppbv / 0.78 µg/m^3
1104195A-09A	TO-15	1,2-Dibromoethane	0.17 ppbv / 1.3 µg/m^3
1104195A-09A	TO-15	Chlorobenzene	0.11 ppbv / 0.49 µg/m^3
1104195A-09A	TO-15	m,p-Xylene	0.10 ppbv / 0.45 µg/m^3
1104195A-09A	TO-15	o-Xylene	0.13 ppbv / 0.57 µg/m^3
1104195A-09A	TO-15	Styrene	0.069 ppbv / 0.29 µg/m^3
1104195A-09A	TO-15	Bromoform	0.078 ppbv / 0.38 µg/m^3
1104195A-09A	TO-15	Cumene	0.11 ppbv / 0.54 µg/m^3
1104195A-09A	TO-15	Propylbenzene	0.16 ppbv / 0.77 µg/m^3
1104195A-09A	TO-15	1,3,5-Trimethylbenzene	0.16 ppbv / 0.77 µg/m^3
1104195A-09A	TO-15	1,2,4-Trimethylbenzene	0.18 ppbv / 0.91 µg/m^3
1104195A-09A	TO-15	1,3-Dichlorobenzene	0.25 ppbv / 1.5 µg/m^3
1104195A-09A	TO-15	1,4-Dichlorobenzene	0.27 ppbv / 1.6 µg/m^3
1104195A-09A	TO-15	alpha-Chlorotoluene	0.12 ppbv / 0.63 µg/m^3
1104195A-09A	TO-15	1,2-Dichlorobenzene	0.22 ppbv / 1.3 µg/m^3
1104195A-09A	TO-15	1,2,4-Trichlorobenzene	0.64 ppbv / 4.8 µg/m^3
1104195A-09B	TO-15	Carbon disulfide	0.39 ppbv / 1.2 µg/m^3
1104195A-09B	TO-15	Methylene chloride	0.097 ppbv / 0.34 µg/m^3
1104195A-09B	TO-15	trans-1,3-Dichloropropene	0.10 ppbv / 0.46 µg/m^3
1104195A-09B	TO-15	1,2-Dibromoethane	0.050 ppbv / 0.23 µg/m^3
1104195A-09B	TO-15	1,3-Dichlorobenzene	0.083 ppbv / 0.50 µg/m^3
1104195A-09B	TO-15	1,4-Dichlorobenzene	0.15 ppbv / 0.88 µg/m^3
1104195A-09B	TO-15	1,2-Dichlorobenzene	0.089 ppbv / 0.54 µg/m^3
1104195A-09B	TO-15	1,2,4-Trichlorobenzene	0.31 ppbv / 2.3 µg/m^3
1104195B-09A	ASTM D1946	Oxygen	0.011 %
1104195B-09A	ASTM D1946	Nitrogen	0.053 %

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-25-5-040811	TO-15	1,2-Dichlorobenzene	-	**U**
VMP-6-5-040811	TO-15	1,2,4-Trimethylbenzene	-	**U**
VMP-6-5-040811	TO-15	1,3-Dichlorobenzene	-	**U**
VMP-6-5-040811	TO-15	1,4-Dichlorobenzene	-	**U**

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS Recovery	LCS Criteria
1104195A-11A	TO-15	Chloromethane	**138**	70-130
1104195A-11AA	TO-15	Chloromethane	**143**	70-130
1104195A-11BB	TO-15	Chloromethane	**132**	70-130

All associated data were reported as nondetect 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-25-21-040811	VMP-25-21-040811-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

Air Toxics LTD.
Laboratory Services Since 1989

4/22/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562593.00008
Workorder #: 1104195A

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/9/2011 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 6/30/11

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1104195A

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/09/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/22/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-25-5-040811	Modified TO-15	8.0 "Hg	15 psi
02A	VMP-25-21-040811	Modified TO-15	6.0 "Hg	15 psi
03A	VMP-25-21-040811-Dup	Modified TO-15	6.2 "Hg	15 psi
04A	VMP-24-5-040811	Modified TO-15	3.2 "Hg	15 psi
05A	VMP-9-25.5-040811	Modified TO-15	6.2 "Hg	15 psi
06A	VMP-9-38.5-040811	Modified TO-15	8.2 "Hg	15 psi
07A	VMP-6-5-040811	Modified TO-15	6.6 "Hg	15 psi
08A	VMP-6-10-040811	Modified TO-15	10.0 "Hg	15 psi
09A	Lab Blank	Modified TO-15	NA	NA
09B	Lab Blank	Modified TO-15	NA	NA
10A	CCV	Modified TO-15	NA	NA
10B	CCV	Modified TO-15	NA	NA
11A	LCS	Modified TO-15	NA	NA
11AA	LCSD	Modified TO-15	NA	NA
11B	LCS	Modified TO-15	NA	NA
11BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Frumarx DATE: 04/22/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1104195A

Eight 1 Liter Summa Canister samples were received on April 09, 2011. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

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

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 (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.

Dilution was performed on all of the samples 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 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

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-25-5-040811

Lab ID#: 1104195A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	22	17 J	41	33 J
Acetone	22	18 J	52	43 J
Carbon Disulfide	22	6.1 J	68	19 J
Methylene Chloride	5.5	2.7 J	19	9.5 J
Methyl tert-butyl ether	5.5	5.2 J	20	19 J
Hexane	5.5	26	19	93
Cyclohexane	5.5	35	19	120
2,2,4-Trimethylpentane	5.5	160	26	730
Benzene	5.5	1600	18	5200
Toluene	5.5	1.9 J	21	7.1 J
Chlorobenzene	5.5	0.93 J	25	4.3 J
1,2-Dichlorobenzene	5.5	~~4.1 J~~ U	33	~~6.7 J~~ U
Butane	22	50	52	120
Isopentane	22	91	65	270

Client Sample ID: VMP-25-21-040811

Lab ID#: 1104195A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	100000	15000 J	250000	38000 J
Carbon Disulfide	100000	20000 J	310000	61000 J
Hexane	25000	590000	89000	2100000
Cyclohexane	25000	520000	87000	1800000
Benzene	25000	40000	80000	130000
Heptane	25000	120000	100000	480000
Toluene	25000	3300 J	95000	12000 J
m,p-Xylene	25000	3700 J	110000	16000 J
Propylbenzene	25000	3400 J	120000	17000 J
1,2-Dichlorobenzene	25000	3600 J	150000	22000 J
Butane	100000	5700000	240000	14000000
Isopentane	100000	7900000	300000	23000000

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

Client Sample ID: VMP-25-21-040811-Dup

Lab ID#: 1104195A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Carbon Disulfide	100000	18000 J	320000	57000 J
Hexane	26000	590000	90000	2100000
Cyclohexane	26000	510000	88000	1700000
Benzene	26000	38000	81000	120000
Heptane	26000	120000	100000	510000
m,p-Xylene	26000	3300 J	110000	14000 J
Butane	100000	5600000	240000	13000000
Isopentane	100000	7800000	300000	23000000

Client Sample ID: VMP-24-5-040811

Lab ID#: 1104195A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Carbon Disulfide	60	14 J	190	42 J
Methylene Chloride	15	3.1 J	52	11 J
Hexane	15	270	53	940
Cyclohexane	15	210	52	710
2,2,4-Trimethylpentane	15	100	70	480
Benzene	15	1600	48	5000
Heptane	15	44	62	180
Butane	60	2400	140	5600
Isopentane	60	3700	180	11000

Client Sample ID: VMP-9-25.5-040811

Lab ID#: 1104195A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroethane	260	100 J	680	260 J
Ethanol	260	150 J	480	290 J
Acetone	260	290	610	690
2-Propanol	260	430	630	1000

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

Client Sample ID: VMP-9-25.5-040811

Lab ID#: 1104195A-05A

Carbon Disulfide	260	140 J	800	420 J
Methylene Chloride	64	38 J	220	130 J
Cyclohexane	64	260	220	880
2,2,4-Trimethylpentane	64	21000	300	98000
Benzene	64	260	200	820
Toluene	64	24 J	240	89 J
m,p-Xylene	64	17 J	280	75 J
Styrene	64	20 J	270	84 J
Cumene	64	5.9 J	310	29 J
1,2,4-Trimethylbenzene	64	11 J	310	56 J
Butane	260	1000	610	2400
Isopentane	260	12000	760	35000

Client Sample ID: VMP-9-38.5-040811

Lab ID#: 1104195A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroethane	1100	280 J	2900	730 J
Ethanol	1100	770 J	2100	1400 J
Acetone	1100	1000 J	2600	2400 J
2-Propanol	1100	1800	2700	4500
Carbon Disulfide	1100	560 J	3500	1800 J
Methylene Chloride	280	150 J	960	530 J
Cyclohexane	280	6600	960	23000
2,2,4-Trimethylpentane	280	54000	1300	250000
Benzene	280	1200	890	4000
Toluene	280	180 J	1000	670 J
Styrene	280	57 J	1200	240 J
Cumene	280	42 J	1400	200 J
Butane	1100	16000	2600	39000
Isopentane	1100	79000	3300	230000

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-6-5-040811

Lab ID#: 1104195A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.6	0.60 J	13	2.9 J
Ethanol	10	11	20	20
Acetone	10	23	25	55
2-Propanol	10	22	25	54
Carbon Disulfide	10	3.1 J	32	9.8 J
Methylene Chloride	2.6	1.2 J	9.0	4.3 J
Cyclohexane	2.6	29	8.9	99
2,2,4-Trimethylpentane	2.6	270	12	1300
Benzene	2.6	760	8.3	2400
Toluene	2.6	0.99 J	9.8	3.7 J
m,p-Xylene	2.6	0.89 J	11	3.9 J
1,2,4-Trimethylbenzene	2.6	~~0.27 J~~ U	13	~~1.3 J~~ U
1,3-Dichlorobenzene	2.6	~~0.33 J~~ U	16	~~2.0 J~~ U
1,4-Dichlorobenzene	2.6	~~0.39 J~~ U	16	~~2.4 J~~ U
Butane	10	35	25	83
Isopentane	10	150	30	440

Client Sample ID: VMP-6-10-040811

Lab ID#: 1104195A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	120	64 J	230	120 J
Acetone	120	230	290	540
2-Propanol	120	220	300	530
Carbon Disulfide	120	60 J	380	190 J
Methylene Chloride	30	35	100	120
2-Butanone (Methyl Ethyl Ketone)	120	40 J	360	120 J
Tetrahydrofuran	30	52	89	150
2,2,4-Trimethylpentane	30	11000	140	52000
Benzene	30	640	97	2000
Toluene	30	12 J	110	43 J

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

Client Sample ID: VMP-6-10-040811

Lab ID#: 1104195A-08A

Ethyl Benzene	30	6.4 J	130	28 J
m,p-Xylene	30	7.4 J	130	32 J
Styrene	30	22 J	130	93 J

Air Toxics LTD.
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Client Sample ID: VMP-25-5-040811

Lab ID#: 1104195A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041915**	**Date of Collection:**	**4/8/11 10:21:00 AM**
Dil. Factor:	**11.0**	**Date of Analysis:**	**4/19/11 03:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.5	Not Detected	27	Not Detected
Freon 114	5.5	Not Detected	38	Not Detected
Chloromethane	22	Not Detected	45	Not Detected
Vinyl Chloride	5.5	Not Detected	14	Not Detected
1,3-Butadiene	5.5	Not Detected	12	Not Detected
Bromomethane	5.5	Not Detected	21	Not Detected
Chloroethane	22	Not Detected	58	Not Detected
Freon 11	5.5	Not Detected	31	Not Detected
Ethanol	22	17 J	41	33 J
Freon 113	5.5	Not Detected	42	Not Detected
1,1-Dichloroethene	5.5	Not Detected	22	Not Detected
Acetone	22	18 J	52	43 J
2-Propanol	22	Not Detected	54	Not Detected
Carbon Disulfide	22	6.1 J	68	19 J
3-Chloropropene	22	Not Detected	69	Not Detected
Methylene Chloride	5.5	2.7 J	19	9.5 J
Methyl tert-butyl ether	5.5	5.2 J	20	19 J
trans-1,2-Dichloroethene	5.5	Not Detected	22	Not Detected
Hexane	5.5	26	19	93
1,1-Dichloroethane	5.5	Not Detected	22	Not Detected
2-Butanone (Methyl Ethyl Ketone)	22	Not Detected	65	Not Detected
cis-1,2-Dichloroethene	5.5	Not Detected	22	Not Detected
Tetrahydrofuran	5.5	Not Detected	16	Not Detected
Chloroform	5.5	Not Detected	27	Not Detected
1,1,1-Trichloroethane	5.5	Not Detected	30	Not Detected
Cyclohexane	5.5	35	19	120
Carbon Tetrachloride	5.5	Not Detected	35	Not Detected
2,2,4-Trimethylpentane	5.5	160	26	730
Benzene	5.5	1600	18	5200
1,2-Dichloroethane	5.5	Not Detected	22	Not Detected
Heptane	5.5	Not Detected	22	Not Detected
Trichloroethene	5.5	Not Detected	30	Not Detected
1,2-Dichloropropane	5.5	Not Detected	25	Not Detected
1,4-Dioxane	22	Not Detected	79	Not Detected
Bromodichloromethane	5.5	Not Detected	37	Not Detected
cis-1,3-Dichloropropene	5.5	Not Detected	25	Not Detected
4-Methyl-2-pentanone	5.5	Not Detected	22	Not Detected
Toluene	5.5	1.9 J	21	7.1 J
trans-1,3-Dichloropropene	5.5	Not Detected	25	Not Detected
1,1,2-Trichloroethane	5.5	Not Detected	30	Not Detected
Tetrachloroethene	5.5	Not Detected	37	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-25-5-040811

Lab ID#: 1104195A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041915**	**Date of Collection:**	**4/8/11 10:21:00 AM**
Dil. Factor:	**11.0**	**Date of Analysis:**	**4/19/11 03:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	22	Not Detected	90	Not Detected
Dibromochloromethane	5.5	Not Detected	47	Not Detected
1,2-Dibromoethane (EDB)	5.5	Not Detected	42	Not Detected
Chlorobenzene	5.5	0.93 J	25	4.3 J
Ethyl Benzene	5.5	Not Detected	24	Not Detected
m,p-Xylene	5.5	Not Detected	24	Not Detected
o-Xylene	5.5	Not Detected	24	Not Detected
Styrene	5.5	Not Detected	23	Not Detected
Bromoform	5.5	Not Detected	57	Not Detected
Cumene	5.5	Not Detected	27	Not Detected
1,1,2,2-Tetrachloroethane	5.5	Not Detected	38	Not Detected
Propylbenzene	5.5	Not Detected	27	Not Detected
4-Ethyltoluene	5.5	Not Detected	27	Not Detected
1,3,5-Trimethylbenzene	5.5	Not Detected	27	Not Detected
1,2,4-Trimethylbenzene	5.5	Not Detected	27	Not Detected
1,3-Dichlorobenzene	5.5	Not Detected	33	Not Detected
1,4-Dichlorobenzene	5.5	Not Detected	33	Not Detected
alpha-Chlorotoluene	5.5	Not Detected	28	Not Detected
1,2-Dichlorobenzene	5.5	~~1.1 J~~ U	33	~~6.7 J~~ U
1,2,4-Trichlorobenzene	22	Not Detected	160	Not Detected
Hexachlorobutadiene	22	Not Detected	230	Not Detected
Butane	22	50	52	120
Isopentane	22	91	65	270

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-25-21-040811

Lab ID#: 1104195A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p042017**	**Date of Collection:**	**4/8/11 11:26:00 AM**
Dil. Factor:	**50400**	**Date of Analysis:**	**4/20/11 04:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	25000	Not Detected	120000	Not Detected
Freon 114	25000	Not Detected	180000	Not Detected
Chloromethane	100000	Not Detected	210000	Not Detected
Vinyl Chloride	25000	Not Detected	64000	Not Detected
1,3-Butadiene	25000	Not Detected	56000	Not Detected
Bromomethane	25000	Not Detected	98000	Not Detected
Chloroethane	100000	Not Detected	260000	Not Detected
Freon 11	25000	Not Detected	140000	Not Detected
Ethanol	100000	Not Detected	190000	Not Detected
Freon 113	25000	Not Detected	190000	Not Detected
1,1-Dichloroethene	25000	Not Detected	100000	Not Detected
Acetone	100000	Not Detected	240000	Not Detected
2-Propanol	100000	15000 J	250000	38000 J
Carbon Disulfide	100000	20000 J	310000	61000 J
3-Chloropropene	100000	Not Detected	320000	Not Detected
Methylene Chloride	25000	Not Detected	88000	Not Detected
Methyl tert-butyl ether	25000	Not Detected	91000	Not Detected
trans-1,2-Dichloroethene	25000	Not Detected	100000	Not Detected
Hexane	25000	590000	89000	2100000
1,1-Dichloroethane	25000	Not Detected	100000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	100000	Not Detected	300000	Not Detected
cis-1,2-Dichloroethene	25000	Not Detected	100000	Not Detected
Tetrahydrofuran	25000	Not Detected	74000	Not Detected
Chloroform	25000	Not Detected	120000	Not Detected
1,1,1-Trichloroethane	25000	Not Detected	140000	Not Detected
Cyclohexane	25000	520000	87000	1800000
Carbon Tetrachloride	25000	Not Detected	160000	Not Detected
2,2,4-Trimethylpentane	25000	Not Detected	120000	Not Detected
Benzene	25000	40000	80000	130000
1,2-Dichloroethane	25000	Not Detected	100000	Not Detected
Heptane	25000	120000	100000	480000
Trichloroethene	25000	Not Detected	140000	Not Detected
1,2-Dichloropropane	25000	Not Detected	120000	Not Detected
1,4-Dioxane	100000	Not Detected	360000	Not Detected
Bromodichloromethane	25000	Not Detected	170000	Not Detected
cis-1,3-Dichloropropene	25000	Not Detected	110000	Not Detected
4-Methyl-2-pentanone	25000	Not Detected	100000	Not Detected
Toluene	25000	3300 J	95000	12000 J
trans-1,3-Dichloropropene	25000	Not Detected	110000	Not Detected
1,1,2-Trichloroethane	25000	Not Detected	140000	Not Detected
Tetrachloroethene	25000	Not Detected	170000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-25-21-040811

Lab ID#: 1104195A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p042017**	**Date of Collection:**	**4/8/11 11:26:00 AM**
Dil. Factor:	**50400**	**Date of Analysis:**	**4/20/11 04:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	100000	Not Detected	410000	Not Detected
Dibromochloromethane	25000	Not Detected	210000	Not Detected
1,2-Dibromoethane (EDB)	25000	Not Detected	190000	Not Detected
Chlorobenzene	25000	Not Detected	120000	Not Detected
Ethyl Benzene	25000	Not Detected	110000	Not Detected
m,p-Xylene	25000	3700 J	110000	16000 J
o-Xylene	25000	Not Detected	110000	Not Detected
Styrene	25000	Not Detected	110000	Not Detected
Bromoform	25000	Not Detected	260000	Not Detected
Cumene	25000	Not Detected	120000	Not Detected
1,1,2,2-Tetrachloroethane	25000	Not Detected	170000	Not Detected
Propylbenzene	25000	3400 J	120000	17000 J
4-Ethyltoluene	25000	Not Detected	120000	Not Detected
1,3,5-Trimethylbenzene	25000	Not Detected	120000	Not Detected
1,2,4-Trimethylbenzene	25000	Not Detected	120000	Not Detected
1,3-Dichlorobenzene	25000	Not Detected	150000	Not Detected
1,4-Dichlorobenzene	25000	Not Detected	150000	Not Detected
alpha-Chlorotoluene	25000	Not Detected	130000	Not Detected
1,2-Dichlorobenzene	25000	3600 J	150000	22000 J
1,2,4-Trichlorobenzene	100000	Not Detected	750000	Not Detected
Hexachlorobutadiene	100000	Not Detected	1100000	Not Detected
Butane	100000	5700000	240000	14000000
Isopentane	100000	7900000	300000	23000000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-25-21-040811-Dup

Lab ID#: 1104195A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p042021**	**Date of Collection:**	**4/8/11 11:26:00 AM**
Dil. Factor:	**51000**	**Date of Analysis:**	**4/20/11 06:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	26000	Not Detected	130000	Not Detected
Freon 114	26000	Not Detected	180000	Not Detected
Chloromethane	100000	Not Detected	210000	Not Detected
Vinyl Chloride	26000	Not Detected	65000	Not Detected
1,3-Butadiene	26000	Not Detected	56000	Not Detected
Bromomethane	26000	Not Detected	99000	Not Detected
Chloroethane	100000	Not Detected	270000	Not Detected
Freon 11	26000	Not Detected	140000	Not Detected
Ethanol	100000	Not Detected	190000	Not Detected
Freon 113	26000	Not Detected	200000	Not Detected
1,1-Dichloroethene	26000	Not Detected	100000	Not Detected
Acetone	100000	Not Detected	240000	Not Detected
2-Propanol	100000	Not Detected	250000	Not Detected
Carbon Disulfide	100000	18000 J	320000	57000 J
3-Chloropropene	100000	Not Detected	320000	Not Detected
Methylene Chloride	26000	Not Detected	88000	Not Detected
Methyl tert-butyl ether	26000	Not Detected	92000	Not Detected
trans-1,2-Dichloroethene	26000	Not Detected	100000	Not Detected
Hexane	26000	590000	90000	2100000
1,1-Dichloroethane	26000	Not Detected	100000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	100000	Not Detected	300000	Not Detected
cis-1,2-Dichloroethene	26000	Not Detected	100000	Not Detected
Tetrahydrofuran	26000	Not Detected	75000	Not Detected
Chloroform	26000	Not Detected	120000	Not Detected
1,1,1-Trichloroethane	26000	Not Detected	140000	Not Detected
Cyclohexane	26000	510000	88000	1700000
Carbon Tetrachloride	26000	Not Detected	160000	Not Detected
2,2,4-Trimethylpentane	26000	Not Detected	120000	Not Detected
Benzene	26000	38000	81000	120000
1,2-Dichloroethane	26000	Not Detected	100000	Not Detected
Heptane	26000	120000	100000	510000
Trichloroethene	26000	Not Detected	140000	Not Detected
1,2-Dichloropropane	26000	Not Detected	120000	Not Detected
1,4-Dioxane	100000	Not Detected	370000	Not Detected
Bromodichloromethane	26000	Not Detected	170000	Not Detected
cis-1,3-Dichloropropene	26000	Not Detected	120000	Not Detected
4-Methyl-2-pentanone	26000	Not Detected	100000	Not Detected
Toluene	26000	Not Detected	96000	Not Detected
trans-1,3-Dichloropropene	26000	Not Detected	120000	Not Detected
1,1,2-Trichloroethane	26000	Not Detected	140000	Not Detected
Tetrachloroethene	26000	Not Detected	170000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-25-21-040811-Dup

Lab ID#: 1104195A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p042021**	**Date of Collection:**	**4/8/11 11:26:00 AM**
Dil. Factor:	**51000**	**Date of Analysis:**	**4/20/11 06:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	100000	Not Detected	420000	Not Detected
Dibromochloromethane	26000	Not Detected	220000	Not Detected
1,2-Dibromoethane (EDB)	26000	Not Detected	200000	Not Detected
Chlorobenzene	26000	Not Detected	120000	Not Detected
Ethyl Benzene	26000	Not Detected	110000	Not Detected
m,p-Xylene	26000	3300 J	110000	14000 J
o-Xylene	26000	Not Detected	110000	Not Detected
Styrene	26000	Not Detected	110000	Not Detected
Bromoform	26000	Not Detected	260000	Not Detected
Cumene	26000	Not Detected	120000	Not Detected
1,1,2,2-Tetrachloroethane	26000	Not Detected	180000	Not Detected
Propylbenzene	26000	Not Detected	120000	Not Detected
4-Ethyltoluene	26000	Not Detected	120000	Not Detected
1,3,5-Trimethylbenzene	26000	Not Detected	120000	Not Detected
1,2,4-Trimethylbenzene	26000	Not Detected	120000	Not Detected
1,3-Dichlorobenzene	26000	Not Detected	150000	Not Detected
1,4-Dichlorobenzene	26000	Not Detected	150000	Not Detected
alpha-Chlorotoluene	26000	Not Detected	130000	Not Detected
1,2-Dichlorobenzene	26000	Not Detected	150000	Not Detected
1,2,4-Trichlorobenzene	100000	Not Detected	760000	Not Detected
Hexachlorobutadiene	100000	Not Detected	1100000	Not Detected
Butane	100000	5600000	240000	13000000
Isopentane	100000	7800000	300000	23000000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-24-5-040811

Lab ID#: 1104195A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041919**	**Date of Collection:**	**4/8/11 3:10:00 PM**
Dil. Factor:	**30.1**	**Date of Analysis:**	**4/19/11 06:52 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	15	Not Detected	74	Not Detected
Freon 114	15	Not Detected	100	Not Detected
Chloromethane	60	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	60	Not Detected	160	Not Detected
Freon 11	15	Not Detected	84	Not Detected
Ethanol	60	Not Detected	110	Not Detected
Freon 113	15	Not Detected	120	Not Detected
1,1-Dichloroethene	15	Not Detected	60	Not Detected
Acetone	60	Not Detected	140	Not Detected
2-Propanol	60	Not Detected	150	Not Detected
Carbon Disulfide	60	14 J	190	42 J
3-Chloropropene	60	Not Detected	190	Not Detected
Methylene Chloride	15	3.1 J	52	11 J
Methyl tert-butyl ether	15	Not Detected	54	Not Detected
trans-1,2-Dichloroethene	15	Not Detected	60	Not Detected
Hexane	15	270	53	940
1,1-Dichloroethane	15	Not Detected	61	Not Detected
2-Butanone (Methyl Ethyl Ketone)	60	Not Detected	180	Not Detected
cis-1,2-Dichloroethene	15	Not Detected	60	Not Detected
Tetrahydrofuran	15	Not Detected	44	Not Detected
Chloroform	15	Not Detected	73	Not Detected
1,1,1-Trichloroethane	15	Not Detected	82	Not Detected
Cyclohexane	15	210	52	710
Carbon Tetrachloride	15	Not Detected	95	Not Detected
2,2,4-Trimethylpentane	15	100	70	480
Benzene	15	1600	48	5000
1,2-Dichloroethane	15	Not Detected	61	Not Detected
Heptane	15	44	62	180
Trichloroethene	15	Not Detected	81	Not Detected
1,2-Dichloropropane	15	Not Detected	70	Not Detected
1,4-Dioxane	60	Not Detected	220	Not Detected
Bromodichloromethane	15	Not Detected	100	Not Detected
cis-1,3-Dichloropropene	15	Not Detected	68	Not Detected
4-Methyl-2-pentanone	15	Not Detected	62	Not Detected
Toluene	15	Not Detected	57	Not Detected
trans-1,3-Dichloropropene	15	Not Detected	68	Not Detected
1,1,2-Trichloroethane	15	Not Detected	82	Not Detected
Tetrachloroethene	15	Not Detected	100	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-24-5-040811

Lab ID#: 1104195A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041919**	**Date of Collection: 4/8/11 3:10:00 PM**	
Dil. Factor:	**30.1**	**Date of Analysis: 4/19/11 06:52 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	60	Not Detected	250	Not Detected
Dibromochloromethane	15	Not Detected	130	Not Detected
1,2-Dibromoethane (EDB)	15	Not Detected	120	Not Detected
Chlorobenzene	15	Not Detected	69	Not Detected
Ethyl Benzene	15	Not Detected	65	Not Detected
m,p-Xylene	15	Not Detected	65	Not Detected
o-Xylene	15	Not Detected	65	Not Detected
Styrene	15	Not Detected	64	Not Detected
Bromoform	15	Not Detected	160	Not Detected
Cumene	15	Not Detected	74	Not Detected
1,1,2,2-Tetrachloroethane	15	Not Detected	100	Not Detected
Propylbenzene	15	Not Detected	74	Not Detected
4-Ethyltoluene	15	Not Detected	74	Not Detected
1,3,5-Trimethylbenzene	15	Not Detected	74	Not Detected
1,2,4-Trimethylbenzene	15	Not Detected	74	Not Detected
1,3-Dichlorobenzene	15	Not Detected	90	Not Detected
1,4-Dichlorobenzene	15	Not Detected	90	Not Detected
alpha-Chlorotoluene	15	Not Detected	78	Not Detected
1,2-Dichlorobenzene	15	Not Detected	90	Not Detected
1,2,4-Trichlorobenzene	60	Not Detected	450	Not Detected
Hexachlorobutadiene	60	Not Detected	640	Not Detected
Butane	60	2400	140	5600
Isopentane	60	3700	180	11000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	113	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-9-25.5-040811

Lab ID#: 1104195A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p042027**	**Date of Collection:**	**4/8/11 10:00:00 AM**
Dil. Factor:	**128**	**Date of Analysis:**	**4/20/11 09:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	64	Not Detected	320	Not Detected
Freon 114	64	Not Detected	450	Not Detected
Chloromethane	260	Not Detected	530	Not Detected
Vinyl Chloride	64	Not Detected	160	Not Detected
1,3-Butadiene	64	Not Detected	140	Not Detected
Bromomethane	64	Not Detected	250	Not Detected
Chloroethane	260	100 J	680	260 J
Freon 11	64	Not Detected	360	Not Detected
Ethanol	260	150 J	480	290 J
Freon 113	64	Not Detected	490	Not Detected
1,1-Dichloroethene	64	Not Detected	250	Not Detected
Acetone	260	290	610	690
2-Propanol	260	430	630	1000
Carbon Disulfide	260	140 J	800	420 J
3-Chloropropene	260	Not Detected	800	Not Detected
Methylene Chloride	64	38 J	220	130 J
Methyl tert-butyl ether	64	Not Detected	230	Not Detected
trans-1,2-Dichloroethene	64	Not Detected	250	Not Detected
Hexane	64	Not Detected	220	Not Detected
1,1-Dichloroethane	64	Not Detected	260	Not Detected
2-Butanone (Methyl Ethyl Ketone)	260	Not Detected	750	Not Detected
cis-1,2-Dichloroethene	64	Not Detected	250	Not Detected
Tetrahydrofuran	64	Not Detected	190	Not Detected
Chloroform	64	Not Detected	310	Not Detected
1,1,1-Trichloroethane	64	Not Detected	350	Not Detected
Cyclohexane	64	260	220	880
Carbon Tetrachloride	64	Not Detected	400	Not Detected
2,2,4-Trimethylpentane	64	21000	300	98000
Benzene	64	260	200	820
1,2-Dichloroethane	64	Not Detected	260	Not Detected
Heptane	64	Not Detected	260	Not Detected
Trichloroethene	64	Not Detected	340	Not Detected
1,2-Dichloropropane	64	Not Detected	300	Not Detected
1,4-Dioxane	260	Not Detected	920	Not Detected
Bromodichloromethane	64	Not Detected	430	Not Detected
cis-1,3-Dichloropropene	64	Not Detected	290	Not Detected
4-Methyl-2-pentanone	64	Not Detected	260	Not Detected
Toluene	64	24 J	240	89 J
trans-1,3-Dichloropropene	64	Not Detected	290	Not Detected
1,1,2-Trichloroethane	64	Not Detected	350	Not Detected
Tetrachloroethene	64	Not Detected	430	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-9-25.5-040811

Lab ID#: 1104195A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p042027**	**Date of Collection: 4/8/11 10:00:00 AM**	
Dil. Factor:	**128**	**Date of Analysis: 4/20/11 09:34 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	260	Not Detected	1000	Not Detected
Dibromochloromethane	64	Not Detected	540	Not Detected
1,2-Dibromoethane (EDB)	64	Not Detected	490	Not Detected
Chlorobenzene	64	Not Detected	290	Not Detected
Ethyl Benzene	64	Not Detected	280	Not Detected
m,p-Xylene	64	17 J	280	75 J
o-Xylene	64	Not Detected	280	Not Detected
Styrene	64	20 J	270	84 J
Bromoform	64	Not Detected	660	Not Detected
Cumene	64	5.9 J	310	29 J
1,1,2,2-Tetrachloroethane	64	Not Detected	440	Not Detected
Propylbenzene	64	Not Detected	310	Not Detected
4-Ethyltoluene	64	Not Detected	310	Not Detected
1,3,5-Trimethylbenzene	64	Not Detected	310	Not Detected
1,2,4-Trimethylbenzene	64	11 J	310	56 J
1,3-Dichlorobenzene	64	Not Detected	380	Not Detected
1,4-Dichlorobenzene	64	Not Detected	380	Not Detected
alpha-Chlorotoluene	64	Not Detected	330	Not Detected
1,2-Dichlorobenzene	64	Not Detected	380	Not Detected
1,2,4-Trichlorobenzene	260	Not Detected	1900	Not Detected
Hexachlorobutadiene	260	Not Detected	2700	Not Detected
Butane	260	1000	610	2400
Isopentane	260	12000	760	35000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	125	70-130
4-Bromofluorobenzene	107	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-9-38.5-040811

Lab ID#: 1104195A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p042026**	**Date of Collection:**	**4/8/11 11:28:00 AM**
Dil. Factor:	**556**	**Date of Analysis:**	**4/20/11 09:14 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	280 J	2900	730 J
Freon 11	280	Not Detected	1600	Not Detected
Ethanol	1100	770 J	2100	1400 J
Freon 113	280	Not Detected	2100	Not Detected
1,1-Dichloroethene	280	Not Detected	1100	Not Detected
Acetone	1100	1000 J	2600	2400 J
2-Propanol	1100	1800	2700	4500
Carbon Disulfide	1100	560 J	3500	1800 J
3-Chloropropene	1100	Not Detected	3500	Not Detected
Methylene Chloride	280	150 J	960	530 J
Methyl tert-butyl ether	280	Not Detected	1000	Not Detected
trans-1,2-Dichloroethene	280	Not Detected	1100	Not Detected
Hexane	280	Not Detected	980	Not Detected
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	6600	960	23000
Carbon Tetrachloride	280	Not Detected	1700	Not Detected
2,2,4-Trimethylpentane	280	54000	1300	250000
Benzene	280	1200	890	4000
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	180 J	1000	670 J
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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-9-38.5-040811

Lab ID#: 1104195A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p042026**	**Date of Collection:**	**4/8/11 11:28:00 AM**
Dil. Factor:	**556**	**Date of Analysis:**	**4/20/11 09:14 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	57 J	1200	240 J
Bromoform	280	Not Detected	2900	Not Detected
Cumene	280	42 J	1400	200 J
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	16000	2600	39000
Isopentane	1100	79000	3300	230000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	122	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-6-5-040811

Lab ID#: 1104195A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041910**	**Date of Collection:**	**4/8/11 2:59:00 PM**
Dil. Factor:	**5.18**	**Date of Analysis:**	**4/19/11 12:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.6	0.60 J	13	2.9 J
Freon 114	2.6	Not Detected	18	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
Vinyl Chloride	2.6	Not Detected	6.6	Not Detected
1,3-Butadiene	2.6	Not Detected	5.7	Not Detected
Bromomethane	2.6	Not Detected	10	Not Detected
Chloroethane	10	Not Detected	27	Not Detected
Freon 11	2.6	Not Detected	14	Not Detected
Ethanol	10	11	20	20
Freon 113	2.6	Not Detected	20	Not Detected
1,1-Dichloroethene	2.6	Not Detected	10	Not Detected
Acetone	10	23	25	55
2-Propanol	10	22	25	54
Carbon Disulfide	10	3.1 J	32	9.8 J
3-Chloropropene	10	Not Detected	32	Not Detected
Methylene Chloride	2.6	1.2 J	9.0	4.3 J
Methyl tert-butyl ether	2.6	Not Detected	9.3	Not Detected
trans-1,2-Dichloroethene	2.6	Not Detected	10	Not Detected
Hexane	2.6	Not Detected	9.1	Not Detected
1,1-Dichloroethane	2.6	Not Detected	10	Not Detected
2-Butanone (Methyl Ethyl Ketone)	10	Not Detected	30	Not Detected
cis-1,2-Dichloroethene	2.6	Not Detected	10	Not Detected
Tetrahydrofuran	2.6	Not Detected	7.6	Not Detected
Chloroform	2.6	Not Detected	13	Not Detected
1,1,1-Trichloroethane	2.6	Not Detected	14	Not Detected
Cyclohexane	2.6	29	8.9	99
Carbon Tetrachloride	2.6	Not Detected	16	Not Detected
2,2,4-Trimethylpentane	2.6	270	12	1300
Benzene	2.6	760	8.3	2400
1,2-Dichloroethane	2.6	Not Detected	10	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	37	Not Detected
Bromodichloromethane	2.6	Not Detected	17	Not Detected
cis-1,3-Dichloropropene	2.6	Not Detected	12	Not Detected
4-Methyl-2-pentanone	2.6	Not Detected	11	Not Detected
Toluene	2.6	0.99 J	9.8	3.7 J
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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-6-5-040811

Lab ID#: 1104195A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041910**	**Date of Collection:**	**4/8/11 2:59:00 PM**
Dil. Factor:	**5.18**	**Date of Analysis:**	**4/19/11 12:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	10	Not Detected	42	Not Detected
Dibromochloromethane	2.6	Not Detected	22	Not Detected
1,2-Dibromoethane (EDB)	2.6	Not Detected	20	Not Detected
Chlorobenzene	2.6	Not Detected	12	Not Detected
Ethyl Benzene	2.6	Not Detected	11	Not Detected
m,p-Xylene	2.6	0.89 J	11	3.9 J
o-Xylene	2.6	Not Detected	11	Not Detected
Styrene	2.6	Not Detected	11	Not Detected
Bromoform	2.6	Not Detected	27	Not Detected
Cumene	2.6	Not Detected	13	Not Detected
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	~~0.27 J~~ U	13	~~1.3 J~~ U
1,3-Dichlorobenzene	2.6	~~0.33 J~~ U	16	~~2.0 J~~ U
1,4-Dichlorobenzene	2.6	~~0.39 J~~ U	16	~~2.4 J~~ U
alpha-Chlorotoluene	2.6	Not Detected	13	Not Detected
1,2-Dichlorobenzene	2.6	Not Detected	16	Not Detected
1,2,4-Trichlorobenzene	10	Not Detected	77	Not Detected
Hexachlorobutadiene	10	Not Detected	110	Not Detected
Butane	10	35	25	83
Isopentane	10	150	30	440

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	115	70-130
4-Bromofluorobenzene	95	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-6-10-040811

Lab ID#: 1104195A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p042020**	**Date of Collection:**	**4/8/11 4:13:00 PM**
Dil. Factor:	**60.6**	**Date of Analysis:**	**4/20/11 05:44 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	64 J	230	120 J
Freon 113	30	Not Detected	230	Not Detected
1,1-Dichloroethene	30	Not Detected	120	Not Detected
Acetone	120	230	290	540
2-Propanol	120	220	300	530
Carbon Disulfide	120	60 J	380	190 J
3-Chloropropene	120	Not Detected	380	Not Detected
Methylene Chloride	30	35	100	120
Methyl tert-butyl ether	30	Not Detected	110	Not Detected
trans-1,2-Dichloroethene	30	Not Detected	120	Not Detected
Hexane	30	Not Detected	110	Not Detected
1,1-Dichloroethane	30	Not Detected	120	Not Detected
2-Butanone (Methyl Ethyl Ketone)	120	40 J	360	120 J
cis-1,2-Dichloroethene	30	Not Detected	120	Not Detected
Tetrahydrofuran	30	52	89	150
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	11000	140	52000
Benzene	30	640	97	2000
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	12 J	110	43 J
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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-6-10-040811

Lab ID#: 1104195A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p042020**	**Date of Collection:**	**4/8/11 4:13:00 PM**
Dil. Factor:	**60.6**	**Date of Analysis:**	**4/20/11 05:44 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	6.4 J	130	28 J
m,p-Xylene	30	7.4 J	130	32 J
o-Xylene	30	Not Detected	130	Not Detected
Styrene	30	22 J	130	93 J
Bromoform	30	Not Detected	310	Not Detected
Cumene	30	Not Detected	150	Not Detected
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	Not Detected	290	Not Detected
Isopentane	120	Not Detected	360	Not Detected

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	123	70-130
4-Bromofluorobenzene	108	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104195A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041907c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/19/11 10:41 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	0.48 J	4.1	0.99 J
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	0.17 J	1.9	0.65 J
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	1.5 J	3.8	2.8 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	0.67 J	6.2	2.1 J
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	0.13 J	1.7	0.44 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	0.19 J	2.3	0.88 J
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	0.11 J	2.3	0.49 J
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	0.092 J	1.9	0.34 J
trans-1,3-Dichloropropene	0.50	0.26 J	2.3	1.2 J
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	0.12 J	3.4	0.78 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104195A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041907c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/19/11 10:41 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	0.17 J	3.8	1.3 J
Chlorobenzene	0.50	0.11 J	2.3	0.49 J
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	0.10 J	2.2	0.45 J
o-Xylene	0.50	0.13 J	2.2	0.57 J
Styrene	0.50	0.069 J	2.1	0.29 J
Bromoform	0.50	0.069 J	5.2	0.71 J
Cumene	0.50	0.078 J	2.4	0.38 J
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	0.11 J	2.4	0.54 J
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	0.16 J	2.4	0.77 J
1,2,4-Trimethylbenzene	0.50	0.18 J	2.4	0.91 J
1,3-Dichlorobenzene	0.50	0.25 J	3.0	1.5 J
1,4-Dichlorobenzene	0.50	0.27 J	3.0	1.6 J
alpha-Chlorotoluene	0.50	0.12 J	2.6	0.63 J
1,2-Dichlorobenzene	0.50	0.22 J	3.0	1.3 J
1,2,4-Trichlorobenzene	2.0	0.64 J	15	4.8 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	100	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104195A-09B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p042010c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/11 12:21 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	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	0.39 J	6.2	1.2 J
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	0.097 J	1.7	0.34 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	0.10 J	2.3	0.46 J
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104195A-09B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p042010c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/11 12:21 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	0.050 J	2.3	0.23 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	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	0.083 J	3.0	0.50 J
1,4-Dichlorobenzene	0.50	0.15 J	3.0	0.88 J
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	0.089 J	3.0	0.54 J
1,2,4-Trichlorobenzene	2.0	0.31 J	15	2.3 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	103	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104195A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/19/11 07:04 AM**	

Compound	%Recovery
Freon 12	114
Freon 114	105
Chloromethane	127
Vinyl Chloride	108
1,3-Butadiene	112
Bromomethane	114
Chloroethane	107
Freon 11	109
Ethanol	122
Freon 113	101
1,1-Dichloroethene	106
Acetone	115
2-Propanol	117
Carbon Disulfide	103
3-Chloropropene	105
Methylene Chloride	117
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	106
Hexane	109
1,1-Dichloroethane	111
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	105
Tetrahydrofuran	116
Chloroform	110
1,1,1-Trichloroethane	115
Cyclohexane	107
Carbon Tetrachloride	114
2,2,4-Trimethylpentane	112
Benzene	113
1,2-Dichloroethane	125
Heptane	115
Trichloroethene	111
1,2-Dichloropropane	118
1,4-Dioxane	112
Bromodichloromethane	119
cis-1,3-Dichloropropene	116
4-Methyl-2-pentanone	121
Toluene	111
trans-1,3-Dichloropropene	116
1,1,2-Trichloroethane	112
Tetrachloroethene	109

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104195A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/19/11 07:04 AM**	

Compound	%Recovery
2-Hexanone	120
Dibromochloromethane	114
1,2-Dibromoethane (EDB)	110
Chlorobenzene	110
Ethyl Benzene	109
m,p-Xylene	110
o-Xylene	110
Styrene	114
Bromoform	117
Cumene	114
1,1,2,2-Tetrachloroethane	114
Propylbenzene	118
4-Ethyltoluene	114
1,3,5-Trimethylbenzene	117
1,2,4-Trimethylbenzene	119
1,3-Dichlorobenzene	115
1,4-Dichlorobenzene	115
alpha-Chlorotoluene	127
1,2-Dichlorobenzene	114
1,2,4-Trichlorobenzene	114
Hexachlorobutadiene	117
Butane	110
Isopentane	115

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104195A-10B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p042002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/11 07:05 AM**	

Compound	%Recovery
Freon 12	119
Freon 114	111
Chloromethane	122
Vinyl Chloride	112
1,3-Butadiene	117
Bromomethane	116
Chloroethane	110
Freon 11	117
Ethanol	124
Freon 113	109
1,1-Dichloroethene	110
Acetone	118
2-Propanol	127
Carbon Disulfide	104
3-Chloropropene	106
Methylene Chloride	124
Methyl tert-butyl ether	112
trans-1,2-Dichloroethene	108
Hexane	116
1,1-Dichloroethane	117
2-Butanone (Methyl Ethyl Ketone)	108
cis-1,2-Dichloroethene	108
Tetrahydrofuran	123
Chloroform	113
1,1,1-Trichloroethane	119
Cyclohexane	110
Carbon Tetrachloride	119
2,2,4-Trimethylpentane	122
Benzene	109
1,2-Dichloroethane	123
Heptane	113
Trichloroethene	110
1,2-Dichloropropane	116
1,4-Dioxane	109
Bromodichloromethane	116
cis-1,3-Dichloropropene	112
4-Methyl-2-pentanone	125
Toluene	109
trans-1,3-Dichloropropene	110
1,1,2-Trichloroethane	105
Tetrachloroethene	106

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104195A-10B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p042002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/11 07:05 AM**	

Compound	%Recovery
2-Hexanone	118
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	104
Chlorobenzene	105
Ethyl Benzene	104
m,p-Xylene	106
o-Xylene	106
Styrene	106
Bromoform	111
Cumene	106
1,1,2,2-Tetrachloroethane	104
Propylbenzene	108
4-Ethyltoluene	107
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	115
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	103
Hexachlorobutadiene	107
Butane	120
Isopentane	124

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	113	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104195A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/19/11 07:48 AM**	

Compound	%Recovery
Freon 12	120
Freon 114	112
Chloromethane	138 Q
Vinyl Chloride	116
1,3-Butadiene	119
Bromomethane	117
Chloroethane	112
Freon 11	115
Ethanol	118
Freon 113	109
1,1-Dichloroethene	118
Acetone	118
2-Propanol	124
Carbon Disulfide	128
3-Chloropropene	122
Methylene Chloride	121
Methyl tert-butyl ether	111
trans-1,2-Dichloroethene	122
Hexane	113
1,1-Dichloroethane	116
2-Butanone (Methyl Ethyl Ketone)	107
cis-1,2-Dichloroethene	108
Tetrahydrofuran	116
Chloroform	116
1,1,1-Trichloroethane	119
Cyclohexane	109
Carbon Tetrachloride	119
2,2,4-Trimethylpentane	114
Benzene	110
1,2-Dichloroethane	119
Heptane	110
Trichloroethene	111
1,2-Dichloropropane	116
1,4-Dioxane	106
Bromodichloromethane	116
cis-1,3-Dichloropropene	112
4-Methyl-2-pentanone	112
Toluene	107
trans-1,3-Dichloropropene	116
1,1,2-Trichloroethane	111
Tetrachloroethene	106

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104195A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/19/11 07:48 AM**	

Compound	%Recovery
2-Hexanone	116
Dibromochloromethane	114
1,2-Dibromoethane (EDB)	110
Chlorobenzene	109
Ethyl Benzene	109
m,p-Xylene	112
o-Xylene	114
Styrene	112
Bromoform	115
Cumene	114
1,1,2,2-Tetrachloroethane	116
Propylbenzene	118
4-Ethyltoluene	108
1,3,5-Trimethylbenzene	117
1,2,4-Trimethylbenzene	116
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	111
alpha-Chlorotoluene	123
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	110
Butane	116
Isopentane	123

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	113	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104195A-11AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/19/11 08:05 AM**	

Compound	%Recovery
Freon 12	120
Freon 114	110
Chloromethane	143 Q
Vinyl Chloride	115
1,3-Butadiene	119
Bromomethane	118
Chloroethane	112
Freon 11	115
Ethanol	120
Freon 113	110
1,1-Dichloroethene	116
Acetone	117
2-Propanol	123
Carbon Disulfide	129
3-Chloropropene	123
Methylene Chloride	121
Methyl tert-butyl ether	112
trans-1,2-Dichloroethene	122
Hexane	113
1,1-Dichloroethane	116
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	108
Tetrahydrofuran	115
Chloroform	115
1,1,1-Trichloroethane	119
Cyclohexane	110
Carbon Tetrachloride	118
2,2,4-Trimethylpentane	118
Benzene	112
1,2-Dichloroethane	124
Heptane	112
Trichloroethene	113
1,2-Dichloropropane	119
1,4-Dioxane	108
Bromodichloromethane	116
cis-1,3-Dichloropropene	113
4-Methyl-2-pentanone	118
Toluene	111
trans-1,3-Dichloropropene	114
1,1,2-Trichloroethane	111
Tetrachloroethene	106

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104195A-11AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p041904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/19/11 08:05 AM**	

Compound	%Recovery
2-Hexanone	113
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	107
Chlorobenzene	108
Ethyl Benzene	106
m,p-Xylene	110
o-Xylene	111
Styrene	110
Bromoform	111
Cumene	112
1,1,2,2-Tetrachloroethane	112
Propylbenzene	116
4-Ethyltoluene	105
1,3,5-Trimethylbenzene	115
1,2,4-Trimethylbenzene	114
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	110
alpha-Chlorotoluene	118
1,2-Dichlorobenzene	111
1,2,4-Trichlorobenzene	111
Hexachlorobutadiene	114
Butane	115
Isopentane	122

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104195A-11B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p042003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/11 07:41 AM**	

Compound	%Recovery
Freon 12	119
Freon 114	108
Chloromethane	126
Vinyl Chloride	112
1,3-Butadiene	116
Bromomethane	112
Chloroethane	110
Freon 11	117
Ethanol	110
Freon 113	109
1,1-Dichloroethene	113
Acetone	115
2-Propanol	123
Carbon Disulfide	125
3-Chloropropene	122
Methylene Chloride	117
Methyl tert-butyl ether	114
trans-1,2-Dichloroethene	118
Hexane	112
1,1-Dichloroethane	116
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	107
Tetrahydrofuran	117
Chloroform	113
1,1,1-Trichloroethane	118
Cyclohexane	108
Carbon Tetrachloride	118
2,2,4-Trimethylpentane	118
Benzene	110
1,2-Dichloroethane	126
Heptane	112
Trichloroethene	112
1,2-Dichloropropane	117
1,4-Dioxane	107
Bromodichloromethane	118
cis-1,3-Dichloropropene	114
4-Methyl-2-pentanone	119
Toluene	108
trans-1,3-Dichloropropene	111
1,1,2-Trichloroethane	107
Tetrachloroethene	110

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104195A-11B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p042003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/11 07:41 AM**	

Compound	%Recovery
2-Hexanone	116
Dibromochloromethane	111
1,2-Dibromoethane (EDB)	107
Chlorobenzene	106
Ethyl Benzene	105
m,p-Xylene	108
o-Xylene	107
Styrene	107
Bromoform	111
Cumene	109
1,1,2,2-Tetrachloroethane	105
Propylbenzene	110
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	108
1,2,4-Trimethylbenzene	107
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	114
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	100
Hexachlorobutadiene	104
Butane	113
Isopentane	122

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104195A-11BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p042004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/11 07:58 AM**	

Compound	%Recovery
Freon 12	121
Freon 114	110
Chloromethane	132 Q
Vinyl Chloride	112
1,3-Butadiene	117
Bromomethane	115
Chloroethane	108
Freon 11	118
Ethanol	121
Freon 113	111
1,1-Dichloroethene	117
Acetone	114
2-Propanol	126
Carbon Disulfide	125
3-Chloropropene	122
Methylene Chloride	122
Methyl tert-butyl ether	115
trans-1,2-Dichloroethene	122
Hexane	115
1,1-Dichloroethane	116
2-Butanone (Methyl Ethyl Ketone)	105
cis-1,2-Dichloroethene	110
Tetrahydrofuran	120
Chloroform	114
1,1,1-Trichloroethane	120
Cyclohexane	109
Carbon Tetrachloride	120
2,2,4-Trimethylpentane	121
Benzene	110
1,2-Dichloroethane	122
Heptane	113
Trichloroethene	111
1,2-Dichloropropane	116
1,4-Dioxane	105
Bromodichloromethane	115
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	120
Toluene	107
trans-1,3-Dichloropropene	112
1,1,2-Trichloroethane	106
Tetrachloroethene	107

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104195A-11BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p042004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/11 07:58 AM**	

Compound	%Recovery
2-Hexanone	112
Dibromochloromethane	109
1,2-Dibromoethane (EDB)	106
Chlorobenzene	107
Ethyl Benzene	106
m,p-Xylene	108
o-Xylene	106
Styrene	105
Bromoform	110
Cumene	109
1,1,2,2-Tetrachloroethane	107
Propylbenzene	110
4-Ethyltoluene	101
1,3,5-Trimethylbenzene	109
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	105
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	105
Hexachlorobutadiene	110
Butane	115
Isopentane	123

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	103	70-130

1104195

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562693.00008
Lab Vendor #

Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CH ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Thomas Adams
PO #

INCIDENT # (ENV SERVICES): 9 7 2 1 8 6 4 0
SAP #: 3 4 0 0 5 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 04/08/11
PAGE: 1 of 1

ACCT/CLIENT COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
REP DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT MANAGER: Roxana Dissolved Phase

Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Thomas_Adams@URSCorp.com
SAMPLER NAME(S) (Print): M. Miller, M. Currier, E. Arthur, W. Buchman

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Turn Around Time: ☑ Normal ☐ Rush Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15+ Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946				
01A	VMP-25-5-040811	04/08/11	0952 - 1021	2211	-28.5	-8.5			X	X					
02A	VMP-25-21-040811	04/08/11	1056 - 1126	2327	-29.5	-6			X	X					
03A	VMP-25-21-040811-Dup	04/08/11	1058 - 1128	2126	-29	-6			X	X					
04A	VMP-24-5-040811	04/08/11	1454 - 1510	2149	-29	-3			X	X					
05A	VMP-9-25.5-040811	04/08/11	0944 - 10	2080	-29	-8			X	X					
06A	VMP-9-38.5-040811	04/08/11	1053 - 1128	2221	-29.5	-7			X	X					
07A	VMP-6-5-040811	04/08/11	1425 - 1458	2189	-29.5	-4.5			X	X					
08A	VMP-6-10-040811	04/08/11	1543 - 1613	2133	-30	-8.5			X	X					

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Fedex
SEAL INTACT

	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	FEDEX	4/8/11	1500
Relinquished by: (Signature)	Received by: (Signature)	Date: 4/9/11	Time 1000
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

05/2008 Revision

Air Toxics LTD.
Laboratory Services Since 1989

4/19/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562593.00008
Workorder #: 1104195B

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/9/2011 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

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1104195B

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/09/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/19/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-25-5-040811	Modified ASTM D-1946	8.0 "Hg	15 psi
02A	VMP-25-21-040811	Modified ASTM D-1946	6.0 "Hg	15 psi
03A	VMP-25-21-040811-Dup	Modified ASTM D-1946	6.2 "Hg	15 psi
04A	VMP-24-5-040811	Modified ASTM D-1946	3.2 "Hg	15 psi
05A	VMP-9-25.5-040811	Modified ASTM D-1946	6.2 "Hg	15 psi
06A	VMP-9-38.5-040811	Modified ASTM D-1946	8.2 "Hg	15 psi
07A	VMP-6-5-040811	Modified ASTM D-1946	6.6 "Hg	15 psi
08A	VMP-6-10-040811	Modified ASTM D-1946	10.0 "Hg	15 psi
09A	Lab Blank	Modified ASTM D-1946	NA	NA
09B	Lab Blank	Modified ASTM D-1946	NA	NA
10A	LCS	Modified ASTM D-1946	NA	NA
10AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Linda J. Fruman DATE: 04/19/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1104195B

Eight 1 Liter Summa Canister samples were received on April 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.

Requirement	*ASTM D-1946*	*ATL Modifications*
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 >/= 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 X's 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

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-25-5-040811

Lab ID#: 1104195B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	3.4
Nitrogen	0.28	90
Methane	0.00028	0.0036
Carbon Dioxide	0.028	6.9
Helium	0.14	0.024 J

Client Sample ID: VMP-25-21-040811

Lab ID#: 1104195B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	2.8
Nitrogen	0.25	54
Methane	0.00025	26
Carbon Dioxide	0.025	14
Ethane	0.0025	0.020
Helium	0.13	0.0090 J

Client Sample ID: VMP-25-21-040811-Dup

Lab ID#: 1104195B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	3.3
Nitrogen	0.26	56
Methane	0.00026	25
Carbon Dioxide	0.026	13
Ethane	0.0026	0.020
Helium	0.13	0.026 J

Client Sample ID: VMP-24-5-040811

Lab ID#: 1104195B-04A

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-24-5-040811

Lab ID#: 1104195B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	17
Nitrogen	0.23	78
Methane	0.00023	0.0024
Carbon Dioxide	0.023	4.7
Helium	0.11	0.013 J

Client Sample ID: VMP-9-25.5-040811

Lab ID#: 1104195B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	3.3
Nitrogen	0.26	75
Methane	0.00026	0.64
Carbon Dioxide	0.026	12
Helium	0.13	9.2

Client Sample ID: VMP-9-38.5-040811

Lab ID#: 1104195B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.6
Nitrogen	0.28	82
Methane	0.00028	1.1
Carbon Dioxide	0.028	15
Helium	0.14	0.11 J

Client Sample ID: VMP-6-5-040811

Lab ID#: 1104195B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	19

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-6-5-040811

Lab ID#: 1104195B-07A

Nitrogen	0.26	78
Methane	0.00026	0.0011
Carbon Dioxide	0.026	2.0
Helium	0.13	0.44

Client Sample ID: VMP-6-10-040811

Lab ID#: 1104195B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	5.0
Nitrogen	0.30	84
Methane	0.00030	0.00028 J
Carbon Dioxide	0.030	11
Helium	0.15	0.040 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-25-5-040811

Lab ID#: 1104195B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041516**	**Date of Collection:**	**4/8/11 10:21:00 AM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**4/15/11 07:11 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	3.4
Nitrogen	0.28	90
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.0036
Carbon Dioxide	0.028	6.9
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.024 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-25-21-040811

Lab ID#: 1104195B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041521**	**Date of Collection:**	**4/8/11 11:26:00 AM**
Dil. Factor:	**2.52**	**Date of Analysis:**	**4/15/11 09:33 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	2.8
Nitrogen	0.25	54
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	26
Carbon Dioxide	0.025	14
Ethane	0.0025	0.020
Ethene	0.0025	Not Detected
Helium	0.13	0.0090 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-25-21-040811-Dup

Lab ID#: 1104195B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041522**	**Date of Collection:**	**4/8/11 11:26:00 AM**
Dil. Factor:	**2.55**	**Date of Analysis:**	**4/15/11 09:54 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	3.3
Nitrogen	0.26	56
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	25
Carbon Dioxide	0.026	13
Ethane	0.0026	0.020
Ethene	0.0026	Not Detected
Helium	0.13	0.026 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-24-5-040811

Lab ID#: 1104195B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041518**	**Date of Collection:**	**4/8/11 3:10:00 PM**
Dil. Factor:	**2.26**	**Date of Analysis:**	**4/15/11 08:24 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	17
Nitrogen	0.23	78
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	0.0024
Carbon Dioxide	0.023	4.7
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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-9-25.5-040811

Lab ID#: 1104195B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041523**	**Date of Collection:**	**4/8/11 10:00:00 AM**
Dil. Factor:	**2.55**	**Date of Analysis:**	**4/15/11 10:15 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	3.3
Nitrogen	0.26	75
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.64
Carbon Dioxide	0.026	12
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	9.2

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-9-38.5-040811

Lab ID#: 1104195B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041524**	**Date of Collection:**	**4/8/11 11:28:00 AM**
Dil. Factor:	**2.78**	**Date of Analysis:**	**4/15/11 10:36 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.28	1.6
Nitrogen	0.28	82
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	1.1
Carbon Dioxide	0.028	15
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.11 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-6-5-040811

Lab ID#: 1104195B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041519**	**Date of Collection:**	**4/8/11 2:59:00 PM**
Dil. Factor:	**2.59**	**Date of Analysis:**	**4/15/11 08:47 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.26	19
Nitrogen	0.26	78
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.0011
Carbon Dioxide	0.026	2.0
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.44

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-6-10-040811

Lab ID#: 1104195B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041520**	**Date of Collection:**	**4/8/11 4:13:00 PM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**4/15/11 09:12 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	5.0
Nitrogen	0.30	84
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	0.00028 J
Carbon Dioxide	0.030	11
Ethane	0.0030	Not Detected
Ethene	0.0030	Not Detected
Helium	0.15	0.040 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104195B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041505a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/15/11 01:25 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.10	0.011 J
Nitrogen	0.10	0.053 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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104195B-09B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041504b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/15/11 01:03 PM**	

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

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104195B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/15/11 12:18 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	100
Methane	94
Carbon Dioxide	101
Ethane	97
Ethene	95
Helium	93

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104195B-10AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041525**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/15/11 10:57 PM**	

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

Container Type: NA - Not Applicable

1104195

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. **Project Name: Roxana Dissolved Phase** **Project # 21562593.00008** Lab Vendor #	Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CH ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER	Print Bill To Contact Name: Thomas Adams PO #	INCIDENT # (ENV SERVICES): 9 7 2 1 8 6 4 0 SAP #: 3 4 0 0 6 1 ☐ CHECK IF NO INCIDENT # APPLIES DATE: 04/08/11 PAGE: 1 of 1
SAMPLING COMPANY: URS CORPORATION	LOG CODE	SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA	State: IL
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110		ATTN: DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis	PHONE NO: 314-743-4179
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719			E-MAIL: Elizabeth_Kunkel@URSCorp.com
TELEPHONE: 314-429-0100	FAX: 314-429-0462	Bill To Contact E-MAIL: Thomas_Adams@URSCorp.com	CONSULTANT PROJECT NAME#: Roxana Dissolved Phase
		SAMPLER NAME(S) (Print): M. Miller, M. Currier, E. Arthur, W. Buchman	GLOBAL ID NO

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946				
01A	VMP-25-5-040811	04/08/11	0952 - 1021	2211	-28.5	-8.5			X	X					
02A	VMP-25-21-040811	04/08/11	1059 - 1126	2327	-29.5	-6			X	X					
03A	VMP-25-21-040811-Dup	04/08/11	1056 - 1126	2126	-29	-6			X	X					
04A	VMP-24-5-040811	04/08/11	1454 - 1510	2149	-29	-3			X	X					
05A	VMP-9-25.5-040811	04/08/11	0944 - 10	2060	-29	-8			X	X					
06A	VMP-9-38.5-040811	04/08/11	1055 - 1126	2221	-29.5	-7			X	X					
07A	VMP-6-5-040811	04/08/11	1425 - 1459	2189	-29.6	-4.5			X	X					
08A	VMP-6-10-040811	04/08/11	1543 - 1613	2133	-30	-8.5			X	X					

Turn Around Time: ☑ Normal ☐ Rush — Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N2 He

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Fedex

CUSTODY SEAL INTACT

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 4/8/11	Time: 1500
Relinquished by: (Signature)	Received by: (Signature)	Date: 4/9/11	Time: 1000
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2006 Revision

Roxana 2Q2011 Vapor Data Review

Laboratory SDG: 1104304A, B

Data Reviewer: Tony Sedlacek

Peer Reviewer: Jeff Aust

Date Reviewed: 6/29/2011

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-24-10-041111	VMP-24-22-041111
VMP-24-34-041111	VMP-6-31.5-041111
VMP-6-39-041111	VMP-1-5-041211
VMP-1-8.5-041211	VMP-1-23.5-041211
VMP-1-23.5-041211-Dup	VMP-2-5-041311
VMP-21-5-041311	VMP-21-10-041311

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 the canister identification for samples VMP-24-22-041111 and VMP-6-31.5-041111 on the COC did not match what was recorded on the canister tags. The laboratory contacted URS and was directed to use the information on the canister tags. Samples VMP-24-10-041111, VMP-6-31.5-041111, VMP-6-39-041111, VMP-1-8.5-041211, VMP-1-23.5-041211, VMP-1-23.5-041211-Dup and VMP-21-10-041311 were diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in TO-15 method blanks. Some TO-15 compounds were qualified due to field duplicate RPD outside evaluation criteria. 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 Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1104304A-13A	TO-15	Ethanol	0.75 ppbv / 1.4 µg/m^3
1104304A-13A	TO-15	trans-1,2-Dichloroethene	0.10 ppbv / 0.41 µg/m^3
1104304A-13A	TO-15	Trichloroethene	0.11 ppbv / 0.58 µg/m^3
1104304A-13A	TO-15	trans-1,3-Dichloropropene	0.093 ppbv / 0.42 µg/m^3
1104304A-13A	TO-15	Chlorobenzene	0.058 ppbv / 0.27 µg/m^3
1104304A-13A	TO-15	m,p-Xylene	0.10 ppbv / 0.45 µg/m^3
1104304A-13A	TO-15	1,3-Dichlorobenzene	0.078 ppbv / 0.47 µg/m^3
1104304A-13A	TO-15	1,4-Dichlorobenzene	0.12 ppbv / 0.72 µg/m^3
1104304A-13A	TO-15	1,2-Dichlorobenzene	0.084 ppbv / 0.50 µg/m^3
1104304A-13A	TO-15	1,2,4-Trichlorobenzene	0.39 ppbv / 2.9 µg/m^3
1104304A-13A	TO-15	Hexachlorobutadiene	0.22 ppbv / 2.3 µg/m^3
1104304A-13A	ASTM D-9146	Oxygen	0.014 %
1104304A-13A	ASTM D-9146	Nitrogen	0.60 %
1104304B-13C	ASTM D-9146	Oxygen	0.013 %
1104304B-13C	ASTM D-9146	Nitrogen	0.039 %

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-24-10-041111	TO-15	m,p-Xylene	-	**U**
VMP-24-22-041111	TO-15	Ethanol	-	**U**
VMP-24-22-041111	TO-15	Trichloroethene	-	**U**
VMP-1-5-041211	TO-15	Trichloroethene	-	**U**
VMP-1-5-041211	TO-15	Chlorobenzene	-	**U**
VMP-1-5-041211	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-1-5-041211	TO-15	1,2,4-Trichlorobenzene	-	**U**
VMP-1-8.5-041211	TO-15	Ethanol	-	**U**
VMP-1-8.5-041211	TO-15	Chlorobenzene	-	**U**
VMP-1-8.5-041211	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-1-8.5-041211	TO-15	1,2,4-Trichlorobenzene	-	**U**
VMP-2-5-041311	TO-15	Chlorobenzene	-	**U**
VMP-2-5-041311	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-21-5-041311	TO-15	Ethanol	-	**U**
VMP-21-5-041311	TO-15	Chlorobenzene	-	**U**
VMP-21-5-041311	TO-15	1,4-Dichlorobenzene	-	**U**
VMP-21-5-041311	TO-15	1,2,4-Trichlorobenzene	-	**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 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-1-23.5-041211	VMP-1-23.5-041211-DUP

Were field duplicates within evaluation criteria?

No

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
VMP-1-23.5-041211	VMP-1-23.5-041211-DUP	TO-15	2,2,4-Trimethylpentane	**33**	**J/J**
VMP-1-23.5-041211	VMP-1-23.5-041211-DUP	TO-15	Isopentane	**32**	**J/J**
VMP-1-23.5-041211	VMP-1-23.5-041211-DUP	ASTM D-9146	Methane	**27**	**J/J**
VMP-1-23.5-041211	VMP-1-23.5-041211-DUP	ASTM D-9146	Oxygen	**31**	**J/J**
VMP-1-23.5-041211	VMP-1-23.5-041211-DUP	ASTM D-9146	Carbon dioxide	**30**	**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

Air Toxics LTD.
Laboratory Services Since 1989

4/27/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562593.00008
Workorder #: 1104304A

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/14/2011 at Air Toxics Ltd.

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

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

Regards,

Kelly Buettner

Project Manager

Reviewed on 6/29/11

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1104304A

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/14/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/27/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-24-10-041111	Modified TO-15	6.0 "Hg	15 psi
02A	VMP-24-22-041111	Modified TO-15	6.0 "Hg	15 psi
03A	VMP-24-34-041111	Modified TO-15	5.0 "Hg	15 psi
04A	VMP-6-31.5-041111	Modified TO-15	8.4 "Hg	15 psi
05A	VMP-6-39-041111	Modified TO-15	7.4 "Hg	15 psi
06A	VMP-1-5-041211	Modified TO-15	7.0 "Hg	15 psi
07A	VMP-1-8.5-041211	Modified TO-15	6.8 "Hg	15 psi
08A	VMP-1-23.5-041211	Modified TO-15	7.2 "Hg	15 psi
09A	VMP-1-23.5-041211-Dup	Modified TO-15	4.8 "Hg	15 psi
10A	VMP-2-5-041311	Modified TO-15	8.2 "Hg	15 psi
11A	VMP-21-5-041311	Modified TO-15	7.0 "Hg	15 psi
12A	VMP-21-10-041311	Modified TO-15	7.0 "Hg	15 psi
13A	Lab Blank	Modified TO-15	NA	NA
13B	Lab Blank	Modified TO-15	NA	NA
14A	CCV	Modified TO-15	NA	NA
14B	CCV	Modified TO-15	NA	NA
15A	LCS	Modified TO-15	NA	NA

Continued on next page

WORK ORDER #: 1104304A

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/14/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/27/2011		

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

CERTIFIED BY: Linda D. Frueman DATE: 04/27/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1104304A

Twelve 1 Liter Summa Canister samples were received on April 14, 2011. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

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

Receiving Notes

The Chain of Custody (COC) information for samples VMP-24-22-041111 and VMP-6-31.5-041111 did not match the information on the canisters 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 may be false positives.

Dilution was performed on samples VMP-24-10-041111, VMP-6-31.5-041111, VMP-6-39-041111, VMP-1-8.5-041211, VMP-1-23.5-041211, VMP-1-23.5-041211-Dup, and VMP-21-10-041311 due to the presence of high level target species.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-24-10-041111

Lab ID#: 1104304A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.5	0.26 J	12	1.3 J
Ethanol	10	5.1 J	19	9.7 J
Acetone	10	5.0 J	24	12 J
Carbon Disulfide	10	1.6 J	31	4.9 J
Methylene Chloride	2.5	0.64 J	8.8	2.2 J
Methyl tert-butyl ether	2.5	0.22 J	9.1	0.79 J
Hexane	2.5	54	8.9	190
Cyclohexane	2.5	44	8.7	150
2,2,4-Trimethylpentane	2.5	26	12	120
Benzene	2.5	790	8.0	2500
Heptane	2.5	13	10	55
Trichloroethene	2.5	0.70 J	14	3.7 J
Toluene	2.5	0.66 J	9.5	2.5 J
Tetrachloroethene	2.5	0.48 J	17	3.3 J
m,p-Xylene	2.5	~~0.29 J~~ U	11	~~1.2 J~~ U
Butane	10	230	24	540
Isopentane	10	360	30	1000

Client Sample ID: VMP-24-22-041111

Lab ID#: 1104304A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.65 J	6.2	3.2 J
Chloromethane	5.0	1.9 J	10	3.9 J
Freon 11	1.3	0.40 J	7.1	2.2 J
Ethanol	5.0	~~3.3 J~~ U	9.5	~~6.2 J~~ U
Acetone	5.0	4.8 J	12	11 J
Carbon Disulfide	5.0	0.24 J	16	0.74 J
Methylene Chloride	1.3	0.67 J	4.4	2.3 J
Hexane	1.3	0.50 J	4.4	1.8 J
2,2,4-Trimethylpentane	1.3	0.20 J	5.9	0.94 J

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-24-22-041111

Lab ID#: 1104304A-02A

Benzene	1.3	4.1	4.0	13
Trichloroethene	1.3	0.45 J	6.8	2.4 J
Tetrachloroethene	1.3	0.37 J	8.5	2.5 J
Isopentane	5.0	2.1 J	15	6.2 J

Client Sample ID: VMP-24-34-041111

Lab ID#: 1104304A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.43 J	6.0	2.1 J
Freon 11	1.2	0.37 J	6.8	2.1 J
Ethanol	4.8	5.6	9.1	11
Acetone	4.8	6.0	11	14
2-Propanol	4.8	2.1 J	12	5.2 J
Methylene Chloride	1.2	1.1 J	4.2	4.0 J
Methyl tert-butyl ether	1.2	0.16 J	4.4	0.59 J
Hexane	1.2	0.46 J	4.3	1.6 J
Chloroform	1.2	0.15 J	5.9	0.71 J
Cyclohexane	1.2	0.52 J	4.2	1.8 J
2,2,4-Trimethylpentane	1.2	0.25 J	5.6	1.2 J
Benzene	1.2	2.2	3.9	7.2
Trichloroethene	1.2	0.56 J	6.5	3.0 J
Toluene	1.2	0.24 J	4.6	0.92 J
Tetrachloroethene	1.2	0.31 J	8.2	2.1 J
Dibromochloromethane	1.2	0.31 J	10	2.7 J
Butane	4.8	1.3 J	12	3.1 J
Isopentane	4.8	1.6 J	14	4.9 J

Client Sample ID: VMP-6-31.5-041111

Lab ID#: 1104304A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	7500	1700 J	14000	3200 J

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

Client Sample ID: VMP-6-31.5-041111

Lab ID#: 1104304A-04A

Acetone	7500	5300 J	18000	12000 J
2-Propanol	7500	5300 J	18000	13000 J
Carbon Disulfide	7500	1200 J	23000	3800 J
Methylene Chloride	1900	1700 J	6500	5800 J
Hexane	1900	620000	6600	2200000
Cyclohexane	1900	170000	6400	580000
2,2,4-Trimethylpentane	1900	510000	8800	2400000
Benzene	1900	5600	6000	18000
Heptane	1900	260000	7700	1100000
Toluene	1900	380 J	7100	1400 J
Tetrachloroethene	1900	160 J	13000	1000 J
Ethyl Benzene	1900	19000	8100	84000
m,p-Xylene	1900	6400	8100	28000
Styrene	1900	700 J	8000	3000 J
Cumene	1900	2100	9200	10000
Propylbenzene	1900	5600	9200	27000
4-Ethyltoluene	1900	1900	9200	9400
1,2,4-Trimethylbenzene	1900	2900	9200	14000
1,4-Dichlorobenzene	1900	180 J	11000	1100 J
Butane	7500	510000	18000	1200000
Isopentane	7500	560000	22000	1700000

Client Sample ID: VMP-6-39-041111

Lab ID#: 1104304A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	8900	5000 J	21000	12000 J
2-Propanol	8900	3000 J	22000	7500 J
Carbon Disulfide	8900	1100 J	28000	3400 J
Methylene Chloride	2200	1100 J	7800	3700 J
Hexane	2200	640000	7900	2300000
2-Butanone (Methyl Ethyl Ketone)	8900	1200 J	26000	3600 J
Cyclohexane	2200	180000	7700	620000

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

Client Sample ID: VMP-6-39-041111

Lab ID#: 1104304A-05A

2,2,4-Trimethylpentane	2200	480000	10000	2300000
Benzene	2200	4800	7100	16000
Heptane	2200	290000	9200	1200000
Toluene	2200	600 J	8400	2300 J
Ethyl Benzene	2200	27000	9700	120000
m,p-Xylene	2200	9500	9700	41000
Styrene	2200	610 J	9500	2600 J
Cumene	2200	2500	11000	12000
Propylbenzene	2200	6000	11000	30000
4-Ethyltoluene	2200	2900	11000	14000
1,3,5-Trimethylbenzene	2200	680 J	11000	3400 J
1,2,4-Trimethylbenzene	2200	4400	11000	21000
Butane	8900	520000	21000	1200000
Isopentane	8900	580000	26000	1700000

Client Sample ID: VMP-1-5-041211

Lab ID#: 1104304A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.40 J	6.5	2.0 J
Freon 11	1.3	0.22 J	7.4	1.2 J
Acetone	5.3	4.8 J	12	12 J
2-Propanol	5.3	1.3 J	13	3.2 J
Carbon Disulfide	5.3	1.3 J	16	4.0 J
Methylene Chloride	1.3	0.34 J	4.6	1.2 J
Hexane	1.3	150	4.6	530
2-Butanone (Methyl Ethyl Ketone)	5.3	0.61 J	16	1.8 J
Cyclohexane	1.3	61	4.5	210
2,2,4-Trimethylpentane	1.3	320	6.2	1500
Benzene	1.3	190	4.2	600
Heptane	1.3	110	5.4	450
Trichloroethene	1.3	0.39 J u	7.1	2.1 J u
Toluene	1.3	0.62 J	5.0	2.4 J

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

Client Sample ID: VMP-1-5-041211

Lab ID#: 1104304A-06A

Tetrachloroethene	1.3	0.30 J	9.0	2.0 J
Dibromochloromethane	1.3	0.27 J	11	2.3 J
Chlorobenzene	1.3	0.19 J u	6.1	0.88 J u
Ethyl Benzene	1.3	3.9	5.7	17
m,p-Xylene	1.3	1.3	5.7	5.6
Cumene	1.3	0.38 J	6.5	1.9 J
Propylbenzene	1.3	0.78 J	6.5	3.8 J
4-Ethyltoluene	1.3	0.36 J	6.5	1.8 J
1,2,4-Trimethylbenzene	1.3	0.47 J	6.5	2.3 J
1,4-Dichlorobenzene	1.3	0.21 J u	7.9	1.3 J u
1,2,4-Trichlorobenzene	5.3	0.32 J u	39	2.3 J u
Butane	5.3	14	12	33
Isopentane	5.3	34	16	99

Client Sample ID: VMP-1-8.5-041211

Lab ID#: 1104304A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.7	0.41 J	8.6	2.0 J
Freon 11	1.7	0.21 J	9.8	1.2 J
Ethanol	7.0	2.9 J u	13	5.4 J u
Acetone	7.0	4.7 J	16	11 J
Carbon Disulfide	7.0	0.70 J	22	2.2 J
Hexane	1.7	39	6.1	140
Cyclohexane	1.7	20	6.0	67
2,2,4-Trimethylpentane	1.7	410	8.1	1900
Benzene	1.7	98	5.6	310
1,2-Dichloroethane	1.7	0.29 J	7.0	1.2 J
Heptane	1.7	42	7.1	170
Trichloroethene	1.7	0.90 J	9.4	4.8 J
Toluene	1.7	0.60 J	6.6	2.2 J
Tetrachloroethene	1.7	0.14 J	12	0.97 J
Chlorobenzene	1.7	0.24 J u	8.0	1.1 J u

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Laboratory Services Since 1989

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

Client Sample ID: VMP-1-8.5-041211

Lab ID#: 1104304A-07A

Ethyl Benzene	1.7	2.3	7.6	10
m,p-Xylene	1.7	1.1 J	7.6	4.7 J
Cumene	1.7	0.26 J	8.6	1.3 J
Propylbenzene	1.7	0.51 J	8.6	2.5 J
4-Ethyltoluene	1.7	0.48 J	8.6	2.3 J
1,2,4-Trimethylbenzene	1.7	0.51 J	8.6	2.5 J
1,4-Dichlorobenzene	1.7	0.15 J u	10	0.91 J u
1,2,4-Trichlorobenzene	7.0	0.35 J u	52	2.6 J u
Butane	7.0	11	16	26
Isopentane	7.0	16	20	46

Client Sample ID: VMP-1-23.5-041211

Lab ID#: 1104304A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroethane	7600	1600 J	20000	4400 J
Ethanol	7600	2600 J	14000	4900 J
Acetone	7600	4100 J	18000	9800 J
2-Propanol	7600	4800 J	19000	12000 J
Carbon Disulfide	7600	1600 J	24000	5100 J
Methylene Chloride	1900	760 J	6600	2600 J
Hexane	1900	2800	6700	9700
Cyclohexane	1900	930 J	6500	3200 J
2,2,4-Trimethylpentane	1900	23000 J	8900	110000 J
Heptane	1900	1000 J	7800	4200 J
Trichloroethene	1900	2100	10000	11000
Toluene	1900	510 J	7200	1900 J
Ethyl Benzene	1900	210 J	8200	930 J
Butane	7600	560000	18000	1300000
Isopentane	7600	310000 J	22000	900000 J

Client Sample ID: VMP-1-23.5-041211-Dup

Lab ID#: 1104304A-09A

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

Client Sample ID: VMP-1-23.5-041211-Dup

Lab ID#: 1104304A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	9600	3400 J	23000	8000 J
2-Propanol	9600	3300 J	24000	8100 J
Carbon Disulfide	9600	1300 J	30000	4200 J
Methylene Chloride	2400	440 J	8300	1500 J
Hexane	2400	3900	8400	14000
Cyclohexane	2400	1500 J	8300	5300 J
2,2,4-Trimethylpentane	2400	32000 J	11000	150000 J
Heptane	2400	1700 J	9800	6800 J
Trichloroethene	2400	410 J	13000	2200 J
Ethyl Benzene	2400	300 J	10000	1300 J
Butane	9600	710000	23000	1700000
Isopentane	9600	430000 J	28000	1300000 J

Client Sample ID: VMP-2-5-041311

Lab ID#: 1104304A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.45 J	6.9	2.2 J
Freon 11	1.4	0.26 J	7.8	1.5 J
Ethanol	5.6	3.8 J	10	7.1 J
Acetone	5.6	5.1 J	13	12 J
Carbon Disulfide	5.6	1.2 J	17	3.8 J
Methylene Chloride	1.4	0.24 J	4.8	0.83 J
Methyl tert-butyl ether	1.4	0.13 J	5.0	0.46 J
Hexane	1.4	24	4.9	87
Cyclohexane	1.4	13	4.8	44
2,2,4-Trimethylpentane	1.4	230	6.5	1100
Benzene	1.4	100	4.4	330
Heptane	1.4	32	5.7	130
Trichloroethene	1.4	0.77 J	7.5	4.2 J
Toluene	1.4	1.2 J	5.2	4.6 J

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

Client Sample ID: VMP-2-5-041311

Lab ID#: 1104304A-10A

Tetrachloroethene	1.4	0.63 J	9.4	4.2 J
Chlorobenzene	1.4	0.25 J u	6.4	1.1 J u
Ethyl Benzene	1.4	2.2	6.0	9.6
m,p-Xylene	1.4	0.87 J	6.0	3.8 J
Cumene	1.4	0.26 J	6.8	1.3 J
Propylbenzene	1.4	0.44 J	6.8	2.2 J
4-Ethyltoluene	1.4	0.22 J	6.8	1.1 J
1,2,4-Trimethylbenzene	1.4	0.45 J	6.8	2.2 J
1,4-Dichlorobenzene	1.4	0.16 J u	8.4	0.99 J u
Butane	5.6	43	13	100
Isopentane	5.6	34	16	100

Client Sample ID: VMP-21-5-041311

Lab ID#: 1104304A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.50 J	6.5	2.5 J
Freon 11	1.3	0.21 J	7.4	1.2 J
Ethanol	5.3	3.1 J u	9.9	5.8 J u
Acetone	5.3	3.9 J	12	9.2 J
Carbon Disulfide	5.3	2.0 J	16	6.4 J
Methylene Chloride	1.3	0.22 J	4.6	0.76 J
Hexane	1.3	400	4.6	1400
2-Butanone (Methyl Ethyl Ketone)	5.3	0.70 J	16	2.1 J
Cyclohexane	1.3	120	4.5	400
2,2,4-Trimethylpentane	1.3	340	6.2	1600
Benzene	1.3	260	4.2	840
Heptane	1.3	150	5.4	630
Toluene	1.3	0.72 J	5.0	2.7 J
Tetrachloroethene	1.3	1.7	9.0	11
Chlorobenzene	1.3	0.16 J u	6.1	0.76 J u
Ethyl Benzene	1.3	2.3	5.7	9.9
m,p-Xylene	1.3	0.80 J	5.7	3.5 J

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-21-5-041311

Lab ID#: 1104304A-11A

Cumene	1.3	0.28 J	6.5	1.4 J
Propylbenzene	1.3	0.33 J	6.5	1.6 J
4-Ethyltoluene	1.3	0.28 J	6.5	1.4 J
1,2,4-Trimethylbenzene	1.3	0.28 J	6.5	1.4 J
1,4-Dichlorobenzene	1.3	0.11 J u	7.9	0.68 J u
alpha-Chlorotoluene	1.3	0.19 J	6.8	1.0 J
1,2,4-Trichlorobenzene	5.3	0.34 J u	39	2.5 J u
Butane	5.3	170	12	410
Isopentane	5.3	250	16	740

Client Sample ID: VMP-21-10-041311

Lab ID#: 1104304A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	210	58 J	500	140 J
2-Propanol	210	65 J	520	160 J
Carbon Disulfide	210	21 J	660	65 J
Methylene Chloride	53	21 J	180	72 J
Hexane	53	46 J	190	160 J
2-Butanone (Methyl Ethyl Ketone)	210	15 J	620	46 J
Cyclohexane	53	150	180	500
2,2,4-Trimethylpentane	53	9100	250	42000
Benzene	53	20 J	170	66 J
Trichloroethene	53	32 J	280	170 J
Styrene	53	12 J	220	51 J
Butane	210	3200	500	7600
Isopentane	210	17000	620	50000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-24-10-041111

Lab ID#: 1104304A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041918**	**Date of Collection:**	**4/11/11 10:36:00 AM**
Dil. Factor:	**5.04**	**Date of Analysis:**	**4/19/11 05:15 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.5	0.26 J	12	1.3 J
Freon 114	2.5	Not Detected	18	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
Vinyl Chloride	2.5	Not Detected	6.4	Not Detected
1,3-Butadiene	2.5	Not Detected	5.6	Not Detected
Bromomethane	2.5	Not Detected	9.8	Not Detected
Chloroethane	10	Not Detected	26	Not Detected
Freon 11	2.5	Not Detected	14	Not Detected
Ethanol	10	5.1 J	19	9.7 J
Freon 113	2.5	Not Detected	19	Not Detected
1,1-Dichloroethene	2.5	Not Detected	10	Not Detected
Acetone	10	5.0 J	24	12 J
2-Propanol	10	Not Detected	25	Not Detected
Carbon Disulfide	10	1.6 J	31	4.9 J
3-Chloropropene	10	Not Detected	32	Not Detected
Methylene Chloride	2.5	0.64 J	8.8	2.2 J
Methyl tert-butyl ether	2.5	0.22 J	9.1	0.79 J
trans-1,2-Dichloroethene	2.5	Not Detected	10	Not Detected
Hexane	2.5	54	8.9	190
1,1-Dichloroethane	2.5	Not Detected	10	Not Detected
2-Butanone (Methyl Ethyl Ketone)	10	Not Detected	30	Not Detected
cis-1,2-Dichloroethene	2.5	Not Detected	10	Not Detected
Tetrahydrofuran	2.5	Not Detected	7.4	Not Detected
Chloroform	2.5	Not Detected	12	Not Detected
1,1,1-Trichloroethane	2.5	Not Detected	14	Not Detected
Cyclohexane	2.5	44	8.7	150
Carbon Tetrachloride	2.5	Not Detected	16	Not Detected
2,2,4-Trimethylpentane	2.5	26	12	120
Benzene	2.5	790	8.0	2500
1,2-Dichloroethane	2.5	Not Detected	10	Not Detected
Heptane	2.5	13	10	55
Trichloroethene	2.5	0.70 J	14	3.7 J
1,2-Dichloropropane	2.5	Not Detected	12	Not Detected
1,4-Dioxane	10	Not Detected	36	Not Detected
Bromodichloromethane	2.5	Not Detected	17	Not Detected
cis-1,3-Dichloropropene	2.5	Not Detected	11	Not Detected
4-Methyl-2-pentanone	2.5	Not Detected	10	Not Detected
Toluene	2.5	0.66 J	9.5	2.5 J
trans-1,3-Dichloropropene	2.5	Not Detected	11	Not Detected
1,1,2-Trichloroethane	2.5	Not Detected	14	Not Detected
Tetrachloroethene	2.5	0.48 J	17	3.3 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-24-10-041111

Lab ID#: 1104304A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041918**	**Date of Collection:**	**4/11/11 10:36:00 AM**
Dil. Factor:	**5.04**	**Date of Analysis:**	**4/19/11 05:15 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	10	Not Detected	41	Not Detected
Dibromochloromethane	2.5	Not Detected	21	Not Detected
1,2-Dibromoethane (EDB)	2.5	Not Detected	19	Not Detected
Chlorobenzene	2.5	Not Detected	12	Not Detected
Ethyl Benzene	2.5	Not Detected	11	Not Detected
m,p-Xylene	2.5	~~0.29 J~~ U	11	~~1.2 J~~ U
o-Xylene	2.5	Not Detected	11	Not Detected
Styrene	2.5	Not Detected	11	Not Detected
Bromoform	2.5	Not Detected	26	Not Detected
Cumene	2.5	Not Detected	12	Not Detected
1,1,2,2-Tetrachloroethane	2.5	Not Detected	17	Not Detected
Propylbenzene	2.5	Not Detected	12	Not Detected
4-Ethyltoluene	2.5	Not Detected	12	Not Detected
1,3,5-Trimethylbenzene	2.5	Not Detected	12	Not Detected
1,2,4-Trimethylbenzene	2.5	Not Detected	12	Not Detected
1,3-Dichlorobenzene	2.5	Not Detected	15	Not Detected
1,4-Dichlorobenzene	2.5	Not Detected	15	Not Detected
alpha-Chlorotoluene	2.5	Not Detected	13	Not Detected
1,2-Dichlorobenzene	2.5	Not Detected	15	Not Detected
1,2,4-Trichlorobenzene	10	Not Detected	75	Not Detected
Hexachlorobutadiene	10	Not Detected	110	Not Detected
Butane	10	230	24	540
Isopentane	10	360	30	1000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	85	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-24-22-041111

Lab ID#: 1104304A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041919**	**Date of Collection:**	**4/11/11 11:47:00 AM**
Dil. Factor:	**2.52**	**Date of Analysis:**	**4/19/11 05:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.65 J	6.2	3.2 J
Freon 114	1.3	Not Detected	8.8	Not Detected
Chloromethane	5.0	1.9 J	10	3.9 J
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	0.40 J	7.1	2.2 J
Ethanol	5.0	~~3.3 J~~ U	9.5	~~6.2 J~~ U
Freon 113	1.3	Not Detected	9.6	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Acetone	5.0	4.8 J	12	11 J
2-Propanol	5.0	Not Detected	12	Not Detected
Carbon Disulfide	5.0	0.24 J	16	0.74 J
3-Chloropropene	5.0	Not Detected	16	Not Detected
Methylene Chloride	1.3	0.67 J	4.4	2.3 J
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	0.50 J	4.4	1.8 J
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	0.20 J	5.9	0.94 J
Benzene	1.3	4.1	4.0	13
1,2-Dichloroethane	1.3	Not Detected	5.1	Not Detected
Heptane	1.3	Not Detected	5.2	Not Detected
Trichloroethene	1.3	~~0.45 J~~ U	6.8	~~2.4 J~~ U
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	0.37 J	8.5	2.5 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-24-22-041111

Lab ID#: 1104304A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041919**	**Date of Collection:**	**4/11/11 11:47:00 AM**
Dil. Factor:	**2.52**	**Date of Analysis:**	**4/19/11 05:34 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	2.1 J	15	6.2 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-24-34-041111

Lab ID#: 1104304A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041920**	**Date of Collection:**	**4/11/11 12:57:00 PM**
Dil. Factor:	**2.42**	**Date of Analysis:**	**4/19/11 05:53 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	0.43 J	6.0	2.1 J
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	4.8	Not Detected	10	Not Detected
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
1,3-Butadiene	1.2	Not Detected	2.7	Not Detected
Bromomethane	1.2	Not Detected	4.7	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	0.37 J	6.8	2.1 J
Ethanol	4.8	5.6	9.1	11
Freon 113	1.2	Not Detected	9.3	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Acetone	4.8	6.0	11	14
2-Propanol	4.8	2.1 J	12	5.2 J
Carbon Disulfide	4.8	Not Detected	15	Not Detected
3-Chloropropene	4.8	Not Detected	15	Not Detected
Methylene Chloride	1.2	1.1 J	4.2	4.0 J
Methyl tert-butyl ether	1.2	0.16 J	4.4	0.59 J
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Hexane	1.2	0.46 J	4.3	1.6 J
1,1-Dichloroethane	1.2	Not Detected	4.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.8	Not Detected	14	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Tetrahydrofuran	1.2	Not Detected	3.6	Not Detected
Chloroform	1.2	0.15 J	5.9	0.71 J
1,1,1-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Cyclohexane	1.2	0.52 J	4.2	1.8 J
Carbon Tetrachloride	1.2	Not Detected	7.6	Not Detected
2,2,4-Trimethylpentane	1.2	0.25 J	5.6	1.2 J
Benzene	1.2	2.2	3.9	7.2
1,2-Dichloroethane	1.2	Not Detected	4.9	Not Detected
Heptane	1.2	Not Detected	5.0	Not Detected
Trichloroethene	1.2	0.56 J	6.5	3.0 J
1,2-Dichloropropane	1.2	Not Detected	5.6	Not Detected
1,4-Dioxane	4.8	Not Detected	17	Not Detected
Bromodichloromethane	1.2	Not Detected	8.1	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
4-Methyl-2-pentanone	1.2	Not Detected	5.0	Not Detected
Toluene	1.2	0.24 J	4.6	0.92 J
trans-1,3-Dichloropropene	1.2	Not Detected	5.5	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.6	Not Detected
Tetrachloroethene	1.2	0.31 J	8.2	2.1 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-24-34-041111

Lab ID#: 1104304A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041920**	**Date of Collection:**	**4/11/11 12:57:00 PM**
Dil. Factor:	**2.42**	**Date of Analysis:**	**4/19/11 05:53 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	4.8	Not Detected	20	Not Detected
Dibromochloromethane	1.2	0.31 J	10	2.7 J
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.3	Not Detected
Chlorobenzene	1.2	Not Detected	5.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.2	Not Detected
Bromoform	1.2	Not Detected	12	Not Detected
Cumene	1.2	Not Detected	5.9	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.3	Not Detected
Propylbenzene	1.2	Not Detected	5.9	Not Detected
4-Ethyltoluene	1.2	Not Detected	5.9	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.3	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.3	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	36	Not Detected
Hexachlorobutadiene	4.8	Not Detected	52	Not Detected
Butane	4.8	1.3 J	12	3.1 J
Isopentane	4.8	1.6 J	14	4.9 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	83	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-6-31.5-041111

Lab ID#: 1104304A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041926**	**Date of Collection:**	**4/11/11 4:01:00 PM**
Dil. Factor:	**3750**	**Date of Analysis:**	**4/19/11 09:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1900	Not Detected	9300	Not Detected
Freon 114	1900	Not Detected	13000	Not Detected
Chloromethane	7500	Not Detected	15000	Not Detected
Vinyl Chloride	1900	Not Detected	4800	Not Detected
1,3-Butadiene	1900	Not Detected	4100	Not Detected
Bromomethane	1900	Not Detected	7300	Not Detected
Chloroethane	7500	Not Detected	20000	Not Detected
Freon 11	1900	Not Detected	10000	Not Detected
Ethanol	7500	1700 J	14000	3200 J
Freon 113	1900	Not Detected	14000	Not Detected
1,1-Dichloroethene	1900	Not Detected	7400	Not Detected
Acetone	7500	5300 J	18000	12000 J
2-Propanol	7500	5300 J	18000	13000 J
Carbon Disulfide	7500	1200 J	23000	3800 J
3-Chloropropene	7500	Not Detected	23000	Not Detected
Methylene Chloride	1900	1700 J	6500	5800 J
Methyl tert-butyl ether	1900	Not Detected	6800	Not Detected
trans-1,2-Dichloroethene	1900	Not Detected	7400	Not Detected
Hexane	1900	620000	6600	2200000
1,1-Dichloroethane	1900	Not Detected	7600	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7500	Not Detected	22000	Not Detected
cis-1,2-Dichloroethene	1900	Not Detected	7400	Not Detected
Tetrahydrofuran	1900	Not Detected	5500	Not Detected
Chloroform	1900	Not Detected	9200	Not Detected
1,1,1-Trichloroethane	1900	Not Detected	10000	Not Detected
Cyclohexane	1900	170000	6400	580000
Carbon Tetrachloride	1900	Not Detected	12000	Not Detected
2,2,4-Trimethylpentane	1900	510000	8800	2400000
Benzene	1900	5600	6000	18000
1,2-Dichloroethane	1900	Not Detected	7600	Not Detected
Heptane	1900	260000	7700	1100000
Trichloroethene	1900	Not Detected	10000	Not Detected
1,2-Dichloropropane	1900	Not Detected	8700	Not Detected
1,4-Dioxane	7500	Not Detected	27000	Not Detected
Bromodichloromethane	1900	Not Detected	12000	Not Detected
cis-1,3-Dichloropropene	1900	Not Detected	8500	Not Detected
4-Methyl-2-pentanone	1900	Not Detected	7700	Not Detected
Toluene	1900	380 J	7100	1400 J
trans-1,3-Dichloropropene	1900	Not Detected	8500	Not Detected
1,1,2-Trichloroethane	1900	Not Detected	10000	Not Detected
Tetrachloroethene	1900	160 J	13000	1000 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-6-31.5-041111

Lab ID#: 1104304A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041926**	**Date of Collection:**	**4/11/11 4:01:00 PM**
Dil. Factor:	**3750**	**Date of Analysis:**	**4/19/11 09:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	7500	Not Detected	31000	Not Detected
Dibromochloromethane	1900	Not Detected	16000	Not Detected
1,2-Dibromoethane (EDB)	1900	Not Detected	14000	Not Detected
Chlorobenzene	1900	Not Detected	8600	Not Detected
Ethyl Benzene	1900	19000	8100	84000
m,p-Xylene	1900	6400	8100	28000
o-Xylene	1900	Not Detected	8100	Not Detected
Styrene	1900	700 J	8000	3000 J
Bromoform	1900	Not Detected	19000	Not Detected
Cumene	1900	2100	9200	10000
1,1,2,2-Tetrachloroethane	1900	Not Detected	13000	Not Detected
Propylbenzene	1900	5600	9200	27000
4-Ethyltoluene	1900	1900	9200	9400
1,3,5-Trimethylbenzene	1900	Not Detected	9200	Not Detected
1,2,4-Trimethylbenzene	1900	2900	9200	14000
1,3-Dichlorobenzene	1900	Not Detected	11000	Not Detected
1,4-Dichlorobenzene	1900	180 J	11000	1100 J
alpha-Chlorotoluene	1900	Not Detected	9700	Not Detected
1,2-Dichlorobenzene	1900	Not Detected	11000	Not Detected
1,2,4-Trichlorobenzene	7500	Not Detected	56000	Not Detected
Hexachlorobutadiene	7500	Not Detected	80000	Not Detected
Butane	7500	510000	18000	1200000
Isopentane	7500	560000	22000	1700000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	87	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	117	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-6-39-041111

Lab ID#: 1104304A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041927**	**Date of Collection:**	**4/11/11 5:23:00 PM**
Dil. Factor:	**4470**	**Date of Analysis:**	**4/19/11 09:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2200	Not Detected	11000	Not Detected
Freon 114	2200	Not Detected	16000	Not Detected
Chloromethane	8900	Not Detected	18000	Not Detected
Vinyl Chloride	2200	Not Detected	5700	Not Detected
1,3-Butadiene	2200	Not Detected	4900	Not Detected
Bromomethane	2200	Not Detected	8700	Not Detected
Chloroethane	8900	Not Detected	24000	Not Detected
Freon 11	2200	Not Detected	12000	Not Detected
Ethanol	8900	Not Detected	17000	Not Detected
Freon 113	2200	Not Detected	17000	Not Detected
1,1-Dichloroethene	2200	Not Detected	8900	Not Detected
Acetone	8900	5000 J	21000	12000 J
2-Propanol	8900	3000 J	22000	7500 J
Carbon Disulfide	8900	1100 J	28000	3400 J
3-Chloropropene	8900	Not Detected	28000	Not Detected
Methylene Chloride	2200	1100 J	7800	3700 J
Methyl tert-butyl ether	2200	Not Detected	8000	Not Detected
trans-1,2-Dichloroethene	2200	Not Detected	8900	Not Detected
Hexane	2200	640000	7900	2300000
1,1-Dichloroethane	2200	Not Detected	9000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	8900	1200 J	26000	3600 J
cis-1,2-Dichloroethene	2200	Not Detected	8900	Not Detected
Tetrahydrofuran	2200	Not Detected	6600	Not Detected
Chloroform	2200	Not Detected	11000	Not Detected
1,1,1-Trichloroethane	2200	Not Detected	12000	Not Detected
Cyclohexane	2200	180000	7700	620000
Carbon Tetrachloride	2200	Not Detected	14000	Not Detected
2,2,4-Trimethylpentane	2200	480000	10000	2300000
Benzene	2200	4800	7100	16000
1,2-Dichloroethane	2200	Not Detected	9000	Not Detected
Heptane	2200	290000	9200	1200000
Trichloroethene	2200	Not Detected	12000	Not Detected
1,2-Dichloropropane	2200	Not Detected	10000	Not Detected
1,4-Dioxane	8900	Not Detected	32000	Not Detected
Bromodichloromethane	2200	Not Detected	15000	Not Detected
cis-1,3-Dichloropropene	2200	Not Detected	10000	Not Detected
4-Methyl-2-pentanone	2200	Not Detected	9200	Not Detected
Toluene	2200	600 J	8400	2300 J
trans-1,3-Dichloropropene	2200	Not Detected	10000	Not Detected
1,1,2-Trichloroethane	2200	Not Detected	12000	Not Detected
Tetrachloroethene	2200	Not Detected	15000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-6-39-041111

Lab ID#: 1104304A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041927**	**Date of Collection: 4/11/11 5:23:00 PM**	
Dil. Factor:	**4470**	**Date of Analysis: 4/19/11 09:49 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	8900	Not Detected	37000	Not Detected
Dibromochloromethane	2200	Not Detected	19000	Not Detected
1,2-Dibromoethane (EDB)	2200	Not Detected	17000	Not Detected
Chlorobenzene	2200	Not Detected	10000	Not Detected
Ethyl Benzene	2200	27000	9700	120000
m,p-Xylene	2200	9500	9700	41000
o-Xylene	2200	Not Detected	9700	Not Detected
Styrene	2200	610 J	9500	2600 J
Bromoform	2200	Not Detected	23000	Not Detected
Cumene	2200	2500	11000	12000
1,1,2,2-Tetrachloroethane	2200	Not Detected	15000	Not Detected
Propylbenzene	2200	6000	11000	30000
4-Ethyltoluene	2200	2900	11000	14000
1,3,5-Trimethylbenzene	2200	680 J	11000	3400 J
1,2,4-Trimethylbenzene	2200	4400	11000	21000
1,3-Dichlorobenzene	2200	Not Detected	13000	Not Detected
1,4-Dichlorobenzene	2200	Not Detected	13000	Not Detected
alpha-Chlorotoluene	2200	Not Detected	12000	Not Detected
1,2-Dichlorobenzene	2200	Not Detected	13000	Not Detected
1,2,4-Trichlorobenzene	8900	Not Detected	66000	Not Detected
Hexachlorobutadiene	8900	Not Detected	95000	Not Detected
Butane	8900	520000	21000	1200000
Isopentane	8900	580000	26000	1700000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	88	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	110	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-1-5-041211

Lab ID#: 1104304A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041921**	**Date of Collection:**	**4/12/11 12:47:00 PM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**4/19/11 06:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.40 J	6.5	2.0 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	0.22 J	7.4	1.2 J
Ethanol	5.3	Not Detected	9.9	Not Detected
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Acetone	5.3	4.8 J	12	12 J
2-Propanol	5.3	1.3 J	13	3.2 J
Carbon Disulfide	5.3	1.3 J	16	4.0 J
3-Chloropropene	5.3	Not Detected	16	Not Detected
Methylene Chloride	1.3	0.34 J	4.6	1.2 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	150	4.6	530
1,1-Dichloroethane	1.3	Not Detected	5.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.3	0.61 J	16	1.8 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	61	4.5	210
Carbon Tetrachloride	1.3	Not Detected	8.3	Not Detected
2,2,4-Trimethylpentane	1.3	320	6.2	1500
Benzene	1.3	190	4.2	600
1,2-Dichloroethane	1.3	Not Detected	5.3	Not Detected
Heptane	1.3	110	5.4	450
Trichloroethene	1.3	~~0.39 J~~ U	7.1	~~2.1 J~~ U
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	Not Detected	5.4	Not Detected
Toluene	1.3	0.62 J	5.0	2.4 J
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	0.30 J	9.0	2.0 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-1-5-041211

Lab ID#: 1104304A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041921**	**Date of Collection:**	**4/12/11 12:47:00 PM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**4/19/11 06:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.3	Not Detected	22	Not Detected
Dibromochloromethane	1.3	0.27 J	11	2.3 J
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	~~0.19 J~~ U	6.1	~~0.88 J~~ U
Ethyl Benzene	1.3	3.9	5.7	17
m,p-Xylene	1.3	1.3	5.7	5.6
o-Xylene	1.3	Not Detected	5.7	Not Detected
Styrene	1.3	Not Detected	5.6	Not Detected
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	0.38 J	6.5	1.9 J
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.1	Not Detected
Propylbenzene	1.3	0.78 J	6.5	3.8 J
4-Ethyltoluene	1.3	0.36 J	6.5	1.8 J
1,3,5-Trimethylbenzene	1.3	Not Detected	6.5	Not Detected
1,2,4-Trimethylbenzene	1.3	0.47 J	6.5	2.3 J
1,3-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
1,4-Dichlorobenzene	1.3	~~0.21 J~~ U	7.9	~~1.3 J~~ U
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	~~0.32 J~~ U	39	~~2.3 J~~ U
Hexachlorobutadiene	5.3	Not Detected	56	Not Detected
Butane	5.3	14	12	33
Isopentane	5.3	34	16	99

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	108	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-1-8.5-041211

Lab ID#: 1104304A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041922**	**Date of Collection:**	**4/12/11 2:45:00 PM**
Dil. Factor:	**3.48**	**Date of Analysis:**	**4/19/11 06:56 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.7	0.41 J	8.6	2.0 J
Freon 114	1.7	Not Detected	12	Not Detected
Chloromethane	7.0	Not Detected	14	Not Detected
Vinyl Chloride	1.7	Not Detected	4.4	Not Detected
1,3-Butadiene	1.7	Not Detected	3.8	Not Detected
Bromomethane	1.7	Not Detected	6.8	Not Detected
Chloroethane	7.0	Not Detected	18	Not Detected
Freon 11	1.7	0.21 J	9.8	1.2 J
Ethanol	7.0	~~2.9 J~~ U	13	~~5.4 J~~ U
Freon 113	1.7	Not Detected	13	Not Detected
1,1-Dichloroethene	1.7	Not Detected	6.9	Not Detected
Acetone	7.0	4.7 J	16	11 J
2-Propanol	7.0	Not Detected	17	Not Detected
Carbon Disulfide	7.0	0.70 J	22	2.2 J
3-Chloropropene	7.0	Not Detected	22	Not Detected
Methylene Chloride	1.7	Not Detected	6.0	Not Detected
Methyl tert-butyl ether	1.7	Not Detected	6.3	Not Detected
trans-1,2-Dichloroethene	1.7	Not Detected	6.9	Not Detected
Hexane	1.7	39	6.1	140
1,1-Dichloroethane	1.7	Not Detected	7.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7.0	Not Detected	20	Not Detected
cis-1,2-Dichloroethene	1.7	Not Detected	6.9	Not Detected
Tetrahydrofuran	1.7	Not Detected	5.1	Not Detected
Chloroform	1.7	Not Detected	8.5	Not Detected
1,1,1-Trichloroethane	1.7	Not Detected	9.5	Not Detected
Cyclohexane	1.7	20	6.0	67
Carbon Tetrachloride	1.7	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	1.7	410	8.1	1900
Benzene	1.7	98	5.6	310
1,2-Dichloroethane	1.7	0.29 J	7.0	1.2 J
Heptane	1.7	42	7.1	170
Trichloroethene	1.7	0.90 J	9.4	4.8 J
1,2-Dichloropropane	1.7	Not Detected	8.0	Not Detected
1,4-Dioxane	7.0	Not Detected	25	Not Detected
Bromodichloromethane	1.7	Not Detected	12	Not Detected
cis-1,3-Dichloropropene	1.7	Not Detected	7.9	Not Detected
4-Methyl-2-pentanone	1.7	Not Detected	7.1	Not Detected
Toluene	1.7	0.60 J	6.6	2.2 J
trans-1,3-Dichloropropene	1.7	Not Detected	7.9	Not Detected
1,1,2-Trichloroethane	1.7	Not Detected	9.5	Not Detected
Tetrachloroethene	1.7	0.14 J	12	0.97 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-1-8.5-041211

Lab ID#: 1104304A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041922**	**Date of Collection: 4/12/11 2:45:00 PM**	
Dil. Factor:	**3.48**	**Date of Analysis: 4/19/11 06:56 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	7.0	Not Detected	28	Not Detected
Dibromochloromethane	1.7	Not Detected	15	Not Detected
1,2-Dibromoethane (EDB)	1.7	Not Detected	13	Not Detected
Chlorobenzene	1.7	~~0.24 J~~ U	8.0	~~1.1 J~~ U
Ethyl Benzene	1.7	2.3	7.6	10
m,p-Xylene	1.7	1.1 J	7.6	4.7 J
o-Xylene	1.7	Not Detected	7.6	Not Detected
Styrene	1.7	Not Detected	7.4	Not Detected
Bromoform	1.7	Not Detected	18	Not Detected
Cumene	1.7	0.26 J	8.6	1.3 J
1,1,2,2-Tetrachloroethane	1.7	Not Detected	12	Not Detected
Propylbenzene	1.7	0.51 J	8.6	2.5 J
4-Ethyltoluene	1.7	0.48 J	8.6	2.3 J
1,3,5-Trimethylbenzene	1.7	Not Detected	8.6	Not Detected
1,2,4-Trimethylbenzene	1.7	0.51 J	8.6	2.5 J
1,3-Dichlorobenzene	1.7	Not Detected	10	Not Detected
1,4-Dichlorobenzene	1.7	~~0.15 J~~ U	10	~~0.91 J~~ U
alpha-Chlorotoluene	1.7	Not Detected	9.0	Not Detected
1,2-Dichlorobenzene	1.7	Not Detected	10	Not Detected
1,2,4-Trichlorobenzene	7.0	~~0.35 J~~ U	52	~~2.6 J~~ U
Hexachlorobutadiene	7.0	Not Detected	74	Not Detected
Butane	7.0	11	16	26
Isopentane	7.0	16	20	46

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	89	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	108	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-1-23.5-041211

Lab ID#: 1104304A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6042023**	**Date of Collection:**	**4/12/11 4:21:00 PM**
Dil. Factor:	**3800**	**Date of Analysis:**	**4/20/11 08:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1900	Not Detected	9400	Not Detected
Freon 114	1900	Not Detected	13000	Not Detected
Chloromethane	7600	Not Detected	16000	Not Detected
Vinyl Chloride	1900	Not Detected	4800	Not Detected
1,3-Butadiene	1900	Not Detected	4200	Not Detected
Bromomethane	1900	Not Detected	7400	Not Detected
Chloroethane	7600	1600 J	20000	4400 J
Freon 11	1900	Not Detected	11000	Not Detected
Ethanol	7600	2600 J	14000	4900 J
Freon 113	1900	Not Detected	14000	Not Detected
1,1-Dichloroethene	1900	Not Detected	7500	Not Detected
Acetone	7600	4100 J	18000	9800 J
2-Propanol	7600	4800 J	19000	12000 J
Carbon Disulfide	7600	1600 J	24000	5100 J
3-Chloropropene	7600	Not Detected	24000	Not Detected
Methylene Chloride	1900	760 J	6600	2600 J
Methyl tert-butyl ether	1900	Not Detected	6800	Not Detected
trans-1,2-Dichloroethene	1900	Not Detected	7500	Not Detected
Hexane	1900	2800	6700	9700
1,1-Dichloroethane	1900	Not Detected	7700	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7600	Not Detected	22000	Not Detected
cis-1,2-Dichloroethene	1900	Not Detected	7500	Not Detected
Tetrahydrofuran	1900	Not Detected	5600	Not Detected
Chloroform	1900	Not Detected	9300	Not Detected
1,1,1-Trichloroethane	1900	Not Detected	10000	Not Detected
Cyclohexane	1900	930 J	6500	3200 J
Carbon Tetrachloride	1900	Not Detected	12000	Not Detected
2,2,4-Trimethylpentane	1900	23000 J	8900	110000 J
Benzene	1900	Not Detected	6100	Not Detected
1,2-Dichloroethane	1900	Not Detected	7700	Not Detected
Heptane	1900	1000 J	7800	4200 J
Trichloroethene	1900	2100	10000	11000
1,2-Dichloropropane	1900	Not Detected	8800	Not Detected
1,4-Dioxane	7600	Not Detected	27000	Not Detected
Bromodichloromethane	1900	Not Detected	13000	Not Detected
cis-1,3-Dichloropropene	1900	Not Detected	8600	Not Detected
4-Methyl-2-pentanone	1900	Not Detected	7800	Not Detected
Toluene	1900	510 J	7200	1900 J
trans-1,3-Dichloropropene	1900	Not Detected	8600	Not Detected
1,1,2-Trichloroethane	1900	Not Detected	10000	Not Detected
Tetrachloroethene	1900	Not Detected	13000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-1-23.5-041211

Lab ID#: 1104304A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6042023**	**Date of Collection:**	**4/12/11 4:21:00 PM**
Dil. Factor:	**3800**	**Date of Analysis:**	**4/20/11 08:39 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	7600	Not Detected	31000	Not Detected
Dibromochloromethane	1900	Not Detected	16000	Not Detected
1,2-Dibromoethane (EDB)	1900	Not Detected	15000	Not Detected
Chlorobenzene	1900	Not Detected	8700	Not Detected
Ethyl Benzene	1900	210 J	8200	930 J
m,p-Xylene	1900	Not Detected	8200	Not Detected
o-Xylene	1900	Not Detected	8200	Not Detected
Styrene	1900	Not Detected	8100	Not Detected
Bromoform	1900	Not Detected	20000	Not Detected
Cumene	1900	Not Detected	9300	Not Detected
1,1,2,2-Tetrachloroethane	1900	Not Detected	13000	Not Detected
Propylbenzene	1900	Not Detected	9300	Not Detected
4-Ethyltoluene	1900	Not Detected	9300	Not Detected
1,3,5-Trimethylbenzene	1900	Not Detected	9300	Not Detected
1,2,4-Trimethylbenzene	1900	Not Detected	9300	Not Detected
1,3-Dichlorobenzene	1900	Not Detected	11000	Not Detected
1,4-Dichlorobenzene	1900	Not Detected	11000	Not Detected
alpha-Chlorotoluene	1900	Not Detected	9800	Not Detected
1,2-Dichlorobenzene	1900	Not Detected	11000	Not Detected
1,2,4-Trichlorobenzene	7600	Not Detected	56000	Not Detected
Hexachlorobutadiene	7600	Not Detected	81000	Not Detected
Butane	7600	560000	18000	1300000
Isopentane	7600	310000 J	22000	900000 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	119	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-1-23.5-041211-Dup

Lab ID#: 1104304A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041930**	**Date of Collection:**	**4/12/11 10:55:00 AM**
Dil. Factor:	**4800**	**Date of Analysis:**	**4/19/11 11:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2400	Not Detected	12000	Not Detected
Freon 114	2400	Not Detected	17000	Not Detected
Chloromethane	9600	Not Detected	20000	Not Detected
Vinyl Chloride	2400	Not Detected	6100	Not Detected
1,3-Butadiene	2400	Not Detected	5300	Not Detected
Bromomethane	2400	Not Detected	9300	Not Detected
Chloroethane	9600	Not Detected	25000	Not Detected
Freon 11	2400	Not Detected	13000	Not Detected
Ethanol	9600	Not Detected	18000	Not Detected
Freon 113	2400	Not Detected	18000	Not Detected
1,1-Dichloroethene	2400	Not Detected	9500	Not Detected
Acetone	9600	3400 J	23000	8000 J
2-Propanol	9600	3300 J	24000	8100 J
Carbon Disulfide	9600	1300 J	30000	4200 J
3-Chloropropene	9600	Not Detected	30000	Not Detected
Methylene Chloride	2400	440 J	8300	1500 J
Methyl tert-butyl ether	2400	Not Detected	8600	Not Detected
trans-1,2-Dichloroethene	2400	Not Detected	9500	Not Detected
Hexane	2400	3900	8400	14000
1,1-Dichloroethane	2400	Not Detected	9700	Not Detected
2-Butanone (Methyl Ethyl Ketone)	9600	Not Detected	28000	Not Detected
cis-1,2-Dichloroethene	2400	Not Detected	9500	Not Detected
Tetrahydrofuran	2400	Not Detected	7100	Not Detected
Chloroform	2400	Not Detected	12000	Not Detected
1,1,1-Trichloroethane	2400	Not Detected	13000	Not Detected
Cyclohexane	2400	1500 J	8300	5300 J
Carbon Tetrachloride	2400	Not Detected	15000	Not Detected
2,2,4-Trimethylpentane	2400	32000 J	11000	150000 J
Benzene	2400	Not Detected	7700	Not Detected
1,2-Dichloroethane	2400	Not Detected	9700	Not Detected
Heptane	2400	1700 J	9800	6800 J
Trichloroethene	2400	410 J	13000	2200 J
1,2-Dichloropropane	2400	Not Detected	11000	Not Detected
1,4-Dioxane	9600	Not Detected	34000	Not Detected
Bromodichloromethane	2400	Not Detected	16000	Not Detected
cis-1,3-Dichloropropene	2400	Not Detected	11000	Not Detected
4-Methyl-2-pentanone	2400	Not Detected	9800	Not Detected
Toluene	2400	Not Detected	9000	Not Detected
trans-1,3-Dichloropropene	2400	Not Detected	11000	Not Detected
1,1,2-Trichloroethane	2400	Not Detected	13000	Not Detected
Tetrachloroethene	2400	Not Detected	16000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-1-23.5-041211-Dup

Lab ID#: 1104304A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041930**	**Date of Collection:**	**4/12/11 10:55:00 AM**
Dil. Factor:	**4800**	**Date of Analysis:**	**4/19/11 11:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	9600	Not Detected	39000	Not Detected
Dibromochloromethane	2400	Not Detected	20000	Not Detected
1,2-Dibromoethane (EDB)	2400	Not Detected	18000	Not Detected
Chlorobenzene	2400	Not Detected	11000	Not Detected
Ethyl Benzene	2400	300 J	10000	1300 J
m,p-Xylene	2400	Not Detected	10000	Not Detected
o-Xylene	2400	Not Detected	10000	Not Detected
Styrene	2400	Not Detected	10000	Not Detected
Bromoform	2400	Not Detected	25000	Not Detected
Cumene	2400	Not Detected	12000	Not Detected
1,1,2,2-Tetrachloroethane	2400	Not Detected	16000	Not Detected
Propylbenzene	2400	Not Detected	12000	Not Detected
4-Ethyltoluene	2400	Not Detected	12000	Not Detected
1,3,5-Trimethylbenzene	2400	Not Detected	12000	Not Detected
1,2,4-Trimethylbenzene	2400	Not Detected	12000	Not Detected
1,3-Dichlorobenzene	2400	Not Detected	14000	Not Detected
1,4-Dichlorobenzene	2400	Not Detected	14000	Not Detected
alpha-Chlorotoluene	2400	Not Detected	12000	Not Detected
1,2-Dichlorobenzene	2400	Not Detected	14000	Not Detected
1,2,4-Trichlorobenzene	9600	Not Detected	71000	Not Detected
Hexachlorobutadiene	9600	Not Detected	100000	Not Detected
Butane	9600	710000	23000	1700000
Isopentane	9600	430000 J	28000	1300000 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	83	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	118	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-2-5-041311

Lab ID#: 1104304A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041924**	**Date of Collection:**	**4/13/11 10:29:00 AM**
Dil. Factor:	**2.78**	**Date of Analysis:**	**4/19/11 08:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	0.45 J	6.9	2.2 J
Freon 114	1.4	Not Detected	9.7	Not Detected
Chloromethane	5.6	Not Detected	11	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	5.4	Not Detected
Chloroethane	5.6	Not Detected	15	Not Detected
Freon 11	1.4	0.26 J	7.8	1.5 J
Ethanol	5.6	3.8 J	10	7.1 J
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Acetone	5.6	5.1 J	13	12 J
2-Propanol	5.6	Not Detected	14	Not Detected
Carbon Disulfide	5.6	1.2 J	17	3.8 J
3-Chloropropene	5.6	Not Detected	17	Not Detected
Methylene Chloride	1.4	0.24 J	4.8	0.83 J
Methyl tert-butyl ether	1.4	0.13 J	5.0	0.46 J
trans-1,2-Dichloroethene	1.4	Not Detected	5.5	Not Detected
Hexane	1.4	24	4.9	87
1,1-Dichloroethane	1.4	Not Detected	5.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.6	Not Detected	16	Not Detected
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	6.8	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.6	Not Detected
Cyclohexane	1.4	13	4.8	44
Carbon Tetrachloride	1.4	Not Detected	8.7	Not Detected
2,2,4-Trimethylpentane	1.4	230	6.5	1100
Benzene	1.4	100	4.4	330
1,2-Dichloroethane	1.4	Not Detected	5.6	Not Detected
Heptane	1.4	32	5.7	130
Trichloroethene	1.4	0.77 J	7.5	4.2 J
1,2-Dichloropropane	1.4	Not Detected	6.4	Not Detected
1,4-Dioxane	5.6	Not Detected	20	Not Detected
Bromodichloromethane	1.4	Not Detected	9.3	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
4-Methyl-2-pentanone	1.4	Not Detected	5.7	Not Detected
Toluene	1.4	1.2 J	5.2	4.6 J
trans-1,3-Dichloropropene	1.4	Not Detected	6.3	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.6	Not Detected
Tetrachloroethene	1.4	0.63 J	9.4	4.2 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-2-5-041311

Lab ID#: 1104304A-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041924**	**Date of Collection:**	**4/13/11 10:29:00 AM**
Dil. Factor:	**2.78**	**Date of Analysis:**	**4/19/11 08:34 PM**

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	Not Detected	11	Not Detected
Chlorobenzene	1.4	~~0.25 J~~ U	6.4	~~1.1 J~~ U
Ethyl Benzene	1.4	2.2	6.0	9.6
m,p-Xylene	1.4	0.87 J	6.0	3.8 J
o-Xylene	1.4	Not Detected	6.0	Not Detected
Styrene	1.4	Not Detected	5.9	Not Detected
Bromoform	1.4	Not Detected	14	Not Detected
Cumene	1.4	0.26 J	6.8	1.3 J
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.5	Not Detected
Propylbenzene	1.4	0.44 J	6.8	2.2 J
4-Ethyltoluene	1.4	0.22 J	6.8	1.1 J
1,3,5-Trimethylbenzene	1.4	Not Detected	6.8	Not Detected
1,2,4-Trimethylbenzene	1.4	0.45 J	6.8	2.2 J
1,3-Dichlorobenzene	1.4	Not Detected	8.4	Not Detected
1,4-Dichlorobenzene	1.4	~~0.18 J~~ U	8.4	~~0.99 J~~ U
alpha-Chlorotoluene	1.4	Not Detected	7.2	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.4	Not Detected
1,2,4-Trichlorobenzene	5.6	Not Detected	41	Not Detected
Hexachlorobutadiene	5.6	Not Detected	59	Not Detected
Butane	5.6	43	13	100
Isopentane	5.6	34	16	100

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	108	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-21-5-041311

Lab ID#: 1104304A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041923**	**Date of Collection:**	**4/13/11 11:33:00 AM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**4/19/11 07:33 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	0.50 J	6.5	2.5 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	0.21 J	7.4	1.2 J
Ethanol	5.3	~~3.4 J~~ U	9.9	~~5.8 J~~ U
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.2	Not Detected
Acetone	5.3	3.9 J	12	9.2 J
2-Propanol	5.3	Not Detected	13	Not Detected
Carbon Disulfide	5.3	2.0 J	16	6.4 J
3-Chloropropene	5.3	Not Detected	16	Not Detected
Methylene Chloride	1.3	0.22 J	4.6	0.76 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	400	4.6	1400
1,1-Dichloroethane	1.3	Not Detected	5.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.3	0.70 J	16	2.1 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	120	4.5	400
Carbon Tetrachloride	1.3	Not Detected	8.3	Not Detected
2,2,4-Trimethylpentane	1.3	340	6.2	1600
Benzene	1.3	260	4.2	840
1,2-Dichloroethane	1.3	Not Detected	5.3	Not Detected
Heptane	1.3	150	5.4	630
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	Not Detected	5.4	Not Detected
Toluene	1.3	0.72 J	5.0	2.7 J
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	1.7	9.0	11

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-21-5-041311

Lab ID#: 1104304A-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041923**	**Date of Collection:**	**4/13/11 11:33:00 AM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**4/19/11 07:33 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	5.3	Not Detected	22	Not Detected
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	~~0.16 J~~ U	6.1	~~0.76 J~~ U
Ethyl Benzene	1.3	2.3	5.7	9.9
m,p-Xylene	1.3	0.80 J	5.7	3.5 J
o-Xylene	1.3	Not Detected	5.7	Not Detected
Styrene	1.3	Not Detected	5.6	Not Detected
Bromoform	1.3	Not Detected	14	Not Detected
Cumene	1.3	0.28 J	6.5	1.4 J
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.1	Not Detected
Propylbenzene	1.3	0.33 J	6.5	1.6 J
4-Ethyltoluene	1.3	0.28 J	6.5	1.4 J
1,3,5-Trimethylbenzene	1.3	Not Detected	6.5	Not Detected
1,2,4-Trimethylbenzene	1.3	0.28 J	6.5	1.4 J
1,3-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
1,4-Dichlorobenzene	1.3	~~0.11 J~~ U	7.9	~~0.68 J~~ U
alpha-Chlorotoluene	1.3	0.19 J	6.8	1.0 J
1,2-Dichlorobenzene	1.3	Not Detected	7.9	Not Detected
1,2,4-Trichlorobenzene	5.3	~~0.34 J~~ U	39	~~2.5 J~~ U
Hexachlorobutadiene	5.3	Not Detected	56	Not Detected
Butane	5.3	170	12	410
Isopentane	5.3	250	16	740

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	89	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-21-10-041311

Lab ID#: 1104304A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6042024**	**Date of Collection: 4/13/11**	
Dil. Factor:	**106**	**Date of Analysis: 4/20/11 09:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	53	Not Detected	260	Not Detected
Freon 114	53	Not Detected	370	Not Detected
Chloromethane	210	Not Detected	440	Not Detected
Vinyl Chloride	53	Not Detected	140	Not Detected
1,3-Butadiene	53	Not Detected	120	Not Detected
Bromomethane	53	Not Detected	200	Not Detected
Chloroethane	210	Not Detected	560	Not Detected
Freon 11	53	Not Detected	300	Not Detected
Ethanol	210	Not Detected	400	Not Detected
Freon 113	53	Not Detected	410	Not Detected
1,1-Dichloroethene	53	Not Detected	210	Not Detected
Acetone	210	58 J	500	140 J
2-Propanol	210	65 J	520	160 J
Carbon Disulfide	210	21 J	660	65 J
3-Chloropropene	210	Not Detected	660	Not Detected
Methylene Chloride	53	21 J	180	72 J
Methyl tert-butyl ether	53	Not Detected	190	Not Detected
trans-1,2-Dichloroethene	53	Not Detected	210	Not Detected
Hexane	53	46 J	190	160 J
1,1-Dichloroethane	53	Not Detected	210	Not Detected
2-Butanone (Methyl Ethyl Ketone)	210	15 J	620	46 J
cis-1,2-Dichloroethene	53	Not Detected	210	Not Detected
Tetrahydrofuran	53	Not Detected	160	Not Detected
Chloroform	53	Not Detected	260	Not Detected
1,1,1-Trichloroethane	53	Not Detected	290	Not Detected
Cyclohexane	53	150	180	500
Carbon Tetrachloride	53	Not Detected	330	Not Detected
2,2,4-Trimethylpentane	53	9100	250	42000
Benzene	53	20 J	170	66 J
1,2-Dichloroethane	53	Not Detected	210	Not Detected
Heptane	53	Not Detected	220	Not Detected
Trichloroethene	53	32 J	280	170 J
1,2-Dichloropropane	53	Not Detected	240	Not Detected
1,4-Dioxane	210	Not Detected	760	Not Detected
Bromodichloromethane	53	Not Detected	360	Not Detected
cis-1,3-Dichloropropene	53	Not Detected	240	Not Detected
4-Methyl-2-pentanone	53	Not Detected	220	Not Detected
Toluene	53	Not Detected	200	Not Detected
trans-1,3-Dichloropropene	53	Not Detected	240	Not Detected
1,1,2-Trichloroethane	53	Not Detected	290	Not Detected
Tetrachloroethene	53	Not Detected	360	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-21-10-041311

Lab ID#: 1104304A-12A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6042024**	**Date of Collection: 4/13/11**	
Dil. Factor:	**106**	**Date of Analysis: 4/20/11 09:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	210	Not Detected	870	Not Detected
Dibromochloromethane	53	Not Detected	450	Not Detected
1,2-Dibromoethane (EDB)	53	Not Detected	410	Not Detected
Chlorobenzene	53	Not Detected	240	Not Detected
Ethyl Benzene	53	Not Detected	230	Not Detected
m,p-Xylene	53	Not Detected	230	Not Detected
o-Xylene	53	Not Detected	230	Not Detected
Styrene	53	12 J	220	51 J
Bromoform	53	Not Detected	550	Not Detected
Cumene	53	Not Detected	260	Not Detected
1,1,2,2-Tetrachloroethane	53	Not Detected	360	Not Detected
Propylbenzene	53	Not Detected	260	Not Detected
4-Ethyltoluene	53	Not Detected	260	Not Detected
1,3,5-Trimethylbenzene	53	Not Detected	260	Not Detected
1,2,4-Trimethylbenzene	53	Not Detected	260	Not Detected
1,3-Dichlorobenzene	53	Not Detected	320	Not Detected
1,4-Dichlorobenzene	53	Not Detected	320	Not Detected
alpha-Chlorotoluene	53	Not Detected	270	Not Detected
1,2-Dichlorobenzene	53	Not Detected	320	Not Detected
1,2,4-Trichlorobenzene	210	Not Detected	1600	Not Detected
Hexachlorobutadiene	210	Not Detected	2300	Not Detected
Butane	210	3200	500	7600
Isopentane	210	17000	620	50000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	89	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	117	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104304A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041911c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/19/11 12:46 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	0.75 J	3.8	1.4 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	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	0.10 J	2.0	0.41 J
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	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	0.093 J	2.3	0.42 J
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104304A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041911c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/19/11 12:46 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	0.058 J	2.3	0.27 J
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	0.10 J	2.2	0.45 J
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	0.078 J	3.0	0.47 J
1,4-Dichlorobenzene	0.50	0.12 J	3.0	0.72 J
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	0.084 J	3.0	0.50 J
1,2,4-Trichlorobenzene	2.0	0.39 J	15	2.9 J
Hexachlorobutadiene	2.0	0.22 J	21	2.3 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	84	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104304A-13B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6042006a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/11 09:42 AM**	

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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104304A-13B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6042006a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/11 09:42 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	82	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104304A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/19/11 09:20 AM**	

Compound	%Recovery
Freon 12	78
Freon 114	96
Chloromethane	89
Vinyl Chloride	81
1,3-Butadiene	87
Bromomethane	89
Chloroethane	75
Freon 11	88
Ethanol	84
Freon 113	97
1,1-Dichloroethene	87
Acetone	82
2-Propanol	91
Carbon Disulfide	78
3-Chloropropene	78
Methylene Chloride	91
Methyl tert-butyl ether	82
trans-1,2-Dichloroethene	87
Hexane	94
1,1-Dichloroethane	86
2-Butanone (Methyl Ethyl Ketone)	77
cis-1,2-Dichloroethene	90
Tetrahydrofuran	91
Chloroform	80
1,1,1-Trichloroethane	89
Cyclohexane	80
Carbon Tetrachloride	97
2,2,4-Trimethylpentane	89
Benzene	76
1,2-Dichloroethane	93
Heptane	84
Trichloroethene	84
1,2-Dichloropropane	80
1,4-Dioxane	77
Bromodichloromethane	83
cis-1,3-Dichloropropene	82
4-Methyl-2-pentanone	84
Toluene	83
trans-1,3-Dichloropropene	87
1,1,2-Trichloroethane	89
Tetrachloroethene	102

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104304A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/19/11 09:20 AM**	

Compound	%Recovery
2-Hexanone	85
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	93
Chlorobenzene	97
Ethyl Benzene	93
m,p-Xylene	92
o-Xylene	91
Styrene	92
Bromoform	105
Cumene	98
1,1,2,2-Tetrachloroethane	76
Propylbenzene	93
4-Ethyltoluene	107
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	117
Hexachlorobutadiene	122
Butane	91
Isopentane	82

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	91	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	115	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104304A-14B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6042002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/11 06:51 AM**	

Compound	%Recovery
Freon 12	78
Freon 114	98
Chloromethane	90
Vinyl Chloride	85
1,3-Butadiene	88
Bromomethane	92
Chloroethane	82
Freon 11	85
Ethanol	91
Freon 113	98
1,1-Dichloroethene	90
Acetone	88
2-Propanol	88
Carbon Disulfide	79
3-Chloropropene	85
Methylene Chloride	90
Methyl tert-butyl ether	82
trans-1,2-Dichloroethene	91
Hexane	94
1,1-Dichloroethane	87
2-Butanone (Methyl Ethyl Ketone)	77
cis-1,2-Dichloroethene	92
Tetrahydrofuran	92
Chloroform	80
1,1,1-Trichloroethane	89
Cyclohexane	82
Carbon Tetrachloride	97
2,2,4-Trimethylpentane	92
Benzene	78
1,2-Dichloroethane	90
Heptane	86
Trichloroethene	85
1,2-Dichloropropane	83
1,4-Dioxane	76
Bromodichloromethane	83
cis-1,3-Dichloropropene	83
4-Methyl-2-pentanone	86
Toluene	83
trans-1,3-Dichloropropene	86
1,1,2-Trichloroethane	88
Tetrachloroethene	105

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104304A-14B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6042002**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/11 06:51 AM**	

Compound	%Recovery
2-Hexanone	93
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	94
Chlorobenzene	97
Ethyl Benzene	92
m,p-Xylene	92
o-Xylene	93
Styrene	94
Bromoform	107
Cumene	96
1,1,2,2-Tetrachloroethane	76
Propylbenzene	92
4-Ethyltoluene	98
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	110
Hexachlorobutadiene	120
Butane	99
Isopentane	90

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	86	70-130
1,2-Dichloroethane-d4	89	70-130
4-Bromofluorobenzene	113	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104304A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/19/11 10:01 AM**	

Compound	%Recovery
Freon 12	87
Freon 114	108
Chloromethane	90
Vinyl Chloride	93
1,3-Butadiene	97
Bromomethane	98
Chloroethane	95
Freon 11	97
Ethanol	97
Freon 113	107
1,1-Dichloroethene	105
Acetone	94
2-Propanol	100
Carbon Disulfide	110
3-Chloropropene	97
Methylene Chloride	101
Methyl tert-butyl ether	93
trans-1,2-Dichloroethene	117
Hexane	102
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	86
cis-1,2-Dichloroethene	103
Tetrahydrofuran	95
Chloroform	89
1,1,1-Trichloroethane	99
Cyclohexane	84
Carbon Tetrachloride	107
2,2,4-Trimethylpentane	97
Benzene	84
1,2-Dichloroethane	98
Heptane	86
Trichloroethene	89
1,2-Dichloropropane	84
1,4-Dioxane	75
Bromodichloromethane	88
cis-1,3-Dichloropropene	86
4-Methyl-2-pentanone	86
Toluene	82
trans-1,3-Dichloropropene	91
1,1,2-Trichloroethane	88
Tetrachloroethene	105

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104304A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/19/11 10:01 AM**	

Compound	%Recovery
2-Hexanone	86
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	96
Chlorobenzene	96
Ethyl Benzene	90
m,p-Xylene	95
o-Xylene	91
Styrene	91
Bromoform	106
Cumene	98
1,1,2,2-Tetrachloroethane	78
Propylbenzene	92
4-Ethyltoluene	95
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	101
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	115
Butane	98
Isopentane	97

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	91	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	107	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104304A-15AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041907**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/19/11 10:20 AM**	

Compound	%Recovery
Freon 12	86
Freon 114	108
Chloromethane	92
Vinyl Chloride	95
1,3-Butadiene	97
Bromomethane	99
Chloroethane	95
Freon 11	91
Ethanol	97
Freon 113	108
1,1-Dichloroethene	105
Acetone	90
2-Propanol	97
Carbon Disulfide	103
3-Chloropropene	107
Methylene Chloride	94
Methyl tert-butyl ether	91
trans-1,2-Dichloroethene	110
Hexane	100
1,1-Dichloroethane	94
2-Butanone (Methyl Ethyl Ketone)	81
cis-1,2-Dichloroethene	98
Tetrahydrofuran	92
Chloroform	86
1,1,1-Trichloroethane	96
Cyclohexane	86
Carbon Tetrachloride	103
2,2,4-Trimethylpentane	96
Benzene	80
1,2-Dichloroethane	91
Heptane	90
Trichloroethene	85
1,2-Dichloropropane	81
1,4-Dioxane	71
Bromodichloromethane	84
cis-1,3-Dichloropropene	84
4-Methyl-2-pentanone	85
Toluene	86
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	91
Tetrachloroethene	106

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104304A-15AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6041907**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/19/11 10:20 AM**	

Compound	%Recovery
2-Hexanone	93
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	95
Chlorobenzene	100
Ethyl Benzene	91
m,p-Xylene	96
o-Xylene	94
Styrene	95
Bromoform	107
Cumene	101
1,1,2,2-Tetrachloroethane	78
Propylbenzene	96
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	105
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	107
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	104
1,2-Dichlorobenzene	103
1,2,4-Trichlorobenzene	126
Hexachlorobutadiene	122
Butane	97
Isopentane	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	88	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	111	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104304A-15B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6042003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/11 07:20 AM**	

Compound	%Recovery
Freon 12	83
Freon 114	102
Chloromethane	88
Vinyl Chloride	96
1,3-Butadiene	98
Bromomethane	97
Chloroethane	86
Freon 11	88
Ethanol	90
Freon 113	102
1,1-Dichloroethene	109
Acetone	98
2-Propanol	97
Carbon Disulfide	104
3-Chloropropene	105
Methylene Chloride	91
Methyl tert-butyl ether	89
trans-1,2-Dichloroethene	110
Hexane	104
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	79
cis-1,2-Dichloroethene	100
Tetrahydrofuran	91
Chloroform	84
1,1,1-Trichloroethane	94
Cyclohexane	83
Carbon Tetrachloride	99
2,2,4-Trimethylpentane	95
Benzene	82
1,2-Dichloroethane	92
Heptane	88
Trichloroethene	87
1,2-Dichloropropane	84
1,4-Dioxane	73
Bromodichloromethane	85
cis-1,3-Dichloropropene	84
4-Methyl-2-pentanone	85
Toluene	83
trans-1,3-Dichloropropene	91
1,1,2-Trichloroethane	89
Tetrachloroethene	105

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104304A-15B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6042003**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/11 07:20 AM**	

Compound	%Recovery
2-Hexanone	88
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	92
Chlorobenzene	99
Ethyl Benzene	92
m,p-Xylene	95
o-Xylene	90
Styrene	91
Bromoform	104
Cumene	97
1,1,2,2-Tetrachloroethane	77
Propylbenzene	93
4-Ethyltoluene	94
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	99
1,3-Dichlorobenzene	103
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	98
Hexachlorobutadiene	115
Butane	100
Isopentane	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	87	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104304A-15BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6042004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/11 07:39 AM**	

Compound	%Recovery
Freon 12	77
Freon 114	99
Chloromethane	82
Vinyl Chloride	90
1,3-Butadiene	88
Bromomethane	91
Chloroethane	82
Freon 11	83
Ethanol	90
Freon 113	98
1,1-Dichloroethene	98
Acetone	88
2-Propanol	86
Carbon Disulfide	101
3-Chloropropene	91
Methylene Chloride	84
Methyl tert-butyl ether	84
trans-1,2-Dichloroethene	106
Hexane	94
1,1-Dichloroethane	87
2-Butanone (Methyl Ethyl Ketone)	78
cis-1,2-Dichloroethene	95
Tetrahydrofuran	87
Chloroform	79
1,1,1-Trichloroethane	89
Cyclohexane	82
Carbon Tetrachloride	91
2,2,4-Trimethylpentane	90
Benzene	81
1,2-Dichloroethane	91
Heptane	85
Trichloroethene	86
1,2-Dichloropropane	86
1,4-Dioxane	75
Bromodichloromethane	84
cis-1,3-Dichloropropene	82
4-Methyl-2-pentanone	86
Toluene	82
trans-1,3-Dichloropropene	90
1,1,2-Trichloroethane	87
Tetrachloroethene	106

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104304A-15BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**6042004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/20/11 07:39 AM**	

Compound	%Recovery
2-Hexanone	85
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	95
Chlorobenzene	99
Ethyl Benzene	92
m,p-Xylene	93
o-Xylene	92
Styrene	91
Bromoform	102
Cumene	98
1,1,2,2-Tetrachloroethane	77
Propylbenzene	93
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	103
1,2,4-Trimethylbenzene	103
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	99
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	112
Hexachlorobutadiene	121
Butane	91
Isopentane	90

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	86	70-130
4-Bromofluorobenzene	109	70-130

110804

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Thomas Adams
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 04/13/11
PAGE: 1 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
G-CAAL D NO:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME#: Roxana Dissolved Phase
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
DV To Contact E-MAIL: Thomas_Adams@URSCorp.com
SAMPLER NAME(S) (Print): M. Miller, E. Arthur, W. Buchman, C. Kretzer

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ IA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time:
☑ Normal
☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N2 He

Lab Use Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946				
01A	VMP-24-10-041111	04/11/11	1004 - 1036	691	-29	-6			X	X					
02A	VMP-24-22-041111	04/11/11	1116 - 1147	1548	-29.5	-6			X	X					
03A	VMP-24-34-041111	04/11/11	1228 - 1257	3663	-29	-5			X	X					
04A	VMP-6-31.5-041111	04/11/11	1529 - 1601	212	-30	-8			X	X					
05A	VMP-6-39-041111	04/11/11	1564 - 172	3962	-28.5	-6			X	X					
06A	VMP-1-5-041211	04/12/11	1216 - 1247	2550	-29.5	-6			X	X					
07A	VMP-1-8.5-041211	04/12/11	1415 - 1446	3723	-30	-6.5			X	X					
08A	VMP-1-23.5-041211	04/12/11	1545 - 1621	3742	-29	-5.5			X	X					
09A	VMP-1-23.5-041211-Dup	04/12/11	1545 - 1621	1999	-30	-4			X	X					
10A	VMP-2-5-041311	04/13/11	1017 - 1056	3134	-29.5	-6			X	X					

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

FEDEX
CUSTODY SEAL INTACT? Y N NONE TEMP NA

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FEDEX	4/13/11	1700
	AFL	4/14/11	0930

05/2/06 Revision

1104804

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CN ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Thomas Adams
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 04/13/11
PAGE: 2 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth.Kunkel@URSCorp.com
CONSULTANT PROJECT MANAGER: Roxana Dissolved Phase
LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
BILL TO CONTACT E-MAIL: Thomas.Adams@URSCorp.com
SAMPLER NAME(S) (Print): M. Miller, E. Arthur, W. Buchman, C. Kretzer

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 7 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum: Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
1	VMP-21-5-041311	04/13/11	0959 - 1029	3514	-30	-7.5			X	X	
2	VMP-21-10-041311	04/13/11	1102 - 1133	3077	-29.5	-7.5			X	X	

Turn Around Time: ☑ Normal ☐ Rush Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 04/13/11	Time: 1700
Relinquished by: (Signature)	Received by: (Signature)	Date: 4/14/11	Time: 0930
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

06/2/06 Revision

Air Toxics LTD.
Laboratory Services Since 1989

4/21/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562593.00008
Workorder #: 1104304B

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/14/2011 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 6/29/11

WORK ORDER #: 1104304B

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/14/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/21/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-24-10-041111	Modified ASTM D-1946	6.0 "Hg	15 psi
02A	VMP-24-22-041111	Modified ASTM D-1946	6.0 "Hg	15 psi
03A	VMP-24-34-041111	Modified ASTM D-1946	5.0 "Hg	15 psi
04A	VMP-6-31.5-041111	Modified ASTM D-1946	8.4 "Hg	15 psi
05A	VMP-6-39-041111	Modified ASTM D-1946	7.4 "Hg	15 psi
06A	VMP-1-5-041211	Modified ASTM D-1946	7.0 "Hg	15 psi
07A	VMP-1-8.5-041211	Modified ASTM D-1946	6.8 "Hg	15 psi
08A	VMP-1-23.5-041211	Modified ASTM D-1946	7.2 "Hg	15 psi
09A	VMP-1-23.5-041211-Dup	Modified ASTM D-1946	4.8 "Hg	15 psi
10A	VMP-2-5-041311	Modified ASTM D-1946	8.2 "Hg	15 psi
11A	VMP-21-5-041311	Modified ASTM D-1946	7.0 "Hg	15 psi
12A	VMP-21-10-041311	Modified ASTM D-1946	7.0 "Hg	15 psi
13A	Lab Blank	Modified ASTM D-1946	NA	NA
13B	Lab Blank	Modified ASTM D-1946	NA	NA
13C	Lab Blank	Modified ASTM D-1946	NA	NA
13D	Lab Blank	Modified ASTM D-1946	NA	NA
14A	LCS	Modified ASTM D-1946	NA	NA

Continued on next page

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1104304B

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/14/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/21/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
14AA	LCSD	Modified ASTM D-1946	NA	NA
14B	LCS	Modified ASTM D-1946	NA	NA
14BB	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Linda D. Truman DATE: 04/21/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1104304B

Twelve 1 Liter Summa Canister samples were received on April 14, 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.

Requirement	*ASTM D-1946*	*ATL Modifications*
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 >/= 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 X's the RL.

Receiving Notes

The Chain of Custody (COC) information for samples VMP-24-22-041111 and VMP-6-31.5-041111 did not match the information on the canisters 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

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-24-10-041111

Lab ID#: 1104304B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	16
Nitrogen	0.25	77
Methane	0.00025	0.00015 J
Carbon Dioxide	0.025	6.8
Helium	0.13	0.051 J

Client Sample ID: VMP-24-22-041111

Lab ID#: 1104304B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	13
Nitrogen	0.25	78
Carbon Dioxide	0.025	9.3
Helium	0.13	0.021 J

Client Sample ID: VMP-24-34-041111

Lab ID#: 1104304B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	13
Nitrogen	0.24	78
Carbon Dioxide	0.024	9.4
Helium	0.12	0.085 J

Client Sample ID: VMP-6-31.5-041111

Lab ID#: 1104304B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.5
Nitrogen	0.28	80
Methane	0.00028	5.2

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-6-31.5-041111

Lab ID#: 1104304B-04A

Carbon Dioxide	0.028	13
Ethane	0.0028	0.0021 J
Helium	0.14	0.080 J

Client Sample ID: VMP-6-39-041111

Lab ID#: 1104304B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	3.9
Nitrogen	0.27	77
Methane	0.00027	5.2
Carbon Dioxide	0.027	12
Ethane	0.0027	0.0022 J
Helium	0.13	0.083 J

Client Sample ID: VMP-1-5-041211

Lab ID#: 1104304B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	20
Nitrogen	0.26	78
Methane	0.00026	0.000064 J
Carbon Dioxide	0.026	1.8
Helium	0.13	0.54

Client Sample ID: VMP-1-8.5-041211

Lab ID#: 1104304B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	13
Nitrogen	0.26	83
Methane	0.00026	0.00019 J
Carbon Dioxide	0.026	4.2

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-1-8.5-041211

Lab ID#: 1104304B-07A

Helium	0.13	0.057 J

Client Sample ID: VMP-1-23.5-041211

Lab ID#: 1104304B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27 J	2.2 J
Nitrogen	0.27	88
Methane	0.00027 J	2.2 J
Carbon Dioxide	0.027 J	7.4 J
Ethane	0.0027	0.00072 J
Helium	0.13	0.15

Client Sample ID: VMP-1-23.5-041211-Dup

Lab ID#: 1104304B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.6 J
Nitrogen	0.24	85
Methane	0.00024	2.9 J
Carbon Dioxide	0.024	10 J
Ethane	0.0024	0.0011 J
Helium	0.12	0.023 J

Client Sample ID: VMP-2-5-041311

Lab ID#: 1104304B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	18
Nitrogen	0.28	79
Methane	0.00028	0.00014 J
Carbon Dioxide	0.028	3.3
Helium	0.14	0.040 J

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-21-5-041311

Lab ID#: 1104304B-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	17
Nitrogen	0.26	81
Methane	0.00026	0.00056
Carbon Dioxide	0.026	2.0
Helium	0.13	0.16

Client Sample ID: VMP-21-10-041311

Lab ID#: 1104304B-12A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	9.6
Nitrogen	0.26	83
Methane	0.00026	0.00032
Carbon Dioxide	0.026	7.2
Helium	0.13	0.021 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-24-10-041111

Lab ID#: 1104304B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041843**	**Date of Collection:**	**4/11/11 10:36:00 AM**
Dil. Factor:	**2.52**	**Date of Analysis:**	**4/19/11 07:48 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	16
Nitrogen	0.25	77
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	0.00015 J
Carbon Dioxide	0.025	6.8
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.13	0.051 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-24-22-041111

Lab ID#: 1104304B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041609**	**Date of Collection:**	**4/11/11 11:47:00 AM**
Dil. Factor:	**2.52**	**Date of Analysis:**	**4/16/11 07:22 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	13
Nitrogen	0.25	78
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	Not Detected
Carbon Dioxide	0.025	9.3
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.13	0.021 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-24-34-041111

Lab ID#: 1104304B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041610**	**Date of Collection:**	**4/11/11 12:57:00 PM**
Dil. Factor:	**2.42**	**Date of Analysis:**	**4/16/11 07:52 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	13
Nitrogen	0.24	78
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	Not Detected
Carbon Dioxide	0.024	9.4
Ethane	0.0024	Not Detected
Ethene	0.0024	Not Detected
Helium	0.12	0.085 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-6-31.5-041111

Lab ID#: 1104304B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041611**	**Date of Collection:**	**4/11/11 4:01:00 PM**
Dil. Factor:	**2.81**	**Date of Analysis:**	**4/16/11 08:17 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.5
Nitrogen	0.28	80
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	5.2
Carbon Dioxide	0.028	13
Ethane	0.0028	0.0021 J
Ethene	0.0028	Not Detected
Helium	0.14	0.080 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-6-39-041111

Lab ID#: 1104304B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041612**	**Date of Collection:**	**4/11/11 5:23:00 PM**
Dil. Factor:	**2.68**	**Date of Analysis:**	**4/16/11 08:53 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	3.9
Nitrogen	0.27	77
Carbon Monoxide	0.027	Not Detected
Methane	0.00027	5.2
Carbon Dioxide	0.027	12
Ethane	0.0027	0.0022 J
Ethene	0.0027	Not Detected
Helium	0.13	0.083 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-1-5-041211

Lab ID#: 1104304B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041844**	**Date of Collection:**	**4/12/11 12:47:00 PM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**4/19/11 08:14 AM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.26	20
Nitrogen	0.26	78
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.000064 J
Carbon Dioxide	0.026	1.8
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.54

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-1-8.5-041211

Lab ID#: 1104304B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041845**	**Date of Collection: 4/12/11 2:45:00 PM**	
Dil. Factor:	**2.61**	**Date of Analysis: 4/19/11 08:43 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.26	13
Nitrogen	0.26	83
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.00019 J
Carbon Dioxide	0.026	4.2
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.057 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-1-23.5-041211

Lab ID#: 1104304B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041615**	**Date of Collection:**	**4/12/11 4:21:00 PM**
Dil. Factor:	**2.66**	**Date of Analysis:**	**4/16/11 10:18 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	2.2
Nitrogen	0.27	88
Carbon Monoxide	0.027	Not Detected
Methane	0.00027	2.2
Carbon Dioxide	0.027	7.4
Ethane	0.0027	0.00072 J
Ethene	0.0027	Not Detected
Helium	0.13	0.15

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-1-23.5-041211-Dup

Lab ID#: 1104304B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041846**	**Date of Collection:**	**4/12/11 10:55:00 AM**
Dil. Factor:	**2.40**	**Date of Analysis:**	**4/19/11 09:06 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.6
Nitrogen	0.24	85
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	2.9
Carbon Dioxide	0.024	10
Ethane	0.0024	0.0011 J
Ethene	0.0024	Not Detected
Helium	0.12	0.023 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-2-5-041311

Lab ID#: 1104304B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041847**	**Date of Collection:**	**4/13/11 10:29:00 AM**
Dil. Factor:	**2.78**	**Date of Analysis:**	**4/19/11 09:30 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	18
Nitrogen	0.28	79
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.00014 J
Carbon Dioxide	0.028	3.3
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.040 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-21-5-041311

Lab ID#: 1104304B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041848**	**Date of Collection:**	**4/13/11 11:33:00 AM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**4/19/11 10:05 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	17
Nitrogen	0.26	81
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.00056
Carbon Dioxide	0.026	2.0
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.16

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-21-10-041311

Lab ID#: 1104304B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041849**	**Date of Collection: 4/13/11**	
Dil. Factor:	**2.64**	**Date of Analysis: 4/19/11 10:27 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	9.6
Nitrogen	0.26	83
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.00032
Carbon Dioxide	0.026	7.2
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.021 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104304B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041604a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/16/11 04:18 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.014 J
Nitrogen	0.10	0.060 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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104304B-13B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041603b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/16/11 03:54 PM**	

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

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104304B-13C

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041832a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 04:01 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.10	0.013 J
Nitrogen	0.10	0.039 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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104304B-13D

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041831b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 03:23 PM**	

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

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104304B-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041602**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/16/11 03:10 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	98
Methane	100
Carbon Dioxide	100
Ethane	102
Ethene	101
Helium	94

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104304B-14AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041616**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/16/11 10:41 PM**	

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

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104304B-14B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041830**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/18/11 02:54 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	99
Methane	98
Carbon Dioxide	100
Ethane	101
Ethene	99
Helium	93

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104304B-14BB

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9041850**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/19/11 11:01 AM**	

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	98
Methane	98
Carbon Dioxide	101
Ethane	101
Ethene	100
Helium	93

Container Type: NA - Not Applicable

110384

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Thomas Adams
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 04/13/11
PAGE: 1 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 800 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME: Roxana Dissolved Phase
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
EDF To Contact E-MAIL: Thomas_Adams@URSCorp.com
SAMPLER NAME(S) (Print): M. Miller, E. Arthur, W. Buchman, C. Kretzer

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ LIST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

FEDEX
CUSTODY SEAL INTACT? Y N NONE TEMP NA

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946				
01A	VMP-24-10-041111	04/11/11	1004 - 1036	691	-29	-6			X	X					
02A	VMP-24-22-041111	04/11/11	1116 - 1147	1548	-29.5	-6			X	X					
03A	VMP-24-34-041111	04/11/11	1228 - 1257	3663	-29	-5			X	X					
04A	VMP-6-31.5-041111	04/11/11	1520 - 1601	212	-30	-8			X	X					
05A	VMP-6-39-041111	04/11/11	1564 - 172	3962	-28.5	-6			X	X					
06A	VMP-1-5-041211	04/12/11	1218 - 1247	2550	-29.5	-8			X	X					
07A	VMP-1-8.5-041211	04/12/11	1415 - 1445	3723	-30	-6.5			X	X					
08A	VMP-1-23.5-041211	04/12/11	1545 - 1621	3742	-29	-5.5			X	X					
09A	VMP-1-23.5-041211-Dup	04/12/11	1545 - 1621	1999	-30	-4			X	X					
10A	VMP-2-5-041311	04/13/11	1017 - 1056	3134	-29.5	-6			X	X					

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 4/13/11	Time: 1700
Relinquished by: (Signature)	Received by: (Signature) ATL	Date: 4/14/11	Time: 0930
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/06 Revision

1104301

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD. Project Name: Roxana Dissolved Phase Project # 21562593.00008 Lab Vendor #	Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CN ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER	Print Bill To Contact Name: Thomas Adams PO #:	INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0 SAP #: 3 4 0 0 6 1

☐ CHECK IF NO INCIDENT # APPLIES

DATE: 04/13/11

PAGE: 2 of 2

RAM/URS COMPANY: URS CORPORATION	LOC CODE:	SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA	State: IL
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110		EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St Louis	PHONE NO.: 314-743-4179
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719		SAMPLER NAME(S) (Print): M. Miller, E. Arthur, W. Buchman, C. Kretzer	
TELEPHONE: 314-429-0100	FAX: 314-429-0462	Bill To Contact E-MAIL: Thomas.Adams@URSCorp.com	

GLOBAL ID NO.:	E-MAIL: Elizabeth.Kunkel@URSCorp.com	CONSULTANT PROJECT NAME/#: Roxana Dissolved Phase	

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946					
LA	VMP-21-5-041311	04/13/11	0959 - 1029	3514	-30	-7.5			X	X						
LA	VMP-21-10-041311	04/13/11	1102 - 1133	3077	-29.5	-7.5			X	X						

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 4/13/11	Time: 1700
Relinquished by: (Signature)	Received by: (Signature)	Date: 4/14/11	Time: 0830
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

06/2/08 Revision

Roxana 2Q2011 Vapor Data Review

Laboratory SDG: 1104345A, B, C, D

Data Reviewer: Tony Sedlacek

Peer Reviewer: Jeff Aust

Date Reviewed: 6/30/2011

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-2-8.5-041311	VMP-2-22-041311
VMP-21-25-041411	VMP-21-25-041411-Dup
VMP-21-33-041411	VMP-3-22-041511
VMP-20-5-041511	VMP-20-10-041511
VMP-3-5-041411	VMP-3-10-041311
VMP-3-31.5-041411	VMP-3-31.5-041411-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 sample analyses were not designated on the COC. The laboratory completed analyses based on the contract and project required analyses and contract. Samples VMP-2-8.5-041311, VMP-2-22-041311, VMP-21-25-041411, VMP-21-25-041411-Dup, VMP-21-33-041411, and VMP-3-22-041511 were diluted due to high levels of target analytes. TO-15 LCS and CCV recoveries were outside evaluation criteria. TO-15 Analytes were detected in method blank. Although not indicated in the laboratory case narrative ASTM D-1946 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 Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1104345A-13A	TO-15	Freon 114	0.12 ppbv / 0.87 µg/m^3
1104345A-13A	TO-15	Bromomethane	0.27 ppbv / 1.0 µg/m^3
1104345A-13A	TO-15	Freon 11	0.12 ppbv / 0.68 µg/m^3
1104345A-13A	TO-15	Freon 113	0.099 ppbv / 0.76 µg/m^3
1104345A-13A	TO-15	1,1-Dichloroethene	0.12 ppbv / 0.49 µg/m^3
1104345A-13A	TO-15	Acetone	0.72 ppbv / 1.7 µg/m^3
1104345A-13A	TO-15	Carbon disulfide	0.46 ppbv / 1.4 µg/m^3
1104345A-13A	TO-15	Methylene chloride	0.20 ppbv / 0.68 µg/m^3
1104345A-13A	TO-15	1,1-Dichloroethane	0.088 ppbv / µ0.36 g/m^3
1104345A-13A	TO-15	cis-1,2-Dichlrorethene	0.12 ppbv / 0.50 µg/m^3
1104345A-13A	TO-15	Tetrahydrofurna	0.25 ppbv / 0.74 µg/m^3
1104345A-13A	TO-15	Chloroform	0.12 ppbv / 0.60 µg/m^3
1104345A-13A	TO-15	1,1,1-Trichlroroethane	0.074 ppbv / 0.41 µg/m^3
1104345A-13A	TO-15	Cyclohexane	0.079 ppbv / 0.27 µg/m^3
1104345A-13A	TO-15	Carbon tetrachloride	0.087 ppbv / 0.54 µg/m^3
1104345A-13A	TO-15	2,2,4-Trimethylpentane	0.88 ppbv / 4.1 µg/m^3
1104345A-13A	TO-15	Benzene	0.11 ppbv / 0.34 µg/m^3
1104345A-13A	TO-15	1,2-Dichloroethane	0.15 ppbv / 0.60 µg/m^3
1104345A-13A	TO-15	Heptane	0.15 ppbv / 0.63 µg/m^3
1104345A-13A	TO-15	Trichloroethene	0.082 ppbv / 0.44 µg/m^3
1104345A-13A	TO-15	1,2-Dichloropropane	0.070 ppbv / 0.32 µg/m^3
1104345A-13A	TO-15	Bromodichloromethane	0.077 ppbv / 0.52 µg/m^3
1104345A-13A	TO-15	4-Methyl-2-pentanone	0.17 ppbv / 0.71 µg/m^3
1104345A-13A	TO-15	Toluene	0.062 ppbv / 0.23 µg/m^3
1104345A-13A	TO-15	2-Hexanone	0.11 ppbv / 0.45 µg/m^3
1104345A-13A	TO-15	Dibromochloromethane	0.035 ppbv / 0.30 µg/m^3
1104345A-13A	TO-15	Chlorobenzene	0.099 ppbv / 0.46 µg/m^3
1104345A-13A	TO-15	Ethylbenzene	0.085 ppbv / 0.37 µg/m^3
1104345A-13A	TO-15	m,p-Xylene	0.096 ppbv / 0.42 µg/m^3
1104345A-13A	TO-15	o-Xylene	0.18 ppbv / 0.78 µg/m^3
1104345A-13A	TO-15	Styrene	0.066 ppbv / 0.28 µg/m^3
1104345A-13A	TO-15	Bromoform	0.041 ppbv / 0.42 µg/m^3
1104345A-13A	TO-15	Cumene	0.30 ppbv / 1.4 µg/m^3
1104345A-13A	TO-15	1,1,2,2-Tetrachloroethane	0.072 ppbv / 0.50 µg/m^3
1104345A-13A	TO-15	Propylbenzene	0.10 ppbv / 0.49 µg/m^3
1104345A-13A	TO-15	4-Ethyltoluene	0.093 ppbv / 0.46 µg/m^3
1104345A-13A	TO-15	1,2,4-Trimethylbenzene	0.12 ppbv / 0.58 µg/m^3
1104345A-13A	TO-15	1,3-Dichlorobenzene	0.14 ppbv / 0.87 µg/m^3
1104345A-13A	TO-15	1,4-Dichlorobenzene	0.14 ppbv / 0.84 µg/m^3
1104345A-13A	TO-15	alpha-Chlorotoluene	0.10 ppbv / 0.54 µg/m^3
1104345A-13A	TO-15	1,2-Dichlorobenzene	0.14 ppbv / 0.85 µg/m^3
1104345A-13A	TO-15	1,2,4-Trichlorobenzene	0.22 ppbv / 1.7 µg/m^3
1104345B-13A	ASTM D-9146	Oxygen	0.015%
1104345B-13A	ASTM D-9146	Nitrogen	0.061%
1104345D-10A	ASTM D-9146	Oxygen	0.015%
1104345D-10A	ASTM D-9146	Nitrogen	0.061%

Analytical data were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration and did not require qualification.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS Recovery	LCS Criteria
1104345A-15A/15AA	TO-15	Carbon Tetrachloride	**136/138**	70-130
1104345A-15A/15AA	TO-15	alpha-Chlorotoluene	**145/142**	70-130
1104345A-15B/15BB	TO-15	2-Propanol	**54/56**	60-140
1104345A-15B/15BB	TO-15	Methylene chloride	**67/68**	70-130
1104345A-15B/15BB	TO-15	Tetrahydrofuran	**56/59**	60-140
1104345A-15B/15BB	TO-15	Hexachlorobutadine	**139/147**	70-130
1104345C-12A/12AA	TO-15	1,2,4-Trichlorobenzene	**133/**122	70-130
1104345C-12A/12AA	TO-15	Hexachlorobutadiene	**165/144**	70-130

Analytical data that required qualification based on LCS data are included in the tablebelow. Analytical data which were reported as nondetect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
VMP-2-8.5-041311	TO-15	Carbon Tetrachloride	**J**
VMP-21-25-041411	TO-15	2-Propanol	**UJ**
VMP-21-25-041411	TO-15	Methylene chloride	**UJ**
VMP-21-25-041411	TO-15	Tetrahydrofuran	**UJ**
VMP-21-33-041411	TO-15	2-Propanol	**UJ**
VMP-21-33-041411	TO-15	Methylene chloride	**UJ**
VMP-21-33-041411	TO-15	Tetrahydrofuran	**UJ**
VMP-20-5-041511	TO-15	2-Propanol	**UJ**
VMP-20-5-041511	TO-15	Methylene chloride	**UJ**
VMP-20-5-041511	TO-15	Tetrahydrofuran	**UJ**
VMP-21-25-041411-Dup	TO-15	2-Propanol	**UJ**
VMP-21-25-041411-Dup	TO-15	Methylene chloride	**UJ**
VMP-21-25-041411-Dup	TO-15	Tetrahydrofuran	**UJ**
VMP-3-22-041511	TO-15	2-Propanol	**UJ**
VMP-3-22-041511	TO-15	Methylene chloride	**UJ**
VMP-3-22-041511	TO-15	Tetrahydrofuran	**UJ**
VMP-20-10-041511	TO-15	2-Propanol	**UJ**
VMP-20-10-041511	TO-15	Methylene chloride	**J**

Field ID	Parameter	Analyte	Qualification
VMP-20-10-041511	TO-15	Tetrahydrofuran	**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 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-21-25-041411	VMP-21-25-041411-Dup
VMP-3-31.5-041411	VMP-3-31.5-041411-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 recoveries listed in the table below were above evaluation criteria.

CCV ID	Parameter	Analyte	CCV Recovery	CCV Criteria
1104345-14A	TO-15	Carbon Tetrachloride	**137**	70-130
1104345-14A	TO-15	alpha-Chlorotoluene	**145**	70-130
1104345A-14B	TO-15	2-Propanol	**66**	70-130
1104345A-14B	TO-15	Hexachlorobutadiene	**163**	70-130
1104345C-11A	TO-15	2-Propanol	**69**	70-130
1104345C-11A	TO-15	Hexachlorobutadiene	**149**	70-130

Analytical data that required qualification based on CCV data are included in the table below. The compounds carbon tetrachloride and alpha-chlorotoluene in CCV 1104345-14A; 2-propanol and hexachlorobutadiene in CCV 1104345A-14B; and hexachlorobutadiene in CCV 1104345C-11A were reported as nondetect or previously qualified by the URS chemist based on LCS recoveries outside evaluation criteria. Analytical data which were reported as nondetect and associated with CCV recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
VMP-3-5-041411	TO-15	2-Propanol	**UJ**
VMP-3-31.5-041411	TO-15	2-Propanol	**UJ**
VMP-3-10-041311	TO-15	2-Propanol	**UJ**
VMP-3-31.5-041411-Dup	TO-15	2-Propanol	**UJ**

Air Toxics LTD.
Laboratory Services Since 1989

5/1/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #:
Workorder #: 1104345A

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/16/2011 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 6/30/11

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1104345A

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 #**	Roxana Dissolved Phase
DATE RECEIVED:	04/16/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	05/01/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-2-8.5-041311	Modified TO-15	4.6 "Hg	15 psi
02A	VMP-2-22-041311	Modified TO-15	7.0 "Hg	15 psi
03A	VMP-21-25-041411	Modified TO-15	6.8 "Hg	15 psi
04A	VMP-21-25-041411-Dup	Modified TO-15	6.8 "Hg	15 psi
05A	VMP-21-33-041411	Modified TO-15	7.4 "Hg	15 psi
10A	VMP-3-22-041511	Modified TO-15	5.6 "Hg	15 psi
11A	VMP-20-5-041511	Modified TO-15	7.2 "Hg	15 psi
12A	VMP-20-10-041511	Modified TO-15	5.0 "Hg	15 psi
13A	Lab Blank	Modified TO-15	NA	NA
13B	Lab Blank	Modified TO-15	NA	NA
14A	CCV	Modified TO-15	NA	NA
14B	CCV	Modified TO-15	NA	NA
15A	LCS	Modified TO-15	NA	NA
15AA	LCSD	Modified TO-15	NA	NA
15B	LCS	Modified TO-15	NA	NA
15BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 05/01/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1104345A

Eight 1 Liter Summa Canister samples were received on April 16, 2011. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

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

Receiving Notes

The Chain of Custody was missing method information. ATL proceeded with the analysis as per the original contract or verbal agreement.

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-2-8.5-041311, VMP-2-22-041311, VMP-21-25-041411, VMP-21-25-041411-Dup, VMP-21-33-041411, and VMP-3-22-041511 due to the presence of high level target species.

2,2,4-Trimethylpentane was detected in the laboratory blank analyzed on April 27, 2011 at less than 5X the reporting limit. Associated samples that contained 2,2,4-Trimethylpentane were flagged as indicated.

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

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-2-8.5-041311

Lab ID#: 1104345A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Bromomethane	130	62 J	510	240 J
Freon 11	130	21 J	740	120 J
1,1-Dichloroethene	130	19 J	520	76 J
Carbon Disulfide	530	120 J	1600	360 J
Hexane	130	44 J	460	160 J
Chloroform	130	22 J	640	110 J
1,1,1-Trichloroethane	130	14 J	720	78 J
Cyclohexane	130	41 J	450	140 J
Carbon Tetrachloride	130	18 J	830	120 J
2,2,4-Trimethylpentane	130	29000 B	610	140000 B
Benzene	130	340	420	1100
1,2-Dichloroethane	130	26 J	530	100 J
Heptane	130	92 J	540	380 J
Trichloroethene	130	18 J	710	95 J
4-Methyl-2-pentanone	130	45 J	540	180 J
Toluene	130	9.3 J	500	35 J
Chlorobenzene	130	21 J	600	98 J
m,p-Xylene	130	11 J	570	48 J
o-Xylene	130	17 J	570	74 J
Cumene	130	36 J	650	180 J
Butane	530	620	1200	1500
Isopentane	530	1200	1600	3500

Client Sample ID: VMP-2-22-041311

Lab ID#: 1104345A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	1700	480 J	6100	1700 J
Cyclohexane	1700	1200 J	6000	4200 J
2,2,4-Trimethylpentane	1700	160000 B	8200	760000 B
Benzene	1700	320 J	5600	1000 J

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-2-22-041311

Lab ID#: 1104345A-02A

4-Methyl-2-pentanone	1700	390 J	7100	1600 J
Chlorobenzene	1700	190 J	8000	890 J
Butane	7000	170000	16000	410000
Isopentane	7000	470000	20000	1400000

Client Sample ID: VMP-21-25-041411

Lab ID#: 1104345A-03A

2 B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	16000	5200 J	39000	12000 J
Hexane	4100	230000	14000	820000
Cyclohexane	4100	88000	14000	300000
2,2,4-Trimethylpentane	4100	270000	19000	1200000
Heptane	4100	76000	17000	310000
Butane	16000	2300000	39000	5400000
Isopentane	16000	3100000	48000	9200000

Client Sample ID: VMP-21-25-041411-Dup

Lab ID#: 1104345A-04A

2 B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	16000	2200 J	39000	5200 J
Hexane	4100	230000	14000	820000
Cyclohexane	4100	89000	14000	300000
2,2,4-Trimethylpentane	4100	270000	19000	1200000
Heptane	4100	77000	17000	320000
Butane	16000	2200000	39000	5400000
Isopentane	16000	3100000	48000	9200000

Client Sample ID: VMP-21-33-041411

Lab ID#: 1104345A-05A

2 B

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

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-21-33-041411

Lab ID#: 1104345A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	16000	2000 J	30000	3800 J
Acetone	16000	3700 J	37000	8800 J
Hexane	3900	250000	14000	880000
Cyclohexane	3900	85000	14000	290000
2,2,4-Trimethylpentane	3900	280000	18000	1300000
Heptane	3900	81000	16000	330000
Toluene	3900	2400 J	15000	8900 J
m,p-Xylene	3900	1400 J	17000	6100 J
Butane	16000	2200000	37000	5200000
Isopentane	16000	3200000	46000	9500000

Client Sample ID: VMP-3-22-041511

Lab ID#: 1104345A-10A

Compound 28	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	12000	240000	44000	850000
Cyclohexane	12000	220000	43000	760000
2,2,4-Trimethylpentane	12000	470000	58000	2200000
Benzene	12000	8200 J	40000	26000 J
Heptane	12000	12000	51000	50000
Butane	50000	10000000	120000	24000000
Isopentane	50000	8000000	150000	24000000

Client Sample ID: VMP-20-5-041511

Lab ID#: 1104345A-11A 28

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	53	8.1 J	130	19 J
Carbon Disulfide	13	7.6 J	41	24 J
Hexane	13	680	47	2400
Cyclohexane	13	360	46	1200

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-20-5-041511

Lab ID#: 1104345A-11A

2,2,4-Trimethylpentane	13	860	62	4000
Benzene	13	12 J	42	37 J
Heptane	13	58	54	240
Butane	53	7300	130	17000
Isopentane	53	7500	160	22000

Client Sample ID: VMP-20-10-041511

Lab ID#: 1104345A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	48	6.6 J	91	12 J
Acetone	48	6.4 J	110	15 J
Methylene Chloride	12	5.3 J	42	18 J
Hexane	12	230	43	810
Cyclohexane	12	78	42	270
2,2,4-Trimethylpentane	12	230	56	1100
Benzene	12	14	39	46
Heptane	12	33	50	140
Propylbenzene	12	4.7 J	59	23 J
Butane	48	460	120	1100
Isopentane	48	550	140	1600

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-2-8.5-041311

Lab ID#: 1104345A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d042707**	**Date of Collection:**	**4/13/11 12:04:00 PM**
Dil. Factor:	**263**	**Date of Analysis:**	**4/27/11 03:25 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	130	Not Detected	650	Not Detected
Freon 114	130	Not Detected	920	Not Detected
Chloromethane	530	Not Detected	1100	Not Detected
Vinyl Chloride	130	Not Detected	340	Not Detected
1,3-Butadiene	130	Not Detected	290	Not Detected
Bromomethane	130	62 J	510	240 J
Chloroethane	530	Not Detected	1400	Not Detected
Freon 11	130	21 J	740	120 J
Ethanol	530	Not Detected	990	Not Detected
Freon 113	130	Not Detected	1000	Not Detected
1,1-Dichloroethene	130	19 J	520	76 J
Acetone	530	Not Detected	1200	Not Detected
2-Propanol	530	Not Detected	1300	Not Detected
Carbon Disulfide	530	120 J	1600	360 J
3-Chloropropene	530	Not Detected	1600	Not Detected
Methylene Chloride	130	Not Detected	460	Not Detected
Methyl tert-butyl ether	130	Not Detected	470	Not Detected
trans-1,2-Dichloroethene	130	Not Detected	520	Not Detected
Hexane	130	44 J	460	160 J
1,1-Dichloroethane	130	Not Detected	530	Not Detected
2-Butanone (Methyl Ethyl Ketone)	530	Not Detected	1600	Not Detected
cis-1,2-Dichloroethene	130	Not Detected	520	Not Detected
Tetrahydrofuran	130	Not Detected	390	Not Detected
Chloroform	130	22 J	640	110 J
1,1,1-Trichloroethane	130	14 J	720	78 J
Cyclohexane	130	41 J	450	140 J
Carbon Tetrachloride	130	18 J J	830	120 J J
2,2,4-Trimethylpentane	130	29000 B	610	140000 B
Benzene	130	340	420	1100
1,2-Dichloroethane	130	26 J	530	100 J
Heptane	130	92 J	540	380 J
Trichloroethene	130	18 J	710	95 J
1,2-Dichloropropane	130	Not Detected	610	Not Detected
1,4-Dioxane	530	Not Detected	1900	Not Detected
Bromodichloromethane	130	Not Detected	880	Not Detected
cis-1,3-Dichloropropene	130	Not Detected	600	Not Detected
4-Methyl-2-pentanone	130	45 J	540	180 J
Toluene	130	9.3 J	500	35 J
trans-1,3-Dichloropropene	130	Not Detected	600	Not Detected
1,1,2-Trichloroethane	130	Not Detected	720	Not Detected
Tetrachloroethene	130	Not Detected	890	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-2-8.5-041311

Lab ID#: 1104345A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d042707**	**Date of Collection:**	**4/13/11 12:04:00 PM**
Dil. Factor:	**263**	**Date of Analysis:**	**4/27/11 03:25 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	530	Not Detected	2200	Not Detected
Dibromochloromethane	130	Not Detected	1100	Not Detected
1,2-Dibromoethane (EDB)	130	Not Detected	1000	Not Detected
Chlorobenzene	130	21 J	600	98 J
Ethyl Benzene	130	Not Detected	570	Not Detected
m,p-Xylene	130	11 J	570	48 J
o-Xylene	130	17 J	570	74 J
Styrene	130	Not Detected	560	Not Detected
Bromoform	130	Not Detected	1400	Not Detected
Cumene	130	36 J	650	180 J
1,1,2,2-Tetrachloroethane	130	Not Detected	900	Not Detected
Propylbenzene	130	Not Detected	650	Not Detected
4-Ethyltoluene	130	Not Detected	650	Not Detected
1,3,5-Trimethylbenzene	130	Not Detected	650	Not Detected
1,2,4-Trimethylbenzene	130	Not Detected	650	Not Detected
1,3-Dichlorobenzene	130	Not Detected	790	Not Detected
1,4-Dichlorobenzene	130	Not Detected	790	Not Detected
alpha-Chlorotoluene	130	Not Detected	680	Not Detected
1,2-Dichlorobenzene	130	Not Detected	790	Not Detected
1,2,4-Trichlorobenzene	530	Not Detected	3900	Not Detected
Hexachlorobutadiene	530	Not Detected	5600	Not Detected
Butane	530	620	1200	1500
Isopentane	530	1200	1600	3500

J = Estimated value.
B = Compound present in laboratory blank greater than reporting limit, background subtraction not performed.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	114	70-130
1,2-Dichloroethane-d4	116	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-2-22-041311

Lab ID#: 1104345A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d042712**	**Date of Collection:**	**4/13/11 1:15:00 PM**
Dil. Factor:	**3490**	**Date of Analysis:**	**4/27/11 09:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1700	Not Detected	8600	Not Detected
Freon 114	1700	Not Detected	12000	Not Detected
Chloromethane	7000	Not Detected	14000	Not Detected
Vinyl Chloride	1700	Not Detected	4500	Not Detected
1,3-Butadiene	1700	Not Detected	3900	Not Detected
Bromomethane	1700	Not Detected	6800	Not Detected
Chloroethane	7000	Not Detected	18000	Not Detected
Freon 11	1700	Not Detected	9800	Not Detected
Ethanol	7000	Not Detected	13000	Not Detected
Freon 113	1700	Not Detected	13000	Not Detected
1,1-Dichloroethene	1700	Not Detected	6900	Not Detected
Acetone	7000	Not Detected	16000	Not Detected
2-Propanol	7000	Not Detected	17000	Not Detected
Carbon Disulfide	7000	Not Detected	22000	Not Detected
3-Chloropropene	7000	Not Detected	22000	Not Detected
Methylene Chloride	1700	Not Detected	6100	Not Detected
Methyl tert-butyl ether	1700	Not Detected	6300	Not Detected
trans-1,2-Dichloroethene	1700	Not Detected	6900	Not Detected
Hexane	1700	480 J	6100	1700 J
1,1-Dichloroethane	1700	Not Detected	7100	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7000	Not Detected	20000	Not Detected
cis-1,2-Dichloroethene	1700	Not Detected	6900	Not Detected
Tetrahydrofuran	1700	Not Detected	5100	Not Detected
Chloroform	1700	Not Detected	8500	Not Detected
1,1,1-Trichloroethane	1700	Not Detected	9500	Not Detected
Cyclohexane	1700	1200 J	6000	4200 J
Carbon Tetrachloride	1700	Not Detected	11000	Not Detected
2,2,4-Trimethylpentane	1700	160000 B	8200	760000 B
Benzene	1700	320 J	5600	1000 J
1,2-Dichloroethane	1700	Not Detected	7100	Not Detected
Heptane	1700	Not Detected	7200	Not Detected
Trichloroethene	1700	Not Detected	9400	Not Detected
1,2-Dichloropropane	1700	Not Detected	8100	Not Detected
1,4-Dioxane	7000	Not Detected	25000	Not Detected
Bromodichloromethane	1700	Not Detected	12000	Not Detected
cis-1,3-Dichloropropene	1700	Not Detected	7900	Not Detected
4-Methyl-2-pentanone	1700	390 J	7100	1600 J
Toluene	1700	Not Detected	6600	Not Detected
trans-1,3-Dichloropropene	1700	Not Detected	7900	Not Detected
1,1,2-Trichloroethane	1700	Not Detected	9500	Not Detected
Tetrachloroethene	1700	Not Detected	12000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-2-22-041311

Lab ID#: 1104345A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d042712**	**Date of Collection:**	**4/13/11 1:15:00 PM**
Dil. Factor:	**3490**	**Date of Analysis:**	**4/27/11 09:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	7000	Not Detected	28000	Not Detected
Dibromochloromethane	1700	Not Detected	15000	Not Detected
1,2-Dibromoethane (EDB)	1700	Not Detected	13000	Not Detected
Chlorobenzene	1700	190 J	8000	890 J
Ethyl Benzene	1700	Not Detected	7600	Not Detected
m,p-Xylene	1700	Not Detected	7600	Not Detected
o-Xylene	1700	Not Detected	7600	Not Detected
Styrene	1700	Not Detected	7400	Not Detected
Bromoform	1700	Not Detected	18000	Not Detected
Cumene	1700	Not Detected	8600	Not Detected
1,1,2,2-Tetrachloroethane	1700	Not Detected	12000	Not Detected
Propylbenzene	1700	Not Detected	8600	Not Detected
4-Ethyltoluene	1700	Not Detected	8600	Not Detected
1,3,5-Trimethylbenzene	1700	Not Detected	8600	Not Detected
1,2,4-Trimethylbenzene	1700	Not Detected	8600	Not Detected
1,3-Dichlorobenzene	1700	Not Detected	10000	Not Detected
1,4-Dichlorobenzene	1700	Not Detected	10000	Not Detected
alpha-Chlorotoluene	1700	Not Detected	9000	Not Detected
1,2-Dichlorobenzene	1700	Not Detected	10000	Not Detected
1,2,4-Trichlorobenzene	7000	Not Detected	52000	Not Detected
Hexachlorobutadiene	7000	Not Detected	74000	Not Detected
Butane	7000	170000	16000	410000
Isopentane	7000	470000	20000	1400000

J = Estimated value.
B = Compound present in laboratory blank greater than reporting limit, background subtraction not performed.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	112	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-21-25-041411

Lab ID#: 1104345A-03A

EPA METHOD TO-15 GC/MS

File Name:	**b042814**	**Date of Collection:**	**4/14/11 11:35:00 AM**
Dil. Factor:	**816**	**Date of Analysis:**	**4/28/11 12:08 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	28000	Not Detected
Chloromethane	16000	Not Detected	34000	Not Detected
Vinyl Chloride	4100	Not Detected	10000	Not Detected
1,3-Butadiene	4100	Not Detected	9000	Not Detected
Bromomethane	4100	Not Detected	16000	Not Detected
Chloroethane	16000	Not Detected	43000	Not Detected
Freon 11	4100	Not Detected	23000	Not Detected
Ethanol	16000	Not Detected	31000	Not Detected
Freon 113	4100	Not Detected	31000	Not Detected
1,1-Dichloroethene	4100	Not Detected	16000	Not Detected
Acetone	16000	5200 J	39000	12000 J
2-Propanol	16000	Not Detected UJ UJ	40000	Not Detected UJ UJ
Carbon Disulfide	4100	Not Detected	13000	Not Detected
3-Chloropropene	16000	Not Detected	51000	Not Detected
Methylene Chloride	4100	Not Detected UJ	14000	Not Detected UJ
Methyl tert-butyl ether	4100	Not Detected	15000	Not Detected
trans-1,2-Dichloroethene	4100	Not Detected	16000	Not Detected
Hexane	4100	230000	14000	820000
1,1-Dichloroethane	4100	Not Detected	16000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	16000	Not Detected	48000	Not Detected
cis-1,2-Dichloroethene	4100	Not Detected	16000	Not Detected
Tetrahydrofuran	4100	Not Detected UJ	12000	Not Detected UJ
Chloroform	4100	Not Detected	20000	Not Detected
1,1,1-Trichloroethane	4100	Not Detected	22000	Not Detected
Cyclohexane	4100	88000	14000	300000
Carbon Tetrachloride	4100	Not Detected	26000	Not Detected
2,2,4-Trimethylpentane	4100	270000	19000	1200000
Benzene	4100	Not Detected	13000	Not Detected
1,2-Dichloroethane	4100	Not Detected	16000	Not Detected
Heptane	4100	76000	17000	310000
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	27000	Not Detected
cis-1,3-Dichloropropene	4100	Not Detected	18000	Not Detected
4-Methyl-2-pentanone	4100	Not Detected	17000	Not Detected
Toluene	4100	Not Detected	15000	Not Detected
trans-1,3-Dichloropropene	4100	Not Detected	18000	Not Detected
1,1,2-Trichloroethane	4100	Not Detected	22000	Not Detected
Tetrachloroethene	4100	Not Detected	28000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-21-25-041411

Lab ID#: 1104345A-03A

EPA METHOD TO-15 GC/MS

File Name:	**b042814**	**Date of Collection: 4/14/11 11:35:00 AM**	
Dil. Factor:	**816**	**Date of Analysis: 4/28/11 12:08 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	16000	Not Detected	67000	Not Detected
Dibromochloromethane	4100	Not Detected	35000	Not Detected
1,2-Dibromoethane (EDB)	4100	Not Detected	31000	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	17000	Not Detected
Bromoform	4100	Not Detected	42000	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	24000	Not Detected
1,4-Dichlorobenzene	4100	Not Detected	24000	Not Detected
alpha-Chlorotoluene	4100	Not Detected	21000	Not Detected
1,2-Dichlorobenzene	4100	Not Detected	24000	Not Detected
1,2,4-Trichlorobenzene	16000	Not Detected	120000	Not Detected
Hexachlorobutadiene	16000	Not Detected	170000	Not Detected
Butane	16000	2300000	39000	5400000
Isopentane	16000	3100000	48000	9200000

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	87	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-21-25-041411-Dup

Lab ID#: 1104345A-04A

EPA METHOD TO-15 GC/MS

File Name:	**b042811**	**Date of Collection:**	**4/14/11 11:35:00 AM**
Dil. Factor:	**816**	**Date of Analysis:**	**4/28/11 11:00 AM**

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	28000	Not Detected
Chloromethane	16000	Not Detected	34000	Not Detected
Vinyl Chloride	4100	Not Detected	10000	Not Detected
1,3-Butadiene	4100	Not Detected	9000	Not Detected
Bromomethane	4100	Not Detected	16000	Not Detected
Chloroethane	16000	Not Detected	43000	Not Detected
Freon 11	4100	Not Detected	23000	Not Detected
Ethanol	16000	Not Detected	31000	Not Detected
Freon 113	4100	Not Detected	31000	Not Detected
1,1-Dichloroethene	4100	Not Detected	16000	Not Detected
Acetone	16000	2200 J	39000	5200 J
2-Propanol	16000	Not Detected UJ UJ	40000	Not Detected UJ UJ
Carbon Disulfide	4100	Not Detected	13000	Not Detected
3-Chloropropene	16000	Not Detected	51000	Not Detected
Methylene Chloride	4100	Not Detected UJ	14000	Not Detected UJ
Methyl tert-butyl ether	4100	Not Detected	15000	Not Detected
trans-1,2-Dichloroethene	4100	Not Detected	16000	Not Detected
Hexane	4100	230000	14000	820000
1,1-Dichloroethane	4100	Not Detected	16000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	16000	Not Detected	48000	Not Detected
cis-1,2-Dichloroethene	4100	Not Detected	16000	Not Detected
Tetrahydrofuran	4100	Not Detected UJ	12000	Not Detected UJ
Chloroform	4100	Not Detected	20000	Not Detected
1,1,1-Trichloroethane	4100	Not Detected	22000	Not Detected
Cyclohexane	4100	89000	14000	300000
Carbon Tetrachloride	4100	Not Detected	26000	Not Detected
2,2,4-Trimethylpentane	4100	270000	19000	1200000
Benzene	4100	Not Detected	13000	Not Detected
1,2-Dichloroethane	4100	Not Detected	16000	Not Detected
Heptane	4100	77000	17000	320000
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	27000	Not Detected
cis-1,3-Dichloropropene	4100	Not Detected	18000	Not Detected
4-Methyl-2-pentanone	4100	Not Detected	17000	Not Detected
Toluene	4100	Not Detected	15000	Not Detected
trans-1,3-Dichloropropene	4100	Not Detected	18000	Not Detected
1,1,2-Trichloroethane	4100	Not Detected	22000	Not Detected
Tetrachloroethene	4100	Not Detected	28000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-21-25-041411-Dup

Lab ID#: 1104345A-04A

EPA METHOD TO-15 GC/MS

File Name:	**b042811**	**Date of Collection:**	**4/14/11 11:35:00 AM**
Dil. Factor:	**816**	**Date of Analysis:**	**4/28/11 11:00 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	16000	Not Detected	67000	Not Detected
Dibromochloromethane	4100	Not Detected	35000	Not Detected
1,2-Dibromoethane (EDB)	4100	Not Detected	31000	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	17000	Not Detected
Bromoform	4100	Not Detected	42000	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	24000	Not Detected
1,4-Dichlorobenzene	4100	Not Detected	24000	Not Detected
alpha-Chlorotoluene	4100	Not Detected	21000	Not Detected
1,2-Dichlorobenzene	4100	Not Detected	24000	Not Detected
1,2,4-Trichlorobenzene	16000	Not Detected	120000	Not Detected
Hexachlorobutadiene	16000	Not Detected	170000	Not Detected
Butane	16000	2200000	39000	5400000
Isopentane	16000	3100000	48000	9200000

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-21-33-041411

Lab ID#: 1104345A-05A

EPA METHOD TO-15 GC/MS

File Name:	**b042818**	**Date of Collection:**	**4/14/11 12:45:00 PM**
Dil. Factor:	**788**	**Date of Analysis:**	**4/28/11 01:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3900	Not Detected	19000	Not Detected
Freon 114	3900	Not Detected	28000	Not Detected
Chloromethane	16000	Not Detected	32000	Not Detected
Vinyl Chloride	3900	Not Detected	10000	Not Detected
1,3-Butadiene	3900	Not Detected	8700	Not Detected
Bromomethane	3900	Not Detected	15000	Not Detected
Chloroethane	16000	Not Detected	42000	Not Detected
Freon 11	3900	Not Detected	22000	Not Detected
Ethanol	16000	2000 J	30000	3800 J
Freon 113	3900	Not Detected	30000	Not Detected
1,1-Dichloroethene	3900	Not Detected	16000	Not Detected
Acetone	16000	3700 J	37000	8800 J
2-Propanol	16000	Not Detected UJ	39000	Not Detected UJ
Carbon Disulfide	3900	Not Detected	12000	Not Detected
3-Chloropropene	16000	Not Detected	49000	Not Detected
Methylene Chloride	3900	Not Detected	14000	Not Detected
Methyl tert-butyl ether	3900	Not Detected	14000	Not Detected
trans-1,2-Dichloroethene	3900	Not Detected	16000	Not Detected
Hexane	3900	250000	14000	880000
1,1-Dichloroethane	3900	Not Detected	16000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	16000	Not Detected	46000	Not Detected
cis-1,2-Dichloroethene	3900	Not Detected	16000	Not Detected
Tetrahydrofuran	3900	Not Detected	12000	Not Detected
Chloroform	3900	Not Detected	19000	Not Detected
1,1,1-Trichloroethane	3900	Not Detected	21000	Not Detected
Cyclohexane	3900	85000	14000	290000
Carbon Tetrachloride	3900	Not Detected	25000	Not Detected
2,2,4-Trimethylpentane	3900	280000	18000	1300000
Benzene	3900	Not Detected	12000	Not Detected
1,2-Dichloroethane	3900	Not Detected	16000	Not Detected
Heptane	3900	81000	16000	330000
Trichloroethene	3900	Not Detected	21000	Not Detected
1,2-Dichloropropane	3900	Not Detected	18000	Not Detected
1,4-Dioxane	16000	Not Detected	57000	Not Detected
Bromodichloromethane	3900	Not Detected	26000	Not Detected
cis-1,3-Dichloropropene	3900	Not Detected	18000	Not Detected
4-Methyl-2-pentanone	3900	Not Detected	16000	Not Detected
Toluene	3900	2400 J	15000	8900 J
trans-1,3-Dichloropropene	3900	Not Detected	18000	Not Detected
1,1,2-Trichloroethane	3900	Not Detected	21000	Not Detected
Tetrachloroethene	3900	Not Detected	27000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-21-33-041411

Lab ID#: 1104345A-05A

EPA METHOD TO-15 GC/MS

File Name:	**b042818**	**Date of Collection:**	**4/14/11 12:45:00 PM**
Dil. Factor:	**788**	**Date of Analysis:**	**4/28/11 01:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	16000	Not Detected	64000	Not Detected
Dibromochloromethane	3900	Not Detected	34000	Not Detected
1,2-Dibromoethane (EDB)	3900	Not Detected	30000	Not Detected
Chlorobenzene	3900	Not Detected	18000	Not Detected
Ethyl Benzene	3900	Not Detected	17000	Not Detected
m,p-Xylene	3900	1400 J	17000	6100 J
o-Xylene	3900	Not Detected	17000	Not Detected
Styrene	3900	Not Detected	17000	Not Detected
Bromoform	3900	Not Detected	41000	Not Detected
Cumene	3900	Not Detected	19000	Not Detected
1,1,2,2-Tetrachloroethane	3900	Not Detected	27000	Not Detected
Propylbenzene	3900	Not Detected	19000	Not Detected
4-Ethyltoluene	3900	Not Detected	19000	Not Detected
1,3,5-Trimethylbenzene	3900	Not Detected	19000	Not Detected
1,2,4-Trimethylbenzene	3900	Not Detected	19000	Not Detected
1,3-Dichlorobenzene	3900	Not Detected	24000	Not Detected
1,4-Dichlorobenzene	3900	Not Detected	24000	Not Detected
alpha-Chlorotoluene	3900	Not Detected	20000	Not Detected
1,2-Dichlorobenzene	3900	Not Detected	24000	Not Detected
1,2,4-Trichlorobenzene	16000	Not Detected	120000	Not Detected
Hexachlorobutadiene	16000	Not Detected	170000	Not Detected
Butane	16000	2200000	37000	5200000
Isopentane	16000	3200000	46000	9500000

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-3-22-041511

Lab ID#: 1104345A-10A

EPA METHOD TO-15 GC/MS

File Name:	**b042809**	**Date of Collection:**	**4/15/11 10:00:00 AM**
Dil. Factor:	**2480**	**Date of Analysis:**	**4/28/11 10:08 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	12000	Not Detected	61000	Not Detected
Freon 114	12000	Not Detected	87000	Not Detected
Chloromethane	50000	Not Detected	100000	Not Detected
Vinyl Chloride	12000	Not Detected	32000	Not Detected
1,3-Butadiene	12000	Not Detected	27000	Not Detected
Bromomethane	12000	Not Detected	48000	Not Detected
Chloroethane	50000	Not Detected	130000	Not Detected
Freon 11	12000	Not Detected	70000	Not Detected
Ethanol	50000	Not Detected	93000	Not Detected
Freon 113	12000	Not Detected	95000	Not Detected
1,1-Dichloroethene	12000	Not Detected	49000	Not Detected
Acetone	50000	Not Detected	120000	Not Detected
2-Propanol	50000	Not Detected UJ UJ	120000	Not Detected UJ UJ
Carbon Disulfide	12000	Not Detected	39000	Not Detected
3-Chloropropene	50000	Not Detected	160000	Not Detected
Methylene Chloride	12000	Not Detected UJ	43000	Not Detected UJ
Methyl tert-butyl ether	12000	Not Detected	45000	Not Detected
trans-1,2-Dichloroethene	12000	Not Detected	49000	Not Detected
Hexane	12000	240000	44000	850000
1,1-Dichloroethane	12000	Not Detected	50000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	50000	Not Detected	150000	Not Detected
cis-1,2-Dichloroethene	12000	Not Detected	49000	Not Detected
Tetrahydrofuran	12000	Not Detected UJ	36000	Not Detected UJ
Chloroform	12000	Not Detected	60000	Not Detected
1,1,1-Trichloroethane	12000	Not Detected	68000	Not Detected
Cyclohexane	12000	220000	43000	760000
Carbon Tetrachloride	12000	Not Detected	78000	Not Detected
2,2,4-Trimethylpentane	12000	470000	58000	2200000
Benzene	12000	8200 J	40000	26000 J
1,2-Dichloroethane	12000	Not Detected	50000	Not Detected
Heptane	12000	12000	51000	50000
Trichloroethene	12000	Not Detected	67000	Not Detected
1,2-Dichloropropane	12000	Not Detected	57000	Not Detected
1,4-Dioxane	50000	Not Detected	180000	Not Detected
Bromodichloromethane	12000	Not Detected	83000	Not Detected
cis-1,3-Dichloropropene	12000	Not Detected	56000	Not Detected
4-Methyl-2-pentanone	12000	Not Detected	51000	Not Detected
Toluene	12000	Not Detected	47000	Not Detected
trans-1,3-Dichloropropene	12000	Not Detected	56000	Not Detected
1,1,2-Trichloroethane	12000	Not Detected	68000	Not Detected
Tetrachloroethene	12000	Not Detected	84000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-3-22-041511

Lab ID#: 1104345A-10A

EPA METHOD TO-15 GC/MS

File Name:	**b042809**	**Date of Collection:**	**4/15/11 10:00:00 AM**
Dil. Factor:	**2480**	**Date of Analysis:**	**4/28/11 10:08 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	50000	Not Detected	200000	Not Detected
Dibromochloromethane	12000	Not Detected	100000	Not Detected
1,2-Dibromoethane (EDB)	12000	Not Detected	95000	Not Detected
Chlorobenzene	12000	Not Detected	57000	Not Detected
Ethyl Benzene	12000	Not Detected	54000	Not Detected
m,p-Xylene	12000	Not Detected	54000	Not Detected
o-Xylene	12000	Not Detected	54000	Not Detected
Styrene	12000	Not Detected	53000	Not Detected
Bromoform	12000	Not Detected	130000	Not Detected
Cumene	12000	Not Detected	61000	Not Detected
1,1,2,2-Tetrachloroethane	12000	Not Detected	85000	Not Detected
Propylbenzene	12000	Not Detected	61000	Not Detected
4-Ethyltoluene	12000	Not Detected	61000	Not Detected
1,3,5-Trimethylbenzene	12000	Not Detected	61000	Not Detected
1,2,4-Trimethylbenzene	12000	Not Detected	61000	Not Detected
1,3-Dichlorobenzene	12000	Not Detected	74000	Not Detected
1,4-Dichlorobenzene	12000	Not Detected	74000	Not Detected
alpha-Chlorotoluene	12000	Not Detected	64000	Not Detected
1,2-Dichlorobenzene	12000	Not Detected	74000	Not Detected
1,2,4-Trichlorobenzene	50000	Not Detected	370000	Not Detected
Hexachlorobutadiene	50000	Not Detected	530000	Not Detected
Butane	50000	10000000	120000	24000000
Isopentane	50000	8000000	150000	24000000

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

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-20-5-041511

Lab ID#: 1104345A-11A

EPA METHOD TO-15 GC/MS

File Name:	**b042817**	**Date of Collection:**	**4/15/11 11:35:00 AM**
Dil. Factor:	**2.66**	**Date of Analysis:**	**4/28/11 01:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	13	Not Detected	66	Not Detected
Freon 114	13	Not Detected	93	Not Detected
Chloromethane	53	Not Detected	110	Not Detected
Vinyl Chloride	13	Not Detected	34	Not Detected
1,3-Butadiene	13	Not Detected	29	Not Detected
Bromomethane	13	Not Detected	52	Not Detected
Chloroethane	53	Not Detected	140	Not Detected
Freon 11	13	Not Detected	75	Not Detected
Ethanol	53	Not Detected	100	Not Detected
Freon 113	13	Not Detected	100	Not Detected
1,1-Dichloroethene	13	Not Detected	53	Not Detected
Acetone	53	8.1 J	130	19 J
2-Propanol	53	Not Detected UJ UT	130	Not Detected UJ UJ
Carbon Disulfide	13	7.6 J	41	24 J
3-Chloropropene	53	Not Detected	170	Not Detected
Methylene Chloride	13	Not Detected UJ	46	Not Detected UJ
Methyl tert-butyl ether	13	Not Detected	48	Not Detected
trans-1,2-Dichloroethene	13	Not Detected	53	Not Detected
Hexane	13	680	47	2400
1,1-Dichloroethane	13	Not Detected	54	Not Detected
2-Butanone (Methyl Ethyl Ketone)	53	Not Detected	160	Not Detected
cis-1,2-Dichloroethene	13	Not Detected	53	Not Detected
Tetrahydrofuran	13	Not Detected UJ	39	Not Detected UJ
Chloroform	13	Not Detected	65	Not Detected
1,1,1-Trichloroethane	13	Not Detected	72	Not Detected
Cyclohexane	13	360	46	1200
Carbon Tetrachloride	13	Not Detected	84	Not Detected
2,2,4-Trimethylpentane	13	860	62	4000
Benzene	13	12 J	42	37 J
1,2-Dichloroethane	13	Not Detected	54	Not Detected
Heptane	13	58	54	240
Trichloroethene	13	Not Detected	71	Not Detected
1,2-Dichloropropane	13	Not Detected	61	Not Detected
1,4-Dioxane	53	Not Detected	190	Not Detected
Bromodichloromethane	13	Not Detected	89	Not Detected
cis-1,3-Dichloropropene	13	Not Detected	60	Not Detected
4-Methyl-2-pentanone	13	Not Detected	54	Not Detected
Toluene	13	Not Detected	50	Not Detected
trans-1,3-Dichloropropene	13	Not Detected	60	Not Detected
1,1,2-Trichloroethane	13	Not Detected	72	Not Detected
Tetrachloroethene	13	Not Detected	90	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-20-5-041511

Lab ID#: 1104345A-11A

EPA METHOD TO-15 GC/MS

File Name:	**b042817**	**Date of Collection:**	**4/15/11 11:35:00 AM**
Dil. Factor:	**2.66**	**Date of Analysis:**	**4/28/11 01:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	53	Not Detected	220	Not Detected
Dibromochloromethane	13	Not Detected	110	Not Detected
1,2-Dibromoethane (EDB)	13	Not Detected	100	Not Detected
Chlorobenzene	13	Not Detected	61	Not Detected
Ethyl Benzene	13	Not Detected	58	Not Detected
m,p-Xylene	13	Not Detected	58	Not Detected
o-Xylene	13	Not Detected	58	Not Detected
Styrene	13	Not Detected	57	Not Detected
Bromoform	13	Not Detected	140	Not Detected
Cumene	13	Not Detected	65	Not Detected
1,1,2,2-Tetrachloroethane	13	Not Detected	91	Not Detected
Propylbenzene	13	Not Detected	65	Not Detected
4-Ethyltoluene	13	Not Detected	65	Not Detected
1,3,5-Trimethylbenzene	13	Not Detected	65	Not Detected
1,2,4-Trimethylbenzene	13	Not Detected	65	Not Detected
1,3-Dichlorobenzene	13	Not Detected	80	Not Detected
1,4-Dichlorobenzene	13	Not Detected	80	Not Detected
alpha-Chlorotoluene	13	Not Detected	69	Not Detected
1,2-Dichlorobenzene	13	Not Detected	80	Not Detected
1,2,4-Trichlorobenzene	53	Not Detected	390	Not Detected
Hexachlorobutadiene	53	Not Detected	570	Not Detected
Butane	53	7300	130	17000
Isopentane	53	7500	160	22000

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-20-10-041511

Lab ID#: 1104345A-12A

EPA METHOD TO-15 GC/MS

File Name:	**b042813**	**Date of Collection: 4/15/11 2:35:00 PM**	
Dil. Factor:	**2.42**	**Date of Analysis: 4/28/11 11:38 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	12	Not Detected	60	Not Detected
Freon 114	12	Not Detected	84	Not Detected
Chloromethane	48	Not Detected	100	Not Detected
Vinyl Chloride	12	Not Detected	31	Not Detected
1,3-Butadiene	12	Not Detected	27	Not Detected
Bromomethane	12	Not Detected	47	Not Detected
Chloroethane	48	Not Detected	130	Not Detected
Freon 11	12	Not Detected	68	Not Detected
Ethanol	48	6.6 J	91	12 J
Freon 113	12	Not Detected	93	Not Detected
1,1-Dichloroethene	12	Not Detected	48	Not Detected
Acetone	48	6.4 J	110	15 J
2-Propanol	48	Not Detected UJ uJ	120	Not Detected UJ uJ
Carbon Disulfide	12	Not Detected	38	Not Detected
3-Chloropropene	48	Not Detected	150	Not Detected
Methylene Chloride	12	5.3 J	42	18 J
Methyl tert-butyl ether	12	Not Detected	44	Not Detected
trans-1,2-Dichloroethene	12	Not Detected	48	Not Detected
Hexane	12	230	43	810
1,1-Dichloroethane	12	Not Detected	49	Not Detected
2-Butanone (Methyl Ethyl Ketone)	48	Not Detected	140	Not Detected
cis-1,2-Dichloroethene	12	Not Detected	48	Not Detected
Tetrahydrofuran	12	Not Detected uJ	36	Not Detected uJ
Chloroform	12	Not Detected	59	Not Detected
1,1,1-Trichloroethane	12	Not Detected	66	Not Detected
Cyclohexane	12	78	42	270
Carbon Tetrachloride	12	Not Detected	76	Not Detected
2,2,4-Trimethylpentane	12	230	56	1100
Benzene	12	14	39	46
1,2-Dichloroethane	12	Not Detected	49	Not Detected
Heptane	12	33	50	140
Trichloroethene	12	Not Detected	65	Not Detected
1,2-Dichloropropane	12	Not Detected	56	Not Detected
1,4-Dioxane	48	Not Detected	170	Not Detected
Bromodichloromethane	12	Not Detected	81	Not Detected
cis-1,3-Dichloropropene	12	Not Detected	55	Not Detected
4-Methyl-2-pentanone	12	Not Detected	50	Not Detected
Toluene	12	Not Detected	46	Not Detected
trans-1,3-Dichloropropene	12	Not Detected	55	Not Detected
1,1,2-Trichloroethane	12	Not Detected	66	Not Detected
Tetrachloroethene	12	Not Detected	82	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-20-10-041511

Lab ID#: 1104345A-12A

EPA METHOD TO-15 GC/MS

File Name:	**b042813**	**Date of Collection:**	**4/15/11 2:35:00 PM**
Dil. Factor:	**2.42**	**Date of Analysis:**	**4/28/11 11:38 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	48	Not Detected	200	Not Detected
Dibromochloromethane	12	Not Detected	100	Not Detected
1,2-Dibromoethane (EDB)	12	Not Detected	93	Not Detected
Chlorobenzene	12	Not Detected	56	Not Detected
Ethyl Benzene	12	Not Detected	52	Not Detected
m,p-Xylene	12	Not Detected	52	Not Detected
o-Xylene	12	Not Detected	52	Not Detected
Styrene	12	Not Detected	52	Not Detected
Bromoform	12	Not Detected	120	Not Detected
Cumene	12	Not Detected	59	Not Detected
1,1,2,2-Tetrachloroethane	12	Not Detected	83	Not Detected
Propylbenzene	12	4.7 J	59	23 J
4-Ethyltoluene	12	Not Detected	59	Not Detected
1,3,5-Trimethylbenzene	12	Not Detected	59	Not Detected
1,2,4-Trimethylbenzene	12	Not Detected	59	Not Detected
1,3-Dichlorobenzene	12	Not Detected	73	Not Detected
1,4-Dichlorobenzene	12	Not Detected	73	Not Detected
alpha-Chlorotoluene	12	Not Detected	63	Not Detected
1,2-Dichlorobenzene	12	Not Detected	73	Not Detected
1,2,4-Trichlorobenzene	48	Not Detected	360	Not Detected
Hexachlorobutadiene	48	Not Detected	520	Not Detected
Butane	48	460	120	1100
Isopentane	48	550	140	1600

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104345A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d042706a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/27/11 12:29 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	0.12 J	3.5	0.87 J
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	0.27 J	1.9	1.0 J
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	0.12 J	2.8	0.68 J
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	0.099 J	3.8	0.76 J
1,1-Dichloroethene	0.50	0.12 J	2.0	0.49 J
Acetone	2.0	0.72 J	4.8	1.7 J
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	0.46 J	6.2	1.4 J
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	0.20 J	1.7	0.68 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	0.088 J	2.0	0.36 J
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	0.12 J	2.0	0.50 J
Tetrahydrofuran	0.50	0.25 J	1.5	0.74 J
Chloroform	0.50	0.12 J	2.4	0.60 J
1,1,1-Trichloroethane	0.50	0.074 J	2.7	0.41 J
Cyclohexane	0.50	0.079 J	1.7	0.27 J
Carbon Tetrachloride	0.50	0.087 J	3.1	0.54 J
2,2,4-Trimethylpentane	0.50	0.88	2.3	4.1
Benzene	0.50	0.11 J	1.6	0.34 J
1,2-Dichloroethane	0.50	0.15 J	2.0	0.60 J
Heptane	0.50	0.15 J	2.0	0.63 J
Trichloroethene	0.50	0.082 J	2.7	0.44 J
1,2-Dichloropropane	0.50	0.070 J	2.3	0.32 J
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	0.077 J	3.4	0.52 J
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	0.17 J	2.0	0.71 J
Toluene	0.50	0.062 J	1.9	0.23 J
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104345A-13A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d042706a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/27/11 12:29 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	2.0	0.11 J	8.2	0.45 J
Dibromochloromethane	0.50	0.035 J	4.2	0.30 J
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	0.099 J	2.3	0.46 J
Ethyl Benzene	0.50	0.085 J	2.2	0.37 J
m,p-Xylene	0.50	0.096 J	2.2	0.42 J
o-Xylene	0.50	0.18 J	2.2	0.78 J
Styrene	0.50	0.066 J	2.1	0.28 J
Bromoform	0.50	0.041 J	5.2	0.42 J
Cumene	0.50	0.30 J	2.4	1.4 J
1,1,2,2-Tetrachloroethane	0.50	0.072 J	3.4	0.50 J
Propylbenzene	0.50	0.10 J	2.4	0.49 J
4-Ethyltoluene	0.50	0.093 J	2.4	0.46 J
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	0.12 J	2.4	0.58 J
1,3-Dichlorobenzene	0.50	0.14 J	3.0	0.87 J
1,4-Dichlorobenzene	0.50	0.14 J	3.0	0.84 J
alpha-Chlorotoluene	0.50	0.10 J	2.6	0.54 J
1,2-Dichlorobenzene	0.50	0.14 J	3.0	0.85 J
1,2,4-Trichlorobenzene	2.0	0.22 J	15	1.7 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	103	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104345A-13B

EPA METHOD TO-15 GC/MS

File Name:	**b042807a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 09:04 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 UJ	49	Not Detected UJ
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104345A-13B

EPA METHOD TO-15 GC/MS

File Name:	**b042807a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 09:04 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

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	85	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104345A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d042705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/27/11 11:35 AM**	

Compound	%Recovery
Freon 12	114
Freon 114	109
Chloromethane	94
Vinyl Chloride	98
1,3-Butadiene	94
Bromomethane	97
Chloroethane	96
Freon 11	112
Ethanol	89
Freon 113	107
1,1-Dichloroethene	99
Acetone	97
2-Propanol	95
Carbon Disulfide	98
3-Chloropropene	103
Methylene Chloride	103
Methyl tert-butyl ether	116
trans-1,2-Dichloroethene	100
Hexane	105
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	105
Tetrahydrofuran	104
Chloroform	114
1,1,1-Trichloroethane	122
Cyclohexane	114
Carbon Tetrachloride	137 Q
2,2,4-Trimethylpentane	122
Benzene	107
1,2-Dichloroethane	113
Heptane	112
Trichloroethene	112
1,2-Dichloropropane	111
1,4-Dioxane	113
Bromodichloromethane	116
cis-1,3-Dichloropropene	120
4-Methyl-2-pentanone	116
Toluene	115
trans-1,3-Dichloropropene	113
1,1,2-Trichloroethane	102
Tetrachloroethene	107

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104345A-14A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d042705**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/27/11 11:35 AM**	

Compound	%Recovery
2-Hexanone	102
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	107
Chlorobenzene	110
Ethyl Benzene	107
m,p-Xylene	108
o-Xylene	112
Styrene	107
Bromoform	115
Cumene	117
1,1,2,2-Tetrachloroethane	113
Propylbenzene	119
4-Ethyltoluene	123
1,3,5-Trimethylbenzene	116
1,2,4-Trimethylbenzene	117
1,3-Dichlorobenzene	115
1,4-Dichlorobenzene	121
alpha-Chlorotoluene	145 Q
1,2-Dichlorobenzene	115
1,2,4-Trichlorobenzene	113
Hexachlorobutadiene	115
Butane	96
Isopentane	92

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104345A-14B

EPA METHOD TO-15 GC/MS

File Name:	**b042805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 08:04 AM**	

Compound	%Recovery
Freon 12	88
Freon 114	93
Chloromethane	82
Vinyl Chloride	90
1,3-Butadiene	82
Bromomethane	89
Chloroethane	80
Freon 11	90
Ethanol	74
Freon 113	95
1,1-Dichloroethene	81
Acetone	80
2-Propanol	66 Q
Carbon Disulfide	84
3-Chloropropene	82
Methylene Chloride	79
Methyl tert-butyl ether	77
trans-1,2-Dichloroethene	88
Hexane	81
1,1-Dichloroethane	84
2-Butanone (Methyl Ethyl Ketone)	81
cis-1,2-Dichloroethene	82
Tetrahydrofuran	71
Chloroform	86
1,1,1-Trichloroethane	87
Cyclohexane	90
Carbon Tetrachloride	91
2,2,4-Trimethylpentane	82
Benzene	92
1,2-Dichloroethane	85
Heptane	91
Trichloroethene	90
1,2-Dichloropropane	87
1,4-Dioxane	91
Bromodichloromethane	90
cis-1,3-Dichloropropene	84
4-Methyl-2-pentanone	83
Toluene	92
trans-1,3-Dichloropropene	88
1,1,2-Trichloroethane	94
Tetrachloroethene	98

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104345A-14B

EPA METHOD TO-15 GC/MS

File Name:	**b042805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 08:04 AM**	

Compound	%Recovery
2-Hexanone	72
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	97
Chlorobenzene	98
Ethyl Benzene	96
m,p-Xylene	96
o-Xylene	97
Styrene	101
Bromoform	102
Cumene	104
1,1,2,2-Tetrachloroethane	91
Propylbenzene	94
4-Ethyltoluene	99
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	124
Hexachlorobutadiene	163 Q
Butane	82
Isopentane	74

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	85	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	108	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104345A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d042703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/27/11 10:19 AM**	

Compound	%Recovery
Freon 12	119
Freon 114	113
Chloromethane	104
Vinyl Chloride	104
1,3-Butadiene	96
Bromomethane	98
Chloroethane	98
Freon 11	116
Ethanol	85
Freon 113	111
1,1-Dichloroethene	108
Acetone	96
2-Propanol	97
Carbon Disulfide	128
3-Chloropropene	105
Methylene Chloride	102
Methyl tert-butyl ether	115
trans-1,2-Dichloroethene	115
Hexane	102
1,1-Dichloroethane	109
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	107
Tetrahydrofuran	99
Chloroform	118
1,1,1-Trichloroethane	127
Cyclohexane	144
Carbon Tetrachloride	136 Q
2,2,4-Trimethylpentane	120
Benzene	110
1,2-Dichloroethane	118
Heptane	117
Trichloroethene	114
1,2-Dichloropropane	114
1,4-Dioxane	111
Bromodichloromethane	122
cis-1,3-Dichloropropene	127
4-Methyl-2-pentanone	120
Toluene	120
trans-1,3-Dichloropropene	116
1,1,2-Trichloroethane	105
Tetrachloroethene	109

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104345A-15A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d042703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/27/11 10:19 AM**	

Compound	%Recovery
2-Hexanone	102
Dibromochloromethane	111
1,2-Dibromoethane (EDB)	110
Chlorobenzene	116
Ethyl Benzene	110
m,p-Xylene	113
o-Xylene	117
Styrene	108
Bromoform	118
Cumene	120
1,1,2,2-Tetrachloroethane	121
Propylbenzene	124
4-Ethyltoluene	123
1,3,5-Trimethylbenzene	119
1,2,4-Trimethylbenzene	119
1,3-Dichlorobenzene	121
1,4-Dichlorobenzene	119
alpha-Chlorotoluene	145 Q
1,2-Dichlorobenzene	119
1,2,4-Trichlorobenzene	114
Hexachlorobutadiene	115
Butane	92
Isopentane	95

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104345A-15AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d042704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/27/11 10:52 AM**	

Compound	%Recovery
Freon 12	117
Freon 114	111
Chloromethane	100
Vinyl Chloride	103
1,3-Butadiene	96
Bromomethane	99
Chloroethane	96
Freon 11	116
Ethanol	84
Freon 113	112
1,1-Dichloroethene	108
Acetone	96
2-Propanol	96
Carbon Disulfide	125
3-Chloropropene	109
Methylene Chloride	101
Methyl tert-butyl ether	113
trans-1,2-Dichloroethene	113
Hexane	107
1,1-Dichloroethane	107
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	108
Tetrahydrofuran	101
Chloroform	118
1,1,1-Trichloroethane	128
Cyclohexane	116
Carbon Tetrachloride	138 Q
2,2,4-Trimethylpentane	123
Benzene	108
1,2-Dichloroethane	114
Heptane	115
Trichloroethene	112
1,2-Dichloropropane	112
1,4-Dioxane	110
Bromodichloromethane	118
cis-1,3-Dichloropropene	121
4-Methyl-2-pentanone	115
Toluene	116
trans-1,3-Dichloropropene	113
1,1,2-Trichloroethane	104
Tetrachloroethene	108

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104345A-15AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**d042704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/27/11 10:52 AM**	

Compound	%Recovery
2-Hexanone	100
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	108
Chlorobenzene	112
Ethyl Benzene	108
m,p-Xylene	111
o-Xylene	114
Styrene	105
Bromoform	113
Cumene	118
1,1,2,2-Tetrachloroethane	117
Propylbenzene	121
4-Ethyltoluene	111
1,3,5-Trimethylbenzene	126
1,2,4-Trimethylbenzene	116
1,3-Dichlorobenzene	117
1,4-Dichlorobenzene	119
alpha-Chlorotoluene	142 Q
1,2-Dichlorobenzene	117
1,2,4-Trichlorobenzene	113
Hexachlorobutadiene	114
Butane	93
Isopentane	93

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	112	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS
Lab ID#: 1104345A-15B
EPA METHOD TO-15 GC/MS

File Name:	**b042803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 07:22 AM**	

Compound	%Recovery
Freon 12	75
Freon 114	80
Chloromethane	77
Vinyl Chloride	79
1,3-Butadiene	72
Bromomethane	78
Chloroethane	70
Freon 11	77
Ethanol	60
Freon 113	82
1,1-Dichloroethene	73
Acetone	67
2-Propanol	54 Q
Carbon Disulfide	89
3-Chloropropene	78
Methylene Chloride	67 Q
Methyl tert-butyl ether	64
trans-1,2-Dichloroethene	85
Hexane	68
1,1-Dichloroethane	72
2-Butanone (Methyl Ethyl Ketone)	66
cis-1,2-Dichloroethene	71
Tetrahydrofuran	56 Q
Chloroform	75
1,1,1-Trichloroethane	74
Cyclohexane	76
Carbon Tetrachloride	79
2,2,4-Trimethylpentane	69
Benzene	80
1,2-Dichloroethane	74
Heptane	76
Trichloroethene	77
1,2-Dichloropropane	75
1,4-Dioxane	73
Bromodichloromethane	77
cis-1,3-Dichloropropene	70
4-Methyl-2-pentanone	66
Toluene	78
trans-1,3-Dichloropropene	74
1,1,2-Trichloroethane	82
Tetrachloroethene	84

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104345A-15B

EPA METHOD TO-15 GC/MS

File Name:	**b042803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 07:22 AM**	

Compound	%Recovery
2-Hexanone	60
Dibromochloromethane	87
1,2-Dibromoethane (EDB)	87
Chlorobenzene	87
Ethyl Benzene	83
m,p-Xylene	85
o-Xylene	84
Styrene	87
Bromoform	86
Cumene	91
1,1,2,2-Tetrachloroethane	82
Propylbenzene	85
4-Ethyltoluene	85
1,3,5-Trimethylbenzene	86
1,2,4-Trimethylbenzene	85
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	83
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	121
Hexachlorobutadiene	139 Q
Butane	71
Isopentane	63

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	84	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	108	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD
Lab ID#: 1104345A-15BB
EPA METHOD TO-15 GC/MS

File Name:	**b042804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 07:41 AM**	

Compound	%Recovery
Freon 12	83
Freon 114	82
Chloromethane	78
Vinyl Chloride	81
1,3-Butadiene	73
Bromomethane	80
Chloroethane	73
Freon 11	79
Ethanol	62
Freon 113	85
1,1-Dichloroethene	76
Acetone	69
2-Propanol	56 Q
Carbon Disulfide	91
3-Chloropropene	80
Methylene Chloride	68 Q
Methyl tert-butyl ether	66
trans-1,2-Dichloroethene	88
Hexane	70
1,1-Dichloroethane	74
2-Butanone (Methyl Ethyl Ketone)	70
cis-1,2-Dichloroethene	72
Tetrahydrofuran	59 Q
Chloroform	77
1,1,1-Trichloroethane	77
Cyclohexane	78
Carbon Tetrachloride	81
2,2,4-Trimethylpentane	72
Benzene	81
1,2-Dichloroethane	74
Heptane	77
Trichloroethene	79
1,2-Dichloropropane	75
1,4-Dioxane	74
Bromodichloromethane	78
cis-1,3-Dichloropropene	71
4-Methyl-2-pentanone	67
Toluene	80
trans-1,3-Dichloropropene	76
1,1,2-Trichloroethane	82
Tetrachloroethene	85

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD
Lab ID#: 1104345A-15BB
EPA METHOD TO-15 GC/MS

File Name:	**b042804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 07:41 AM**	

Compound	%Recovery
2-Hexanone	61
Dibromochloromethane	88
1,2-Dibromoethane (EDB)	87
Chlorobenzene	89
Ethyl Benzene	84
m,p-Xylene	85
o-Xylene	85
Styrene	88
Bromoform	88
Cumene	92
1,1,2,2-Tetrachloroethane	82
Propylbenzene	86
4-Ethyltoluene	86
1,3,5-Trimethylbenzene	87
1,2,4-Trimethylbenzene	85
1,3-Dichlorobenzene	97
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	85
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	118
Hexachlorobutadiene	147 Q
Butane	70
Isopentane	65

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	107	70-130

1104345

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SOACH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Thomas Adams
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 8 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 04/15/11
PAGE: 1 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
CDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT MANAGER: Roxana Dissolved Phase
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (Print): M. Miller, E. Arthur, W. Buchman, C. Kretzer
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Thomas_Adams@URSCorp.com

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Turn Around Time: ☑ Normal ☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
01A	VMP-2-8.5-041311	04/13/11	1137 - 1204	3658	-28	-4					
02A	VMP-2-22-041311	04/13/11	1246 - 1315	2221	-30	-6					
03A	VMP-21-25-041411	04/14/11	1106 - 1135	3882	-30	-7					
04A	VMP-21-25-041411-Dup	04/14/11	1105 - 1135	3235	-30	-7					
05A	VMP-21-33-041411	04/14/11	1216 - 1245	3422	-30	-5.5					
06A	VMP-3-5-041411	04/14/11	1518 - 1548	2547	-29.5	-7					
07A	VMP-3-10-041311	04/13/11	1530 - 1559	308	-30	-5.5					
08A	VMP-3-31.5-041411	04/14/11	1625 - 1655	3707	-30	-6					
09A	VMP-3-31.5-041411-Dup	04/14/11	1626 - 1655	3080	-29.5	-6					
10A	VMP-3-22-041511	04/15/11	0930 - 1000	301	-29.5	-4					

Fedex

	Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		FEDEX	4/15/11	1900
		Mary Watson	4/16/11	0912

05/2/06 Revision

1104345

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Thomas Adams
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
SAP #: 3 4 0 0 6 1
DATE: 04/15/11
PAGE: 2 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
COP DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME#: Roxana Dissolved Phase
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Thomas_Adams@URSCorp.com
SAMPLER NAME(S) Print: M. Miller, E. Arthur, W. Buchman, C. Kretzer

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	Canister Pressure/Vacuum Receipt	Canister Pressure/Vacuum Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
[illegible]	VMP-20-5-041511	04/15/11	1108 - 1135	2074	-29	-6.5					
[illegible]	VMP-20-10-041511	04/15/11	1400 - 1435	5803	-30	-3.5					

Turn Around Time: ☑ Normal ☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Fedex
VSE
GBTI NA

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 4/15/11	Time: 1900
Relinquished by: (Signature)	Received by: (Signature)	Date: 4/16/11	Time: 0912
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/06 Revision

Air Toxics LTD.
Laboratory Services Since 1989

4/25/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #:
Workorder #: 1104345B

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/16/2011 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

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1104345B

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 #**	Roxana Dissolved Phase
DATE RECEIVED:	04/16/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/25/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-2-8.5-041311	Modified ASTM D-1946	4.6 "Hg	15 psi
02A	VMP-2-22-041311	Modified ASTM D-1946	7.0 "Hg	15 psi
03A	VMP-21-25-041411	Modified ASTM D-1946	6.8 "Hg	15 psi
04A	VMP-21-25-041411-Dup	Modified ASTM D-1946	6.8 "Hg	15 psi
05A	VMP-21-33-041411	Modified ASTM D-1946	7.4 "Hg	15 psi
10A	VMP-3-22-041511	Modified ASTM D-1946	5.6 "Hg	15 psi
11A	VMP-20-5-041511	Modified ASTM D-1946	7.2 "Hg	15 psi
12A	VMP-20-10-041511	Modified ASTM D-1946	5.0 "Hg	15 psi
13A	Lab Blank	Modified ASTM D-1946	NA	NA
13B	Lab Blank	Modified ASTM D-1946	NA	NA
14A	LCS	Modified ASTM D-1946	NA	NA
14AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Linda D. Frumarx DATE: 04/25/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1104345B

Eight 1 Liter Summa Canister samples were received on April 16, 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.

Requirement	*ASTM D-1946*	*ATL Modifications*
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 >/= 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 X's the RL.

Receiving Notes

The Chain of Custody was missing method information. ATL proceeded with the analysis as per the original contract or verbal agreement.

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

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-2-8.5-041311

Lab ID#: 1104345B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	5.4
Nitrogen	0.24	84
Methane	0.00024	0.0027
Carbon Dioxide	0.024	10
Helium	0.12	0.028 J

Client Sample ID: VMP-2-22-041311

Lab ID#: 1104345B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.7
Nitrogen	0.26	83
Methane	0.00026	4.3
Carbon Dioxide	0.026	11
Ethane	0.0026	0.0013 J
Helium	0.13	0.049 J

Client Sample ID: VMP-21-25-041411

Lab ID#: 1104345B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.7
Nitrogen	0.26	86
Methane	0.00026	3.9
Carbon Dioxide	0.026	6.1
Ethane	0.0026	0.0018 J
Helium	0.13	0.023 J

Client Sample ID: VMP-21-25-041411-Dup

Lab ID#: 1104345B-04A

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-21-25-041411-Dup

Lab ID#: 1104345B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.9
Nitrogen	0.26	86
Methane	0.00026	3.9
Carbon Dioxide	0.026	6.1
Ethane	0.0026	0.0018 J
Helium	0.13	0.063 J

Client Sample ID: VMP-21-33-041411

Lab ID#: 1104345B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	1.6
Nitrogen	0.27	86
Methane	0.00027	4.0
Carbon Dioxide	0.027	6.0
Ethane	0.0027	0.0018 J
Helium	0.13	0.026 J

Client Sample ID: VMP-3-22-041511

Lab ID#: 1104345B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	1.2
Nitrogen	0.25	56
Methane	0.00025	29
Carbon Dioxide	0.025	7.8
Ethane	0.0025	0.012
Helium	0.12	0.028 J

Client Sample ID: VMP-20-5-041511

Lab ID#: 1104345B-11A

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-20-5-041511

Lab ID#: 1104345B-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	9.7
Nitrogen	0.27	83
Methane	0.00027	0.0014
Carbon Dioxide	0.027	6.9
Helium	0.13	0.045 J

Client Sample ID: VMP-20-10-041511

Lab ID#: 1104345B-12A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	9.3
Nitrogen	0.24	83
Methane	0.00024	0.00010 J
Carbon Dioxide	0.024	7.3
Helium	0.12	0.039 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-2-8.5-041311

Lab ID#: 1104345B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042114**	**Date of Collection:**	**4/13/11 12:04:00 PM**
Dil. Factor:	**2.39**	**Date of Analysis:**	**4/22/11 08:04 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	5.4
Nitrogen	0.24	84
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	0.0027
Carbon Dioxide	0.024	10
Ethane	0.0024	Not Detected
Ethene	0.0024	Not Detected
Helium	0.12	0.028 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-2-22-041311

Lab ID#: 1104345B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042115**	**Date of Collection:**	**4/13/11 1:15:00 PM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**4/22/11 08:33 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.7
Nitrogen	0.26	83
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	4.3
Carbon Dioxide	0.026	11
Ethane	0.0026	0.0013 J
Ethene	0.0026	Not Detected
Helium	0.13	0.049 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-21-25-041411

Lab ID#: 1104345B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042116**	**Date of Collection:**	**4/14/11 11:35:00 AM**
Dil. Factor:	**2.61**	**Date of Analysis:**	**4/22/11 08:57 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.7
Nitrogen	0.26	86
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	3.9
Carbon Dioxide	0.026	6.1
Ethane	0.0026	0.0018 J
Ethene	0.0026	Not Detected
Helium	0.13	0.023 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-21-25-041411-Dup

Lab ID#: 1104345B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042118**	**Date of Collection:**	**4/14/11 11:35:00 AM**
Dil. Factor:	**2.61**	**Date of Analysis:**	**4/22/11 09:48 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.9
Nitrogen	0.26	86
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	3.9
Carbon Dioxide	0.026	6.1
Ethane	0.0026	0.0018 J
Ethene	0.0026	Not Detected
Helium	0.13	0.063 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-21-33-041411

Lab ID#: 1104345B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042119**	**Date of Collection:**	**4/14/11 12:45:00 PM**
Dil. Factor:	**2.68**	**Date of Analysis:**	**4/22/11 10:22 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	1.6
Nitrogen	0.27	86
Carbon Monoxide	0.027	Not Detected
Methane	0.00027	4.0
Carbon Dioxide	0.027	6.0
Ethane	0.0027	0.0018 J
Ethene	0.0027	Not Detected
Helium	0.13	0.026 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-3-22-041511

Lab ID#: 1104345B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042120**	**Date of Collection:**	**4/15/11 10:00:00 AM**
Dil. Factor:	**2.48**	**Date of Analysis:**	**4/22/11 10:46 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	1.2
Nitrogen	0.25	56
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	29
Carbon Dioxide	0.025	7.8
Ethane	0.0025	0.012
Ethene	0.0025	Not Detected
Helium	0.12	0.028 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-20-5-041511

Lab ID#: 1104345B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042122**	**Date of Collection:**	**4/15/11 11:35:00 AM**
Dil. Factor:	**2.66**	**Date of Analysis:**	**4/22/11 11:34 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	9.7
Nitrogen	0.27	83
Carbon Monoxide	0.027	Not Detected
Methane	0.00027	0.0014
Carbon Dioxide	0.027	6.9
Ethane	0.0027	Not Detected
Ethene	0.0027	Not Detected
Helium	0.13	0.045 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-20-10-041511

Lab ID#: 1104345B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042123**	**Date of Collection:**	**4/15/11 2:35:00 PM**
Dil. Factor:	**2.42**	**Date of Analysis:**	**4/22/11 11:58 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	9.3
Nitrogen	0.24	83
Carbon Monoxide	0.024	Not Detected
Methane	0.00024	0.00010 J
Carbon Dioxide	0.024	7.3
Ethane	0.0024	Not Detected
Ethene	0.0024	Not Detected
Helium	0.12	0.039 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104345B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042106a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/21/11 07:39 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.015 J
Nitrogen	0.10	0.061 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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104345B-13B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042105ba**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/21/11 06:59 PM**	

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

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104345B-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/21/11 06:31 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	100
Methane	102
Carbon Dioxide	101
Ethane	105
Ethene	103
Helium	94

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104345B-14AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042129**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/22/11 02:34 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	101
Methane	101
Carbon Dioxide	100
Ethane	104
Ethene	102
Helium	94

Container Type: NA - Not Applicable

11043 45

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Thomas Adams
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 04/15/11
PAGE: 1 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
CO. DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth.Kunkel@URSCorp.com
CONSULTANT PROJECT NAME #: Roxana Dissolved Phase
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Thomas.Adams@URSCorp.com
SAMPLER NAME(S) (print): M. Miller, E. Arthur, W. Buchman, C. Kretzer

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
01A	VMP-2-8.5-041311	04/13/11	1137 - 1204	3858	-28	-4					
02A	VMP-2-22-041311	04/13/11	1246 - 1315	2221	-30	-6					
03A	VMP-21-25-041411	04/14/11	1105 - 1135	3882	-30	-7					
04A	VMP-21-25-041411-Dup	04/14/11	1105 - 1135	3235	-30	-7					
05A	VMP-21-33-041411	04/14/11	1215 - 1245	3422	-30	-5.5					
06A	VMP-3-5-041411	04/14/11	1518 - 1548	2547	-29.5	-7					
07A	VMP-3-10-041311	04/13/11	1530 - 1559	308	-30	-5.6					
08A	VMP-3-31.5-041411	04/14/11	1625 - 1655	3707	-30	-6					
09A	VMP-3-31.5-041411-Dup	04/14/11	1625 - 1655	3080	-29.5	-6					
10A	VMP-3-22-041511	04/15/11	0930 - 1000	301	-29.5	-4					

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Fedex

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 4/15/11	Time: 1800
Relinquished by: (Signature)	Received by: (Signature)	Date: 4/16/11	Time: 0912
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/06 Revision

11043 45

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CN ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Thomas Adams
PO #:
INCIDENT # (ENV SERVICES): 97216840
SAP #: 340061
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 04/15/11
PAGE: 2 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Thomas_Adams@URSCorp.com

SITE ADDRESS: Street and City: 800 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME#: Roxana Dissolved Phase
SAMPLER NAME(S) (PRINT): M. Miller, E. Arthur, W. Buchman, C. Kretzer

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Turn Around Time: ☑ Normal ☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946				
01A	VMP-20-5-041511	04/15/11	1108 - 1135	2074	-29	-6.5									
02A	VMP-20-10-041511	04/15/11	1400 - 1435	5803	-30	-3.5									

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 4/15/11	Time: 1900
Relinquished by: (Signature)	Received by: (Signature)	Date: 4/16/11	Time: 0912
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/05 Revision

Air Toxics LTD.
Laboratory Services Since 1989

4/25/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #:
Workorder #: 1104345C

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/16/2011 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

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1104345C

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 #**	Roxana Dissolved Phase
DATE RECEIVED:	04/16/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/25/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
06A	VMP-3-5-041411	Modified TO-15	6.8 "Hg	15 psi
07A	VMP-3-10-041311	Modified TO-15	7.6 "Hg	15 psi
08A	VMP-3-31.5-041411	Modified TO-15	5.8 "Hg	15 psi
09A	VMP-3-31.5-041411-Dup	Modified TO-15	5.8 "Hg	15 psi
10A	Lab Blank	Modified TO-15	NA	NA
11A	CCV	Modified TO-15	NA	NA
12A	LCS	Modified TO-15	NA	NA
12AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Truman DATE: 04/25/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

LABORATORY NARRATIVE
EPA Method TO-15 Soil Gas
URS Corporation
Workorder# 1104345C

Four 1 Liter Summa Canister samples were received on April 16, 2011. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

Receiving Notes

The Chain of Custody was missing method information. ATL proceeded with the analysis as per the original contract or verbal agreement.

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.

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

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-3-5-041411

Lab ID#: 1104345C-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	6500	67000	23000	240000
Cyclohexane	6500	61000	22000	210000
2,2,4-Trimethylpentane	6500	230000	30000	1100000
Butane	26000	4000000	62000	9600000
Isopentane	26000	4100000	77000	12000000

Client Sample ID: VMP-3-10-041311

Lab ID#: 1104345C-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	11000	160000	40000	560000
Cyclohexane	11000	160000	39000	570000
2,2,4-Trimethylpentane	11000	400000	52000	1900000
Butane	45000	8000000	110000	19000000
Isopentane	45000	7100000	130000	21000000

Client Sample ID: VMP-3-31.5-041411

Lab ID#: 1104345C-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	42000	2700000	150000	9600000
Cyclohexane	42000	260000	140000	910000
2,2,4-Trimethylpentane	42000	920000	190000	4300000
Benzene	42000	32000 J	130000	100000 J
Heptane	42000	120000	170000	510000
Butane	170000	28000000	400000	68000000
Isopentane	170000	18000000	490000	52000000

Client Sample ID: VMP-3-31.5-041411-Dup

Lab ID#: 1104345C-09A

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-3-31.5-041411-Dup

Lab ID#: 1104345C-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	42000	2500000	150000	8800000
Cyclohexane	42000	240000	140000	830000
2,2,4-Trimethylpentane	42000	840000	190000	3900000
Benzene	42000	28000 J	130000	89000 J
Heptane	42000	110000	170000	450000
Butane	170000	26000000	400000	63000000
Isopentane	170000	16000000	490000	48000000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-3-5-041411

Lab ID#: 1104345C-06A

EPA METHOD TO-15 GC/MS

File Name:	**b042220**	**Date of Collection:**	**4/14/11 3:48:00 PM**
Dil. Factor:	**1300**	**Date of Analysis:**	**4/22/11 05:20 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	6500	Not Detected	32000	Not Detected
Freon 114	6500	Not Detected	45000	Not Detected
Chloromethane	26000	Not Detected	54000	Not Detected
Vinyl Chloride	6500	Not Detected	17000	Not Detected
1,3-Butadiene	6500	Not Detected	14000	Not Detected
Bromomethane	6500	Not Detected	25000	Not Detected
Chloroethane	26000	Not Detected	69000	Not Detected
Freon 11	6500	Not Detected	36000	Not Detected
Ethanol	26000	Not Detected	49000	Not Detected
Freon 113	6500	Not Detected	50000	Not Detected
1,1-Dichloroethene	6500	Not Detected	26000	Not Detected
Acetone	26000	Not Detected	62000	Not Detected
2-Propanol	26000	Not Detected UJ UT	64000	Not Detected UJ UJ
Carbon Disulfide	6500	Not Detected	20000	Not Detected
3-Chloropropene	26000	Not Detected	81000	Not Detected
Methylene Chloride	6500	Not Detected	22000	Not Detected
Methyl tert-butyl ether	6500	Not Detected	23000	Not Detected
trans-1,2-Dichloroethene	6500	Not Detected	26000	Not Detected
Hexane	6500	67000	23000	240000
1,1-Dichloroethane	6500	Not Detected	26000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	26000	Not Detected	77000	Not Detected
cis-1,2-Dichloroethene	6500	Not Detected	26000	Not Detected
Tetrahydrofuran	6500	Not Detected	19000	Not Detected
Chloroform	6500	Not Detected	32000	Not Detected
1,1,1-Trichloroethane	6500	Not Detected	35000	Not Detected
Cyclohexane	6500	61000	22000	210000
Carbon Tetrachloride	6500	Not Detected	41000	Not Detected
2,2,4-Trimethylpentane	6500	230000	30000	1100000
Benzene	6500	Not Detected	21000	Not Detected
1,2-Dichloroethane	6500	Not Detected	26000	Not Detected
Heptane	6500	Not Detected	27000	Not Detected
Trichloroethene	6500	Not Detected	35000	Not Detected
1,2-Dichloropropane	6500	Not Detected	30000	Not Detected
1,4-Dioxane	26000	Not Detected	94000	Not Detected
Bromodichloromethane	6500	Not Detected	44000	Not Detected
cis-1,3-Dichloropropene	6500	Not Detected	30000	Not Detected
4-Methyl-2-pentanone	6500	Not Detected	27000	Not Detected
Toluene	6500	Not Detected	24000	Not Detected
trans-1,3-Dichloropropene	6500	Not Detected	30000	Not Detected
1,1,2-Trichloroethane	6500	Not Detected	35000	Not Detected
Tetrachloroethene	6500	Not Detected	44000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-3-5-041411

Lab ID#: 1104345C-06A

EPA METHOD TO-15 GC/MS

File Name:	**b042220**	**Date of Collection:**	**4/14/11 3:48:00 PM**
Dil. Factor:	**1300**	**Date of Analysis:**	**4/22/11 05:20 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	26000	Not Detected	110000	Not Detected
Dibromochloromethane	6500	Not Detected	55000	Not Detected
1,2-Dibromoethane (EDB)	6500	Not Detected	50000	Not Detected
Chlorobenzene	6500	Not Detected	30000	Not Detected
Ethyl Benzene	6500	Not Detected	28000	Not Detected
m,p-Xylene	6500	Not Detected	28000	Not Detected
o-Xylene	6500	Not Detected	28000	Not Detected
Styrene	6500	Not Detected	28000	Not Detected
Bromoform	6500	Not Detected	67000	Not Detected
Cumene	6500	Not Detected	32000	Not Detected
1,1,2,2-Tetrachloroethane	6500	Not Detected	45000	Not Detected
Propylbenzene	6500	Not Detected	32000	Not Detected
4-Ethyltoluene	6500	Not Detected	32000	Not Detected
1,3,5-Trimethylbenzene	6500	Not Detected	32000	Not Detected
1,2,4-Trimethylbenzene	6500	Not Detected	32000	Not Detected
1,3-Dichlorobenzene	6500	Not Detected	39000	Not Detected
1,4-Dichlorobenzene	6500	Not Detected	39000	Not Detected
alpha-Chlorotoluene	6500	Not Detected	34000	Not Detected
1,2-Dichlorobenzene	6500	Not Detected	39000	Not Detected
1,2,4-Trichlorobenzene	26000	Not Detected	190000	Not Detected
Hexachlorobutadiene	26000	Not Detected	280000	Not Detected
Butane	26000	4000000	62000	9600000
Isopentane	26000	4100000	77000	12000000

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

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-3-10-041311

Lab ID#: 1104345C-07A

EPA METHOD TO-15 GC/MS

File Name:	**b042221**	**Date of Collection:**	**4/13/11 3:56:00 PM**
Dil. Factor:	**2250**	**Date of Analysis:**	**4/22/11 05:45 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	11000	Not Detected	56000	Not Detected
Freon 114	11000	Not Detected	79000	Not Detected
Chloromethane	45000	Not Detected	93000	Not Detected
Vinyl Chloride	11000	Not Detected	29000	Not Detected
1,3-Butadiene	11000	Not Detected	25000	Not Detected
Bromomethane	11000	Not Detected	44000	Not Detected
Chloroethane	45000	Not Detected	120000	Not Detected
Freon 11	11000	Not Detected	63000	Not Detected
Ethanol	45000	Not Detected	85000	Not Detected
Freon 113	11000	Not Detected	86000	Not Detected
1,1-Dichloroethene	11000	Not Detected	45000	Not Detected
Acetone	45000	Not Detected	110000	Not Detected
2-Propanol	45000	Not Detected UJ UJ	110000	Not Detected UJ UJ
Carbon Disulfide	11000	Not Detected	35000	Not Detected
3-Chloropropene	45000	Not Detected	140000	Not Detected
Methylene Chloride	11000	Not Detected	39000	Not Detected
Methyl tert-butyl ether	11000	Not Detected	40000	Not Detected
trans-1,2-Dichloroethene	11000	Not Detected	45000	Not Detected
Hexane	11000	160000	40000	560000
1,1-Dichloroethane	11000	Not Detected	46000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	45000	Not Detected	130000	Not Detected
cis-1,2-Dichloroethene	11000	Not Detected	45000	Not Detected
Tetrahydrofuran	11000	Not Detected	33000	Not Detected
Chloroform	11000	Not Detected	55000	Not Detected
1,1,1-Trichloroethane	11000	Not Detected	61000	Not Detected
Cyclohexane	11000	160000	39000	570000
Carbon Tetrachloride	11000	Not Detected	71000	Not Detected
2,2,4-Trimethylpentane	11000	400000	52000	1900000
Benzene	11000	Not Detected	36000	Not Detected
1,2-Dichloroethane	11000	Not Detected	46000	Not Detected
Heptane	11000	Not Detected	46000	Not Detected
Trichloroethene	11000	Not Detected	60000	Not Detected
1,2-Dichloropropane	11000	Not Detected	52000	Not Detected
1,4-Dioxane	45000	Not Detected	160000	Not Detected
Bromodichloromethane	11000	Not Detected	75000	Not Detected
cis-1,3-Dichloropropene	11000	Not Detected	51000	Not Detected
4-Methyl-2-pentanone	11000	Not Detected	46000	Not Detected
Toluene	11000	Not Detected	42000	Not Detected
trans-1,3-Dichloropropene	11000	Not Detected	51000	Not Detected
1,1,2-Trichloroethane	11000	Not Detected	61000	Not Detected
Tetrachloroethene	11000	Not Detected	76000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-3-10-041311

Lab ID#: 1104345C-07A

EPA METHOD TO-15 GC/MS

File Name:	**b042221**	**Date of Collection: 4/13/11 3:56:00 PM**	
Dil. Factor:	**2250**	**Date of Analysis: 4/22/11 05:45 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	45000	Not Detected	180000	Not Detected
Dibromochloromethane	11000	Not Detected	96000	Not Detected
1,2-Dibromoethane (EDB)	11000	Not Detected	86000	Not Detected
Chlorobenzene	11000	Not Detected	52000	Not Detected
Ethyl Benzene	11000	Not Detected	49000	Not Detected
m,p-Xylene	11000	Not Detected	49000	Not Detected
o-Xylene	11000	Not Detected	49000	Not Detected
Styrene	11000	Not Detected	48000	Not Detected
Bromoform	11000	Not Detected	120000	Not Detected
Cumene	11000	Not Detected	55000	Not Detected
1,1,2,2-Tetrachloroethane	11000	Not Detected	77000	Not Detected
Propylbenzene	11000	Not Detected	55000	Not Detected
4-Ethyltoluene	11000	Not Detected	55000	Not Detected
1,3,5-Trimethylbenzene	11000	Not Detected	55000	Not Detected
1,2,4-Trimethylbenzene	11000	Not Detected	55000	Not Detected
1,3-Dichlorobenzene	11000	Not Detected	68000	Not Detected
1,4-Dichlorobenzene	11000	Not Detected	68000	Not Detected
alpha-Chlorotoluene	11000	Not Detected	58000	Not Detected
1,2-Dichlorobenzene	11000	Not Detected	68000	Not Detected
1,2,4-Trichlorobenzene	45000	Not Detected	330000	Not Detected
Hexachlorobutadiene	45000	Not Detected	480000	Not Detected
Butane	45000	8000000	110000	19000000
Isopentane	45000	7100000	130000	21000000

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

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-3-31.5-041411

Lab ID#: 1104345C-08A

EPA METHOD TO-15 GC/MS

File Name:	**b042223**	**Date of Collection:**	**4/14/11 4:55:00 PM**
Dil. Factor:	**8330**	**Date of Analysis:**	**4/22/11 06:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	42000	Not Detected	200000	Not Detected
Freon 114	42000	Not Detected	290000	Not Detected
Chloromethane	170000	Not Detected	340000	Not Detected
Vinyl Chloride	42000	Not Detected	110000	Not Detected
1,3-Butadiene	42000	Not Detected	92000	Not Detected
Bromomethane	42000	Not Detected	160000	Not Detected
Chloroethane	170000	Not Detected	440000	Not Detected
Freon 11	42000	Not Detected	230000	Not Detected
Ethanol	170000	Not Detected	310000	Not Detected
Freon 113	42000	Not Detected	320000	Not Detected
1,1-Dichloroethene	42000	Not Detected	160000	Not Detected
Acetone	170000	Not Detected	400000	Not Detected
2-Propanol	170000	Not Detected UJ UJ	410000	Not Detected UJ UJ
Carbon Disulfide	42000	Not Detected	130000	Not Detected
3-Chloropropene	170000	Not Detected	520000	Not Detected
Methylene Chloride	42000	Not Detected	140000	Not Detected
Methyl tert-butyl ether	42000	Not Detected	150000	Not Detected
trans-1,2-Dichloroethene	42000	Not Detected	160000	Not Detected
Hexane	42000	2700000	150000	9600000
1,1-Dichloroethane	42000	Not Detected	170000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	170000	Not Detected	490000	Not Detected
cis-1,2-Dichloroethene	42000	Not Detected	160000	Not Detected
Tetrahydrofuran	42000	Not Detected	120000	Not Detected
Chloroform	42000	Not Detected	200000	Not Detected
1,1,1-Trichloroethane	42000	Not Detected	230000	Not Detected
Cyclohexane	42000	260000	140000	910000
Carbon Tetrachloride	42000	Not Detected	260000	Not Detected
2,2,4-Trimethylpentane	42000	920000	190000	4300000
Benzene	42000	32000 J	130000	100000 J
1,2-Dichloroethane	42000	Not Detected	170000	Not Detected
Heptane	42000	120000	170000	510000
Trichloroethene	42000	Not Detected	220000	Not Detected
1,2-Dichloropropane	42000	Not Detected	190000	Not Detected
1,4-Dioxane	170000	Not Detected	600000	Not Detected
Bromodichloromethane	42000	Not Detected	280000	Not Detected
cis-1,3-Dichloropropene	42000	Not Detected	190000	Not Detected
4-Methyl-2-pentanone	42000	Not Detected	170000	Not Detected
Toluene	42000	Not Detected	160000	Not Detected
trans-1,3-Dichloropropene	42000	Not Detected	190000	Not Detected
1,1,2-Trichloroethane	42000	Not Detected	230000	Not Detected
Tetrachloroethene	42000	Not Detected	280000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-3-31.5-041411

Lab ID#: 1104345C-08A

EPA METHOD TO-15 GC/MS

File Name:	**b042223**	**Date of Collection:**	**4/14/11 4:55:00 PM**
Dil. Factor:	**8330**	**Date of Analysis:**	**4/22/11 06:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	170000	Not Detected	680000	Not Detected
Dibromochloromethane	42000	Not Detected	350000	Not Detected
1,2-Dibromoethane (EDB)	42000	Not Detected	320000	Not Detected
Chlorobenzene	42000	Not Detected	190000	Not Detected
Ethyl Benzene	42000	Not Detected	180000	Not Detected
m,p-Xylene	42000	Not Detected	180000	Not Detected
o-Xylene	42000	Not Detected	180000	Not Detected
Styrene	42000	Not Detected	180000	Not Detected
Bromoform	42000	Not Detected	430000	Not Detected
Cumene	42000	Not Detected	200000	Not Detected
1,1,2,2-Tetrachloroethane	42000	Not Detected	280000	Not Detected
Propylbenzene	42000	Not Detected	200000	Not Detected
4-Ethyltoluene	42000	Not Detected	200000	Not Detected
1,3,5-Trimethylbenzene	42000	Not Detected	200000	Not Detected
1,2,4-Trimethylbenzene	42000	Not Detected	200000	Not Detected
1,3-Dichlorobenzene	42000	Not Detected	250000	Not Detected
1,4-Dichlorobenzene	42000	Not Detected	250000	Not Detected
alpha-Chlorotoluene	42000	Not Detected	220000	Not Detected
1,2-Dichlorobenzene	42000	Not Detected	250000	Not Detected
1,2,4-Trichlorobenzene	170000	Not Detected	1200000	Not Detected
Hexachlorobutadiene	170000	Not Detected	1800000	Not Detected
Butane	170000	28000000	400000	68000000
Isopentane	170000	18000000	490000	52000000

UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
J = Estimated value.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-3-31.5-041411-Dup

Lab ID#: 1104345C-09A

EPA METHOD TO-15 GC/MS

File Name:	**b042224**	**Date of Collection:**	**4/14/11 4:55:00 PM**
Dil. Factor:	**8330**	**Date of Analysis:**	**4/22/11 07:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	42000	Not Detected	200000	Not Detected
Freon 114	42000	Not Detected	290000	Not Detected
Chloromethane	170000	Not Detected	340000	Not Detected
Vinyl Chloride	42000	Not Detected	110000	Not Detected
1,3-Butadiene	42000	Not Detected	92000	Not Detected
Bromomethane	42000	Not Detected	160000	Not Detected
Chloroethane	170000	Not Detected	440000	Not Detected
Freon 11	42000	Not Detected	230000	Not Detected
Ethanol	170000	Not Detected	310000	Not Detected
Freon 113	42000	Not Detected	320000	Not Detected
1,1-Dichloroethene	42000	Not Detected	160000	Not Detected
Acetone	170000	Not Detected	400000	Not Detected
2-Propanol	170000	Not Detected UJ UJ	410000	Not Detected UJ UJ
Carbon Disulfide	42000	Not Detected	130000	Not Detected
3-Chloropropene	170000	Not Detected	520000	Not Detected
Methylene Chloride	42000	Not Detected	140000	Not Detected
Methyl tert-butyl ether	42000	Not Detected	150000	Not Detected
trans-1,2-Dichloroethene	42000	Not Detected	160000	Not Detected
Hexane	42000	2500000	150000	8800000
1,1-Dichloroethane	42000	Not Detected	170000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	170000	Not Detected	490000	Not Detected
cis-1,2-Dichloroethene	42000	Not Detected	160000	Not Detected
Tetrahydrofuran	42000	Not Detected	120000	Not Detected
Chloroform	42000	Not Detected	200000	Not Detected
1,1,1-Trichloroethane	42000	Not Detected	230000	Not Detected
Cyclohexane	42000	240000	140000	830000
Carbon Tetrachloride	42000	Not Detected	260000	Not Detected
2,2,4-Trimethylpentane	42000	840000	190000	3900000
Benzene	42000	28000 J	130000	89000 J
1,2-Dichloroethane	42000	Not Detected	170000	Not Detected
Heptane	42000	110000	170000	450000
Trichloroethene	42000	Not Detected	220000	Not Detected
1,2-Dichloropropane	42000	Not Detected	190000	Not Detected
1,4-Dioxane	170000	Not Detected	600000	Not Detected
Bromodichloromethane	42000	Not Detected	280000	Not Detected
cis-1,3-Dichloropropene	42000	Not Detected	190000	Not Detected
4-Methyl-2-pentanone	42000	Not Detected	170000	Not Detected
Toluene	42000	Not Detected	160000	Not Detected
trans-1,3-Dichloropropene	42000	Not Detected	190000	Not Detected
1,1,2-Trichloroethane	42000	Not Detected	230000	Not Detected
Tetrachloroethene	42000	Not Detected	280000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-3-31.5-041411-Dup

Lab ID#: 1104345C-09A

EPA METHOD TO-15 GC/MS

File Name:	**b042224**	**Date of Collection:**	**4/14/11 4:55:00 PM**
Dil. Factor:	**8330**	**Date of Analysis:**	**4/22/11 07:16 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	170000	Not Detected	680000	Not Detected
Dibromochloromethane	42000	Not Detected	350000	Not Detected
1,2-Dibromoethane (EDB)	42000	Not Detected	320000	Not Detected
Chlorobenzene	42000	Not Detected	190000	Not Detected
Ethyl Benzene	42000	Not Detected	180000	Not Detected
m,p-Xylene	42000	Not Detected	180000	Not Detected
o-Xylene	42000	Not Detected	180000	Not Detected
Styrene	42000	Not Detected	180000	Not Detected
Bromoform	42000	Not Detected	430000	Not Detected
Cumene	42000	Not Detected	200000	Not Detected
1,1,2,2-Tetrachloroethane	42000	Not Detected	280000	Not Detected
Propylbenzene	42000	Not Detected	200000	Not Detected
4-Ethyltoluene	42000	Not Detected	200000	Not Detected
1,3,5-Trimethylbenzene	42000	Not Detected	200000	Not Detected
1,2,4-Trimethylbenzene	42000	Not Detected	200000	Not Detected
1,3-Dichlorobenzene	42000	Not Detected	250000	Not Detected
1,4-Dichlorobenzene	42000	Not Detected	250000	Not Detected
alpha-Chlorotoluene	42000	Not Detected	220000	Not Detected
1,2-Dichlorobenzene	42000	Not Detected	250000	Not Detected
1,2,4-Trichlorobenzene	170000	Not Detected	1200000	Not Detected
Hexachlorobutadiene	170000	Not Detected	1800000	Not Detected
Butane	170000	26000000	400000	63000000
Isopentane	170000	16000000	490000	48000000

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

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104345C-10A

EPA METHOD TO-15 GC/MS

File Name:	**b042207c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/22/11 10:13 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 UJ	49	Not Detected UJ
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104345C-10A

EPA METHOD TO-15 GC/MS

File Name:	**b042207c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/22/11 10:13 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

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV
Lab ID#: 1104345C-11A
EPA METHOD TO-15 GC/MS

File Name:	**b042202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/22/11 07:52 AM**	

Compound	%Recovery
Freon 12	90
Freon 114	90
Chloromethane	84
Vinyl Chloride	90
1,3-Butadiene	84
Bromomethane	88
Chloroethane	81
Freon 11	90
Ethanol	76
Freon 113	93
1,1-Dichloroethene	81
Acetone	78
2-Propanol	69 Q
Carbon Disulfide	83
3-Chloropropene	80
Methylene Chloride	79
Methyl tert-butyl ether	78
trans-1,2-Dichloroethene	86
Hexane	80
1,1-Dichloroethane	83
2-Butanone (Methyl Ethyl Ketone)	80
cis-1,2-Dichloroethene	82
Tetrahydrofuran	72
Chloroform	85
1,1,1-Trichloroethane	85
Cyclohexane	87
Carbon Tetrachloride	90
2,2,4-Trimethylpentane	81
Benzene	88
1,2-Dichloroethane	84
Heptane	87
Trichloroethene	87
1,2-Dichloropropane	83
1,4-Dioxane	85
Bromodichloromethane	86
cis-1,3-Dichloropropene	81
4-Methyl-2-pentanone	83
Toluene	87
trans-1,3-Dichloropropene	85
1,1,2-Trichloroethane	91
Tetrachloroethene	92

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104345C-11A

EPA METHOD TO-15 GC/MS

File Name:	**b042202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/22/11 07:52 AM**	

Compound	%Recovery
2-Hexanone	76
Dibromochloromethane	97
1,2-Dibromoethane (EDB)	95
Chlorobenzene	95
Ethyl Benzene	94
m,p-Xylene	93
o-Xylene	95
Styrene	101
Bromoform	94
Cumene	101
1,1,2,2-Tetrachloroethane	87
Propylbenzene	92
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	96
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	100
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	120
Hexachlorobutadiene	149 Q
Butane	84
Isopentane	75

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS
Lab ID#: 1104345C-12A
EPA METHOD TO-15 GC/MS

File Name:	**b042204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/22/11 08:56 AM**	

Compound	%Recovery
Freon 12	95
Freon 114	93
Chloromethane	91
Vinyl Chloride	94
1,3-Butadiene	88
Bromomethane	92
Chloroethane	85
Freon 11	91
Ethanol	72
Freon 113	95
1,1-Dichloroethene	89
Acetone	82
2-Propanol	72
Carbon Disulfide	104
3-Chloropropene	94
Methylene Chloride	80
Methyl tert-butyl ether	83
trans-1,2-Dichloroethene	99
Hexane	82
1,1-Dichloroethane	86
2-Butanone (Methyl Ethyl Ketone)	83
cis-1,2-Dichloroethene	83
Tetrahydrofuran	73
Chloroform	89
1,1,1-Trichloroethane	89
Cyclohexane	90
Carbon Tetrachloride	93
2,2,4-Trimethylpentane	84
Benzene	90
1,2-Dichloroethane	84
Heptane	88
Trichloroethene	89
1,2-Dichloropropane	87
1,4-Dioxane	88
Bromodichloromethane	88
cis-1,3-Dichloropropene	84
4-Methyl-2-pentanone	85
Toluene	89
trans-1,3-Dichloropropene	89
1,1,2-Trichloroethane	92
Tetrachloroethene	94

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104345C-12A

EPA METHOD TO-15 GC/MS

File Name:	**b042204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/22/11 08:56 AM**	

Compound	%Recovery
2-Hexanone	78
Dibromochloromethane	99
1,2-Dibromoethane (EDB)	96
Chlorobenzene	98
Ethyl Benzene	96
m,p-Xylene	98
o-Xylene	98
Styrene	101
Bromoform	96
Cumene	105
1,1,2,2-Tetrachloroethane	92
Propylbenzene	97
4-Ethyltoluene	97
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	107
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	133 Q
Hexachlorobutadiene	165 Q
Butane	86
Isopentane	76

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD
Lab ID#: 1104345C-12AA
EPA METHOD TO-15 GC/MS

File Name:	**b042205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/22/11 09:22 AM**	

Compound	%Recovery
Freon 12	84
Freon 114	82
Chloromethane	81
Vinyl Chloride	83
1,3-Butadiene	76
Bromomethane	82
Chloroethane	73
Freon 11	80
Ethanol	66
Freon 113	84
1,1-Dichloroethene	78
Acetone	72
2-Propanol	62
Carbon Disulfide	92
3-Chloropropene	83
Methylene Chloride	70
Methyl tert-butyl ether	72
trans-1,2-Dichloroethene	88
Hexane	71
1,1-Dichloroethane	75
2-Butanone (Methyl Ethyl Ketone)	71
cis-1,2-Dichloroethene	74
Tetrahydrofuran	63
Chloroform	77
1,1,1-Trichloroethane	79
Cyclohexane	79
Carbon Tetrachloride	82
2,2,4-Trimethylpentane	73
Benzene	80
1,2-Dichloroethane	76
Heptane	79
Trichloroethene	79
1,2-Dichloropropane	77
1,4-Dioxane	77
Bromodichloromethane	78
cis-1,3-Dichloropropene	74
4-Methyl-2-pentanone	73
Toluene	79
trans-1,3-Dichloropropene	78
1,1,2-Trichloroethane	82
Tetrachloroethene	84

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD
Lab ID#: 1104345C-12AA
EPA METHOD TO-15 GC/MS

File Name:	**b042205**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/22/11 09:22 AM**

Compound	%Recovery
2-Hexanone	68
Dibromochloromethane	87
1,2-Dibromoethane (EDB)	86
Chlorobenzene	88
Ethyl Benzene	86
m,p-Xylene	87
o-Xylene	87
Styrene	89
Bromoform	85
Cumene	92
1,1,2,2-Tetrachloroethane	82
Propylbenzene	87
4-Ethyltoluene	88
1,3,5-Trimethylbenzene	88
1,2,4-Trimethylbenzene	90
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	95
alpha-Chlorotoluene	88
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	122
Hexachlorobutadiene	144 Q
Butane	74
Isopentane	67

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	87	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130

1104345

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&DM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER:

Print Bill To Contact Name: Thomas Adams
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 8 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 04/15/11
PAGE: 1 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
LAB DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NUMBER: Roxana Dissolved Phase
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
EDD To Contact E-MAIL: Thomas.Adams@URSCorp.com
SAMPLER NAME(S) PRINT: M. Miller, E. Arthur, W. Buchman, C. Kretzer

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Lab Sample (Lab Use Only)	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	Canister Pressure/Vacuum Receipt	Canister Pressure/Vacuum Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1945				
01A	VMP-2-6.5-041311	04/13/11	1137 - 1204	3659	-28	-4									
02A	VMP-2-22-041311	04/13/11	1248 - 1315	2221	-30	-8									
03A	VMP-21-25-041411	04/14/11	1105 - 1135	3882	-30	-7									
04A	VMP-21-25-041411-Dup	04/14/11	1105 - 1135	3235	-30	-7									
05A	VMP-21-33-041411	04/14/11	1218 - 1245	3422	-30	-5.5									
06A	VMP-3-5-041411	04/14/11	1518 - 1548	2547	-29.5	-7									
07A	VMP-3-10-041311	04/13/11	1530 - 1558	308	-30	-5.5									
08A	VMP-3-31.5-041411	04/14/11	1825 - 1855	3707	-30	-6									
09A	VMP-3-31.5-041411-Dup	04/14/11	1825 - 1855	3080	-29.5	-6									
10A	VMP-3-22-041511	04/15/11	0830 - 1000	301	-29.5	-4									

Turn Around Time:
☑ Normal
☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Fedex

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	4/15/11	1500
Relinquished by: (Signature)	Received by: (Signature)	4/16/11	0912
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

05/2008 Revision

Air Toxics LTD.
Laboratory Services Since 1989

4/25/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #:
Workorder #: 1104345D

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/16/2011 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 #: 1104345D

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 #**	Roxana Dissolved Phase
DATE RECEIVED:	04/16/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/25/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
06A	VMP-3-5-041411	Modified ASTM D-1946	6.8 "Hg	15 psi
07A	VMP-3-10-041311	Modified ASTM D-1946	7.6 "Hg	15 psi
08A	VMP-3-31.5-041411	Modified ASTM D-1946	5.8 "Hg	15 psi
09A	VMP-3-31.5-041411-Dup	Modified ASTM D-1946	5.8 "Hg	15 psi
10A	Lab Blank	Modified ASTM D-1946	NA	NA
10B	Lab Blank	Modified ASTM D-1946	NA	NA
11A	LCS	Modified ASTM D-1946	NA	NA
11AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Linda D. Truman DATE: 04/25/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1104345D

Four 1 Liter Summa Canister samples were received on April 16, 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.

Requirement	*ASTM D-1946*	*ATL Modifications*
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 >/= 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 X's the RL.

Receiving Notes

The Chain of Custody was missing method information. ATL proceeded with the analysis as per the original contract or verbal agreement.

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

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-3-5-041411

Lab ID#: 1104345D-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.6
Nitrogen	0.26	71
Methane	0.00026	15
Carbon Dioxide	0.026	9.8
Ethane	0.0026	0.0053
Helium	0.13	0.48

Client Sample ID: VMP-3-10-041311

Lab ID#: 1104345D-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	1.2
Nitrogen	0.27	64
Methane	0.00027	22
Carbon Dioxide	0.027	8.2
Ethane	0.0027	0.0092
Helium	0.14	0.098 J

Client Sample ID: VMP-3-31.5-041411

Lab ID#: 1104345D-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	0.86
Nitrogen	0.25	33
Methane	0.00025	48
Carbon Dioxide	0.025	5.7
Ethane	0.0025	0.016
Helium	0.12	0.019 J

Client Sample ID: VMP-3-31.5-041411-Dup

Lab ID#: 1104345D-09A

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-3-31.5-041411-Dup

Lab ID#: 1104345D-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	1.0
Nitrogen	0.25	32
Methane	0.00025	48
Carbon Dioxide	0.025	5.7
Ethane	0.0025	0.016
Helium	0.12	0.066 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-3-5-041411

Lab ID#: 1104345D-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042124**	**Date of Collection:**	**4/14/11 3:48:00 PM**
Dil. Factor:	**2.61**	**Date of Analysis:**	**4/22/11 12:26 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.6
Nitrogen	0.26	71
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	15
Carbon Dioxide	0.026	9.8
Ethane	0.0026	0.0053
Ethene	0.0026	Not Detected
Helium	0.13	0.48

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-3-10-041311

Lab ID#: 1104345D-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042125**	**Date of Collection:**	**4/13/11 3:56:00 PM**
Dil. Factor:	**2.70**	**Date of Analysis:**	**4/22/11 12:51 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	1.2
Nitrogen	0.27	64
Carbon Monoxide	0.027	Not Detected
Methane	0.00027	22
Carbon Dioxide	0.027	8.2
Ethane	0.0027	0.0092
Ethene	0.0027	Not Detected
Helium	0.14	0.098 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-3-31.5-041411

Lab ID#: 1104345D-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042126**	**Date of Collection:**	**4/14/11 4:55:00 PM**
Dil. Factor:	**2.50**	**Date of Analysis:**	**4/22/11 01:15 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	0.86
Nitrogen	0.25	33
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	48
Carbon Dioxide	0.025	5.7
Ethane	0.0025	0.016
Ethene	0.0025	Not Detected
Helium	0.12	0.019 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-3-31.5-041411-Dup

Lab ID#: 1104345D-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042127**	**Date of Collection:**	**4/14/11 4:55:00 PM**
Dil. Factor:	**2.50**	**Date of Analysis:**	**4/22/11 01:42 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	1.0
Nitrogen	0.25	32
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	48
Carbon Dioxide	0.025	5.7
Ethane	0.0025	0.016
Ethene	0.0025	Not Detected
Helium	0.12	0.066 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104345D-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042106a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/21/11 07:39 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.10	0.015 J
Nitrogen	0.10	0.061 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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104345D-10B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042105ba**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/21/11 06:59 PM**	

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

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104345D-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/21/11 06:31 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	100
Methane	102
Carbon Dioxide	101
Ethane	105
Ethene	103
Helium	94

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104345D-11AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042129**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/22/11 02:34 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	101
Methane	101
Carbon Dioxide	100
Ethane	104
Ethene	102
Helium	94

Container Type: NA - Not Applicable

1104345

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008

Please Check Appropriate Box: ☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Thomas Adams
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 8 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 04/15/11
PAGE: 1 of 2

LAB COMPANY: URS CORPORATION
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
EDD To Contact E-MAIL: Thomas_Adams@URSCorp.com

SITE ADDRESS: Street and City: 800 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO:
EDF DELIVERABLES TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME: Roxana Dissolved Phase
SAMPLER NAME(S) (Print): M. Miller, E. Arthur, W. Buchman, C. Kretzer

TURNAROUND TIME (CALENDAR DAYS): ☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA – RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Lab Sample ID (Lab Only)	Field Sample Identification	Sampling Date	Sampling Time	Canister Number	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	Canister Pressure/Vacuum Receipt	Canister Pressure/Vacuum Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
01A	VMP-2-8.5-041311	04/13/11	1137 - 1204	3658	-28	-4					
02A	VMP-2-22-041311	04/13/11	1248 - 1315	2221	-30	-6					
03A	VMP-21-25-041411	04/14/11	1105 - 1135	3882	-30	-7					
04A	VMP-21-25-041411-Dup	04/14/11	1105 - 1135	3235	-30	-7					
05A	VMP-21-33-041411	04/14/11	1210 - 1245	3422	-30	-5.5					
06A	VMP-3-5-041411	04/14/11	1518 - 1548	2647	-29.5	-7					
07A	VMP-3-10-041311	04/13/11	1530 - 1558	308	-30	-5.5					
08A	VMP-3-31.5-041411	04/14/11	1823 - 1855	3707	-30	-6					
09A	VMP-3-31.5-041411-Dup	04/14/11	1825 - 1858	3080	-29.5	-6					
10A	VMP-3-22-041511	04/15/11	0930 - 1000	301	-29.5	-4					

Fedex

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	4/15/11	1900
		4/16/11	0912

05/06 Revision

Roxana 2Q2011 Vapor Data Review

Laboratory SDG: 1104420A, B

Data Reviewer: Tony Sedlacek

Peer Reviewer: Jeff Aust

Date Reviewed: 6/29/2011

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-20-25-041511	VMP-22-5-041811
VMP-22-10-041811	VMP-22-18-041811
VMP-22-38-041811	

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 samples VMP-22-10-041811 and VMP-22-38-041811 were diluted due to high levels of target analytes. TO-15 LCS and CCV recoveries were outside evaluation criteria. Although not indicated in the laboratory case narrative, analytes were detected in ASTM D-1946 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 Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1104420B-06A	ASTM D-1946	Oxygen	0.014 %
1104420B-06A	ASTM D-1946	Nitrogen	0.067 %

Analytical data were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration and did not require qualification.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	LCS/LCSD Criteria
1104420A-08A/08AA	TO-15	2-Propanol	**54/56**	60-140
1104420A-08A/08AA	TO-15	Methylene chloride	**67/68**	70-130
1104420A-08A/08AA	TO-15	Tetrahydrofuran	**56/59**	60-140
1104420A-08A/08AA	TO-15	Hexachlorobutadiene	**139/147**	70-130

Analytical data that required qualification based on LCS data are included in the table below. All associated data were reported as nondetect for Hexachlorobutadiene and associated with an LCS recovery above evaluation criteria, indicating a possible high bias; therefore, no qualification of data was required.

Field ID	Parameter	Analyte	Qualification
VMP-20-25-041511	TO-15	2-Propanol	**UJ**
VMP-20-25-041511	TO-15	Methylene chloride	**UJ**
VMP-20-25-041511	TO-15	Tetrahydrofuran	**UJ**
VMP-22-10-041811	TO-15	2-Propanol	**UJ**
VMP-22-10-041811	TO-15	Methylene chloride	**UJ**
VMP-22-10-041811	TO-15	Tetrahydrofuran	**UJ**
VMP-22-38-041811	TO-15	2-Propanol	**UJ**
VMP-22-38-041811	TO-15	Methylene chloride	**UJ**
VMP-22-38-041811	TO-15	Tetrahydrofuran	**UJ**
VMP-22-5-041811	TO-15	2-Propanol	**UJ**
VMP-22-5-041811	TO-15	Methylene chloride	**UJ**
VMP-22-5-041811	TO-15	Tetrahydrofuran	**UJ**
VMP-22-18-041811	TO-15	2-Propanol	**UJ**
VMP-22-18-041811	TO-15	Methylene chloride	**UJ**
VMP-22-18-041811	TO-15	Tetrahydrofuran	**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 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?

The CCV recoveries listed in the table below were outside evaluation criteria.

CCV ID	Parameter	Analyte	CCV Recovery	CCV Criteria
1104420A-07A	TO-15	2-Propanol	**66**	70-130
1104420A-07A	TO-15	2-Hexachlorobutadiene	**163**	70-130

All associated data were reported as nondetect or previously qualified by the URS chemist based on LCS recoveries outside evaluation criteria. Analytical data which were reported as nondetect and associated with CCV recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Air Toxics LTD.
Laboratory Services Since 1989

5/4/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562593.00008
Workorder #: 1104420A

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/20/2011 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 6/29/11

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1104420A

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/20/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	05/04/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-20-25-041511	Modified TO-15	8.0 "Hg	15 psi
02A	VMP-22-5-041811	Modified TO-15	6.0 "Hg	15 psi
03A	VMP-22-10-041811	Modified TO-15	6.8 "Hg	15 psi
04A	VMP-22-18-041811	Modified TO-15	7.6 "Hg	15 psi
05A	VMP-22-38-041811	Modified TO-15	8.0 "Hg	15 psi
06A	Lab Blank	Modified TO-15	NA	NA
07A	CCV	Modified TO-15	NA	NA
08A	LCS	Modified TO-15	NA	NA
08AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda J. Frumarc DATE: 05/04/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1104420A

Five 1 Liter Summa Canister samples were received on April 20, 2011. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

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

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-22-18-041811 and VMP-22-38-041811 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 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

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-20-25-041511

Lab ID#: 1104420A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	14	240	49	840
Cyclohexane	14	67	48	230
2,2,4-Trimethylpentane	14	220	64	1000
Heptane	14	30	56	120
Butane	55	240	130	580
Isopentane	55	360	160	1000

Client Sample ID: VMP-22-5-041811

Lab ID#: 1104420A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,2,4-Trimethylpentane	13	47	59	220
Benzene	13	7.7 J	40	24 J
Butane	50	72	120	170
Isopentane	50	44 J	150	130 J

Client Sample ID: VMP-22-10-041811

Lab ID#: 1104420A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2,2,4-Trimethylpentane	13	3.4 J	61	16 J
Benzene	13	39	42	120
Butane	52	36 J	120	86 J
Isopentane	52	40 J	150	120 J

Client Sample ID: VMP-22-18-041811

Lab ID#: 1104420A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	3600	460 J	8600	1100 J
Hexane	900	8900	3200	31000

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-22-18-041811

Lab ID#: 1104420A-04A

Cyclohexane	900	17000	3100	58000
2,2,4-Trimethylpentane	900	84000	4200	390000
Benzene	900	330 J	2900	1000 J
Heptane	900	960	3700	3900
Butane	3600	260000	8600	620000
Isopentane	3600	660000	11000	1900000

Client Sample ID: VMP-22-38-041811

Lab ID#: 1104420A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	2800	110000	9700	390000
Cyclohexane	2800	71000	9500	240000
2,2,4-Trimethylpentane	2800	150000	13000	710000
Heptane	2800	13000	11000	55000
Butane	11000	1600000	26000	3900000
Isopentane	11000	2100000	32000	6100000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-20-25-041511

Lab ID#: 1104420A-01A

EPA METHOD TO-15 GC/MS

File Name:	**b042825**	**Date of Collection:**	**4/15/11 3:48:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**4/28/11 04:01 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	14	Not Detected	68	Not Detected
Freon 114	14	Not Detected	96	Not Detected
Chloromethane	55	Not Detected	110	Not Detected
Vinyl Chloride	14	Not Detected	35	Not Detected
1,3-Butadiene	14	Not Detected	30	Not Detected
Bromomethane	14	Not Detected	54	Not Detected
Chloroethane	55	Not Detected	140	Not Detected
Freon 11	14	Not Detected	78	Not Detected
Ethanol	55	Not Detected	100	Not Detected
Freon 113	14	Not Detected	100	Not Detected
1,1-Dichloroethene	14	Not Detected	55	Not Detected
Acetone	55	Not Detected	130	Not Detected
2-Propanol	55	Not Detected UJ UJ	140	Not Detected UJ UJ
Carbon Disulfide	14	Not Detected	43	Not Detected
3-Chloropropene	55	Not Detected	170	Not Detected
Methylene Chloride	14	Not Detected UJ	48	Not Detected UJ
Methyl tert-butyl ether	14	Not Detected	50	Not Detected
trans-1,2-Dichloroethene	14	Not Detected	55	Not Detected
Hexane	14	240	49	840
1,1-Dichloroethane	14	Not Detected	56	Not Detected
2-Butanone (Methyl Ethyl Ketone)	55	Not Detected	160	Not Detected
cis-1,2-Dichloroethene	14	Not Detected	55	Not Detected
Tetrahydrofuran	14	Not Detected UJ	41	Not Detected UJ
Chloroform	14	Not Detected	67	Not Detected
1,1,1-Trichloroethane	14	Not Detected	75	Not Detected
Cyclohexane	14	67	48	230
Carbon Tetrachloride	14	Not Detected	87	Not Detected
2,2,4-Trimethylpentane	14	220	64	1000
Benzene	14	Not Detected	44	Not Detected
1,2-Dichloroethane	14	Not Detected	56	Not Detected
Heptane	14	30	56	120
Trichloroethene	14	Not Detected	74	Not Detected
1,2-Dichloropropane	14	Not Detected	64	Not Detected
1,4-Dioxane	55	Not Detected	200	Not Detected
Bromodichloromethane	14	Not Detected	92	Not Detected
cis-1,3-Dichloropropene	14	Not Detected	63	Not Detected
4-Methyl-2-pentanone	14	Not Detected	56	Not Detected
Toluene	14	Not Detected	52	Not Detected
trans-1,3-Dichloropropene	14	Not Detected	63	Not Detected
1,1,2-Trichloroethane	14	Not Detected	75	Not Detected
Tetrachloroethene	14	Not Detected	94	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-20-25-041511

Lab ID#: 1104420A-01A

EPA METHOD TO-15 GC/MS

File Name:	**b042825**	**Date of Collection:**	**4/15/11 3:48:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**4/28/11 04:01 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	55	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	64	Not Detected
Ethyl Benzene	14	Not Detected	60	Not Detected
m,p-Xylene	14	Not Detected	60	Not Detected
o-Xylene	14	Not Detected	60	Not Detected
Styrene	14	Not Detected	59	Not Detected
Bromoform	14	Not Detected	140	Not Detected
Cumene	14	Not Detected	68	Not Detected
1,1,2,2-Tetrachloroethane	14	Not Detected	95	Not Detected
Propylbenzene	14	Not Detected	68	Not Detected
4-Ethyltoluene	14	Not Detected	68	Not Detected
1,3,5-Trimethylbenzene	14	Not Detected	68	Not Detected
1,2,4-Trimethylbenzene	14	Not Detected	68	Not Detected
1,3-Dichlorobenzene	14	Not Detected	83	Not Detected
1,4-Dichlorobenzene	14	Not Detected	83	Not Detected
alpha-Chlorotoluene	14	Not Detected	71	Not Detected
1,2-Dichlorobenzene	14	Not Detected	83	Not Detected
1,2,4-Trichlorobenzene	55	Not Detected	410	Not Detected
Hexachlorobutadiene	55	Not Detected	590	Not Detected
Butane	55	240	130	580
Isopentane	55	360	160	1000

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

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-22-5-041811

Lab ID#: 1104420A-02A

EPA METHOD TO-15 GC/MS

File Name:	**b042826**	**Date of Collection:**	**4/18/11 10:48:00 AM**
Dil. Factor:	**2.52**	**Date of Analysis:**	**4/28/11 04:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	13	Not Detected	62	Not Detected
Freon 114	13	Not Detected	88	Not Detected
Chloromethane	50	Not Detected	100	Not Detected
Vinyl Chloride	13	Not Detected	32	Not Detected
1,3-Butadiene	13	Not Detected	28	Not Detected
Bromomethane	13	Not Detected	49	Not Detected
Chloroethane	50	Not Detected	130	Not Detected
Freon 11	13	Not Detected	71	Not Detected
Ethanol	50	Not Detected	95	Not Detected
Freon 113	13	Not Detected	96	Not Detected
1,1-Dichloroethene	13	Not Detected	50	Not Detected
Acetone	50	Not Detected	120	Not Detected
2-Propanol	50	Not Detected UJ uJ	120	Not Detected UJ uJ
Carbon Disulfide	13	Not Detected	39	Not Detected
3-Chloropropene	50	Not Detected	160	Not Detected
Methylene Chloride	13	Not Detected uJ	44	Not Detected uJ
Methyl tert-butyl ether	13	Not Detected	45	Not Detected
trans-1,2-Dichloroethene	13	Not Detected	50	Not Detected
Hexane	13	Not Detected	44	Not Detected
1,1-Dichloroethane	13	Not Detected	51	Not Detected
2-Butanone (Methyl Ethyl Ketone)	50	Not Detected	150	Not Detected
cis-1,2-Dichloroethene	13	Not Detected	50	Not Detected
Tetrahydrofuran	13	Not Detected uJ	37	Not Detected uJ
Chloroform	13	Not Detected	62	Not Detected
1,1,1-Trichloroethane	13	Not Detected	69	Not Detected
Cyclohexane	13	Not Detected	43	Not Detected
Carbon Tetrachloride	13	Not Detected	79	Not Detected
2,2,4-Trimethylpentane	13	47	59	220
Benzene	13	7.7 J	40	24 J
1,2-Dichloroethane	13	Not Detected	51	Not Detected
Heptane	13	Not Detected	52	Not Detected
Trichloroethene	13	Not Detected	68	Not Detected
1,2-Dichloropropane	13	Not Detected	58	Not Detected
1,4-Dioxane	50	Not Detected	180	Not Detected
Bromodichloromethane	13	Not Detected	84	Not Detected
cis-1,3-Dichloropropene	13	Not Detected	57	Not Detected
4-Methyl-2-pentanone	13	Not Detected	52	Not Detected
Toluene	13	Not Detected	47	Not Detected
trans-1,3-Dichloropropene	13	Not Detected	57	Not Detected
1,1,2-Trichloroethane	13	Not Detected	69	Not Detected
Tetrachloroethene	13	Not Detected	85	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-22-5-041811

Lab ID#: 1104420A-02A

EPA METHOD TO-15 GC/MS

File Name:	**b042826**	**Date of Collection: 4/18/11 10:48:00 AM**	
Dil. Factor:	**2.52**	**Date of Analysis: 4/28/11 04:26 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	50	Not Detected	210	Not Detected
Dibromochloromethane	13	Not Detected	110	Not Detected
1,2-Dibromoethane (EDB)	13	Not Detected	97	Not Detected
Chlorobenzene	13	Not Detected	58	Not Detected
Ethyl Benzene	13	Not Detected	55	Not Detected
m,p-Xylene	13	Not Detected	55	Not Detected
o-Xylene	13	Not Detected	55	Not Detected
Styrene	13	Not Detected	54	Not Detected
Bromoform	13	Not Detected	130	Not Detected
Cumene	13	Not Detected	62	Not Detected
1,1,2,2-Tetrachloroethane	13	Not Detected	86	Not Detected
Propylbenzene	13	Not Detected	62	Not Detected
4-Ethyltoluene	13	Not Detected	62	Not Detected
1,3,5-Trimethylbenzene	13	Not Detected	62	Not Detected
1,2,4-Trimethylbenzene	13	Not Detected	62	Not Detected
1,3-Dichlorobenzene	13	Not Detected	76	Not Detected
1,4-Dichlorobenzene	13	Not Detected	76	Not Detected
alpha-Chlorotoluene	13	Not Detected	65	Not Detected
1,2-Dichlorobenzene	13	Not Detected	76	Not Detected
1,2,4-Trichlorobenzene	50	Not Detected	370	Not Detected
Hexachlorobutadiene	50	Not Detected	540	Not Detected
Butane	50	72	120	170
Isopentane	50	44 J	150	130 J

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

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-22-10-041811

Lab ID#: 1104420A-03A

EPA METHOD TO-15 GC/MS

File Name:	**b042827**	**Date of Collection:**	**4/18/11 12:05:00 PM**
Dil. Factor:	**2.61**	**Date of Analysis:**	**4/28/11 04:53 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	13	Not Detected	64	Not Detected
Freon 114	13	Not Detected	91	Not Detected
Chloromethane	52	Not Detected	110	Not Detected
Vinyl Chloride	13	Not Detected	33	Not Detected
1,3-Butadiene	13	Not Detected	29	Not Detected
Bromomethane	13	Not Detected	51	Not Detected
Chloroethane	52	Not Detected	140	Not Detected
Freon 11	13	Not Detected	73	Not Detected
Ethanol	52	Not Detected	98	Not Detected
Freon 113	13	Not Detected	100	Not Detected
1,1-Dichloroethene	13	Not Detected	52	Not Detected
Acetone	52	Not Detected	120	Not Detected
2-Propanol	52	Not Detected UJ UJ	130	Not Detected UJ UJ
Carbon Disulfide	13	Not Detected	41	Not Detected
3-Chloropropene	52	Not Detected	160	Not Detected
Methylene Chloride	13	Not Detected UJ	45	Not Detected UJ
Methyl tert-butyl ether	13	Not Detected	47	Not Detected
trans-1,2-Dichloroethene	13	Not Detected	52	Not Detected
Hexane	13	Not Detected	46	Not Detected
1,1-Dichloroethane	13	Not Detected	53	Not Detected
2-Butanone (Methyl Ethyl Ketone)	52	Not Detected	150	Not Detected
cis-1,2-Dichloroethene	13	Not Detected	52	Not Detected
Tetrahydrofuran	13	Not Detected UJ	38	Not Detected UJ
Chloroform	13	Not Detected	64	Not Detected
1,1,1-Trichloroethane	13	Not Detected	71	Not Detected
Cyclohexane	13	Not Detected	45	Not Detected
Carbon Tetrachloride	13	Not Detected	82	Not Detected
2,2,4-Trimethylpentane	13	3.4 J	61	16 J
Benzene	13	39	42	120
1,2-Dichloroethane	13	Not Detected	53	Not Detected
Heptane	13	Not Detected	53	Not Detected
Trichloroethene	13	Not Detected	70	Not Detected
1,2-Dichloropropane	13	Not Detected	60	Not Detected
1,4-Dioxane	52	Not Detected	190	Not Detected
Bromodichloromethane	13	Not Detected	87	Not Detected
cis-1,3-Dichloropropene	13	Not Detected	59	Not Detected
4-Methyl-2-pentanone	13	Not Detected	53	Not Detected
Toluene	13	Not Detected	49	Not Detected
trans-1,3-Dichloropropene	13	Not Detected	59	Not Detected
1,1,2-Trichloroethane	13	Not Detected	71	Not Detected
Tetrachloroethene	13	Not Detected	88	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-22-10-041811

Lab ID#: 1104420A-03A

EPA METHOD TO-15 GC/MS

File Name:	**b042827**	**Date of Collection: 4/18/11 12:05:00 PM**	
Dil. Factor:	**2.61**	**Date of Analysis: 4/28/11 04:53 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	52	Not Detected	210	Not Detected
Dibromochloromethane	13	Not Detected	110	Not Detected
1,2-Dibromoethane (EDB)	13	Not Detected	100	Not Detected
Chlorobenzene	13	Not Detected	60	Not Detected
Ethyl Benzene	13	Not Detected	57	Not Detected
m,p-Xylene	13	Not Detected	57	Not Detected
o-Xylene	13	Not Detected	57	Not Detected
Styrene	13	Not Detected	56	Not Detected
Bromoform	13	Not Detected	130	Not Detected
Cumene	13	Not Detected	64	Not Detected
1,1,2,2-Tetrachloroethane	13	Not Detected	90	Not Detected
Propylbenzene	13	Not Detected	64	Not Detected
4-Ethyltoluene	13	Not Detected	64	Not Detected
1,3,5-Trimethylbenzene	13	Not Detected	64	Not Detected
1,2,4-Trimethylbenzene	13	Not Detected	64	Not Detected
1,3-Dichlorobenzene	13	Not Detected	78	Not Detected
1,4-Dichlorobenzene	13	Not Detected	78	Not Detected
alpha-Chlorotoluene	13	Not Detected	68	Not Detected
1,2-Dichlorobenzene	13	Not Detected	78	Not Detected
1,2,4-Trichlorobenzene	52	Not Detected	390	Not Detected
Hexachlorobutadiene	52	Not Detected	560	Not Detected
Butane	52	36 J	120	86 J
Isopentane	52	40 J	150	120 J

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

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-22-18-041811

Lab ID#: 1104420A-04A

EPA METHOD TO-15 GC/MS

File Name:	**b042831**	**Date of Collection:**	**4/18/11 2:55:00 PM**
Dil. Factor:	**180**	**Date of Analysis:**	**4/28/11 07:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	900	Not Detected	4400	Not Detected
Freon 114	900	Not Detected	6300	Not Detected
Chloromethane	3600	Not Detected	7400	Not Detected
Vinyl Chloride	900	Not Detected	2300	Not Detected
1,3-Butadiene	900	Not Detected	2000	Not Detected
Bromomethane	900	Not Detected	3500	Not Detected
Chloroethane	3600	Not Detected	9500	Not Detected
Freon 11	900	Not Detected	5000	Not Detected
Ethanol	3600	Not Detected	6800	Not Detected
Freon 113	900	Not Detected	6900	Not Detected
1,1-Dichloroethene	900	Not Detected	3600	Not Detected
Acetone	3600	460 J	8600	1100 J
2-Propanol	3600	Not Detected UJ UJ	8800	Not Detected UJ UJ
Carbon Disulfide	900	Not Detected	2800	Not Detected
3-Chloropropene	3600	Not Detected	11000	Not Detected
Methylene Chloride	900	Not Detected UJ	3100	Not Detected UJ
Methyl tert-butyl ether	900	Not Detected	3200	Not Detected
trans-1,2-Dichloroethene	900	Not Detected	3600	Not Detected
Hexane	900	8900	3200	31000
1,1-Dichloroethane	900	Not Detected	3600	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3600	Not Detected	11000	Not Detected
cis-1,2-Dichloroethene	900	Not Detected	3600	Not Detected
Tetrahydrofuran	900	Not Detected UJ	2600	Not Detected UJ
Chloroform	900	Not Detected	4400	Not Detected
1,1,1-Trichloroethane	900	Not Detected	4900	Not Detected
Cyclohexane	900	17000	3100	58000
Carbon Tetrachloride	900	Not Detected	5700	Not Detected
2,2,4-Trimethylpentane	900	84000	4200	390000
Benzene	900	330 J	2900	1000 J
1,2-Dichloroethane	900	Not Detected	3600	Not Detected
Heptane	900	960	3700	3900
Trichloroethene	900	Not Detected	4800	Not Detected
1,2-Dichloropropane	900	Not Detected	4200	Not Detected
1,4-Dioxane	3600	Not Detected	13000	Not Detected
Bromodichloromethane	900	Not Detected	6000	Not Detected
cis-1,3-Dichloropropene	900	Not Detected	4100	Not Detected
4-Methyl-2-pentanone	900	Not Detected	3700	Not Detected
Toluene	900	Not Detected	3400	Not Detected
trans-1,3-Dichloropropene	900	Not Detected	4100	Not Detected
1,1,2-Trichloroethane	900	Not Detected	4900	Not Detected
Tetrachloroethene	900	Not Detected	6100	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-22-18-041811

Lab ID#: 1104420A-04A

EPA METHOD TO-15 GC/MS

File Name:	**b042831**	**Date of Collection: 4/18/11 2:55:00 PM**	
Dil. Factor:	**180**	**Date of Analysis: 4/28/11 07:06 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	3600	Not Detected	15000	Not Detected
Dibromochloromethane	900	Not Detected	7700	Not Detected
1,2-Dibromoethane (EDB)	900	Not Detected	6900	Not Detected
Chlorobenzene	900	Not Detected	4100	Not Detected
Ethyl Benzene	900	Not Detected	3900	Not Detected
m,p-Xylene	900	Not Detected	3900	Not Detected
o-Xylene	900	Not Detected	3900	Not Detected
Styrene	900	Not Detected	3800	Not Detected
Bromoform	900	Not Detected	9300	Not Detected
Cumene	900	Not Detected	4400	Not Detected
1,1,2,2-Tetrachloroethane	900	Not Detected	6200	Not Detected
Propylbenzene	900	Not Detected	4400	Not Detected
4-Ethyltoluene	900	Not Detected	4400	Not Detected
1,3,5-Trimethylbenzene	900	Not Detected	4400	Not Detected
1,2,4-Trimethylbenzene	900	Not Detected	4400	Not Detected
1,3-Dichlorobenzene	900	Not Detected	5400	Not Detected
1,4-Dichlorobenzene	900	Not Detected	5400	Not Detected
alpha-Chlorotoluene	900	Not Detected	4600	Not Detected
1,2-Dichlorobenzene	900	Not Detected	5400	Not Detected
1,2,4-Trichlorobenzene	3600	Not Detected	27000	Not Detected
Hexachlorobutadiene	3600	Not Detected	38000	Not Detected
Butane	3600	260000	8600	620000
Isopentane	3600	660000	11000	1900000

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-22-38-041811

Lab ID#: 1104420A-05A

EPA METHOD TO-15 GC/MS

File Name:	**b042830**	**Date of Collection:**	**4/18/11 3:55:00 PM**
Dil. Factor:	**552**	**Date of Analysis:**	**4/28/11 06:37 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	16000	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 UJ UJ	27000	Not Detected UJ UJ
Carbon Disulfide	2800	Not Detected	8600	Not Detected
3-Chloropropene	11000	Not Detected	34000	Not Detected
Methylene Chloride	2800	Not Detected UJ	9600	Not Detected UJ
Methyl tert-butyl ether	2800	Not Detected	10000	Not Detected
trans-1,2-Dichloroethene	2800	Not Detected	11000	Not Detected
Hexane	2800	110000	9700	390000
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 UJ	8100	Not Detected UJ
Chloroform	2800	Not Detected	13000	Not Detected
1,1,1-Trichloroethane	2800	Not Detected	15000	Not Detected
Cyclohexane	2800	71000	9500	240000
Carbon Tetrachloride	2800	Not Detected	17000	Not Detected
2,2,4-Trimethylpentane	2800	150000	13000	710000
Benzene	2800	Not Detected	8800	Not Detected
1,2-Dichloroethane	2800	Not Detected	11000	Not Detected
Heptane	2800	13000	11000	55000
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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-22-38-041811

Lab ID#: 1104420A-05A

EPA METHOD TO-15 GC/MS

File Name:	**b042830**	**Date of Collection: 4/18/11 3:55:00 PM**	
Dil. Factor:	**552**	**Date of Analysis: 4/28/11 06:37 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	24000	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	1600000	26000	3900000
Isopentane	11000	2100000	32000	6100000

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

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104420A-06A

EPA METHOD TO-15 GC/MS

File Name:	**b042807a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 09:04 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 UJ	49	Not Detected UJ
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104420A-06A

EPA METHOD TO-15 GC/MS

File Name:	**b042807a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 09:04 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

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	85	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104420A-07A

EPA METHOD TO-15 GC/MS

File Name:	**b042805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 08:04 AM**	

Compound	%Recovery
Freon 12	88
Freon 114	93
Chloromethane	82
Vinyl Chloride	90
1,3-Butadiene	82
Bromomethane	89
Chloroethane	80
Freon 11	90
Ethanol	74
Freon 113	95
1,1-Dichloroethene	81
Acetone	86
2-Propanol	66 Q 70-130
Carbon Disulfide	84
3-Chloropropene	82
Methylene Chloride	79
Methyl tert-butyl ether	77
trans-1,2-Dichloroethene	88
Hexane	81
1,1-Dichloroethane	84
2-Butanone (Methyl Ethyl Ketone)	81
cis-1,2-Dichloroethene	82
Tetrahydrofuran	71
Chloroform	86
1,1,1-Trichloroethane	87
Cyclohexane	90
Carbon Tetrachloride	91
2,2,4-Trimethylpentane	82
Benzene	92
1,2-Dichloroethane	85
Heptane	91
Trichloroethene	90
1,2-Dichloropropane	87
1,4-Dioxane	91
Bromodichloromethane	90
cis-1,3-Dichloropropene	84
4-Methyl-2-pentanone	83
Toluene	92
trans-1,3-Dichloropropene	88
1,1,2-Trichloroethane	94
Tetrachloroethene	98

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV
Lab ID#: 1104420A-07A
EPA METHOD TO-15 GC/MS

File Name:	**b042805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 08:04 AM**	

Compound	%Recovery
2-Hexanone	72
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	97
Chlorobenzene	98
Ethyl Benzene	96
m,p-Xylene	96
o-Xylene	97
Styrene	101
Bromoform	102
Cumene	104
1,1,2,2-Tetrachloroethane	91
Propylbenzene	94
4-Ethyltoluene	99
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	124
Hexachlorobutadiene	163 Q
Butane	82
Isopentane	74

Q = Exceeds Quality Control limits.
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	85	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	108	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104420A-08A

EPA METHOD TO-15 GC/MS

File Name:	**b042803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 07:22 AM**	

Compound	%Recovery
Freon 12	75
Freon 114	80
Chloromethane	77
Vinyl Chloride	79
1,3-Butadiene	72
Bromomethane	78
Chloroethane	70
Freon 11	77
Ethanol	60
Freon 113	82
1,1-Dichloroethene	73
Acetone	67
2-Propanol	54 Q
Carbon Disulfide	89
3-Chloropropene	78
Methylene Chloride	67 Q
Methyl tert-butyl ether	64
trans-1,2-Dichloroethene	85
Hexane	68
1,1-Dichloroethane	72
2-Butanone (Methyl Ethyl Ketone)	66
cis-1,2-Dichloroethene	71
Tetrahydrofuran	56 Q
Chloroform	75
1,1,1-Trichloroethane	74
Cyclohexane	76
Carbon Tetrachloride	79
2,2,4-Trimethylpentane	69
Benzene	80
1,2-Dichloroethane	74
Heptane	76
Trichloroethene	77
1,2-Dichloropropane	75
1,4-Dioxane	73
Bromodichloromethane	77
cis-1,3-Dichloropropene	70
4-Methyl-2-pentanone	66
Toluene	78
trans-1,3-Dichloropropene	74
1,1,2-Trichloroethane	82
Tetrachloroethene	84

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS
Lab ID#: 1104420A-08A
EPA METHOD TO-15 GC/MS

File Name:	**b042803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 07:22 AM**	

Compound	%Recovery
2-Hexanone	60
Dibromochloromethane	87
1,2-Dibromoethane (EDB)	87
Chlorobenzene	87
Ethyl Benzene	83
m,p-Xylene	85
o-Xylene	84
Styrene	87
Bromoform	86
Cumene	91
1,1,2,2-Tetrachloroethane	82
Propylbenzene	85
4-Ethyltoluene	85
1,3,5-Trimethylbenzene	86
1,2,4-Trimethylbenzene	85
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	83
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	121
Hexachlorobutadiene	139 Q
Butane	71
Isopentane	63

Q = Exceeds Quality Control limits.
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	84	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	108	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104420A-08AA

EPA METHOD TO-15 GC/MS

File Name:	b042804	**Date of Collection:**	NA
Dil. Factor:	1.00	**Date of Analysis:**	4/28/11 07:41 AM

Compound	%Recovery
Freon 12	83
Freon 114	82
Chloromethane	78
Vinyl Chloride	81
1,3-Butadiene	73
Bromomethane	80
Chloroethane	73
Freon 11	79
Ethanol	62
Freon 113	85
1,1-Dichloroethene	76
Acetone	69
2-Propanol	56 Q
Carbon Disulfide	91
3-Chloropropene	80
Methylene Chloride	68 Q
Methyl tert-butyl ether	66
trans-1,2-Dichloroethene	88
Hexane	70
1,1-Dichloroethane	74
2-Butanone (Methyl Ethyl Ketone)	70
cis-1,2-Dichloroethene	72
Tetrahydrofuran	59 Q
Chloroform	77
1,1,1-Trichloroethane	77
Cyclohexane	78
Carbon Tetrachloride	81
2,2,4-Trimethylpentane	72
Benzene	81
1,2-Dichloroethane	74
Heptane	77
Trichloroethene	79
1,2-Dichloropropane	75
1,4-Dioxane	74
Bromodichloromethane	78
cis-1,3-Dichloropropene	71
4-Methyl-2-pentanone	67
Toluene	80
trans-1,3-Dichloropropene	76
1,1,2-Trichloroethane	82
Tetrachloroethene	85

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104420A-08AA

EPA METHOD TO-15 GC/MS

File Name:	**b042804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 07:41 AM**	

Compound	%Recovery
2-Hexanone	61
Dibromochloromethane	88
1,2-Dibromoethane (EDB)	87
Chlorobenzene	89
Ethyl Benzene	84
m,p-Xylene	85
o-Xylene	85
Styrene	88
Bromoform	88
Cumene	92
1,1,2,2-Tetrachloroethane	82
Propylbenzene	86
4-Ethyltoluene	86
1,3,5-Trimethylbenzene	87
1,2,4-Trimethylbenzene	85
1,3-Dichlorobenzene	97
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	85
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	118
Hexachlorobutadiene	147 Q
Butane	70
Isopentane	65

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	107	70-130

1104420

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box: ENV. SERVICES; MOTIVA RETAIL; SHELL RETAIL; MOTIVA SOHOH; CONSULTANT; LUBES; SHELL PIPELINE; OTHER

Print Bill To Contact Name: Thomas Adams

INCIDENT # (ENV. SERVICES): 9 7 2 1 8 8 4 0 — CHECK IF NO INCIDENT # APPLIES

PO #:

SAP #: 3 4 0 0 6 1

DATE: 04/18/11

PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION — LOG CODE:

SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA — State: IL — GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

TECH DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis — PHONE NO.: 314-743-4179 — E-MAIL: Elizabeth_Kunkel@URSCorp.com — CONSULTANT PROJECT NAME: Roxana Dissolved Phase

Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719

SAMPLER NAME(S) (Print): E. Arthur, W. Buchman, C. Kretzer, M. Ewersmann, N. Selam

TELEPHONE: 314-429-0100 — FAX: 314-429-0462 — Bill to Contact E-MAIL: Thomas_Adams@URSCorp.com

TURNAROUND TIME (CALENDAR DAYS): [✓] STANDARD (14 DAY) [ ] 5 DAYS [ ] 3 DAYS [ ] 2 DAYS [ ] 24 HOURS [ ] RESULTS NEEDED ON WEEKEND

[ ] UST - RWQCB REPORT FORMAT [ ] UST AGENCY:

DELIVERABLES: [ ] LEVEL 1 [ ] LEVEL 2 [ ] LEVEL 3 [ ] LEVEL 4 [ ] OTHER (SPECIFY)

[ ] SHELL CONTRACT RATE APPLIES
[ ] STATE REIMBURSEMENT RATE APPLIES
[ ] EDD NOT NEEDED
[✓] RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Lab Use Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	Canister Pressure/Vacuum Receipt	Canister Pressure/Vacuum Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946				
01A	VMP-20-25-041511	04/15/11	1529 - 1546	2521	-30	-8			X	X					
02A	VMP-22-5-041811	04/18/11	1015- 1048	1633	-27	-6			X	X					
03A	VMP-22-10-041811	04/18/11	1133 - 1208	2748	-28.5	-5.5			X	X					
04A	VMP-22-18-041811	04/18/11	1416 - 1456	2498	-30	-8			X	X					
05A	VMP-22-38-041811	04/18/11	1525 - 1555	2378	-26.5	-7.5			X	X					

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 ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	4/18/11	1530
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	B.W. Buchman ATL	4/20/11	0930
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

08/3/06 Revision

CUSTODY SEAL INTACT? (Y) N NONE TEMP N/A

FedEx

Air Toxics LTD.
Laboratory Services Since 1989

4/27/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562593.00008
Workorder #: 1104420B

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/20/2011 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 #: 1104420B

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/20/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/27/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-20-25-041511	Modified ASTM D-1946	8.0 "Hg	15 psi
02A	VMP-22-5-041811	Modified ASTM D-1946	6.0 "Hg	15 psi
03A	VMP-22-10-041811	Modified ASTM D-1946	6.8 "Hg	15 psi
04A	VMP-22-18-041811	Modified ASTM D-1946	7.6 "Hg	15 psi
05A	VMP-22-38-041811	Modified ASTM D-1946	8.0 "Hg	15 psi
06A	Lab Blank	Modified ASTM D-1946	NA	NA
06B	Lab Blank	Modified ASTM D-1946	NA	NA
07A	LCS	Modified ASTM D-1946	NA	NA
07AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Linda J. Fruman DATE: 04/27/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1104420B

Five 1 Liter Summa Canister samples were received on April 20, 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.

Requirement	*ASTM D-1946*	*ATL Modifications*
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 >/= 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 X's 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

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-20-25-041511

Lab ID#: 1104420B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	2.6
Nitrogen	0.28	88
Carbon Dioxide	0.028	9.8
Helium	0.14	0.042 J

Client Sample ID: VMP-22-5-041811

Lab ID#: 1104420B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	9.9
Nitrogen	0.25	83
Carbon Dioxide	0.025	7.1
Helium	0.13	0.092 J

Client Sample ID: VMP-22-10-041811

Lab ID#: 1104420B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	9.3
Nitrogen	0.26	82
Carbon Dioxide	0.026	8.9
Helium	0.13	0.044 J

Client Sample ID: VMP-22-18-041811

Lab ID#: 1104420B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	1.6
Nitrogen	0.27	86
Methane	0.00027	1.5
Carbon Dioxide	0.027	11

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-22-18-041811

Lab ID#: 1104420B-04A

Ethane	0.0027	0.00070 J
Helium	0.14	0.027 J

Client Sample ID: VMP-22-38-041811

Lab ID#: 1104420B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.9
Nitrogen	0.28	84
Methane	0.00028	2.1
Carbon Dioxide	0.028	11
Ethane	0.0028	0.0011 J
Helium	0.14	0.023 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-20-25-041511

Lab ID#: 1104420B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042517**	**Date of Collection:**	**4/15/11 3:48:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**4/25/11 11:59 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	2.6
Nitrogen	0.28	88
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	Not Detected
Carbon Dioxide	0.028	9.8
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.042 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-22-5-041811

Lab ID#: 1104420B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042518**	**Date of Collection:**	**4/18/11 10:48:00 AM**
Dil. Factor:	**2.52**	**Date of Analysis:**	**4/25/11 12:24 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	9.9
Nitrogen	0.25	83
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	Not Detected
Carbon Dioxide	0.025	7.1
Ethane	0.0025	Not Detected
Ethene	0.0025	Not Detected
Helium	0.13	0.092 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-22-10-041811

Lab ID#: 1104420B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042519**	**Date of Collection:**	**4/18/11 12:05:00 PM**
Dil. Factor:	**2.61**	**Date of Analysis:**	**4/25/11 12:46 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	9.3
Nitrogen	0.26	82
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	Not Detected
Carbon Dioxide	0.026	8.9
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.044 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-22-18-041811

Lab ID#: 1104420B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042520**	**Date of Collection:**	**4/18/11 2:55:00 PM**
Dil. Factor:	**2.70**	**Date of Analysis:**	**4/25/11 01:15 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.27	1.6
Nitrogen	0.27	86
Carbon Monoxide	0.027	Not Detected
Methane	0.00027	1.5
Carbon Dioxide	0.027	11
Ethane	0.0027	0.00070 J
Ethene	0.0027	Not Detected
Helium	0.14	0.027 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-22-38-041811

Lab ID#: 1104420B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042521**	**Date of Collection:**	**4/18/11 3:55:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**4/25/11 01:38 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.9
Nitrogen	0.28	84
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	2.1
Carbon Dioxide	0.028	11
Ethane	0.0028	0.0011 J
Ethene	0.0028	Not Detected
Helium	0.14	0.023 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104420B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042512a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/25/11 09:54 AM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.014 J
Nitrogen	0.10	0.067 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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104420B-06B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9042511b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 4/25/11 09:32 AM	

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

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104420B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042510**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/25/11 09:07 AM**	

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

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104420B-07AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042533**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/25/11 09:32 PM**

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	98
Methane	99
Carbon Dioxide	101
Ethane	102
Ethene	100
Helium	94

Container Type: NA - Not Applicable

1104420

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box:
ENV. SERVICES | MOTIVA RETAIL | SHELL RETAIL
MOTIVA SOACH | CONSULTANT | LUBES
SHELL PIPELINE | OTHER

Print Bill To Contact Name: Thomas Adams
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
CHECK IF NO INCIDENT # APPLIES
DATE: 04/19/11
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
LEP DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4178
E-MAIL: Elizabeth.Kunkel@URSCorp.com
CONSULTANT PROJECT MANAGER: Roxana Dissolved Phase
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Thomas.Adams@URSCorp.com
SAMPLER NAME(S) (Print): E. Arthur, W. Buchman, C. Kretzer, M. Ewersmann, N. Satam

TURNAROUND TIME (CALENDAR DAYS): STANDARD (14 DAY) | 5 DAYS | 3 DAYS | 2 DAYS | 24 HOURS | RESULTS NEEDED ON WEEKEND
RWQCB REPORT FORMAT | LIST AGENCY:
DELIVERABLES: LEVEL 1 | LEVEL 2 | LEVEL 3 | LEVEL 4 | OTHER (SPECIFY)

SHELL CONTRACT RATE APPLIES
STATE REIMBURSEMENT RATE APPLIES
EDD NOT NEEDED
RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Lab Sample ID	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum: Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946					
01A	VMP-20-25-041511	04/15/11	1520 - 1548	2521	-30	-6			X	X						
02A	VMP-22-5-041811	04/18/11	1015- 1048	1633	-27	-6			X	X						
03A	VMP-22-10-041811	04/18/11	1133 - 1208	2748	-28.5	-5.5			X	X						
04A	VMP-22-18-041811	04/18/11	1416 - 1456	2498	-30	-8			X	X						
05A	VMP-22-38-041811	04/18/11	1525 - 1555	2378	-28.5	-7.5			X	X						

Turn Around Time: [✓] Normal [ ] Rush Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	4/19/11	1530
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	B. Buttaker ATL 4/20/11 0930		
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

05/2006 Revision

CUSTODY SEAL INTACT?
(Y) N NONE TEMP N/A
FedEx

Roxana 2Q2011 Vapor Data Review

Laboratory SDG: 1104422A, B, C, D

Data Reviewer: Tony Sedlacek

Peer Reviewer: Jeff Aust

Date Reviewed: 6/29/2011

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-12-5-041911	VMP-12-11.5-041911
VMP-12-25-041911	VMP-12-39-041911
VMP-4-5-041911	VMP-4-12-041911

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 samples VMP-12-5-041911, VMP-12-11.5-041911, VMP-12-25-041911, VMP-12-39-041911, VMP-4-5-041911 and VMP-4-12-041911 were diluted due to high levels of target analytes. TO-15 LCS and CCV recoveries were outside evaluation criteria. Although not indicated in the laboratory case narrative, analytes were detected in ASTM D-1946 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 Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1104422B-07A	ASTM D-1946	Oxygen	0.014 %
1104422B-07A	ASTM D-1946	Nitrogen	0.067 %
1104422D-03A	ASTM D-1946	Oxygen	0.012 %
1104422D-03A	ASTM D-1946	Nitrogen	0.058 %

Analytical data were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration and did not require qualification.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS/LCSD Recovery	LCS/LCSD Criteria
1104422A-09A/09AA	TO-15	2-Propanol	**54/56**	60-140
1104422A-09A/09AA	TO-15	Methylene chloride	**67/68**	70-130
1104422A-09A/09AA	TO-15	Tetrahydrofuran	**56/59**	60-140
1104422A-09A/09AA	TO-15	Hexachlorobutadiene	**139/147**	70-130
1104422C-05A/05AA	TO-15	1,2,4-Trichlorobenzene	**133/**122	70-130
1104422C-05A/05AA	TO-15	Hexachlorobutadiene	**165/144**	70-130

Analytical data that required qualification based on LCS data are included in the table below. All associated data were reported as nondetect for hexachlorobutadiene and 1,2,4-trichlorobenzene and associated with an LCS recoveries above evaluation criteria, indicating a possible high bias; therefore, no qualification of data was required.

Field ID	Parameter	Analyte	Qualification
VMP-12-5-041911	TO-15	2-Propanol	**UJ**
VMP-12-5-041911	TO-15	Methylene chloride	**UJ**
VMP-12-5-041911	TO-15	Tetrahydrofuran	**UJ**
VMP-12-11.5-041911	TO-15	2-Propanol	**UJ**
VMP-12-11.5-041911	TO-15	Methylene chloride	**UJ**
VMP-12-11.5-041911	TO-15	Tetrahydrofuran	**UJ**
VMP-12-25-041911	TO-15	2-Propanol	**UJ**
VMP-12-25-041911	TO-15	Methylene chloride	**UJ**
VMP-12-25-041911	TO-15	Tetrahydrofuran	**UJ**
VMP-12-39-041911	TO-15	2-Propanol	**UJ**
VMP-12-39-041911	TO-15	Methylene chloride	**UJ**
VMP-12-39-041911	TO-15	Tetrahydrofuran	**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 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?

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

CCV ID	Parameter	Analyte	CCV Recovery	CCV Criteria
1104422A-08A	TO-15	2-Propanol	**66**	70-130
1104422A-08A	TO-15	Hexachlorobutadiene	**163**	70-130
1104422C-04A	TO-15	2-Propanol	**69**	70-130
1104422C-04A	TO-15	Hexachlorobutadiene	**149**	70-130

Analytical data that required qualification based on CCV data are included in the table below. The compounds 2-propanol and hexachlorobutadiene in CCV 1104422-08A and hexachlorobutadiene in CCV 1104422C-04A were reported as nondetect or previously qualified by the URS chemist based on LCS recoveries outside evaluation criteria. Analytical data which were reported as nondetect and associated with CCV recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
VMP-4-5-041911	TO-15	2-Propanol	**UJ**
VMP-4-12-041911	TO-15	2-Propanol	**UJ**

Air Toxics LTD.
Laboratory Services Since 1989

5/4/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562593.00008
Workorder #: 1104422A

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/20/2011 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 6/29/11

WORK ORDER #: 1104422A

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/20/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	05/04/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
03A	VMP-12-5-041911	Modified TO-15	8.8 "Hg	15 psi
04A	VMP-12-11.5-041911	Modified TO-15	6.6 "Hg	15 psi
05A	VMP-12-25-041911	Modified TO-15	8.2 "Hg	15 psi
06A	VMP-12-39-041911	Modified TO-15	10.0 "Hg	15 psi
07A	Lab Blank	Modified TO-15	NA	NA
08A	CCV	Modified TO-15	NA	NA
09A	LCS	Modified TO-15	NA	NA
09AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda A. Frumarc DATE: 05/04/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1104422A

Four 1 Liter Summa Canister samples were received on April 20, 2011. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

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

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 all of the samples 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 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

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-12-5-041911

Lab ID#: 1104422A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	18000	2800 J	34000	5200 J
Acetone	18000	7300 J	42000	17000 J
Hexane	4500	1400 J	16000	5100 J
Cyclohexane	4500	87000	15000	300000
2,2,4-Trimethylpentane	4500	240000	21000	1100000
Benzene	4500	1800 J	14000	5800 J
Toluene	4500	3000 J	17000	11000 J
m,p-Xylene	4500	1800 J	19000	7900 J
Butane	18000	1400000	42000	3200000
Isopentane	18000	3300000	53000	9700000

Client Sample ID: VMP-12-11.5-041911

Lab ID#: 1104422A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	16000	6400 J	38000	15000 J
Hexane	4000	2000 J	14000	6900 J
Cyclohexane	4000	120000	14000	420000
2,2,4-Trimethylpentane	4000	250000	19000	1200000
Benzene	4000	250000	13000	810000
Butane	16000	1800000	38000	4300000
Isopentane	16000	3600000	48000	11000000

Client Sample ID: VMP-12-25-041911

Lab ID#: 1104422A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	17000	11000 J	41000	27000 J
Hexane	4300	31000	15000	110000
Cyclohexane	4300	130000	15000	430000
2,2,4-Trimethylpentane	4300	210000	20000	980000

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-12-25-041911

Lab ID#: 1104422A-05A

Benzene	4300	2600000	14000	8300000
Heptane	4300	2500 J	18000	10000 J
Cumene	4300	1800 J	21000	8600 J
Propylbenzene	4300	1600 J	21000	8100 J
Butane	17000	1400000	41000	3500000
Isopentane	17000	2800000	51000	8300000

Client Sample ID: VMP-12-39-041911

Lab ID#: 1104422A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	17000	9900 J	40000	24000 J
Hexane	4200	330000	15000	1200000
Cyclohexane	4200	160000	14000	570000
2,2,4-Trimethylpentane	4200	230000	20000	1100000
Benzene	4200	3200000	13000	10000000
Heptane	4200	43000	17000	180000
Ethyl Benzene	4200	2400 J	18000	10000 J
Cumene	4200	2000 J	21000	9700 J
Propylbenzene	4200	2100 J	21000	10000 J
Butane	17000	1400000	40000	3200000
Isopentane	17000	2700000	50000	7800000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-12-5-041911

Lab ID#: 1104422A-03A

EPA METHOD TO-15 GC/MS

File Name:	**b042819**	**Date of Collection:**	**4/19/11 11:05:00 AM**
Dil. Factor:	**894**	**Date of Analysis:**	**4/28/11 01:48 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	4500	Not Detected	22000	Not Detected
Freon 114	4500	Not Detected	31000	Not Detected
Chloromethane	18000	Not Detected	37000	Not Detected
Vinyl Chloride	4500	Not Detected	11000	Not Detected
1,3-Butadiene	4500	Not Detected	9900	Not Detected
Bromomethane	4500	Not Detected	17000	Not Detected
Chloroethane	18000	Not Detected	47000	Not Detected
Freon 11	4500	Not Detected	25000	Not Detected
Ethanol	18000	2800 J	34000	5200 J
Freon 113	4500	Not Detected	34000	Not Detected
1,1-Dichloroethene	4500	Not Detected	18000	Not Detected
Acetone	18000	7300 J	42000	17000 J
2-Propanol	18000	Not Detected UJ	44000	Not Detected UJ
Carbon Disulfide	4500	Not Detected	14000	Not Detected
3-Chloropropene	18000	Not Detected	56000	Not Detected
Methylene Chloride	4500	Not Detected	16000	Not Detected
Methyl tert-butyl ether	4500	Not Detected	16000	Not Detected
trans-1,2-Dichloroethene	4500	Not Detected	18000	Not Detected
Hexane	4500	1400 J	16000	5100 J
1,1-Dichloroethane	4500	Not Detected	18000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	18000	Not Detected	53000	Not Detected
cis-1,2-Dichloroethene	4500	Not Detected	18000	Not Detected
Tetrahydrofuran	4500	Not Detected	13000	Not Detected
Chloroform	4500	Not Detected	22000	Not Detected
1,1,1-Trichloroethane	4500	Not Detected	24000	Not Detected
Cyclohexane	4500	87000	15000	300000
Carbon Tetrachloride	4500	Not Detected	28000	Not Detected
2,2,4-Trimethylpentane	4500	240000	21000	1100000
Benzene	4500	1800 J	14000	5800 J
1,2-Dichloroethane	4500	Not Detected	18000	Not Detected
Heptane	4500	Not Detected	18000	Not Detected
Trichloroethene	4500	Not Detected	24000	Not Detected
1,2-Dichloropropane	4500	Not Detected	21000	Not Detected
1,4-Dioxane	18000	Not Detected	64000	Not Detected
Bromodichloromethane	4500	Not Detected	30000	Not Detected
cis-1,3-Dichloropropene	4500	Not Detected	20000	Not Detected
4-Methyl-2-pentanone	4500	Not Detected	18000	Not Detected
Toluene	4500	3000 J	17000	11000 J
trans-1,3-Dichloropropene	4500	Not Detected	20000	Not Detected
1,1,2-Trichloroethane	4500	Not Detected	24000	Not Detected
Tetrachloroethene	4500	Not Detected	30000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-12-5-041911

Lab ID#: 1104422A-03A

EPA METHOD TO-15 GC/MS

File Name:	**b042819**	**Date of Collection:**	**4/19/11 11:05:00 AM**
Dil. Factor:	**894**	**Date of Analysis:**	**4/28/11 01:48 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	18000	Not Detected	73000	Not Detected
Dibromochloromethane	4500	Not Detected	38000	Not Detected
1,2-Dibromoethane (EDB)	4500	Not Detected	34000	Not Detected
Chlorobenzene	4500	Not Detected	20000	Not Detected
Ethyl Benzene	4500	Not Detected	19000	Not Detected
m,p-Xylene	4500	1800 J	19000	7900 J
o-Xylene	4500	Not Detected	19000	Not Detected
Styrene	4500	Not Detected	19000	Not Detected
Bromoform	4500	Not Detected	46000	Not Detected
Cumene	4500	Not Detected	22000	Not Detected
1,1,2,2-Tetrachloroethane	4500	Not Detected	31000	Not Detected
Propylbenzene	4500	Not Detected	22000	Not Detected
4-Ethyltoluene	4500	Not Detected	22000	Not Detected
1,3,5-Trimethylbenzene	4500	Not Detected	22000	Not Detected
1,2,4-Trimethylbenzene	4500	Not Detected	22000	Not Detected
1,3-Dichlorobenzene	4500	Not Detected	27000	Not Detected
1,4-Dichlorobenzene	4500	Not Detected	27000	Not Detected
alpha-Chlorotoluene	4500	Not Detected	23000	Not Detected
1,2-Dichlorobenzene	4500	Not Detected	27000	Not Detected
1,2,4-Trichlorobenzene	18000	Not Detected	130000	Not Detected
Hexachlorobutadiene	18000	Not Detected	190000	Not Detected
Butane	18000	1400000	42000	3200000
Isopentane	18000	3300000	53000	9700000

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-12-11.5-041911

Lab ID#: 1104422A-04A

EPA METHOD TO-15 GC/MS

File Name:	**b042820**	**Date of Collection:**	**4/19/11 12:10:00 PM**
Dil. Factor:	**809**	**Date of Analysis:**	**4/28/11 02:10 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	4000	Not Detected	20000	Not Detected
Freon 114	4000	Not Detected	28000	Not Detected
Chloromethane	16000	Not Detected	33000	Not Detected
Vinyl Chloride	4000	Not Detected	10000	Not Detected
1,3-Butadiene	4000	Not Detected	8900	Not Detected
Bromomethane	4000	Not Detected	16000	Not Detected
Chloroethane	16000	Not Detected	43000	Not Detected
Freon 11	4000	Not Detected	23000	Not Detected
Ethanol	16000	Not Detected	30000	Not Detected
Freon 113	4000	Not Detected	31000	Not Detected
1,1-Dichloroethene	4000	Not Detected	16000	Not Detected
Acetone	16000	6400 J	38000	15000 J
2-Propanol	16000	Not Detected UJ UJ	40000	Not Detected UJ UJ
Carbon Disulfide	4000	Not Detected	12000	Not Detected
3-Chloropropene	16000	Not Detected	51000	Not Detected
Methylene Chloride	4000	Not Detected UJ	14000	Not Detected UJ
Methyl tert-butyl ether	4000	Not Detected	14000	Not Detected
trans-1,2-Dichloroethene	4000	Not Detected	16000	Not Detected
Hexane	4000	2000 J	14000	6900 J
1,1-Dichloroethane	4000	Not Detected	16000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	16000	Not Detected	48000	Not Detected
cis-1,2-Dichloroethene	4000	Not Detected	16000	Not Detected
Tetrahydrofuran	4000	Not Detected UJ	12000	Not Detected UJ
Chloroform	4000	Not Detected	20000	Not Detected
1,1,1-Trichloroethane	4000	Not Detected	22000	Not Detected
Cyclohexane	4000	120000	14000	420000
Carbon Tetrachloride	4000	Not Detected	25000	Not Detected
2,2,4-Trimethylpentane	4000	250000	19000	1200000
Benzene	4000	250000	13000	810000
1,2-Dichloroethane	4000	Not Detected	16000	Not Detected
Heptane	4000	Not Detected	16000	Not Detected
Trichloroethene	4000	Not Detected	22000	Not Detected
1,2-Dichloropropane	4000	Not Detected	19000	Not Detected
1,4-Dioxane	16000	Not Detected	58000	Not Detected
Bromodichloromethane	4000	Not Detected	27000	Not Detected
cis-1,3-Dichloropropene	4000	Not Detected	18000	Not Detected
4-Methyl-2-pentanone	4000	Not Detected	16000	Not Detected
Toluene	4000	Not Detected	15000	Not Detected
trans-1,3-Dichloropropene	4000	Not Detected	18000	Not Detected
1,1,2-Trichloroethane	4000	Not Detected	22000	Not Detected
Tetrachloroethene	4000	Not Detected	27000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-12-11.5-041911

Lab ID#: 1104422A-04A

EPA METHOD TO-15 GC/MS

File Name:	**b042820**	**Date of Collection:**	**4/19/11 12:10:00 PM**
Dil. Factor:	**809**	**Date of Analysis:**	**4/28/11 02:10 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	16000	Not Detected	66000	Not Detected
Dibromochloromethane	4000	Not Detected	34000	Not Detected
1,2-Dibromoethane (EDB)	4000	Not Detected	31000	Not Detected
Chlorobenzene	4000	Not Detected	19000	Not Detected
Ethyl Benzene	4000	Not Detected	18000	Not Detected
m,p-Xylene	4000	Not Detected	18000	Not Detected
o-Xylene	4000	Not Detected	18000	Not Detected
Styrene	4000	Not Detected	17000	Not Detected
Bromoform	4000	Not Detected	42000	Not Detected
Cumene	4000	Not Detected	20000	Not Detected
1,1,2,2-Tetrachloroethane	4000	Not Detected	28000	Not Detected
Propylbenzene	4000	Not Detected	20000	Not Detected
4-Ethyltoluene	4000	Not Detected	20000	Not Detected
1,3,5-Trimethylbenzene	4000	Not Detected	20000	Not Detected
1,2,4-Trimethylbenzene	4000	Not Detected	20000	Not Detected
1,3-Dichlorobenzene	4000	Not Detected	24000	Not Detected
1,4-Dichlorobenzene	4000	Not Detected	24000	Not Detected
alpha-Chlorotoluene	4000	Not Detected	21000	Not Detected
1,2-Dichlorobenzene	4000	Not Detected	24000	Not Detected
1,2,4-Trichlorobenzene	16000	Not Detected	120000	Not Detected
Hexachlorobutadiene	16000	Not Detected	170000	Not Detected
Butane	16000	1800000	38000	4300000
Isopentane	16000	3600000	48000	11000000

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-12-25-041911

Lab ID#: 1104422A-05A

EPA METHOD TO-15 GC/MS

File Name:	**b042821**	**Date of Collection:**	**4/19/11 2:35:00 PM**
Dil. Factor:	**869**	**Date of Analysis:**	**4/28/11 02:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	4300	Not Detected	21000	Not Detected
Freon 114	4300	Not Detected	30000	Not Detected
Chloromethane	17000	Not Detected	36000	Not Detected
Vinyl Chloride	4300	Not Detected	11000	Not Detected
1,3-Butadiene	4300	Not Detected	9600	Not Detected
Bromomethane	4300	Not Detected	17000	Not Detected
Chloroethane	17000	Not Detected	46000	Not Detected
Freon 11	4300	Not Detected	24000	Not Detected
Ethanol	17000	Not Detected	33000	Not Detected
Freon 113	4300	Not Detected	33000	Not Detected
1,1-Dichloroethene	4300	Not Detected	17000	Not Detected
Acetone	17000	11000 J	41000	27000 J
2-Propanol	17000	Not Detected UJ UJ	43000	Not Detected UJ UJ
Carbon Disulfide	4300	Not Detected	14000	Not Detected
3-Chloropropene	17000	Not Detected	54000	Not Detected
Methylene Chloride	4300	Not Detected UJ	15000	Not Detected UJ
Methyl tert-butyl ether	4300	Not Detected	16000	Not Detected
trans-1,2-Dichloroethene	4300	Not Detected	17000	Not Detected
Hexane	4300	31000	15000	110000
1,1-Dichloroethane	4300	Not Detected	18000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	17000	Not Detected	51000	Not Detected
cis-1,2-Dichloroethene	4300	Not Detected	17000	Not Detected
Tetrahydrofuran	4300	Not Detected UJ	13000	Not Detected UJ
Chloroform	4300	Not Detected	21000	Not Detected
1,1,1-Trichloroethane	4300	Not Detected	24000	Not Detected
Cyclohexane	4300	130000	15000	430000
Carbon Tetrachloride	4300	Not Detected	27000	Not Detected
2,2,4-Trimethylpentane	4300	210000	20000	980000
Benzene	4300	2600000	14000	8300000
1,2-Dichloroethane	4300	Not Detected	18000	Not Detected
Heptane	4300	2500 J	18000	10000 J
Trichloroethene	4300	Not Detected	23000	Not Detected
1,2-Dichloropropane	4300	Not Detected	20000	Not Detected
1,4-Dioxane	17000	Not Detected	63000	Not Detected
Bromodichloromethane	4300	Not Detected	29000	Not Detected
cis-1,3-Dichloropropene	4300	Not Detected	20000	Not Detected
4-Methyl-2-pentanone	4300	Not Detected	18000	Not Detected
Toluene	4300	Not Detected	16000	Not Detected
trans-1,3-Dichloropropene	4300	Not Detected	20000	Not Detected
1,1,2-Trichloroethane	4300	Not Detected	24000	Not Detected
Tetrachloroethene	4300	Not Detected	29000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-12-25-041911

Lab ID#: 1104422A-05A

EPA METHOD TO-15 GC/MS

File Name:	**b042821**	**Date of Collection:**	**4/19/11 2:35:00 PM**
Dil. Factor:	**869**	**Date of Analysis:**	**4/28/11 02:31 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	17000	Not Detected	71000	Not Detected
Dibromochloromethane	4300	Not Detected	37000	Not Detected
1,2-Dibromoethane (EDB)	4300	Not Detected	33000	Not Detected
Chlorobenzene	4300	Not Detected	20000	Not Detected
Ethyl Benzene	4300	Not Detected	19000	Not Detected
m,p-Xylene	4300	Not Detected	19000	Not Detected
o-Xylene	4300	Not Detected	19000	Not Detected
Styrene	4300	Not Detected	18000	Not Detected
Bromoform	4300	Not Detected	45000	Not Detected
Cumene	4300	1800 J	21000	8600 J
1,1,2,2-Tetrachloroethane	4300	Not Detected	30000	Not Detected
Propylbenzene	4300	1600 J	21000	8100 J
4-Ethyltoluene	4300	Not Detected	21000	Not Detected
1,3,5-Trimethylbenzene	4300	Not Detected	21000	Not Detected
1,2,4-Trimethylbenzene	4300	Not Detected	21000	Not Detected
1,3-Dichlorobenzene	4300	Not Detected	26000	Not Detected
1,4-Dichlorobenzene	4300	Not Detected	26000	Not Detected
alpha-Chlorotoluene	4300	Not Detected	22000	Not Detected
1,2-Dichlorobenzene	4300	Not Detected	26000	Not Detected
1,2,4-Trichlorobenzene	17000	Not Detected	130000	Not Detected
Hexachlorobutadiene	17000	Not Detected	180000	Not Detected
Butane	17000	1400000	41000	3500000
Isopentane	17000	2800000	51000	8300000

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-12-39-041911

Lab ID#: 1104422A-06A

EPA METHOD TO-15 GC/MS

File Name:	**b042822**	**Date of Collection:**	**4/19/11 3:28:00 PM**
Dil. Factor:	**842**	**Date of Analysis:**	**4/28/11 02:51 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	4200	Not Detected	21000	Not Detected
Freon 114	4200	Not Detected	29000	Not Detected
Chloromethane	17000	Not Detected	35000	Not Detected
Vinyl Chloride	4200	Not Detected	11000	Not Detected
1,3-Butadiene	4200	Not Detected	9300	Not Detected
Bromomethane	4200	Not Detected	16000	Not Detected
Chloroethane	17000	Not Detected	44000	Not Detected
Freon 11	4200	Not Detected	24000	Not Detected
Ethanol	17000	Not Detected	32000	Not Detected
Freon 113	4200	Not Detected	32000	Not Detected
1,1-Dichloroethene	4200	Not Detected	17000	Not Detected
Acetone	17000	9900 J	40000	24000 J
2-Propanol	17000	Not Detected UJ	41000	Not Detected UJ
Carbon Disulfide	4200	Not Detected	13000	Not Detected
3-Chloropropene	17000	Not Detected	53000	Not Detected
Methylene Chloride	4200	Not Detected UJ	15000	Not Detected UJ
Methyl tert-butyl ether	4200	Not Detected	15000	Not Detected
trans-1,2-Dichloroethene	4200	Not Detected	17000	Not Detected
Hexane	4200	330000	15000	1200000
1,1-Dichloroethane	4200	Not Detected	17000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	17000	Not Detected	50000	Not Detected
cis-1,2-Dichloroethene	4200	Not Detected	17000	Not Detected
Tetrahydrofuran	4200	Not Detected UJ	12000	Not Detected UJ
Chloroform	4200	Not Detected	20000	Not Detected
1,1,1-Trichloroethane	4200	Not Detected	23000	Not Detected
Cyclohexane	4200	160000	14000	570000
Carbon Tetrachloride	4200	Not Detected	26000	Not Detected
2,2,4-Trimethylpentane	4200	230000	20000	1100000
Benzene	4200	3200000	13000	10000000
1,2-Dichloroethane	4200	Not Detected	17000	Not Detected
Heptane	4200	43000	17000	180000
Trichloroethene	4200	Not Detected	23000	Not Detected
1,2-Dichloropropane	4200	Not Detected	19000	Not Detected
1,4-Dioxane	17000	Not Detected	61000	Not Detected
Bromodichloromethane	4200	Not Detected	28000	Not Detected
cis-1,3-Dichloropropene	4200	Not Detected	19000	Not Detected
4-Methyl-2-pentanone	4200	Not Detected	17000	Not Detected
Toluene	4200	Not Detected	16000	Not Detected
trans-1,3-Dichloropropene	4200	Not Detected	19000	Not Detected
1,1,2-Trichloroethane	4200	Not Detected	23000	Not Detected
Tetrachloroethene	4200	Not Detected	28000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-12-39-041911

Lab ID#: 1104422A-06A

EPA METHOD TO-15 GC/MS

File Name:	**b042822**	**Date of Collection: 4/19/11 3:28:00 PM**	
Dil. Factor:	**842**	**Date of Analysis: 4/28/11 02:51 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	17000	Not Detected	69000	Not Detected
Dibromochloromethane	4200	Not Detected	36000	Not Detected
1,2-Dibromoethane (EDB)	4200	Not Detected	32000	Not Detected
Chlorobenzene	4200	Not Detected	19000	Not Detected
Ethyl Benzene	4200	2400 J	18000	10000 J
m,p-Xylene	4200	Not Detected	18000	Not Detected
o-Xylene	4200	Not Detected	18000	Not Detected
Styrene	4200	Not Detected	18000	Not Detected
Bromoform	4200	Not Detected	44000	Not Detected
Cumene	4200	2000 J	21000	9700 J
1,1,2,2-Tetrachloroethane	4200	Not Detected	29000	Not Detected
Propylbenzene	4200	2100 J	21000	10000 J
4-Ethyltoluene	4200	Not Detected	21000	Not Detected
1,3,5-Trimethylbenzene	4200	Not Detected	21000	Not Detected
1,2,4-Trimethylbenzene	4200	Not Detected	21000	Not Detected
1,3-Dichlorobenzene	4200	Not Detected	25000	Not Detected
1,4-Dichlorobenzene	4200	Not Detected	25000	Not Detected
alpha-Chlorotoluene	4200	Not Detected	22000	Not Detected
1,2-Dichlorobenzene	4200	Not Detected	25000	Not Detected
1,2,4-Trichlorobenzene	17000	Not Detected	120000	Not Detected
Hexachlorobutadiene	17000	Not Detected	180000	Not Detected
Butane	17000	1400000	40000	3200000
Isopentane	17000	2700000	50000	7800000

J = Estimated value.
UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104422A-07A

EPA METHOD TO-15 GC/MS

File Name:	**b042807a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 09:04 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 UJ	49	Not Detected UJ
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104422A-07A

EPA METHOD TO-15 GC/MS

File Name:	**b042807a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 09:04 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

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	85	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104422A-08A

EPA METHOD TO-15 GC/MS

File Name:	**b042805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 08:04 AM**	

Compound	%Recovery
Freon 12	88
Freon 114	93
Chloromethane	82
Vinyl Chloride	90
1,3-Butadiene	82
Bromomethane	89
Chloroethane	80
Freon 11	90
Ethanol	74
Freon 113	95
1,1-Dichloroethene	81
Acetone	80
2-Propanol	66 Q
Carbon Disulfide	84
3-Chloropropene	82
Methylene Chloride	79
Methyl tert-butyl ether	77
trans-1,2-Dichloroethene	88
Hexane	81
1,1-Dichloroethane	84
2-Butanone (Methyl Ethyl Ketone)	81
cis-1,2-Dichloroethene	82
Tetrahydrofuran	71
Chloroform	86
1,1,1-Trichloroethane	87
Cyclohexane	90
Carbon Tetrachloride	91
2,2,4-Trimethylpentane	82
Benzene	92
1,2-Dichloroethane	85
Heptane	91
Trichloroethene	90
1,2-Dichloropropane	87
1,4-Dioxane	91
Bromodichloromethane	90
cis-1,3-Dichloropropene	84
4-Methyl-2-pentanone	83
Toluene	92
trans-1,3-Dichloropropene	88
1,1,2-Trichloroethane	94
Tetrachloroethene	98

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104422A-08A

EPA METHOD TO-15 GC/MS

File Name:	**b042805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 08:04 AM**	

Compound	%Recovery
2-Hexanone	72
Dibromochloromethane	102
1,2-Dibromoethane (EDB)	97
Chlorobenzene	98
Ethyl Benzene	96
m,p-Xylene	96
o-Xylene	97
Styrene	101
Bromoform	102
Cumene	104
1,1,2,2-Tetrachloroethane	91
Propylbenzene	94
4-Ethyltoluene	99
1,3,5-Trimethylbenzene	98
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	124
Hexachlorobutadiene	163 Q
Butane	82
Isopentane	74

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	85	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	108	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104422A-09A

EPA METHOD TO-15 GC/MS

File Name:	**b042803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 07:22 AM**	

Compound	%Recovery
Freon 12	75
Freon 114	80
Chloromethane	77
Vinyl Chloride	79
1,3-Butadiene	72
Bromomethane	78
Chloroethane	70
Freon 11	77
Ethanol	60
Freon 113	82
1,1-Dichloroethene	73
Acetone	67
2-Propanol	54 Q
Carbon Disulfide	89
3-Chloropropene	78
Methylene Chloride	67 Q
Methyl tert-butyl ether	84
trans-1,2-Dichloroethene	85
Hexane	68
1,1-Dichloroethane	72
2-Butanone (Methyl Ethyl Ketone)	66
cis-1,2-Dichloroethene	71
Tetrahydrofuran	56 Q
Chloroform	75
1,1,1-Trichloroethane	74
Cyclohexane	76
Carbon Tetrachloride	79
2,2,4-Trimethylpentane	69
Benzene	80
1,2-Dichloroethane	74
Heptane	76
Trichloroethene	77
1,2-Dichloropropane	75
1,4-Dioxane	73
Bromodichloromethane	77
cis-1,3-Dichloropropene	70
4-Methyl-2-pentanone	66
Toluene	78
trans-1,3-Dichloropropene	74
1,1,2-Trichloroethane	82
Tetrachloroethene	84

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS
Lab ID#: 1104422A-09A
EPA METHOD TO-15 GC/MS

File Name:	**b042803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 07:22 AM**	

Compound	%Recovery
2-Hexanone	60
Dibromochloromethane	87
1,2-Dibromoethane (EDB)	87
Chlorobenzene	87
Ethyl Benzene	83
m,p-Xylene	85
o-Xylene	84
Styrene	87
Bromoform	86
Cumene	91
1,1,2,2-Tetrachloroethane	82
Propylbenzene	85
4-Ethyltoluene	85
1,3,5-Trimethylbenzene	86
1,2,4-Trimethylbenzene	85
1,3-Dichlorobenzene	96
1,4-Dichlorobenzene	94
alpha-Chlorotoluene	83
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	121
Hexachlorobutadiene	139 Q
Butane	71
Isopentane	63

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	84	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	108	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104422A-09AA

EPA METHOD TO-15 GC/MS

File Name:	**b042804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 07:41 AM**	

Compound	%Recovery
Freon 12	83
Freon 114	82
Chloromethane	78
Vinyl Chloride	81
1,3-Butadiene	73
Bromomethane	80
Chloroethane	73
Freon 11	79
Ethanol	62
Freon 113	85
1,1-Dichloroethene	76
Acetone	69
2-Propanol	56 Q
Carbon Disulfide	91
3-Chloropropene	80
Methylene Chloride	68 Q
Methyl tert-butyl ether	66
trans-1,2-Dichloroethene	88
Hexane	70
1,1-Dichloroethane	74
2-Butanone (Methyl Ethyl Ketone)	70
cis-1,2-Dichloroethene	72
Tetrahydrofuran	59 Q
Chloroform	77
1,1,1-Trichloroethane	77
Cyclohexane	78
Carbon Tetrachloride	81
2,2,4-Trimethylpentane	72
Benzene	81
1,2-Dichloroethane	74
Heptane	77
Trichloroethene	79
1,2-Dichloropropane	75
1,4-Dioxane	74
Bromodichloromethane	78
cis-1,3-Dichloropropene	71
4-Methyl-2-pentanone	67
Toluene	80
trans-1,3-Dichloropropene	76
1,1,2-Trichloroethane	82
Tetrachloroethene	85

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104422A-09AA

EPA METHOD TO-15 GC/MS

File Name:	**b042804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/28/11 07:41 AM**	

Compound	%Recovery
2-Hexanone	61
Dibromochloromethane	88
1,2-Dibromoethane (EDB)	87
Chlorobenzene	89
Ethyl Benzene	84
m,p-Xylene	85
o-Xylene	85
Styrene	88
Bromoform	88
Cumene	92
1,1,2,2-Tetrachloroethane	82
Propylbenzene	86
4-Ethyltoluene	86
1,3,5-Trimethylbenzene	87
1,2,4-Trimethylbenzene	85
1,3-Dichlorobenzene	97
1,4-Dichlorobenzene	96
alpha-Chlorotoluene	85
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	118
Hexachlorobutadiene	147 Q
Butane	70
Isopentane	65

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	107	70-130

1104422

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box:
GAV. SERVICES | MOTIVA RETAIL | SHELL RETAIL
MOTIVA SD&M | CONSULTANT | LUBES
SHELL PIPELINE | OTHER

LOC CODE:

Print Bill To Contact Name: Thomas Adams

INCIDENT # (ENV SERVICES): 9 7 2 1 6 8 4 0

CHECK IF NO INCIDENT # APPLIES

DATE: 04/19/11

PAGE: 1 of 1

PO #:

SAP #: 3 4 0 0 6 1

BILL TO COMPANY: URS CORPORATION

BILL ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA

State: IL

GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

ECP DELIVERABLES TO (NAME, COMPANY, OTHER ADDRESS): Elizabeth Kunkel, URS, St. Louis

PHONE NO.: 314-743-4179

E-MAIL: Elizabeth_Kunkel@URSCorp.com

CONSULTANT PROJECT NAME: Roxana Dissolved Phase

Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719

TELEPHONE: 314-429-0100

FAX: 314-429-0462

Bill to Contact E-MAIL: Thomas_Adams@URSCorp.com

SAMPLER NAME(S) (Print): E. Arthur, W. Buchman, C. Kretzer, M. Ewersmann, N. Satem

TURNAROUND TIME (CALENDAR DAYS): STANDARD (14 DAY) | 5 DAYS | 3 DAYS | 2 DAYS | 24 HOURS | RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT | OTHER AGENCY:

DELIVERABLES: LEVEL 1 | LEVEL 2 | LEVEL 3 | LEVEL 4 | OTHER (SPECIFY)

SHELL CONTRACT RATE APPLIES
STATE REIMBURSEMENT RATE APPLIES
EDD NOT NEEDED
RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Turn Around Time: [x] Normal [ ] Rush — Specify

Lab Use Only: Pressurized by: Date: Pressurization Gas: N2 He

Lab Use Only	Field Sample Identification	Sampling: Date	Sampling: Time	Canister Number	Canister Pressure/Vacuum: Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
010	VMP-4-5-041911	04/19/11	1034 - 1104	3795	-30	-5.5			X	X	
020	VMP-4-12-041911	04/19/11	1205 - 1235	3074	-30	-4.5			X	X	
030	VMP-12-5-041911	04/19/11	1040 - 1105	2689	-29.5	-9			X	X	
040	VMP-12-11.5-041911	04/19/11	1140 - 1210	3281	-29.5	-8			X	X	
050	VMP-12-25-041911	04/19/11	1416 - 1436	2037	-30	-7.5			X	X	
060	VMP-12-39-041911	04/19/11	1503 - 1528	2165	-29	-9			X	X	

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	4/19/11	1700
	B. Wuttke ARC 4/20/11 0830		

05/2/08 Revision

CUSTODY SEAL INTACT? (Y) N NONE TEMP NA

Fedex

Air Toxics LTD.
Laboratory Services Since 1989

4/27/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562593.00008
Workorder #: 1104422B

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/20/2011 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 6/29/11

WORK ORDER #: 1104422B

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/20/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/27/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
03A	VMP-12-5-041911	Modified ASTM D-1946	8.8 "Hg	15 psi
04A	VMP-12-11.5-041911	Modified ASTM D-1946	6.6 "Hg	15 psi
05A	VMP-12-25-041911	Modified ASTM D-1946	8.2 "Hg	15 psi
06A	VMP-12-39-041911	Modified ASTM D-1946	10.0 "Hg	15 psi
07A	Lab Blank	Modified ASTM D-1946	NA	NA
07B	Lab Blank	Modified ASTM D-1946	NA	NA
08A	LCS	Modified ASTM D-1946	NA	NA
08AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 04/27/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1104422B

Four 1 Liter Summa Canister samples were received on April 20, 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.

Requirement	*ASTM D-1946*	*ATL Modifications*
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 >/= 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 X's 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

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-12-5-041911

Lab ID#: 1104422B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.29	1.4
Nitrogen	0.29	59
Methane	0.00029	31
Carbon Dioxide	0.029	7.4
Ethane	0.0029	0.00088 J
Helium	0.14	0.023 J

Client Sample ID: VMP-12-11.5-041911

Lab ID#: 1104422B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.6
Nitrogen	0.26	50
Methane	0.00026	37
Carbon Dioxide	0.026	9.2
Ethane	0.0026	0.0011 J
Helium	0.13	0.023 J

Client Sample ID: VMP-12-25-041911

Lab ID#: 1104422B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.1
Nitrogen	0.28	49
Methane	0.00028	35
Carbon Dioxide	0.028	13
Ethane	0.0028	0.00097 J
Helium	0.14	0.032 J

Client Sample ID: VMP-12-39-041911

Lab ID#: 1104422B-06A

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-12-39-041911

Lab ID#: 1104422B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	1.0
Nitrogen	0.30	42
Methane	0.00030	42
Carbon Dioxide	0.030	13
Ethane	0.0030	0.0014 J
Helium	0.15	0.014 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-12-5-041911

Lab ID#: 1104422B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042522**	**Date of Collection:**	**4/19/11 11:05:00 AM**
Dil. Factor:	**2.86**	**Date of Analysis:**	**4/25/11 02:05 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.29	1.4
Nitrogen	0.29	59
Carbon Monoxide	0.029	Not Detected
Methane	0.00029	31
Carbon Dioxide	0.029	7.4
Ethane	0.0029	0.00088 J
Ethene	0.0029	Not Detected
Helium	0.14	0.023 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-12-11.5-041911

Lab ID#: 1104422B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042523**	**Date of Collection:**	**4/19/11 12:10:00 PM**
Dil. Factor:	**2.59**	**Date of Analysis:**	**4/25/11 02:27 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.26	1.6
Nitrogen	0.26	50
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	37
Carbon Dioxide	0.026	9.2
Ethane	0.0026	0.0011 J
Ethene	0.0026	Not Detected
Helium	0.13	0.023 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-12-25-041911

Lab ID#: 1104422B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042524**	**Date of Collection:**	**4/19/11 2:35:00 PM**
Dil. Factor:	**2.78**	**Date of Analysis:**	**4/25/11 03:08 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.1
Nitrogen	0.28	49
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	35
Carbon Dioxide	0.028	13
Ethane	0.0028	0.00097 J
Ethene	0.0028	Not Detected
Helium	0.14	0.032 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-12-39-041911

Lab ID#: 1104422B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042525**	**Date of Collection:**	**4/19/11 3:28:00 PM**
Dil. Factor:	**3.03**	**Date of Analysis:**	**4/25/11 03:55 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.30	1.0
Nitrogen	0.30	42
Carbon Monoxide	0.030	Not Detected
Methane	0.00030	42
Carbon Dioxide	0.030	13
Ethane	0.0030	0.0014 J
Ethene	0.0030	Not Detected
Helium	0.15	0.014 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104422B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042512a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/25/11 09:54 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.10	0.014 J
Nitrogen	0.10	0.067 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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104422B-07B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042511b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/25/11 09:32 AM**	

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

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104422B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042510**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/25/11 09:07 AM**	

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

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104422B-08AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042533**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/25/11 09:32 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	98
Methane	99
Carbon Dioxide	101
Ethane	102
Ethene	100
Helium	94

Container Type: NA - Not Applicable

1104422

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box: ENV. SERVICES | MOTIVA RETAIL | SHELL RETAIL | MOTIVA SD&CH | CONSULTANT | LUBES | SHELL PIPELINE | OTHER

LOG CODE:

Print Bill To Contact Name: Thomas Adams

INCIDENT # (ENV. SERVICES): 9 7 2 1 6 8 4 0

CHECK IF NO INCIDENT # APPLIES

DATE: 04/19/11

PAGE: 1 of 1

PO #

SAP #: 3 4 0 0 6 1

URS CORPORATION

SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA | State: IL | GLOBAL ID NO.:

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

REP. DELIVERABLES TO (NAME, COMPANY, CITY LOCATION): Elizabeth Kunkel, URS, St. Louis | PHONE NO.: 314-743-4179 | E-MAIL: Elizabeth.Kunkel@URSCorp.com | CONSULTANT PROJECT MANAGER: Roxana Dissolved Phase

Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719

SAMPLER NAME(S) (Print): E. Arthur, W. Buchman, C. Kretzer, M. Ewersmann, N. Satam

TELEPHONE: 314-429-0100 | FAX: 314-429-0462 | Bill To Contact E-MAIL: Thomas.Adams@URSCorp.com

TURNAROUND TIME (CALENDAR DAYS): STANDARD (14 DAY) | 5 DAYS | 3 DAYS | 2 DAYS | 24 HOURS | RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT | TEST AGENCY:

DELIVERABLES: LEVEL 1 | LEVEL 2 | LEVEL 3 | LEVEL 4 | OTHER (SPECIFY)

SHELL CONTRACT RATE APPLIES
STATE REIMBURSEMENT RATE APPLIES
EDD NOT NEEDED
RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Turn Around Time: Normal | Rush | Specify

Lab Use Only: Pressurized by: Date: Pressurization Gas: N_2 Air

Lab Use Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
01A	VMP-4-5-041911	04/19/11	1034 - 1104	3795	-30	-5.5			X	X	
02A	VMP-4-12-041911	04/19/11	1205 - 1235	3074	-30	-4.5			X	X	
03A	VMP-12-5-041911	04/19/11	1040 - 1105	2689	-29.5	-9			X	X	
04A	VMP-12-11.5-041911	04/19/11	1140 - 1210	3281	-29.5	-8			X	X	
05A	VMP-12-25-041911	04/19/11	1410 - 1435	2037	-30	-7.5			X	X	
06A	VMP-12-39-041911	04/19/11	1503 - 1528	2185	-29	-9			X	X	

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	FEDEX	4/19/11	1700
	B. Wuttke ARC 4/20/11 0830		

05/2/08 Revision

CUSTODY SEAL INTACT? (Y) N NONE TEMP NA

Fedex

Air Toxics LTD.
Laboratory Services Since 1989

4/25/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562593.00008
Workorder #: 1104422C

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/20/2011 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 6/29/11

WORK ORDER #: 1104422C

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/20/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/25/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-4-5-041911	Modified TO-15	6.8 "Hg	15 psi
02A	VMP-4-12-041911	Modified TO-15	5.8 "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: Linda D. Frumarc DATE: 04/25/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

LABORATORY NARRATIVE
EPA Method TO-15 Soil Gas
URS Corporation
Workorder# 1104422C

Two 1 Liter Summa Canister samples were received on April 20, 2011. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

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 (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.

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.

Dilution was performed on samples VMP-4-5-041911 and VMP-4-12-041911 due to the presence of high level target species.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

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

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-4-5-041911

Lab ID#: 1104422C-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	7200	330000	26000	1200000
Cyclohexane	7200	220000	25000	770000
2,2,4-Trimethylpentane	7200	240000	34000	1100000
Benzene	7200	6900 J	23000	22000 J
Heptane	7200	93000	30000	380000
Butane	29000	3000000	69000	7000000
Isopentane	29000	3600000	86000	11000000

Client Sample ID: VMP-4-12-041911

Lab ID#: 1104422C-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	6200	370000	22000	1300000
Cyclohexane	6200	250000	22000	860000
2,2,4-Trimethylpentane	6200	250000	29000	1200000
Benzene	6200	12000	20000	38000
Heptane	6200	120000	26000	480000
Toluene	6200	5200 J	24000	20000 J
Ethyl Benzene	6200	7700	27000	33000
m,p-Xylene	6200	12000	27000	51000
o-Xylene	6200	1800 J	27000	7600 J
4-Ethyltoluene	6200	2200 J	31000	11000 J
Butane	25000	3000000	59000	7200000
Isopentane	25000	3700000	74000	11000000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-4-5-041911

Lab ID#: 1104422C-01A

EPA METHOD TO-15 GC/MS

File Name:	**b042218**	**Date of Collection:**	**4/19/11 11:04:00 AM**
Dil. Factor:	**1450**	**Date of Analysis:**	**4/22/11 03:57 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	7200	Not Detected	36000	Not Detected
Freon 114	7200	Not Detected	51000	Not Detected
Chloromethane	29000	Not Detected	60000	Not Detected
Vinyl Chloride	7200	Not Detected	18000	Not Detected
1,3-Butadiene	7200	Not Detected	16000	Not Detected
Bromomethane	7200	Not Detected	28000	Not Detected
Chloroethane	29000	Not Detected	76000	Not Detected
Freon 11	7200	Not Detected	41000	Not Detected
Ethanol	29000	Not Detected	55000	Not Detected
Freon 113	7200	Not Detected	56000	Not Detected
1,1-Dichloroethene	7200	Not Detected	29000	Not Detected
Acetone	29000	Not Detected	69000	Not Detected
2-Propanol	29000	Not Detected UJ UJ	71000	Not Detected UJ UJ
Carbon Disulfide	7200	Not Detected	22000	Not Detected
3-Chloropropene	29000	Not Detected	91000	Not Detected
Methylene Chloride	7200	Not Detected	25000	Not Detected
Methyl tert-butyl ether	7200	Not Detected	26000	Not Detected
trans-1,2-Dichloroethene	7200	Not Detected	29000	Not Detected
Hexane	7200	330000	26000	1200000
1,1-Dichloroethane	7200	Not Detected	29000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	29000	Not Detected	86000	Not Detected
cis-1,2-Dichloroethene	7200	Not Detected	29000	Not Detected
Tetrahydrofuran	7200	Not Detected	21000	Not Detected
Chloroform	7200	Not Detected	35000	Not Detected
1,1,1-Trichloroethane	7200	Not Detected	40000	Not Detected
Cyclohexane	7200	220000	25000	770000
Carbon Tetrachloride	7200	Not Detected	46000	Not Detected
2,2,4-Trimethylpentane	7200	240000	34000	1100000
Benzene	7200	6900 J	23000	22000 J
1,2-Dichloroethane	7200	Not Detected	29000	Not Detected
Heptane	7200	93000	30000	380000
Trichloroethene	7200	Not Detected	39000	Not Detected
1,2-Dichloropropane	7200	Not Detected	34000	Not Detected
1,4-Dioxane	29000	Not Detected	100000	Not Detected
Bromodichloromethane	7200	Not Detected	48000	Not Detected
cis-1,3-Dichloropropene	7200	Not Detected	33000	Not Detected
4-Methyl-2-pentanone	7200	Not Detected	30000	Not Detected
Toluene	7200	Not Detected	27000	Not Detected
trans-1,3-Dichloropropene	7200	Not Detected	33000	Not Detected
1,1,2-Trichloroethane	7200	Not Detected	40000	Not Detected
Tetrachloroethene	7200	Not Detected	49000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-4-5-041911

Lab ID#: 1104422C-01A

EPA METHOD TO-15 GC/MS

File Name:	**b042218**	**Date of Collection: 4/19/11 11:04:00 AM**	
Dil. Factor:	**1450**	**Date of Analysis: 4/22/11 03:57 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	29000	Not Detected	120000	Not Detected
Dibromochloromethane	7200	Not Detected	62000	Not Detected
1,2-Dibromoethane (EDB)	7200	Not Detected	56000	Not Detected
Chlorobenzene	7200	Not Detected	33000	Not Detected
Ethyl Benzene	7200	Not Detected	31000	Not Detected
m,p-Xylene	7200	Not Detected	31000	Not Detected
o-Xylene	7200	Not Detected	31000	Not Detected
Styrene	7200	Not Detected	31000	Not Detected
Bromoform	7200	Not Detected	75000	Not Detected
Cumene	7200	Not Detected	36000	Not Detected
1,1,2,2-Tetrachloroethane	7200	Not Detected	50000	Not Detected
Propylbenzene	7200	Not Detected	36000	Not Detected
4-Ethyltoluene	7200	Not Detected	36000	Not Detected
1,3,5-Trimethylbenzene	7200	Not Detected	36000	Not Detected
1,2,4-Trimethylbenzene	7200	Not Detected	36000	Not Detected
1,3-Dichlorobenzene	7200	Not Detected	44000	Not Detected
1,4-Dichlorobenzene	7200	Not Detected	44000	Not Detected
alpha-Chlorotoluene	7200	Not Detected	38000	Not Detected
1,2-Dichlorobenzene	7200	Not Detected	44000	Not Detected
1,2,4-Trichlorobenzene	29000	Not Detected	220000	Not Detected
Hexachlorobutadiene	29000	Not Detected	310000	Not Detected
Butane	29000	3000000	69000	7000000
Isopentane	29000	3600000	86000	11000000

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

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-4-12-041911

Lab ID#: 1104422C-02A

EPA METHOD TO-15 GC/MS

File Name:	**b042219**	**Date of Collection:**	**4/19/11 12:35:00 PM**
Dil. Factor:	**1250**	**Date of Analysis:**	**4/22/11 04:40 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	44000	Not Detected
Chloromethane	25000	Not Detected	52000	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	66000	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	25000	Not Detected
Acetone	25000	Not Detected	59000	Not Detected
2-Propanol	25000	Not Detected UJ	61000	Not Detected UJ
Carbon Disulfide	6200	Not Detected	19000	Not Detected
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	25000	Not Detected
Hexane	6200	370000	22000	1300000
1,1-Dichloroethane	6200	Not Detected	25000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	25000	Not Detected	74000	Not Detected
cis-1,2-Dichloroethene	6200	Not Detected	25000	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	250000	22000	860000
Carbon Tetrachloride	6200	Not Detected	39000	Not Detected
2,2,4-Trimethylpentane	6200	250000	29000	1200000
Benzene	6200	12000	20000	38000
1,2-Dichloroethane	6200	Not Detected	25000	Not Detected
Heptane	6200	120000	26000	480000
Trichloroethene	6200	Not Detected	34000	Not Detected
1,2-Dichloropropane	6200	Not Detected	29000	Not Detected
1,4-Dioxane	25000	Not Detected	90000	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	26000	Not Detected
Toluene	6200	5200 J	24000	20000 J
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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-4-12-041911

Lab ID#: 1104422C-02A

EPA METHOD TO-15 GC/MS

File Name:	**b042219**	**Date of Collection: 4/19/11 12:35:00 PM**	
Dil. Factor:	**1250**	**Date of Analysis: 4/22/11 04:40 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	29000	Not Detected
Ethyl Benzene	6200	7700	27000	33000
m,p-Xylene	6200	12000	27000	51000
o-Xylene	6200	1800 J	27000	7600 J
Styrene	6200	Not Detected	27000	Not Detected
Bromoform	6200	Not Detected	65000	Not Detected
Cumene	6200	Not Detected	31000	Not Detected
1,1,2,2-Tetrachloroethane	6200	Not Detected	43000	Not Detected
Propylbenzene	6200	Not Detected	31000	Not Detected
4-Ethyltoluene	6200	2200 J	31000	11000 J
1,3,5-Trimethylbenzene	6200	Not Detected	31000	Not Detected
1,2,4-Trimethylbenzene	6200	Not Detected	31000	Not Detected
1,3-Dichlorobenzene	6200	Not Detected	38000	Not Detected
1,4-Dichlorobenzene	6200	Not Detected	38000	Not Detected
alpha-Chlorotoluene	6200	Not Detected	32000	Not Detected
1,2-Dichlorobenzene	6200	Not Detected	38000	Not Detected
1,2,4-Trichlorobenzene	25000	Not Detected	180000	Not Detected
Hexachlorobutadiene	25000	Not Detected	270000	Not Detected
Butane	25000	3000000	59000	7200000
Isopentane	25000	3700000	74000	11000000

UJ = Non-detected compound associated with low bias in the CCV and/or LCS.
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	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104422C-03A

EPA METHOD TO-15 GC/MS

File Name:	**b042207c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/22/11 10:13 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 UJ	49	Not Detected UJ
Carbon Disulfide	5.0	Not Detected	16	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104422C-03A

EPA METHOD TO-15 GC/MS

File Name:	**b042207c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/22/11 10:13 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

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104422C-04A

EPA METHOD TO-15 GC/MS

File Name:	**b042202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/22/11 07:52 AM**	

Compound	%Recovery
Freon 12	90
Freon 114	90
Chloromethane	84
Vinyl Chloride	90
1,3-Butadiene	84
Bromomethane	88
Chloroethane	81
Freon 11	90
Ethanol	76
Freon 113	93
1,1-Dichloroethene	81
Acetone	78
2-Propanol	69 Q
Carbon Disulfide	83
3-Chloropropene	80
Methylene Chloride	79
Methyl tert-butyl ether	78
trans-1,2-Dichloroethene	86
Hexane	80
1,1-Dichloroethane	83
2-Butanone (Methyl Ethyl Ketone)	80
cis-1,2-Dichloroethene	82
Tetrahydrofuran	72
Chloroform	85
1,1,1-Trichloroethane	85
Cyclohexane	87
Carbon Tetrachloride	90
2,2,4-Trimethylpentane	81
Benzene	88
1,2-Dichloroethane	84
Heptane	87
Trichloroethene	87
1,2-Dichloropropane	83
1,4-Dioxane	85
Bromodichloromethane	86
cis-1,3-Dichloropropene	81
4-Methyl-2-pentanone	83
Toluene	87
trans-1,3-Dichloropropene	85
1,1,2-Trichloroethane	91
Tetrachloroethene	92

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV
Lab ID#: 1104422C-04A
EPA METHOD TO-15 GC/MS

File Name:	**b042202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/22/11 07:52 AM**	

Compound	%Recovery
2-Hexanone	76
Dibromochloromethane	97
1,2-Dibromoethane (EDB)	95
Chlorobenzene	95
Ethyl Benzene	94
m,p-Xylene	93
o-Xylene	95
Styrene	101
Bromoform	94
Cumene	101
1,1,2,2-Tetrachloroethane	87
Propylbenzene	92
4-Ethyltoluene	96
1,3,5-Trimethylbenzene	96
1,2,4-Trimethylbenzene	96
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	100
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	120
Hexachlorobutadiene	149 Q
Butane	84
Isopentane	75

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	106	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104422C-05A

EPA METHOD TO-15 GC/MS

File Name:	**b042204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/22/11 08:56 AM**	

Compound	%Recovery
Freon 12	95
Freon 114	93
Chloromethane	91
Vinyl Chloride	94
1,3-Butadiene	88
Bromomethane	92
Chloroethane	85
Freon 11	91
Ethanol	72
Freon 113	95
1,1-Dichloroethene	89
Acetone	82
2-Propanol	72
Carbon Disulfide	104
3-Chloropropene	94
Methylene Chloride	80
Methyl tert-butyl ether	83
trans-1,2-Dichloroethene	99
Hexane	82
1,1-Dichloroethane	86
2-Butanone (Methyl Ethyl Ketone)	83
cis-1,2-Dichloroethene	83
Tetrahydrofuran	73
Chloroform	89
1,1,1-Trichloroethane	89
Cyclohexane	90
Carbon Tetrachloride	93
2,2,4-Trimethylpentane	84
Benzene	90
1,2-Dichloroethane	84
Heptane	88
Trichloroethene	89
1,2-Dichloropropane	87
1,4-Dioxane	88
Bromodichloromethane	88
cis-1,3-Dichloropropene	84
4-Methyl-2-pentanone	85
Toluene	89
trans-1,3-Dichloropropene	89
1,1,2-Trichloroethane	92
Tetrachloroethene	94

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104422C-05A

EPA METHOD TO-15 GC/MS

File Name:	**b042204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/22/11 08:56 AM**	

Compound	%Recovery
2-Hexanone	78
Dibromochloromethane	99
1,2-Dibromoethane (EDB)	96
Chlorobenzene	98
Ethyl Benzene	96
m,p-Xylene	98
o-Xylene	98
Styrene	101
Bromoform	96
Cumene	105
1,1,2,2-Tetrachloroethane	92
Propylbenzene	97
4-Ethyltoluene	97
1,3,5-Trimethylbenzene	99
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	107
1,4-Dichlorobenzene	106
alpha-Chlorotoluene	102
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	133 Q
Hexachlorobutadiene	165 Q
Butane	86
Isopentane	76

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD
Lab ID#: 1104422C-05AA
EPA METHOD TO-15 GC/MS

File Name:	**b042205**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 4/22/11 09:22 AM**

Compound	%Recovery
Freon 12	84
Freon 114	82
Chloromethane	81
Vinyl Chloride	83
1,3-Butadiene	76
Bromomethane	82
Chloroethane	73
Freon 11	80
Ethanol	66
Freon 113	84
1,1-Dichloroethene	78
Acetone	72
2-Propanol	62
Carbon Disulfide	92
3-Chloropropene	83
Methylene Chloride	70
Methyl tert-butyl ether	72
trans-1,2-Dichloroethene	88
Hexane	71
1,1-Dichloroethane	75
2-Butanone (Methyl Ethyl Ketone)	71
cis-1,2-Dichloroethene	74
Tetrahydrofuran	63
Chloroform	77
1,1,1-Trichloroethane	79
Cyclohexane	79
Carbon Tetrachloride	82
2,2,4-Trimethylpentane	73
Benzene	80
1,2-Dichloroethane	76
Heptane	79
Trichloroethene	79
1,2-Dichloropropane	77
1,4-Dioxane	77
Bromodichloromethane	78
cis-1,3-Dichloropropene	74
4-Methyl-2-pentanone	73
Toluene	79
trans-1,3-Dichloropropene	78
1,1,2-Trichloroethane	82
Tetrachloroethene	84

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104422C-05AA

EPA METHOD TO-15 GC/MS

File Name:	**b042205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/22/11 09:22 AM**	

Compound	%Recovery
2-Hexanone	68
Dibromochloromethane	87
1,2-Dibromoethane (EDB)	86
Chlorobenzene	88
Ethyl Benzene	86
m,p-Xylene	87
o-Xylene	87
Styrene	89
Bromoform	85
Cumene	92
1,1,2,2-Tetrachloroethane	82
Propylbenzene	87
4-Ethyltoluene	88
1,3,5-Trimethylbenzene	88
1,2,4-Trimethylbenzene	90
1,3-Dichlorobenzene	95
1,4-Dichlorobenzene	95
alpha-Chlorotoluene	88
1,2-Dichlorobenzene	100
1,2,4-Trichlorobenzene	~~122~~
Hexachlorobutadiene	144 Q
Butane	74
Isopentane	67

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	87	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130

1104422

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box: SAP SERVICES | MOTIVA RETAIL | SHELL RETAIL | MOTIVA SD&CH | CONSULTANT | LUBES | SHELL PIPELINE | OTHER

Primary Contact Name: Thomas Adams
INCIDENT# (ENV. SERVICES): 9 7 2 1 6 6 4 0
CHECK IF NO INCIDENT # APPLIES
DATE: 04/19/11
PAGE: 1 of 1
PO #:
SAP #: 3 4 0 0 6 1
LOG CODE:

SAMPLING COMPANY: URS CORPORATION
SITE ADDRESS: Street and City: 800 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO.:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
PROJECT DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO.: 314-743-4179
EMAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME/NO.: Roxana Dissolved Phase
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (Print): E. Arthur, W. Buchman, C. Kretzer, M. Ewersmann, N. Selam
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill to Contact E-MAIL: Thomas_Adams@URSCorp.com

TURNAROUND TIME (CALENDAR DAYS): STANDARD (14 DAY) | 5 DAYS | 3 DAYS | 2 DAYS | 24 HOURS | RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

LA - RWQCB REPORT FORMAT | EDF REQUIRED | DELIVERABLE TO: LEVEL 1 | LEVEL 2 | LEVEL 3 | LEVEL 4 | OTHER (SPECIFY)

SHELL CONTRACT RATE APPLIES
STATE REIMBURSEMENT RATE APPLIES
COC NOT NEEDED
RECEIPT VERIFICATION REQUESTED

Turn Around Time: Normal | Rush | Specify

Lab Use Only: Received by: Date: Time:

	Field Sample Identification	Sampling Date	Sampling Time	Canister Number	Canister Pressure/Vacuum: Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946					
01	VMP-4-5-041911	04/19/11	1034 - 1104	3785	-30	-5.5			X	X						
02	VMP-4-12-041911	04/19/11	1205 - 1235	3074	-30	-4.5			X	X						
03	VMP-12-5-041911	04/19/11	1042 - 1106	2689	-29.5	-8			X	X						
04	VMP-12-11.5-041911	04/19/11	1140 - 1210	3281	-29.5	-8			X	X						
05	VMP-12-25-041911	04/19/11	1410 - 1436	2037	-30	-7.5			X	X						
06	VMP-12-39-041911	04/19/11	1503 - 1528	2195	-29	-8			X	X						
07																
08																
09																
10																

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	4/19/11	1700
Relinquished by: (Signature)	Received by: (Signature) B. Whittaker ATL 4/20/11 0930	Date	Time
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

CUSTODY SEAL INTACT? (Y) N NONE TEMP N/A
Fedex

4/20/11

Air Toxics LTD.
Laboratory Services Since 1989

4/25/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562593.00008
Workorder #: 1104422D

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/20/2011 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 6/29/11

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1104422D

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/20/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	04/25/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-4-5-041911	Modified ASTM D-1946	6.8 "Hg	15 psi
02A	VMP-4-12-041911	Modified ASTM D-1946	5.8 "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: Linda D. Fruman DATE: 04/25/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1104422D

Two 1 Liter Summa Canister samples were received on April 20, 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.

Requirement	*ASTM D-1946*	*ATL Modifications*
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 >/= 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 X's 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

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-4-5-041911

Lab ID#: 1104422D-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.3
Nitrogen	0.26	72
Methane	0.00026	12
Carbon Dioxide	0.026	12
Ethane	0.0026	0.0044
Helium	0.13	0.031 J

Client Sample ID: VMP-4-12-041911

Lab ID#: 1104422D-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	1.5
Nitrogen	0.25	72
Methane	0.00025	13
Carbon Dioxide	0.025	11
Ethane	0.0025	0.0046
Helium	0.12	0.035 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-4-5-041911

Lab ID#: 1104422D-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042305**	**Date of Collection:**	**4/19/11 11:04:00 AM**
Dil. Factor:	**2.61**	**Date of Analysis:**	**4/23/11 04:24 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.26	1.3
Nitrogen	0.26	72
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	12
Carbon Dioxide	0.026	12
Ethane	0.0026	0.0044
Ethene	0.0026	Not Detected
Helium	0.13	0.031 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-4-12-041911

Lab ID#: 1104422D-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042306**	**Date of Collection:**	**4/19/11 12:35:00 PM**
Dil. Factor:	**2.50**	**Date of Analysis:**	**4/23/11 04:52 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	1.5
Nitrogen	0.25	72
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	13
Carbon Dioxide	0.025	11
Ethane	0.0025	0.0046
Ethene	0.0025	Not Detected
Helium	0.12	0.035 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104422D-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042304a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/11 03:55 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.10	0.012 J
Nitrogen	0.10	0.058 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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104422D-03B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042303b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/11 03:34 PM**	

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

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104422D-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042302**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/11 03:05 PM**	

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

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104422D-04AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9042318**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 4/23/11 09:26 PM**	

Compound	%Recovery
Oxygen	99
Nitrogen	100
Carbon Monoxide	99
Methane	98
Carbon Dioxide	102
Ethane	101
Ethene	100
Helium	93

Container Type: NA - Not Applicable

1104422

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008

Lab Vendor #

Please Check Appropriate Box: ENV. SERVICES | MOTIVA RETAIL | SHELL RETAIL | MOTIVA SD&CM | CONSULTANT | LUBES | SHELL PIPELINE | OTHER

Log Code:

Printed Name & Contact Number: Thomas Adams

INCIDENT # (ENV. SERVICES): 9 7 2 1 6 6 4 0

CHECK IF NO INCIDENT # APPLIES

DATE: 04/19/11

PAGE: 1 of 1

PO #:

SAP #: 3 4 0 0 8 1

Sampling Company: URS CORPORATION

Site Address: Street and City: 900 SOUTH CENTRAL AVE – ROXANA

State: IL

Global ID No.:

Address: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110

EDF Deliverable To (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis

Phone No.: 314-743-4179

Email: Elizabeth.Kunkel@URSCorp.com

Consultant Project Number: Roxana Dissolved Phase

Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719

Telephone: 314-429-0100

Fax: 314-429-0462

Email To (Consultant): Thomas.Adams@URSCorp.com

Sampler Name(s) (Print): E. Arthur, W. Buchman, C. Kretzer, N. Ewenmann, N. Selam

TURNAROUND TIME (CALENDAR DAYS): STANDARD (14 DAY) | 5 DAYS | 3 DAYS | 2 DAYS | 24 HOURS | RESULTS NEEDED ON WEEKEND

UST - RWQCB REPORT FORMAT | UST AGENCY:

DELIVERABLES: LEVEL 1 | LEVEL 2 | LEVEL 3 | LEVEL 4 | OTHER (SPECIFY)

SHELL CONTRACT RATE APPLIES
STATE REIMBURSEMENT RATE APPLIES
ECO NOT NEEDED
RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

	Field Sample Identification	Sampling DATE	Sampling TIME	Canister Number	Canister Pressure/Vacuum Initial	Canister Pressure/Vacuum Final	Canister Pressure/Vacuum Receipt	Canister Pressure/Vacuum Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946						Lab Use Only
01	VMP-4-5-041911	04/19/11	1034 - 1104	3785	-30	-5.5			X	X							
02	VMP-4-12-041911	04/19/11	1205 - 1235	3074	-30	-4.6			X	X							
03	VMP-12-5-041911	04/19/11	1040 - 1100	2689	-29.5	-8			X	X							
04	VMP-12-11.5-041911	04/19/11	1140 - 1210	3261	-29.5	-8			X	X							
05	VMP-12-25-041911	04/19/11	1410 - 1438	2037	-30	-7.5			X	X							
06	VMP-12-38-041911	04/19/11	1503 - 1528	2165	-29	-8			X	X							
07																	
08																	
09																	
10																	

Turn Around Time: Normal | Rush | Specify

ADDITIONAL NOTES:

- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	4/19/11	1700
Relinquished by: (Signature)	Received by: (Signature) B. Wuttke ATL 4/20/11 0930	Date	Time
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

05/2/08 Revision

CUSTODY SEAL INTACT? (Y) N NONE TEMP N/A

Fedex

4/20/11

Roxana 2Q2011 Vapor Data Review

Laboratory SDG: 1104538A, B

Data Reviewer: Tony Sedlacek

Peer Reviewer: Jeff Aust

Date Reviewed: 6/29/2011

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-4-23.5-042011	VMP-4-23.5-042011-Dup
VMP-15-5-042011	VMP-15-21.5-042011
VMP-15-25.5-042011	VMP-15-25.5-042011-Dup
VMP-5-5-042111	VMP-5-12.5-042111
VMP-5-31-042111	VMP-5-40-042111
VMP-4-39-042111	VMP-23-5-042111
VMP-23-10-042111	VMP-23-25-042111
VMP-16-5-042111	VMP-16-13.5-042211

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 the COC had a sample collection data of 2/20/11 and the canister tag had a collection data of 4/20/11 for sample VMP-4-23.5-042011-Dup. The collection date of 4/20/11 was correct and the sample was logged in using date on the canister tag. Samples VMP-4-23.5-042011, VMP-4-23.5-042011-Dup, VMP-15-5-042011, VMP-15-21.5-042011, VMP-5-31-042111, VMP-5-40-042111, VMP-4-39-042111, VMP-16-5-042111 and VMP-16-13.5-042211 were diluted due to high levels of target analytes. Samples VMP-16-5-042111 and VMP-16-13.5-042211 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. TO-15 LCS and CCV recoveries were outside evaluation criteria. Although not indicated in the laboratory case narrative, analytes were detected in TO-15 and ASTM D-1946 method blanks. TO-15 analytes were qualified due to field duplicate RPD and a greater than two time the reporting limit difference between the parent and field duplicate results. 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 Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1104538A-17B	TO-15	1,2,4-Trichlorobenzene	3.3 ppbv / 24 µg/m^3
1104538A-17B	ASTM D-1946	Oxygen	0.010 %
1104538A-17B	ASTM D-1946	Nitrogen	0.060 %

Analytical data were reported non-detect or at concentrations greater than five times (5X) the associated blank concentration and did not require qualification.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS Recovery	LCS Criteria
104538A-19A/19AA	TO-15	1,3,5-Trimethylbenzene	**132/133**	70-130
104538A-19A/19AA	TO-15	alpha-Chlorotoluene	**144/149**	70-130
104538A-19A/19AA	TO-15	1,2,4-Trichlorobenzene	**144/152**	70-130
104538A-19A/19AA	TO-15	Hexachlorobutadiene	**146/151**	70-130
1104538A-19B/19BB	TO-15	alpha-Chlorotoluene	**132/132**	70-130
1104538A-19B/19BB	TO-15	1,2,4-Trichlorobenzene	**141/146**	70-130
1104538A-19B/19BB	TO-15	Hexachlorobutadiene	**138/142**	70-130

All associated data were reported as nondetect and associated with an LCS recoveries 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-4-23.5-042011	VMP-4-23.5-042011-Dup
VMP-15-25.5-042011	VMP-15-25.5-042011-Dup

Were field duplicates within evaluation criteria?

No

Field ID	Field Duplicate ID	Parameter	Analyte	RPD	Qualification
VMP-15-25.5-042011	VMP-15-25.5-042011-Dup	TO-15	Methylene chloride	**>2x RL**	**J/UJ**
VMP-15-25.5-042011	VMP-15-25.5-042011-Dup	TO-15	2,2,4-Trimethylpentane	**29**	**J/J**
VMP-15-25.5-042011	VMP-15-25.5-042011-Dup	TO-15	Isopentane	**>2x RL**	**J/J**
VMP-4-23.5-042011	VMP-4-23.5-042011-Dup	ASTM D-1946	Helium	**>2x RL**	**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 recoveries listed in the table below were above evaluation criteria.

CCV ID	Parameter	Analyte	CCV Recovery	CCV Criteria
1104538-A-18A	TO-15	alpha-Chlorotoluene	**134**	70-130
1104538-A-18A	TO-15	Hexachlorobutadiene	**135**	70-130

All associated data were reported as nondetect and associated with CCV recoveries above evaluation criteria, indicating a possible high bias, and did not require qualification.

Air Toxics LTD.
Laboratory Services Since 1989

5/9/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562593.00008
Workorder #: 1104538A

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/25/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-14A/15 (5&20 ppbv) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

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

Regards,

Kelly Buettner

Project Manager

Reviewed on 6/29/11

WORK ORDER #: 1104538A

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/25/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	05/09/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-4-23.5-042011 ✓	Modified TO-14A/15 (5&20]	3.5 "Hg	15 psi
02A	VMP-4-23.5-042011-Dup ✓	Modified TO-14A/15 (5&20]	3.5 "Hg	15 psi
03A	VMP-15-5-042011 ✓	Modified TO-14A/15 (5&20]	7.0 "Hg	15 psi
04A	VMP-15-21.5-042011 ✓	Modified TO-14A/15 (5&20]	8.5 "Hg	15 psi
05A	VMP-15-25.5-042011 ✓	Modified TO-14A/15 (5&20]	8.5 "Hg	15 psi
06A	VMP-15-25.5-042011-Dup ✓	Modified TO-14A/15 (5&20]	7.0 "Hg	15 psi
07A	VMP-5-5-042111 ✓	Modified TO-14A/15 (5&20]	7.0 "Hg	15 psi
08A	VMP-5-12.5-042111 ✓	Modified TO-14A/15 (5&20]	8.5 "Hg	15 psi
09A	VMP-5-31-042111 ✓	Modified TO-14A/15 (5&20]	7.0 "Hg	15 psi
10A	VMP-5-40-042111 ✓	Modified TO-14A/15 (5&20]	8.0 "Hg	15 psi
11A	VMP-4-39-042111 ✓	Modified TO-14A/15 (5&20]	6.0 "Hg	15 psi
12A	VMP-23-5-042111 ✓	Modified TO-14A/15 (5&20]	3.5 "Hg	15 psi
13A	VMP-23-10-042111 ✓	Modified TO-14A/15 (5&20]	8.0 "Hg	15 psi
14A	VMP-23-25-042111 ✓	Modified TO-14A/15 (5&20]	6.5 "Hg	15 psi
15A	VMP-16-5-042211 ✓	Modified TO-14A/15 (5&20]	7.0 "Hg	15 psi
15B	VMP-16-5-042211 ✓	Modified TO-14A/15 (5&20]	7.0 "Hg	15 psi
16A	VMP-16-13.5-042211 ✓	Modified TO-14A/15 (5&20]	8.5 "Hg	15.2 psi

Continued on next page

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1104538A

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/25/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	05/09/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
16B	VMP-16-13.5-042211	Modified TO-14A/15 (5&20]	8.5 "Hg	15.2 psi
17A	Lab Blank	Modified TO-14A/15 (5&20]	NA	NA
17B	Lab Blank	Modified TO-14A/15 (5&20]	NA	NA
18A	CCV	Modified TO-14A/15 (5&20]	NA	NA
18B	CCV	Modified TO-14A/15 (5&20]	NA	NA
19A	LCS	Modified TO-14A/15 (5&20]	NA	NA
19AA	LCSD	Modified TO-14A/15 (5&20]	NA	NA
19B	LCS	Modified TO-14A/15 (5&20]	NA	NA
19BB	LCSD	Modified TO-14A/15 (5&20]	NA	NA

CERTIFIED BY: Linda D. Truman DATE: 05/09/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1104538A

Sixteen 1 Liter Summa Canister samples were received on April 25, 2011. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

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

Receiving Notes

According to the Chain of Custody (COC), sample VMP-4-23.5-042011-Dup was collected on 2/20/11. However, the date on the sample tag reflects a collection date of 4/20/11. Therefore the date on the tag was used to calculate the sample holding time.

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.

Due to the linear calibration range of the instrument, the reporting limit for 2-Hexanone was raised from 20 ppbv to 50 ppbv and from 5 ppbv to 50 ppbv for 4-Methyl-2-pentanone and Styrene.

Dilution was performed on samples VMP-4-23.5-042011, VMP-4-23.5-042011-Dup, VMP-15-5-042011, VMP-15-21.5--042011, VMP-5-31-042111, VMP-5-40-042111, VMP-4-39-042111, VMP-16-5-042211, and VMP-16-13.5-042211 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 QC analyses have not been flagged.

Due to high-level target compounds, samples VMP-16-5-042211 and VMP-16-13.5-042211 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

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-4-23.5-042011

Lab ID#: 1104538A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	130000	34000 J	250000	65000 J
Hexane	34000	3800000	120000	13000000
Cyclohexane	34000	740000	120000	2600000
2,2,4-Trimethylpentane	34000	1100000	160000	5200000
Benzene	34000	140000	110000	440000
Heptane	34000	720000	140000	2900000
Toluene	34000	220000	130000	820000
Ethyl Benzene	34000	120000	150000	530000
m,p-Xylene	34000	210000	150000	900000
o-Xylene	34000	54000	150000	230000
4-Ethyltoluene	34000	14000 J	160000	69000 J
Butane	130000	30000000	320000	72000000
Isopentane	130000	28000000	400000	81000000

Client Sample ID: VMP-4-23.5-042011-Dup

Lab ID#: 1104538A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	130000	24000 J	320000	58000 J
Methylene Chloride	34000	15000 J	120000	53000 J
Hexane	34000	3700000	120000	13000000
Cyclohexane	34000	710000	120000	2400000
2,2,4-Trimethylpentane	34000	1000000	160000	4800000
Benzene	34000	130000	110000	410000
Heptane	34000	680000	140000	2800000
Toluene	34000	210000	130000	790000
Ethyl Benzene	34000	110000	150000	490000
m,p-Xylene	34000	190000	150000	830000
o-Xylene	34000	53000	150000	230000
4-Ethyltoluene	34000	14000 J	160000	69000 J
Butane	130000	29000000	320000	70000000

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

Client Sample ID: VMP-4-23.5-042011-Dup

Lab ID#: 1104538A-02A

Isopentane	130000	26000000	400000	78000000

Client Sample ID: VMP-15-5-042011

Lab ID#: 1104538A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	260	35 J	630	83 J
Cyclohexane	66	920	230	3200
2,2,4-Trimethylpentane	66	14000	310	65000
Benzene	66	450	210	1400
Butane	260	2600	630	6300
Isopentane	260	47000	780	140000

Client Sample ID: VMP-15-21.5-042011

Lab ID#: 1104538A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	180	1700	600	6000
2,2,4-Trimethylpentane	180	120000	820	580000
Benzene	180	460	560	1400
Butane	700	10000	1700	25000
Isopentane	700	64000	2100	190000

Client Sample ID: VMP-15-25.5-042011

Lab ID#: 1104538A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	14	13 J	50	46 J
Cyclohexane	14	18	48	62
2,2,4-Trimethylpentane	14	260 J	66	1200 J
Benzene	14	510	45	1600
Butane	56	25 J	130	60 J
Isopentane	56	140 J	170	420 J

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

Client Sample ID: VMP-15-25.5-042011-Dup

Lab ID#: 1104538A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	13	43 J	46	150 J
Hexane	13	9.8 J	46	35 J
Cyclohexane	13	30	45	100
2,2,4-Trimethylpentane	13	350 J	62	1600 J
Benzene	13	440	42	1400
Butane	53	110	120	270
Isopentane	53	860 J	160	2500 J

Client Sample ID: VMP-5-5-042111

Lab ID#: 1104538A-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	13	10 J	46	35 J
Cyclohexane	13	9.6 J	45	33 J
2,2,4-Trimethylpentane	13	21	62	97
Benzene	13	280	42	880
Tetrachloroethene	13	12 J	90	78 J
Butane	53	27 J	120	64 J
Isopentane	53	84	160	250

Client Sample ID: VMP-5-12.5-042111

Lab ID#: 1104538A-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	14	8.4 J	50	30 J
Cyclohexane	14	6.7 J	48	23 J
2,2,4-Trimethylpentane	14	17	66	81
Benzene	14	220	45	710
Butane	56	46 J	130	110 J
Isopentane	56	68	170	200

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

Client Sample ID: VMP-5-31-042111

Lab ID#: 1104538A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	21000	1700000	73000	6200000
Cyclohexane	21000	480000	71000	1600000
2,2,4-Trimethylpentane	21000	810000	96000	3800000
Benzene	21000	21000	66000	66000
Heptane	21000	220000	84000	900000
Butane	82000	14000000	200000	34000000
Isopentane	82000	15000000	240000	44000000

Client Sample ID: VMP-5-40-042111

Lab ID#: 1104538A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	22000	1400000	76000	4900000
Cyclohexane	22000	400000	74000	1400000
2,2,4-Trimethylpentane	22000	740000	100000	3500000
Benzene	22000	20000 J	69000	64000 J
Heptane	22000	180000	88000	730000
Butane	86000	11000000	200000	27000000
Isopentane	86000	12000000	250000	35000000

Client Sample ID: VMP-4-39-042111

Lab ID#: 1104538A-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	42000	3600000	150000	13000000
Cyclohexane	42000	680000	140000	2400000
2,2,4-Trimethylpentane	42000	930000	200000	4300000
Benzene	42000	150000	130000	470000
Heptane	42000	650000	170000	2700000
Toluene	42000	120000	160000	440000
Ethyl Benzene	42000	96000	180000	420000

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Laboratory Services Since 1989

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

Client Sample ID: VMP-4-39-042111

Lab ID#: 1104538A-11A

m,p-Xylene	42000	150000	180000	670000
o-Xylene	42000	39000 J	180000	170000 J
4-Ethyltoluene	42000	10000 J	210000	51000 J
Butane	170000	29000000	400000	69000000
Isopentane	170000	26000000	500000	77000000

Client Sample ID: VMP-23-5-042111

Lab ID#: 1104538A-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	46	10 J	110	24 J
2-Propanol	46	6.2 J	110	15 J
Hexane	11	3.8 J	40	13 J
2,2,4-Trimethylpentane	11	3.5 J	53	16 J
m,p-Xylene	11	5.2 J	50	22 J
Isopentane	46	15 J	140	44 J

Client Sample ID: VMP-23-10-042111

Lab ID#: 1104538A-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Propanol	55	5.0 J	140	12 J
Hexane	14	960	49	3400
Cyclohexane	14	270	48	940
2,2,4-Trimethylpentane	14	310	64	1400
Benzene	14	86	44	280
Heptane	14	370	56	1500
Toluene	14	68	52	250
Ethyl Benzene	14	38	60	160
m,p-Xylene	14	60	60	260
o-Xylene	14	14	60	59
4-Ethyltoluene	14	4.4 J	68	22 J
Butane	55	710	130	1700

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Laboratory Services Since 1989

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

Client Sample ID: VMP-23-10-042111

Lab ID#: 1104538A-13A

Isopentane	55	1200	160	3500

Client Sample ID: VMP-23-25-042111

Lab ID#: 1104538A-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	52	15 J	120	35 J
Hexane	13	1200	45	4200
Cyclohexane	13	360	44	1200
2,2,4-Trimethylpentane	13	620	60	2900
Benzene	13	490	41	1600
Heptane	13	170	53	680
Butane	52	3400	120	8200
Isopentane	52	5200	150	15000

Client Sample ID: VMP-16-5-042211

Lab ID#: 1104538A-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1900	580 J	6800	2100 J
Hexane	1900	1300 J	6600	4600 J
Cyclohexane	1900	31000	6500	110000
2,2,4-Trimethylpentane	1900	1700000	8800	7900000
Benzene	1900	2300	6000	7300
Butane	7500	120000	18000	280000
Isopentane	7500	1600000	22000	4800000

Client Sample ID: VMP-16-5-042211

Lab ID#: 1104538A-15B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	880	530 J	3200	1900 J
Hexane	880	1400	3100	4800

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-16-5-042211

Lab ID#: 1104538A-15B

Cyclohexane	880	30000	3000	100000
2,2,4-Trimethylpentane	880	1600000 E	4100	7200000 E
Benzene	880	2200	2800	7000
m,p-Xylene	880	240 J	3800	1000 J
Butane	3500	110000	8400	260000
Isopentane	3500	1500000 E	10000	4500000 E

Client Sample ID: VMP-16-13.5-042211

Lab ID#: 1104538A-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	2000	750 J	7300	2700 J
Hexane	2000	1200 J	7100	4400 J
Cyclohexane	2000	31000	7000	100000
2,2,4-Trimethylpentane	2000	1600000	9400	7600000
Benzene	2000	2600	6500	8300
Butane	8100	110000	19000	270000
Isopentane	8100	1600000	24000	4800000

Client Sample ID: VMP-16-13.5-042211

Lab ID#: 1104538A-16B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methyl tert-butyl ether	1400	740 J	5100	2600 J
Hexane	1400	1400	5000	5000
Cyclohexane	1400	36000	4900	120000
2,2,4-Trimethylpentane	1400	1800000 E	6600	8600000 E
Benzene	1400	2600	4500	8300
Butane	5700	130000	14000	320000
Isopentane	5700	1800000 E	17000	5400000 E

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-4-23.5-042011

Lab ID#: 1104538A-01A

EPA METHOD TO-15 GC/MS

File Name:	**b050347**	**Date of Collection:**	**4/20/11 10:42:00 AM**
Dil. Factor:	**6740**	**Date of Analysis:**	**5/4/11 10:11 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	34000	Not Detected	170000	Not Detected
Freon 114	34000	Not Detected	240000	Not Detected
Chloromethane	130000	Not Detected	280000	Not Detected
Vinyl Chloride	34000	Not Detected	86000	Not Detected
1,3-Butadiene	34000	Not Detected	74000	Not Detected
Bromomethane	34000	Not Detected	130000	Not Detected
Chloroethane	130000	Not Detected	360000	Not Detected
Freon 11	34000	Not Detected	190000	Not Detected
Ethanol	130000	34000 J	250000	65000 J
Freon 113	34000	Not Detected	260000	Not Detected
1,1-Dichloroethene	34000	Not Detected	130000	Not Detected
Acetone	130000	Not Detected	320000	Not Detected
2-Propanol	130000	Not Detected	330000	Not Detected
Carbon Disulfide	34000	Not Detected	100000	Not Detected
3-Chloropropene	130000	Not Detected	420000	Not Detected
Methylene Chloride	34000	Not Detected	120000	Not Detected
Methyl tert-butyl ether	34000	Not Detected	120000	Not Detected
trans-1,2-Dichloroethene	34000	Not Detected	130000	Not Detected
Hexane	34000	3800000	120000	13000000
1,1-Dichloroethane	34000	Not Detected	140000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	130000	Not Detected	400000	Not Detected
cis-1,2-Dichloroethene	34000	Not Detected	130000	Not Detected
Tetrahydrofuran	34000	Not Detected	99000	Not Detected
Chloroform	34000	Not Detected	160000	Not Detected
1,1,1-Trichloroethane	34000	Not Detected	180000	Not Detected
Cyclohexane	34000	740000	120000	2600000
Carbon Tetrachloride	34000	Not Detected	210000	Not Detected
2,2,4-Trimethylpentane	34000	1100000	160000	5200000
Benzene	34000	140000	110000	440000
1,2-Dichloroethane	34000	Not Detected	140000	Not Detected
Heptane	34000	720000	140000	2900000
Trichloroethene	34000	Not Detected	180000	Not Detected
1,2-Dichloropropane	34000	Not Detected	160000	Not Detected
1,4-Dioxane	130000	Not Detected	480000	Not Detected
Bromodichloromethane	34000	Not Detected	220000	Not Detected
cis-1,3-Dichloropropene	34000	Not Detected	150000	Not Detected
4-Methyl-2-pentanone	340000	Not Detected	1400000	Not Detected
Toluene	34000	220000	130000	820000
trans-1,3-Dichloropropene	34000	Not Detected	150000	Not Detected
1,1,2-Trichloroethane	34000	Not Detected	180000	Not Detected
Tetrachloroethene	34000	Not Detected	230000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-4-23.5-042011

Lab ID#: 1104538A-01A

EPA METHOD TO-15 GC/MS

File Name:	**b050347**	**Date of Collection:**	**4/20/11 10:42:00 AM**
Dil. Factor:	**6740**	**Date of Analysis:**	**5/4/11 10:11 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	340000	Not Detected	1400000	Not Detected
Dibromochloromethane	34000	Not Detected	290000	Not Detected
1,2-Dibromoethane (EDB)	34000	Not Detected	260000	Not Detected
Chlorobenzene	34000	Not Detected	160000	Not Detected
Ethyl Benzene	34000	120000	150000	530000
m,p-Xylene	34000	210000	150000	900000
o-Xylene	34000	54000	150000	230000
Styrene	340000	Not Detected	1400000	Not Detected
Bromoform	34000	Not Detected	350000	Not Detected
Cumene	34000	Not Detected	160000	Not Detected
1,1,2,2-Tetrachloroethane	34000	Not Detected	230000	Not Detected
Propylbenzene	34000	Not Detected	160000	Not Detected
4-Ethyltoluene	34000	14000 J	160000	69000 J
1,3,5-Trimethylbenzene	34000	Not Detected	160000	Not Detected
1,2,4-Trimethylbenzene	34000	Not Detected	160000	Not Detected
1,3-Dichlorobenzene	34000	Not Detected	200000	Not Detected
1,4-Dichlorobenzene	34000	Not Detected	200000	Not Detected
alpha-Chlorotoluene	34000	Not Detected	170000	Not Detected
1,2-Dichlorobenzene	34000	Not Detected	200000	Not Detected
1,2,4-Trichlorobenzene	130000	Not Detected	1000000	Not Detected
Hexachlorobutadiene	130000	Not Detected	1400000	Not Detected
Butane	130000	30000000	320000	72000000
Isopentane	130000	28000000	400000	81000000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-4-23.5-042011-Dup

Lab ID#: 1104538A-02A

EPA METHOD TO-15 GC/MS

File Name:	**b050348**	**Date of Collection:**	**4/20/11 10:42:00 AM**
Dil. Factor:	**6740**	**Date of Analysis:**	**5/4/11 10:31 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	34000	Not Detected	170000	Not Detected
Freon 114	34000	Not Detected	240000	Not Detected
Chloromethane	130000	Not Detected	280000	Not Detected
Vinyl Chloride	34000	Not Detected	86000	Not Detected
1,3-Butadiene	34000	Not Detected	74000	Not Detected
Bromomethane	34000	Not Detected	130000	Not Detected
Chloroethane	130000	Not Detected	360000	Not Detected
Freon 11	34000	Not Detected	190000	Not Detected
Ethanol	130000	Not Detected	250000	Not Detected
Freon 113	34000	Not Detected	260000	Not Detected
1,1-Dichloroethene	34000	Not Detected	130000	Not Detected
Acetone	130000	24000 J	320000	58000 J
2-Propanol	130000	Not Detected	330000	Not Detected
Carbon Disulfide	34000	Not Detected	100000	Not Detected
3-Chloropropene	130000	Not Detected	420000	Not Detected
Methylene Chloride	34000	15000 J	120000	53000 J
Methyl tert-butyl ether	34000	Not Detected	120000	Not Detected
trans-1,2-Dichloroethene	34000	Not Detected	130000	Not Detected
Hexane	34000	3700000	120000	13000000
1,1-Dichloroethane	34000	Not Detected	140000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	130000	Not Detected	400000	Not Detected
cis-1,2-Dichloroethene	34000	Not Detected	130000	Not Detected
Tetrahydrofuran	34000	Not Detected	99000	Not Detected
Chloroform	34000	Not Detected	160000	Not Detected
1,1,1-Trichloroethane	34000	Not Detected	180000	Not Detected
Cyclohexane	34000	710000	120000	2400000
Carbon Tetrachloride	34000	Not Detected	210000	Not Detected
2,2,4-Trimethylpentane	34000	1000000	160000	4800000
Benzene	34000	130000	110000	410000
1,2-Dichloroethane	34000	Not Detected	140000	Not Detected
Heptane	34000	680000	140000	2800000
Trichloroethene	34000	Not Detected	180000	Not Detected
1,2-Dichloropropane	34000	Not Detected	160000	Not Detected
1,4-Dioxane	130000	Not Detected	480000	Not Detected
Bromodichloromethane	34000	Not Detected	220000	Not Detected
cis-1,3-Dichloropropene	34000	Not Detected	150000	Not Detected
4-Methyl-2-pentanone	340000	Not Detected	1400000	Not Detected
Toluene	34000	210000	130000	790000
trans-1,3-Dichloropropene	34000	Not Detected	150000	Not Detected
1,1,2-Trichloroethane	34000	Not Detected	180000	Not Detected
Tetrachloroethene	34000	Not Detected	230000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-4-23.5-042011-Dup

Lab ID#: 1104538A-02A

EPA METHOD TO-15 GC/MS

File Name:	**b050348**	**Date of Collection:**	**4/20/11 10:42:00 AM**
Dil. Factor:	**6740**	**Date of Analysis:**	**5/4/11 10:31 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	340000	Not Detected	1400000	Not Detected
Dibromochloromethane	34000	Not Detected	290000	Not Detected
1,2-Dibromoethane (EDB)	34000	Not Detected	260000	Not Detected
Chlorobenzene	34000	Not Detected	160000	Not Detected
Ethyl Benzene	34000	110000	150000	490000
m,p-Xylene	34000	190000	150000	830000
o-Xylene	34000	53000	150000	230000
Styrene	340000	Not Detected	1400000	Not Detected
Bromoform	34000	Not Detected	350000	Not Detected
Cumene	34000	Not Detected	160000	Not Detected
1,1,2,2-Tetrachloroethane	34000	Not Detected	230000	Not Detected
Propylbenzene	34000	Not Detected	160000	Not Detected
4-Ethyltoluene	34000	14000 J	160000	69000 J
1,3,5-Trimethylbenzene	34000	Not Detected	160000	Not Detected
1,2,4-Trimethylbenzene	34000	Not Detected	160000	Not Detected
1,3-Dichlorobenzene	34000	Not Detected	200000	Not Detected
1,4-Dichlorobenzene	34000	Not Detected	200000	Not Detected
alpha-Chlorotoluene	34000	Not Detected	170000	Not Detected
1,2-Dichlorobenzene	34000	Not Detected	200000	Not Detected
1,2,4-Trichlorobenzene	130000	Not Detected	1000000	Not Detected
Hexachlorobutadiene	130000	Not Detected	1400000	Not Detected
Butane	130000	29000000	320000	70000000
Isopentane	130000	26000000	400000	78000000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-15-5-042011

Lab ID#: 1104538A-03A

EPA METHOD TO-15 GC/MS

File Name:	**b050262**	**Date of Collection:**	**4/20/11 1:10:00 PM**
Dil. Factor:	**13.2**	**Date of Analysis:**	**5/3/11 09:38 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	66	Not Detected	330	Not Detected
Freon 114	66	Not Detected	460	Not Detected
Chloromethane	260	Not Detected	540	Not Detected
Vinyl Chloride	66	Not Detected	170	Not Detected
1,3-Butadiene	66	Not Detected	150	Not Detected
Bromomethane	66	Not Detected	260	Not Detected
Chloroethane	260	Not Detected	700	Not Detected
Freon 11	66	Not Detected	370	Not Detected
Ethanol	260	Not Detected	500	Not Detected
Freon 113	66	Not Detected	500	Not Detected
1,1-Dichloroethene	66	Not Detected	260	Not Detected
Acetone	260	35 J	630	83 J
2-Propanol	260	Not Detected	650	Not Detected
Carbon Disulfide	66	Not Detected	200	Not Detected
3-Chloropropene	260	Not Detected	830	Not Detected
Methylene Chloride	66	Not Detected	230	Not Detected
Methyl tert-butyl ether	66	Not Detected	240	Not Detected
trans-1,2-Dichloroethene	66	Not Detected	260	Not Detected
Hexane	66	Not Detected	230	Not Detected
1,1-Dichloroethane	66	Not Detected	270	Not Detected
2-Butanone (Methyl Ethyl Ketone)	260	Not Detected	780	Not Detected
cis-1,2-Dichloroethene	66	Not Detected	260	Not Detected
Tetrahydrofuran	66	Not Detected	190	Not Detected
Chloroform	66	Not Detected	320	Not Detected
1,1,1-Trichloroethane	66	Not Detected	360	Not Detected
Cyclohexane	66	920	230	3200
Carbon Tetrachloride	66	Not Detected	420	Not Detected
2,2,4-Trimethylpentane	66	14000	310	65000
Benzene	66	450	210	1400
1,2-Dichloroethane	66	Not Detected	270	Not Detected
Heptane	66	Not Detected	270	Not Detected
Trichloroethene	66	Not Detected	350	Not Detected
1,2-Dichloropropane	66	Not Detected	300	Not Detected
1,4-Dioxane	260	Not Detected	950	Not Detected
Bromodichloromethane	66	Not Detected	440	Not Detected
cis-1,3-Dichloropropene	66	Not Detected	300	Not Detected
4-Methyl-2-pentanone	660	Not Detected	2700	Not Detected
Toluene	66	Not Detected	250	Not Detected
trans-1,3-Dichloropropene	66	Not Detected	300	Not Detected
1,1,2-Trichloroethane	66	Not Detected	360	Not Detected
Tetrachloroethene	66	Not Detected	450	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-15-5-042011

Lab ID#: 1104538A-03A

EPA METHOD TO-15 GC/MS

File Name:	**b050262**	**Date of Collection: 4/20/11 1:10:00 PM**	
Dil. Factor:	**13.2**	**Date of Analysis: 5/3/11 09:38 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	660	Not Detected	2700	Not Detected
Dibromochloromethane	66	Not Detected	560	Not Detected
1,2-Dibromoethane (EDB)	66	Not Detected	510	Not Detected
Chlorobenzene	66	Not Detected	300	Not Detected
Ethyl Benzene	66	Not Detected	290	Not Detected
m,p-Xylene	66	Not Detected	290	Not Detected
o-Xylene	66	Not Detected	290	Not Detected
Styrene	660	Not Detected	2800	Not Detected
Bromoform	66	Not Detected	680	Not Detected
Cumene	66	Not Detected	320	Not Detected
1,1,2,2-Tetrachloroethane	66	Not Detected	450	Not Detected
Propylbenzene	66	Not Detected	320	Not Detected
4-Ethyltoluene	66	Not Detected	320	Not Detected
1,3,5-Trimethylbenzene	66	Not Detected	320	Not Detected
1,2,4-Trimethylbenzene	66	Not Detected	320	Not Detected
1,3-Dichlorobenzene	66	Not Detected	400	Not Detected
1,4-Dichlorobenzene	66	Not Detected	400	Not Detected
alpha-Chlorotoluene	66	Not Detected	340	Not Detected
1,2-Dichlorobenzene	66	Not Detected	400	Not Detected
1,2,4-Trichlorobenzene	260	Not Detected	2000	Not Detected
Hexachlorobutadiene	260	Not Detected	2800	Not Detected
Butane	260	2600	630	6300
Isopentane	260	47000	780	140000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-15-21.5-042011

Lab ID#: 1104538A-04A

EPA METHOD TO-15 GC/MS

File Name:	**b050260**	**Date of Collection:**	**4/20/11 2:10:00 PM**
Dil. Factor:	**35.2**	**Date of Analysis:**	**5/3/11 08:50 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	180	Not Detected	870	Not Detected
Freon 114	180	Not Detected	1200	Not Detected
Chloromethane	700	Not Detected	1400	Not Detected
Vinyl Chloride	180	Not Detected	450	Not Detected
1,3-Butadiene	180	Not Detected	390	Not Detected
Bromomethane	180	Not Detected	680	Not Detected
Chloroethane	700	Not Detected	1800	Not Detected
Freon 11	180	Not Detected	990	Not Detected
Ethanol	700	Not Detected	1300	Not Detected
Freon 113	180	Not Detected	1300	Not Detected
1,1-Dichloroethene	180	Not Detected	700	Not Detected
Acetone	700	Not Detected	1700	Not Detected
2-Propanol	700	Not Detected	1700	Not Detected
Carbon Disulfide	180	Not Detected	550	Not Detected
3-Chloropropene	700	Not Detected	2200	Not Detected
Methylene Chloride	180	Not Detected	610	Not Detected
Methyl tert-butyl ether	180	Not Detected	630	Not Detected
trans-1,2-Dichloroethene	180	Not Detected	700	Not Detected
Hexane	180	Not Detected	620	Not Detected
1,1-Dichloroethane	180	Not Detected	710	Not Detected
2-Butanone (Methyl Ethyl Ketone)	700	Not Detected	2100	Not Detected
cis-1,2-Dichloroethene	180	Not Detected	700	Not Detected
Tetrahydrofuran	180	Not Detected	520	Not Detected
Chloroform	180	Not Detected	860	Not Detected
1,1,1-Trichloroethane	180	Not Detected	960	Not Detected
Cyclohexane	180	1700	600	6000
Carbon Tetrachloride	180	Not Detected	1100	Not Detected
2,2,4-Trimethylpentane	180	120000	820	580000
Benzene	180	460	560	1400
1,2-Dichloroethane	180	Not Detected	710	Not Detected
Heptane	180	Not Detected	720	Not Detected
Trichloroethene	180	Not Detected	940	Not Detected
1,2-Dichloropropane	180	Not Detected	810	Not Detected
1,4-Dioxane	700	Not Detected	2500	Not Detected
Bromodichloromethane	180	Not Detected	1200	Not Detected
cis-1,3-Dichloropropene	180	Not Detected	800	Not Detected
4-Methyl-2-pentanone	1800	Not Detected	7200	Not Detected
Toluene	180	Not Detected	660	Not Detected
trans-1,3-Dichloropropene	180	Not Detected	800	Not Detected
1,1,2-Trichloroethane	180	Not Detected	960	Not Detected
Tetrachloroethene	180	Not Detected	1200	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-15-21.5-042011

Lab ID#: 1104538A-04A

EPA METHOD TO-15 GC/MS

File Name:	**b050260**	**Date of Collection: 4/20/11 2:10:00 PM**	
Dil. Factor:	**35.2**	**Date of Analysis: 5/3/11 08:50 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	1800	Not Detected	7200	Not Detected
Dibromochloromethane	180	Not Detected	1500	Not Detected
1,2-Dibromoethane (EDB)	180	Not Detected	1400	Not Detected
Chlorobenzene	180	Not Detected	810	Not Detected
Ethyl Benzene	180	Not Detected	760	Not Detected
m,p-Xylene	180	Not Detected	760	Not Detected
o-Xylene	180	Not Detected	760	Not Detected
Styrene	1800	Not Detected	7500	Not Detected
Bromoform	180	Not Detected	1800	Not Detected
Cumene	180	Not Detected	860	Not Detected
1,1,2,2-Tetrachloroethane	180	Not Detected	1200	Not Detected
Propylbenzene	180	Not Detected	860	Not Detected
4-Ethyltoluene	180	Not Detected	860	Not Detected
1,3,5-Trimethylbenzene	180	Not Detected	860	Not Detected
1,2,4-Trimethylbenzene	180	Not Detected	860	Not Detected
1,3-Dichlorobenzene	180	Not Detected	1000	Not Detected
1,4-Dichlorobenzene	180	Not Detected	1000	Not Detected
alpha-Chlorotoluene	180	Not Detected	910	Not Detected
1,2-Dichlorobenzene	180	Not Detected	1000	Not Detected
1,2,4-Trichlorobenzene	700	Not Detected	5200	Not Detected
Hexachlorobutadiene	700	Not Detected	7500	Not Detected
Butane	700	10000	1700	25000
Isopentane	700	64000	2100	190000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-15-25.5-042011

Lab ID#: 1104538A-05A

EPA METHOD TO-15 GC/MS

File Name:	**b050257**	**Date of Collection:**	**4/20/11 3:15:00 PM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**5/3/11 07:32 AM**

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	Not Detected	110	Not Detected
Freon 113	14	Not Detected	110	Not Detected
1,1-Dichloroethene	14	Not Detected	56	Not Detected
Acetone	56	Not Detected	130	Not Detected
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 UJ	49	Not Detected UJ
Methyl tert-butyl ether	14	Not Detected	51	Not Detected
trans-1,2-Dichloroethene	14	Not Detected	56	Not Detected
Hexane	14	13 J	50	46 J
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	Not Detected	69	Not Detected
1,1,1-Trichloroethane	14	Not Detected	77	Not Detected
Cyclohexane	14	18	48	62
Carbon Tetrachloride	14	Not Detected	89	Not Detected
2,2,4-Trimethylpentane	14	260 J	66	1200 J
Benzene	14	510	45	1600
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	140	Not Detected	580	Not Detected
Toluene	14	Not Detected	53	Not Detected
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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-15-25.5-042011

Lab ID#: 1104538A-05A

EPA METHOD TO-15 GC/MS

File Name:	**b050257**	**Date of Collection:**	**4/20/11 3:15:00 PM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**5/3/11 07:32 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	140	Not Detected	580	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	Not Detected	61	Not Detected
o-Xylene	14	Not Detected	61	Not Detected
Styrene	140	Not Detected	600	Not Detected
Bromoform	14	Not Detected	140	Not Detected
Cumene	14	Not Detected	69	Not Detected
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	Not Detected	69	Not Detected
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	25 J	130	60 J
Isopentane	56	140 J	170	420 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-15-25.5-042011-Dup

Lab ID#: 1104538A-06A

EPA METHOD TO-15 GC/MS

File Name:	**b050256**	**Date of Collection:**	**4/20/11 3:15:00 PM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**5/3/11 07:08 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	13	Not Detected	65	Not Detected
Freon 114	13	Not Detected	92	Not Detected
Chloromethane	53	Not Detected	110	Not Detected
Vinyl Chloride	13	Not Detected	34	Not Detected
1,3-Butadiene	13	Not Detected	29	Not Detected
Bromomethane	13	Not Detected	51	Not Detected
Chloroethane	53	Not Detected	140	Not Detected
Freon 11	13	Not Detected	74	Not Detected
Ethanol	53	Not Detected	99	Not Detected
Freon 113	13	Not Detected	100	Not Detected
1,1-Dichloroethene	13	Not Detected	52	Not Detected
Acetone	53	Not Detected	120	Not Detected
2-Propanol	53	Not Detected	130	Not Detected
Carbon Disulfide	13	Not Detected	41	Not Detected
3-Chloropropene	53	Not Detected	160	Not Detected
Methylene Chloride	13	43 J	46	150 J
Methyl tert-butyl ether	13	Not Detected	48	Not Detected
trans-1,2-Dichloroethene	13	Not Detected	52	Not Detected
Hexane	13	9.8 J	46	35 J
1,1-Dichloroethane	13	Not Detected	53	Not Detected
2-Butanone (Methyl Ethyl Ketone)	53	Not Detected	160	Not Detected
cis-1,2-Dichloroethene	13	Not Detected	52	Not Detected
Tetrahydrofuran	13	Not Detected	39	Not Detected
Chloroform	13	Not Detected	64	Not Detected
1,1,1-Trichloroethane	13	Not Detected	72	Not Detected
Cyclohexane	13	30	45	100
Carbon Tetrachloride	13	Not Detected	83	Not Detected
2,2,4-Trimethylpentane	13	350 J	62	1600 J
Benzene	13	440	42	1400
1,2-Dichloroethane	13	Not Detected	53	Not Detected
Heptane	13	Not Detected	54	Not Detected
Trichloroethene	13	Not Detected	71	Not Detected
1,2-Dichloropropane	13	Not Detected	61	Not Detected
1,4-Dioxane	53	Not Detected	190	Not Detected
Bromodichloromethane	13	Not Detected	88	Not Detected
cis-1,3-Dichloropropene	13	Not Detected	60	Not Detected
4-Methyl-2-pentanone	130	Not Detected	540	Not Detected
Toluene	13	Not Detected	50	Not Detected
trans-1,3-Dichloropropene	13	Not Detected	60	Not Detected
1,1,2-Trichloroethane	13	Not Detected	72	Not Detected
Tetrachloroethene	13	Not Detected	90	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-15-25.5-042011-Dup

Lab ID#: 1104538A-06A

EPA METHOD TO-15 GC/MS

File Name:	**b050256**	**Date of Collection:**	**4/20/11 3:15:00 PM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**5/3/11 07:08 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	130	Not Detected	540	Not Detected
Dibromochloromethane	13	Not Detected	110	Not Detected
1,2-Dibromoethane (EDB)	13	Not Detected	100	Not Detected
Chlorobenzene	13	Not Detected	61	Not Detected
Ethyl Benzene	13	Not Detected	57	Not Detected
m,p-Xylene	13	Not Detected	57	Not Detected
o-Xylene	13	Not Detected	57	Not Detected
Styrene	130	Not Detected	560	Not Detected
Bromoform	13	Not Detected	140	Not Detected
Cumene	13	Not Detected	65	Not Detected
1,1,2,2-Tetrachloroethane	13	Not Detected	91	Not Detected
Propylbenzene	13	Not Detected	65	Not Detected
4-Ethyltoluene	13	Not Detected	65	Not Detected
1,3,5-Trimethylbenzene	13	Not Detected	65	Not Detected
1,2,4-Trimethylbenzene	13	Not Detected	65	Not Detected
1,3-Dichlorobenzene	13	Not Detected	79	Not Detected
1,4-Dichlorobenzene	13	Not Detected	79	Not Detected
alpha-Chlorotoluene	13	Not Detected	68	Not Detected
1,2-Dichlorobenzene	13	Not Detected	79	Not Detected
1,2,4-Trichlorobenzene	53	Not Detected	390	Not Detected
Hexachlorobutadiene	53	Not Detected	560	Not Detected
Butane	53	110	120	270
Isopentane	53	860 J	160	2500 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-5-5-042111

Lab ID#: 1104538A-07A

EPA METHOD TO-15 GC/MS

File Name:	**b050336**	**Date of Collection:**	**4/21/11 10:00:00 AM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**5/4/11 06:22 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	13	Not Detected	65	Not Detected
Freon 114	13	Not Detected	92	Not Detected
Chloromethane	53	Not Detected	110	Not Detected
Vinyl Chloride	13	Not Detected	34	Not Detected
1,3-Butadiene	13	Not Detected	29	Not Detected
Bromomethane	13	Not Detected	51	Not Detected
Chloroethane	53	Not Detected	140	Not Detected
Freon 11	13	Not Detected	74	Not Detected
Ethanol	53	Not Detected	99	Not Detected
Freon 113	13	Not Detected	100	Not Detected
1,1-Dichloroethene	13	Not Detected	52	Not Detected
Acetone	53	Not Detected	120	Not Detected
2-Propanol	53	Not Detected	130	Not Detected
Carbon Disulfide	13	Not Detected	41	Not Detected
3-Chloropropene	53	Not Detected	160	Not Detected
Methylene Chloride	13	Not Detected	46	Not Detected
Methyl tert-butyl ether	13	Not Detected	48	Not Detected
trans-1,2-Dichloroethene	13	Not Detected	52	Not Detected
Hexane	13	10 J	46	35 J
1,1-Dichloroethane	13	Not Detected	53	Not Detected
2-Butanone (Methyl Ethyl Ketone)	53	Not Detected	160	Not Detected
cis-1,2-Dichloroethene	13	Not Detected	52	Not Detected
Tetrahydrofuran	13	Not Detected	39	Not Detected
Chloroform	13	Not Detected	64	Not Detected
1,1,1-Trichloroethane	13	Not Detected	72	Not Detected
Cyclohexane	13	9.6 J	45	33 J
Carbon Tetrachloride	13	Not Detected	83	Not Detected
2,2,4-Trimethylpentane	13	21	62	97
Benzene	13	280	42	880
1,2-Dichloroethane	13	Not Detected	53	Not Detected
Heptane	13	Not Detected	54	Not Detected
Trichloroethene	13	Not Detected	71	Not Detected
1,2-Dichloropropane	13	Not Detected	61	Not Detected
1,4-Dioxane	53	Not Detected	190	Not Detected
Bromodichloromethane	13	Not Detected	88	Not Detected
cis-1,3-Dichloropropene	13	Not Detected	60	Not Detected
4-Methyl-2-pentanone	130	Not Detected	540	Not Detected
Toluene	13	Not Detected	50	Not Detected
trans-1,3-Dichloropropene	13	Not Detected	60	Not Detected
1,1,2-Trichloroethane	13	Not Detected	72	Not Detected
Tetrachloroethene	13	12 J	90	78 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-5-5-042111

Lab ID#: 1104538A-07A

EPA METHOD TO-15 GC/MS

File Name:	**b050336**	**Date of Collection:**	**4/21/11 10:00:00 AM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**5/4/11 06:22 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	130	Not Detected	540	Not Detected
Dibromochloromethane	13	Not Detected	110	Not Detected
1,2-Dibromoethane (EDB)	13	Not Detected	100	Not Detected
Chlorobenzene	13	Not Detected	61	Not Detected
Ethyl Benzene	13	Not Detected	57	Not Detected
m,p-Xylene	13	Not Detected	57	Not Detected
o-Xylene	13	Not Detected	57	Not Detected
Styrene	130	Not Detected	560	Not Detected
Bromoform	13	Not Detected	140	Not Detected
Cumene	13	Not Detected	65	Not Detected
1,1,2,2-Tetrachloroethane	13	Not Detected	91	Not Detected
Propylbenzene	13	Not Detected	65	Not Detected
4-Ethyltoluene	13	Not Detected	65	Not Detected
1,3,5-Trimethylbenzene	13	Not Detected	65	Not Detected
1,2,4-Trimethylbenzene	13	Not Detected	65	Not Detected
1,3-Dichlorobenzene	13	Not Detected	79	Not Detected
1,4-Dichlorobenzene	13	Not Detected	79	Not Detected
alpha-Chlorotoluene	13	Not Detected	68	Not Detected
1,2-Dichlorobenzene	13	Not Detected	79	Not Detected
1,2,4-Trichlorobenzene	53	Not Detected	390	Not Detected
Hexachlorobutadiene	53	Not Detected	560	Not Detected
Butane	53	27 J	120	64 J
Isopentane	53	84	160	250

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	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-5-12.5-042111

Lab ID#: 1104538A-08A

EPA METHOD TO-15 GC/MS

File Name:	**b050337**	**Date of Collection:**	**4/21/11 11:00:00 AM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**5/4/11 06:40 AM**

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	Not Detected	110	Not Detected
Freon 113	14	Not Detected	110	Not Detected
1,1-Dichloroethene	14	Not Detected	56	Not Detected
Acetone	56	Not Detected	130	Not Detected
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	8.4 J	50	30 J
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	Not Detected	69	Not Detected
1,1,1-Trichloroethane	14	Not Detected	77	Not Detected
Cyclohexane	14	6.7 J	48	23 J
Carbon Tetrachloride	14	Not Detected	89	Not Detected
2,2,4-Trimethylpentane	14	17	66	81
Benzene	14	220	45	710
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	140	Not Detected	580	Not Detected
Toluene	14	Not Detected	53	Not Detected
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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-5-12.5-042111

Lab ID#: 1104538A-08A

EPA METHOD TO-15 GC/MS

File Name:	**b050337**	**Date of Collection:**	**4/21/11 11:00:00 AM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**5/4/11 06:40 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	140	Not Detected	580	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	Not Detected	61	Not Detected
o-Xylene	14	Not Detected	61	Not Detected
Styrene	140	Not Detected	600	Not Detected
Bromoform	14	Not Detected	140	Not Detected
Cumene	14	Not Detected	69	Not Detected
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	Not Detected	69	Not Detected
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	46 J	130	110 J
Isopentane	56	68	170	200

J = Estimated value.

Container Type: 1 Liter Summa Canister

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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-5-31-042111

Lab ID#: 1104538A-09A

EPA METHOD TO-15 GC/MS

File Name:	**b050349**	**Date of Collection:**	**4/21/11 11:55:00 AM**
Dil. Factor:	**4120**	**Date of Analysis:**	**5/4/11 10:52 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	21000	Not Detected	100000	Not Detected
Freon 114	21000	Not Detected	140000	Not Detected
Chloromethane	82000	Not Detected	170000	Not Detected
Vinyl Chloride	21000	Not Detected	53000	Not Detected
1,3-Butadiene	21000	Not Detected	46000	Not Detected
Bromomethane	21000	Not Detected	80000	Not Detected
Chloroethane	82000	Not Detected	220000	Not Detected
Freon 11	21000	Not Detected	120000	Not Detected
Ethanol	82000	Not Detected	160000	Not Detected
Freon 113	21000	Not Detected	160000	Not Detected
1,1-Dichloroethene	21000	Not Detected	82000	Not Detected
Acetone	82000	Not Detected	200000	Not Detected
2-Propanol	82000	Not Detected	200000	Not Detected
Carbon Disulfide	21000	Not Detected	64000	Not Detected
3-Chloropropene	82000	Not Detected	260000	Not Detected
Methylene Chloride	21000	Not Detected	72000	Not Detected
Methyl tert-butyl ether	21000	Not Detected	74000	Not Detected
trans-1,2-Dichloroethene	21000	Not Detected	82000	Not Detected
Hexane	21000	1700000	73000	6200000
1,1-Dichloroethane	21000	Not Detected	83000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	82000	Not Detected	240000	Not Detected
cis-1,2-Dichloroethene	21000	Not Detected	82000	Not Detected
Tetrahydrofuran	21000	Not Detected	61000	Not Detected
Chloroform	21000	Not Detected	100000	Not Detected
1,1,1-Trichloroethane	21000	Not Detected	110000	Not Detected
Cyclohexane	21000	480000	71000	1600000
Carbon Tetrachloride	21000	Not Detected	130000	Not Detected
2,2,4-Trimethylpentane	21000	810000	96000	3800000
Benzene	21000	21000	66000	66000
1,2-Dichloroethane	21000	Not Detected	83000	Not Detected
Heptane	21000	220000	84000	900000
Trichloroethene	21000	Not Detected	110000	Not Detected
1,2-Dichloropropane	21000	Not Detected	95000	Not Detected
1,4-Dioxane	82000	Not Detected	300000	Not Detected
Bromodichloromethane	21000	Not Detected	140000	Not Detected
cis-1,3-Dichloropropene	21000	Not Detected	93000	Not Detected
4-Methyl-2-pentanone	210000	Not Detected	840000	Not Detected
Toluene	21000	Not Detected	78000	Not Detected
trans-1,3-Dichloropropene	21000	Not Detected	93000	Not Detected
1,1,2-Trichloroethane	21000	Not Detected	110000	Not Detected
Tetrachloroethene	21000	Not Detected	140000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-5-31-042111

Lab ID#: 1104538A-09A

EPA METHOD TO-15 GC/MS

File Name:	**b050349**	**Date of Collection:**	**4/21/11 11:55:00 AM**
Dil. Factor:	**4120**	**Date of Analysis:**	**5/4/11 10:52 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	210000	Not Detected	840000	Not Detected
Dibromochloromethane	21000	Not Detected	180000	Not Detected
1,2-Dibromoethane (EDB)	21000	Not Detected	160000	Not Detected
Chlorobenzene	21000	Not Detected	95000	Not Detected
Ethyl Benzene	21000	Not Detected	89000	Not Detected
m,p-Xylene	21000	Not Detected	89000	Not Detected
o-Xylene	21000	Not Detected	89000	Not Detected
Styrene	210000	Not Detected	880000	Not Detected
Bromoform	21000	Not Detected	210000	Not Detected
Cumene	21000	Not Detected	100000	Not Detected
1,1,2,2-Tetrachloroethane	21000	Not Detected	140000	Not Detected
Propylbenzene	21000	Not Detected	100000	Not Detected
4-Ethyltoluene	21000	Not Detected	100000	Not Detected
1,3,5-Trimethylbenzene	21000	Not Detected	100000	Not Detected
1,2,4-Trimethylbenzene	21000	Not Detected	100000	Not Detected
1,3-Dichlorobenzene	21000	Not Detected	120000	Not Detected
1,4-Dichlorobenzene	21000	Not Detected	120000	Not Detected
alpha-Chlorotoluene	21000	Not Detected	110000	Not Detected
1,2-Dichlorobenzene	21000	Not Detected	120000	Not Detected
1,2,4-Trichlorobenzene	82000	Not Detected	610000	Not Detected
Hexachlorobutadiene	82000	Not Detected	880000	Not Detected
Butane	82000	14000000	200000	34000000
Isopentane	82000	15000000	240000	44000000

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-5-40-042111

Lab ID#: 1104538A-10A

EPA METHOD TO-15 GC/MS

File Name:	**b050350**	**Date of Collection:**	**4/21/11 1:22:00 PM**
Dil. Factor:	**4310**	**Date of Analysis:**	**5/4/11 11:14 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	22000	Not Detected	110000	Not Detected
Freon 114	22000	Not Detected	150000	Not Detected
Chloromethane	86000	Not Detected	180000	Not Detected
Vinyl Chloride	22000	Not Detected	55000	Not Detected
1,3-Butadiene	22000	Not Detected	48000	Not Detected
Bromomethane	22000	Not Detected	84000	Not Detected
Chloroethane	86000	Not Detected	230000	Not Detected
Freon 11	22000	Not Detected	120000	Not Detected
Ethanol	86000	Not Detected	160000	Not Detected
Freon 113	22000	Not Detected	160000	Not Detected
1,1-Dichloroethene	22000	Not Detected	85000	Not Detected
Acetone	86000	Not Detected	200000	Not Detected
2-Propanol	86000	Not Detected	210000	Not Detected
Carbon Disulfide	22000	Not Detected	67000	Not Detected
3-Chloropropene	86000	Not Detected	270000	Not Detected
Methylene Chloride	22000	Not Detected	75000	Not Detected
Methyl tert-butyl ether	22000	Not Detected	78000	Not Detected
trans-1,2-Dichloroethene	22000	Not Detected	85000	Not Detected
Hexane	22000	1400000	76000	4900000
1,1-Dichloroethane	22000	Not Detected	87000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	86000	Not Detected	250000	Not Detected
cis-1,2-Dichloroethene	22000	Not Detected	85000	Not Detected
Tetrahydrofuran	22000	Not Detected	64000	Not Detected
Chloroform	22000	Not Detected	100000	Not Detected
1,1,1-Trichloroethane	22000	Not Detected	120000	Not Detected
Cyclohexane	22000	400000	74000	1400000
Carbon Tetrachloride	22000	Not Detected	140000	Not Detected
2,2,4-Trimethylpentane	22000	740000	100000	3500000
Benzene	22000	20000 J	69000	64000 J
1,2-Dichloroethane	22000	Not Detected	87000	Not Detected
Heptane	22000	180000	88000	730000
Trichloroethene	22000	Not Detected	120000	Not Detected
1,2-Dichloropropane	22000	Not Detected	100000	Not Detected
1,4-Dioxane	86000	Not Detected	310000	Not Detected
Bromodichloromethane	22000	Not Detected	140000	Not Detected
cis-1,3-Dichloropropene	22000	Not Detected	98000	Not Detected
4-Methyl-2-pentanone	220000	Not Detected	880000	Not Detected
Toluene	22000	Not Detected	81000	Not Detected
trans-1,3-Dichloropropene	22000	Not Detected	98000	Not Detected
1,1,2-Trichloroethane	22000	Not Detected	120000	Not Detected
Tetrachloroethene	22000	Not Detected	150000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-5-40-042111

Lab ID#: 1104538A-10A

EPA METHOD TO-15 GC/MS

File Name:	**b050350**	**Date of Collection:**	**4/21/11 1:22:00 PM**
Dil. Factor:	**4310**	**Date of Analysis:**	**5/4/11 11:14 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	220000	Not Detected	880000	Not Detected
Dibromochloromethane	22000	Not Detected	180000	Not Detected
1,2-Dibromoethane (EDB)	22000	Not Detected	160000	Not Detected
Chlorobenzene	22000	Not Detected	99000	Not Detected
Ethyl Benzene	22000	Not Detected	94000	Not Detected
m,p-Xylene	22000	Not Detected	94000	Not Detected
o-Xylene	22000	Not Detected	94000	Not Detected
Styrene	220000	Not Detected	920000	Not Detected
Bromoform	22000	Not Detected	220000	Not Detected
Cumene	22000	Not Detected	100000	Not Detected
1,1,2,2-Tetrachloroethane	22000	Not Detected	150000	Not Detected
Propylbenzene	22000	Not Detected	100000	Not Detected
4-Ethyltoluene	22000	Not Detected	100000	Not Detected
1,3,5-Trimethylbenzene	22000	Not Detected	100000	Not Detected
1,2,4-Trimethylbenzene	22000	Not Detected	100000	Not Detected
1,3-Dichlorobenzene	22000	Not Detected	130000	Not Detected
1,4-Dichlorobenzene	22000	Not Detected	130000	Not Detected
alpha-Chlorotoluene	22000	Not Detected	110000	Not Detected
1,2-Dichlorobenzene	22000	Not Detected	130000	Not Detected
1,2,4-Trichlorobenzene	86000	Not Detected	640000	Not Detected
Hexachlorobutadiene	86000	Not Detected	920000	Not Detected
Butane	86000	11000000	200000	27000000
Isopentane	86000	12000000	250000	35000000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-4-39-042111

Lab ID#: 1104538A-11A

EPA METHOD TO-15 GC/MS

File Name:	**b050351**	**Date of Collection:**	**4/21/11 10:08:00 AM**
Dil. Factor:	**8400**	**Date of Analysis:**	**5/4/11 11:33 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	42000	Not Detected	210000	Not Detected
Freon 114	42000	Not Detected	290000	Not Detected
Chloromethane	170000	Not Detected	350000	Not Detected
Vinyl Chloride	42000	Not Detected	110000	Not Detected
1,3-Butadiene	42000	Not Detected	93000	Not Detected
Bromomethane	42000	Not Detected	160000	Not Detected
Chloroethane	170000	Not Detected	440000	Not Detected
Freon 11	42000	Not Detected	240000	Not Detected
Ethanol	170000	Not Detected	320000	Not Detected
Freon 113	42000	Not Detected	320000	Not Detected
1,1-Dichloroethene	42000	Not Detected	170000	Not Detected
Acetone	170000	Not Detected	400000	Not Detected
2-Propanol	170000	Not Detected	410000	Not Detected
Carbon Disulfide	42000	Not Detected	130000	Not Detected
3-Chloropropene	170000	Not Detected	520000	Not Detected
Methylene Chloride	42000	Not Detected	140000	Not Detected
Methyl tert-butyl ether	42000	Not Detected	150000	Not Detected
trans-1,2-Dichloroethene	42000	Not Detected	170000	Not Detected
Hexane	42000	3600000	150000	13000000
1,1-Dichloroethane	42000	Not Detected	170000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	170000	Not Detected	500000	Not Detected
cis-1,2-Dichloroethene	42000	Not Detected	170000	Not Detected
Tetrahydrofuran	42000	Not Detected	120000	Not Detected
Chloroform	42000	Not Detected	200000	Not Detected
1,1,1-Trichloroethane	42000	Not Detected	230000	Not Detected
Cyclohexane	42000	680000	140000	2400000
Carbon Tetrachloride	42000	Not Detected	260000	Not Detected
2,2,4-Trimethylpentane	42000	930000	200000	4300000
Benzene	42000	150000	130000	470000
1,2-Dichloroethane	42000	Not Detected	170000	Not Detected
Heptane	42000	650000	170000	2700000
Trichloroethene	42000	Not Detected	220000	Not Detected
1,2-Dichloropropane	42000	Not Detected	190000	Not Detected
1,4-Dioxane	170000	Not Detected	600000	Not Detected
Bromodichloromethane	42000	Not Detected	280000	Not Detected
cis-1,3-Dichloropropene	42000	Not Detected	190000	Not Detected
4-Methyl-2-pentanone	420000	Not Detected	1700000	Not Detected
Toluene	42000	120000	160000	440000
trans-1,3-Dichloropropene	42000	Not Detected	190000	Not Detected
1,1,2-Trichloroethane	42000	Not Detected	230000	Not Detected
Tetrachloroethene	42000	Not Detected	280000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-4-39-042111

Lab ID#: 1104538A-11A

EPA METHOD TO-15 GC/MS

File Name:	**b050351**	**Date of Collection:**	**4/21/11 10:08:00 AM**
Dil. Factor:	**8400**	**Date of Analysis:**	**5/4/11 11:33 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	420000	Not Detected	1700000	Not Detected
Dibromochloromethane	42000	Not Detected	360000	Not Detected
1,2-Dibromoethane (EDB)	42000	Not Detected	320000	Not Detected
Chlorobenzene	42000	Not Detected	190000	Not Detected
Ethyl Benzene	42000	96000	180000	420000
m,p-Xylene	42000	150000	180000	670000
o-Xylene	42000	39000 J	180000	170000 J
Styrene	420000	Not Detected	1800000	Not Detected
Bromoform	42000	Not Detected	430000	Not Detected
Cumene	42000	Not Detected	210000	Not Detected
1,1,2,2-Tetrachloroethane	42000	Not Detected	290000	Not Detected
Propylbenzene	42000	Not Detected	210000	Not Detected
4-Ethyltoluene	42000	10000 J	210000	51000 J
1,3,5-Trimethylbenzene	42000	Not Detected	210000	Not Detected
1,2,4-Trimethylbenzene	42000	Not Detected	210000	Not Detected
1,3-Dichlorobenzene	42000	Not Detected	250000	Not Detected
1,4-Dichlorobenzene	42000	Not Detected	250000	Not Detected
alpha-Chlorotoluene	42000	Not Detected	220000	Not Detected
1,2-Dichlorobenzene	42000	Not Detected	250000	Not Detected
1,2,4-Trichlorobenzene	170000	Not Detected	1200000	Not Detected
Hexachlorobutadiene	170000	Not Detected	1800000	Not Detected
Butane	170000	29000000	400000	69000000
Isopentane	170000	26000000	500000	77000000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-23-5-042111

Lab ID#: 1104538A-12A

EPA METHOD TO-15 GC/MS

File Name:	**b050340**	**Date of Collection:**	**4/21/11 1:50:00 PM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**5/4/11 07:35 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	11	Not Detected	57	Not Detected
Freon 114	11	Not Detected	80	Not Detected
Chloromethane	46	Not Detected	94	Not Detected
Vinyl Chloride	11	Not Detected	29	Not Detected
1,3-Butadiene	11	Not Detected	25	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Chloroethane	46	Not Detected	120	Not Detected
Freon 11	11	Not Detected	64	Not Detected
Ethanol	46	Not Detected	86	Not Detected
Freon 113	11	Not Detected	88	Not Detected
1,1-Dichloroethene	11	Not Detected	45	Not Detected
Acetone	46	10 J	110	24 J
2-Propanol	46	6.2 J	110	15 J
Carbon Disulfide	11	Not Detected	36	Not Detected
3-Chloropropene	46	Not Detected	140	Not Detected
Methylene Chloride	11	Not Detected	40	Not Detected
Methyl tert-butyl ether	11	Not Detected	41	Not Detected
trans-1,2-Dichloroethene	11	Not Detected	45	Not Detected
Hexane	11	3.8 J	40	13 J
1,1-Dichloroethane	11	Not Detected	46	Not Detected
2-Butanone (Methyl Ethyl Ketone)	46	Not Detected	140	Not Detected
cis-1,2-Dichloroethene	11	Not Detected	45	Not Detected
Tetrahydrofuran	11	Not Detected	34	Not Detected
Chloroform	11	Not Detected	56	Not Detected
1,1,1-Trichloroethane	11	Not Detected	62	Not Detected
Cyclohexane	11	Not Detected	39	Not Detected
Carbon Tetrachloride	11	Not Detected	72	Not Detected
2,2,4-Trimethylpentane	11	3.5 J	53	16 J
Benzene	11	Not Detected	36	Not Detected
1,2-Dichloroethane	11	Not Detected	46	Not Detected
Heptane	11	Not Detected	47	Not Detected
Trichloroethene	11	Not Detected	62	Not Detected
1,2-Dichloropropane	11	Not Detected	53	Not Detected
1,4-Dioxane	46	Not Detected	160	Not Detected
Bromodichloromethane	11	Not Detected	77	Not Detected
cis-1,3-Dichloropropene	11	Not Detected	52	Not Detected
4-Methyl-2-pentanone	110	Not Detected	470	Not Detected
Toluene	11	Not Detected	43	Not Detected
trans-1,3-Dichloropropene	11	Not Detected	52	Not Detected
1,1,2-Trichloroethane	11	Not Detected	62	Not Detected
Tetrachloroethene	11	Not Detected	78	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-23-5-042111

Lab ID#: 1104538A-12A

EPA METHOD TO-15 GC/MS

File Name:	**b050340**	**Date of Collection:**	**4/21/11 1:50:00 PM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**5/4/11 07:35 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	110	Not Detected	470	Not Detected
Dibromochloromethane	11	Not Detected	98	Not Detected
1,2-Dibromoethane (EDB)	11	Not Detected	88	Not Detected
Chlorobenzene	11	Not Detected	53	Not Detected
Ethyl Benzene	11	Not Detected	50	Not Detected
m,p-Xylene	11	5.2 J	50	22 J
o-Xylene	11	Not Detected	50	Not Detected
Styrene	110	Not Detected	490	Not Detected
Bromoform	11	Not Detected	120	Not Detected
Cumene	11	Not Detected	56	Not Detected
1,1,2,2-Tetrachloroethane	11	Not Detected	79	Not Detected
Propylbenzene	11	Not Detected	56	Not Detected
4-Ethyltoluene	11	Not Detected	56	Not Detected
1,3,5-Trimethylbenzene	11	Not Detected	56	Not Detected
1,2,4-Trimethylbenzene	11	Not Detected	56	Not Detected
1,3-Dichlorobenzene	11	Not Detected	69	Not Detected
1,4-Dichlorobenzene	11	Not Detected	69	Not Detected
alpha-Chlorotoluene	11	Not Detected	59	Not Detected
1,2-Dichlorobenzene	11	Not Detected	69	Not Detected
1,2,4-Trichlorobenzene	46	Not Detected	340	Not Detected
Hexachlorobutadiene	46	Not Detected	490	Not Detected
Butane	46	Not Detected	110	Not Detected
Isopentane	46	15 J	140	44 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-23-10-042111

Lab ID#: 1104538A-13A

EPA METHOD TO-15 GC/MS

File Name:	**b050339**	**Date of Collection:**	**4/21/11 3:40:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**5/4/11 07:17 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	14	Not Detected	68	Not Detected
Freon 114	14	Not Detected	96	Not Detected
Chloromethane	55	Not Detected	110	Not Detected
Vinyl Chloride	14	Not Detected	35	Not Detected
1,3-Butadiene	14	Not Detected	30	Not Detected
Bromomethane	14	Not Detected	54	Not Detected
Chloroethane	55	Not Detected	140	Not Detected
Freon 11	14	Not Detected	78	Not Detected
Ethanol	55	Not Detected	100	Not Detected
Freon 113	14	Not Detected	100	Not Detected
1,1-Dichloroethene	14	Not Detected	55	Not Detected
Acetone	55	Not Detected	130	Not Detected
2-Propanol	55	5.0 J	140	12 J
Carbon Disulfide	14	Not Detected	43	Not Detected
3-Chloropropene	55	Not Detected	170	Not Detected
Methylene Chloride	14	Not Detected	48	Not Detected
Methyl tert-butyl ether	14	Not Detected	50	Not Detected
trans-1,2-Dichloroethene	14	Not Detected	55	Not Detected
Hexane	14	960	49	3400
1,1-Dichloroethane	14	Not Detected	56	Not Detected
2-Butanone (Methyl Ethyl Ketone)	55	Not Detected	160	Not Detected
cis-1,2-Dichloroethene	14	Not Detected	55	Not Detected
Tetrahydrofuran	14	Not Detected	41	Not Detected
Chloroform	14	Not Detected	67	Not Detected
1,1,1-Trichloroethane	14	Not Detected	75	Not Detected
Cyclohexane	14	270	48	940
Carbon Tetrachloride	14	Not Detected	87	Not Detected
2,2,4-Trimethylpentane	14	310	64	1400
Benzene	14	86	44	280
1,2-Dichloroethane	14	Not Detected	56	Not Detected
Heptane	14	370	56	1500
Trichloroethene	14	Not Detected	74	Not Detected
1,2-Dichloropropane	14	Not Detected	64	Not Detected
1,4-Dioxane	55	Not Detected	200	Not Detected
Bromodichloromethane	14	Not Detected	92	Not Detected
cis-1,3-Dichloropropene	14	Not Detected	63	Not Detected
4-Methyl-2-pentanone	140	Not Detected	560	Not Detected
Toluene	14	68	52	250
trans-1,3-Dichloropropene	14	Not Detected	63	Not Detected
1,1,2-Trichloroethane	14	Not Detected	75	Not Detected
Tetrachloroethene	14	Not Detected	94	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-23-10-042111

Lab ID#: 1104538A-13A

EPA METHOD TO-15 GC/MS

File Name:	**b050339**	**Date of Collection: 4/21/11 3:40:00 PM**	
Dil. Factor:	**2.76**	**Date of Analysis: 5/4/11 07:17 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	140	Not Detected	560	Not Detected
Dibromochloromethane	14	Not Detected	120	Not Detected
1,2-Dibromoethane (EDB)	14	Not Detected	110	Not Detected
Chlorobenzene	14	Not Detected	64	Not Detected
Ethyl Benzene	14	38	60	160
m,p-Xylene	14	60	60	260
o-Xylene	14	14	60	59
Styrene	140	Not Detected	590	Not Detected
Bromoform	14	Not Detected	140	Not Detected
Cumene	14	Not Detected	68	Not Detected
1,1,2,2-Tetrachloroethane	14	Not Detected	95	Not Detected
Propylbenzene	14	Not Detected	68	Not Detected
4-Ethyltoluene	14	4.4 J	68	22 J
1,3,5-Trimethylbenzene	14	Not Detected	68	Not Detected
1,2,4-Trimethylbenzene	14	Not Detected	68	Not Detected
1,3-Dichlorobenzene	14	Not Detected	83	Not Detected
1,4-Dichlorobenzene	14	Not Detected	83	Not Detected
alpha-Chlorotoluene	14	Not Detected	71	Not Detected
1,2-Dichlorobenzene	14	Not Detected	83	Not Detected
1,2,4-Trichlorobenzene	55	Not Detected	410	Not Detected
Hexachlorobutadiene	55	Not Detected	590	Not Detected
Butane	55	710	130	1700
Isopentane	55	1200	160	3500

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	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-23-25-042111

Lab ID#: 1104538A-14A

EPA METHOD TO-15 GC/MS

File Name:	**b050338**	**Date of Collection:**	**4/21/11 4:39:00 PM**
Dil. Factor:	**2.58**	**Date of Analysis:**	**5/4/11 06:59 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	13	Not Detected	64	Not Detected
Freon 114	13	Not Detected	90	Not Detected
Chloromethane	52	Not Detected	110	Not Detected
Vinyl Chloride	13	Not Detected	33	Not Detected
1,3-Butadiene	13	Not Detected	28	Not Detected
Bromomethane	13	Not Detected	50	Not Detected
Chloroethane	52	Not Detected	140	Not Detected
Freon 11	13	Not Detected	72	Not Detected
Ethanol	52	Not Detected	97	Not Detected
Freon 113	13	Not Detected	99	Not Detected
1,1-Dichloroethene	13	Not Detected	51	Not Detected
Acetone	52	15 J	120	35 J
2-Propanol	52	Not Detected	130	Not Detected
Carbon Disulfide	13	Not Detected	40	Not Detected
3-Chloropropene	52	Not Detected	160	Not Detected
Methylene Chloride	13	Not Detected	45	Not Detected
Methyl tert-butyl ether	13	Not Detected	46	Not Detected
trans-1,2-Dichloroethene	13	Not Detected	51	Not Detected
Hexane	13	1200	45	4200
1,1-Dichloroethane	13	Not Detected	52	Not Detected
2-Butanone (Methyl Ethyl Ketone)	52	Not Detected	150	Not Detected
cis-1,2-Dichloroethene	13	Not Detected	51	Not Detected
Tetrahydrofuran	13	Not Detected	38	Not Detected
Chloroform	13	Not Detected	63	Not Detected
1,1,1-Trichloroethane	13	Not Detected	70	Not Detected
Cyclohexane	13	360	44	1200
Carbon Tetrachloride	13	Not Detected	81	Not Detected
2,2,4-Trimethylpentane	13	620	60	2900
Benzene	13	490	41	1600
1,2-Dichloroethane	13	Not Detected	52	Not Detected
Heptane	13	170	53	680
Trichloroethene	13	Not Detected	69	Not Detected
1,2-Dichloropropane	13	Not Detected	60	Not Detected
1,4-Dioxane	52	Not Detected	180	Not Detected
Bromodichloromethane	13	Not Detected	86	Not Detected
cis-1,3-Dichloropropene	13	Not Detected	58	Not Detected
4-Methyl-2-pentanone	130	Not Detected	530	Not Detected
Toluene	13	Not Detected	49	Not Detected
trans-1,3-Dichloropropene	13	Not Detected	58	Not Detected
1,1,2-Trichloroethane	13	Not Detected	70	Not Detected
Tetrachloroethene	13	Not Detected	88	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-23-25-042111

Lab ID#: 1104538A-14A

EPA METHOD TO-15 GC/MS

File Name:	**b050338**	**Date of Collection:**	**4/21/11 4:39:00 PM**
Dil. Factor:	**2.58**	**Date of Analysis:**	**5/4/11 06:59 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	130	Not Detected	530	Not Detected
Dibromochloromethane	13	Not Detected	110	Not Detected
1,2-Dibromoethane (EDB)	13	Not Detected	99	Not Detected
Chlorobenzene	13	Not Detected	59	Not Detected
Ethyl Benzene	13	Not Detected	56	Not Detected
m,p-Xylene	13	Not Detected	56	Not Detected
o-Xylene	13	Not Detected	56	Not Detected
Styrene	130	Not Detected	550	Not Detected
Bromoform	13	Not Detected	130	Not Detected
Cumene	13	Not Detected	63	Not Detected
1,1,2,2-Tetrachloroethane	13	Not Detected	88	Not Detected
Propylbenzene	13	Not Detected	63	Not Detected
4-Ethyltoluene	13	Not Detected	63	Not Detected
1,3,5-Trimethylbenzene	13	Not Detected	63	Not Detected
1,2,4-Trimethylbenzene	13	Not Detected	63	Not Detected
1,3-Dichlorobenzene	13	Not Detected	78	Not Detected
1,4-Dichlorobenzene	13	Not Detected	78	Not Detected
alpha-Chlorotoluene	13	Not Detected	67	Not Detected
1,2-Dichlorobenzene	13	Not Detected	78	Not Detected
1,2,4-Trichlorobenzene	52	Not Detected	380	Not Detected
Hexachlorobutadiene	52	Not Detected	550	Not Detected
Butane	52	3400	120	8200
Isopentane	52	5200	150	15000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-16-5-042211

Lab ID#: 1104538A-15A

EPA METHOD TO-15 GC/MS

File Name:	**b050343**	**Date of Collection:**	**4/22/11 10:05:00 AM**
Dil. Factor:	**377**	**Date of Analysis:**	**5/4/11 08:47 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1900	Not Detected	9300	Not Detected
Freon 114	1900	Not Detected	13000	Not Detected
Chloromethane	7500	Not Detected	16000	Not Detected
Vinyl Chloride	1900	Not Detected	4800	Not Detected
1,3-Butadiene	1900	Not Detected	4200	Not Detected
Bromomethane	1900	Not Detected	7300	Not Detected
Chloroethane	7500	Not Detected	20000	Not Detected
Freon 11	1900	Not Detected	10000	Not Detected
Ethanol	7500	Not Detected	14000	Not Detected
Freon 113	1900	Not Detected	14000	Not Detected
1,1-Dichloroethene	1900	Not Detected	7500	Not Detected
Acetone	7500	Not Detected	18000	Not Detected
2-Propanol	7500	Not Detected	18000	Not Detected
Carbon Disulfide	1900	Not Detected	5900	Not Detected
3-Chloropropene	7500	Not Detected	24000	Not Detected
Methylene Chloride	1900	Not Detected	6500	Not Detected
Methyl tert-butyl ether	1900	580 J	6800	2100 J
trans-1,2-Dichloroethene	1900	Not Detected	7500	Not Detected
Hexane	1900	1300 J	6600	4600 J
1,1-Dichloroethane	1900	Not Detected	7600	Not Detected
2-Butanone (Methyl Ethyl Ketone)	7500	Not Detected	22000	Not Detected
cis-1,2-Dichloroethene	1900	Not Detected	7500	Not Detected
Tetrahydrofuran	1900	Not Detected	5600	Not Detected
Chloroform	1900	Not Detected	9200	Not Detected
1,1,1-Trichloroethane	1900	Not Detected	10000	Not Detected
Cyclohexane	1900	31000	6500	110000
Carbon Tetrachloride	1900	Not Detected	12000	Not Detected
2,2,4-Trimethylpentane	1900	1700000	8800	7900000
Benzene	1900	2300	6000	7300
1,2-Dichloroethane	1900	Not Detected	7600	Not Detected
Heptane	1900	Not Detected	7700	Not Detected
Trichloroethene	1900	Not Detected	10000	Not Detected
1,2-Dichloropropane	1900	Not Detected	8700	Not Detected
1,4-Dioxane	7500	Not Detected	27000	Not Detected
Bromodichloromethane	1900	Not Detected	13000	Not Detected
cis-1,3-Dichloropropene	1900	Not Detected	8600	Not Detected
4-Methyl-2-pentanone	19000	Not Detected	77000	Not Detected
Toluene	1900	Not Detected	7100	Not Detected
trans-1,3-Dichloropropene	1900	Not Detected	8600	Not Detected
1,1,2-Trichloroethane	1900	Not Detected	10000	Not Detected
Tetrachloroethene	1900	Not Detected	13000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-16-5-042211

Lab ID#: 1104538A-15A

EPA METHOD TO-15 GC/MS

File Name:	**b050343**	**Date of Collection:**	**4/22/11 10:05:00 AM**
Dil. Factor:	**377**	**Date of Analysis:**	**5/4/11 08:47 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	19000	Not Detected	77000	Not Detected
Dibromochloromethane	1900	Not Detected	16000	Not Detected
1,2-Dibromoethane (EDB)	1900	Not Detected	14000	Not Detected
Chlorobenzene	1900	Not Detected	8700	Not Detected
Ethyl Benzene	1900	Not Detected	8200	Not Detected
m,p-Xylene	1900	Not Detected	8200	Not Detected
o-Xylene	1900	Not Detected	8200	Not Detected
Styrene	19000	Not Detected	80000	Not Detected
Bromoform	1900	Not Detected	19000	Not Detected
Cumene	1900	Not Detected	9300	Not Detected
1,1,2,2-Tetrachloroethane	1900	Not Detected	13000	Not Detected
Propylbenzene	1900	Not Detected	9300	Not Detected
4-Ethyltoluene	1900	Not Detected	9300	Not Detected
1,3,5-Trimethylbenzene	1900	Not Detected	9300	Not Detected
1,2,4-Trimethylbenzene	1900	Not Detected	9300	Not Detected
1,3-Dichlorobenzene	1900	Not Detected	11000	Not Detected
1,4-Dichlorobenzene	1900	Not Detected	11000	Not Detected
alpha-Chlorotoluene	1900	Not Detected	9800	Not Detected
1,2-Dichlorobenzene	1900	Not Detected	11000	Not Detected
1,2,4-Trichlorobenzene	7500	Not Detected	56000	Not Detected
Hexachlorobutadiene	7500	Not Detected	80000	Not Detected
Butane	7500	120000	18000	280000
Isopentane	7500	1600000	22000	4800000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-16-5-042211

Lab ID#: 1104538A-15B

EPA METHOD TO-15 GC/MS

File Name:	**b050341**	**Date of Collection:**	**4/22/11 10:05:00 AM**
Dil. Factor:	**176**	**Date of Analysis:**	**5/4/11 07:56 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	880	Not Detected	4400	Not Detected
Freon 114	880	Not Detected	6200	Not Detected
Chloromethane	3500	Not Detected	7300	Not Detected
Vinyl Chloride	880	Not Detected	2200	Not Detected
1,3-Butadiene	880	Not Detected	1900	Not Detected
Bromomethane	880	Not Detected	3400	Not Detected
Chloroethane	3500	Not Detected	9300	Not Detected
Freon 11	880	Not Detected	4900	Not Detected
Ethanol	3500	Not Detected	6600	Not Detected
Freon 113	880	Not Detected	6700	Not Detected
1,1-Dichloroethene	880	Not Detected	3500	Not Detected
Acetone	3500	Not Detected	8400	Not Detected
2-Propanol	3500	Not Detected	8600	Not Detected
Carbon Disulfide	880	Not Detected	2700	Not Detected
3-Chloropropene	3500	Not Detected	11000	Not Detected
Methylene Chloride	880	Not Detected	3000	Not Detected
Methyl tert-butyl ether	880	530 J	3200	1900 J
trans-1,2-Dichloroethene	880	Not Detected	3500	Not Detected
Hexane	880	1400	3100	4800
1,1-Dichloroethane	880	Not Detected	3600	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3500	Not Detected	10000	Not Detected
cis-1,2-Dichloroethene	880	Not Detected	3500	Not Detected
Tetrahydrofuran	880	Not Detected	2600	Not Detected
Chloroform	880	Not Detected	4300	Not Detected
1,1,1-Trichloroethane	880	Not Detected	4800	Not Detected
Cyclohexane	880	30000	3000	100000
Carbon Tetrachloride	880	Not Detected	5500	Not Detected
2,2,4-Trimethylpentane	880	1600000 E	4100	7200000 E
Benzene	880	2200	2800	7000
1,2-Dichloroethane	880	Not Detected	3600	Not Detected
Heptane	880	Not Detected	3600	Not Detected
Trichloroethene	880	Not Detected	4700	Not Detected
1,2-Dichloropropane	880	Not Detected	4100	Not Detected
1,4-Dioxane	3500	Not Detected	13000	Not Detected
Bromodichloromethane	880	Not Detected	5900	Not Detected
cis-1,3-Dichloropropene	880	Not Detected	4000	Not Detected
4-Methyl-2-pentanone	8800	Not Detected	36000	Not Detected
Toluene	880	Not Detected	3300	Not Detected
trans-1,3-Dichloropropene	880	Not Detected	4000	Not Detected
1,1,2-Trichloroethane	880	Not Detected	4800	Not Detected
Tetrachloroethene	880	Not Detected	6000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-16-5-042211

Lab ID#: 1104538A-15B

EPA METHOD TO-15 GC/MS

File Name:	**b050341**	**Date of Collection: 4/22/11 10:05:00 AM**	
Dil. Factor:	**176**	**Date of Analysis: 5/4/11 07:56 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	8800	Not Detected	36000	Not Detected
Dibromochloromethane	880	Not Detected	7500	Not Detected
1,2-Dibromoethane (EDB)	880	Not Detected	6800	Not Detected
Chlorobenzene	880	Not Detected	4000	Not Detected
Ethyl Benzene	880	Not Detected	3800	Not Detected
m,p-Xylene	880	240 J	3800	1000 J
o-Xylene	880	Not Detected	3800	Not Detected
Styrene	8800	Not Detected	37000	Not Detected
Bromoform	880	Not Detected	9100	Not Detected
Cumene	880	Not Detected	4300	Not Detected
1,1,2,2-Tetrachloroethane	880	Not Detected	6000	Not Detected
Propylbenzene	880	Not Detected	4300	Not Detected
4-Ethyltoluene	880	Not Detected	4300	Not Detected
1,3,5-Trimethylbenzene	880	Not Detected	4300	Not Detected
1,2,4-Trimethylbenzene	880	Not Detected	4300	Not Detected
1,3-Dichlorobenzene	880	Not Detected	5300	Not Detected
1,4-Dichlorobenzene	880	Not Detected	5300	Not Detected
alpha-Chlorotoluene	880	Not Detected	4600	Not Detected
1,2-Dichlorobenzene	880	Not Detected	5300	Not Detected
1,2,4-Trichlorobenzene	3500	Not Detected	26000	Not Detected
Hexachlorobutadiene	3500	Not Detected	38000	Not Detected
Butane	3500	110000	8400	260000
Isopentane	3500	1500000 E	10000	4500000 E

J = Estimated value.
E = Exceeds instrument calibration range.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	122	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-16-13.5-042211

Lab ID#: 1104538A-16A

EPA METHOD TO-15 GC/MS

File Name:	**b050344**	**Date of Collection:**	**4/22/11 11:05:00 AM**
Dil. Factor:	**405**	**Date of Analysis:**	**5/4/11 09:08 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2000	Not Detected	10000	Not Detected
Freon 114	2000	Not Detected	14000	Not Detected
Chloromethane	8100	Not Detected	17000	Not Detected
Vinyl Chloride	2000	Not Detected	5200	Not Detected
1,3-Butadiene	2000	Not Detected	4500	Not Detected
Bromomethane	2000	Not Detected	7900	Not Detected
Chloroethane	8100	Not Detected	21000	Not Detected
Freon 11	2000	Not Detected	11000	Not Detected
Ethanol	8100	Not Detected	15000	Not Detected
Freon 113	2000	Not Detected	16000	Not Detected
1,1-Dichloroethene	2000	Not Detected	8000	Not Detected
Acetone	8100	Not Detected	19000	Not Detected
2-Propanol	8100	Not Detected	20000	Not Detected
Carbon Disulfide	2000	Not Detected	6300	Not Detected
3-Chloropropene	8100	Not Detected	25000	Not Detected
Methylene Chloride	2000	Not Detected	7000	Not Detected
Methyl tert-butyl ether	2000	750 J	7300	2700 J
trans-1,2-Dichloroethene	2000	Not Detected	8000	Not Detected
Hexane	2000	1200 J	7100	4400 J
1,1-Dichloroethane	2000	Not Detected	8200	Not Detected
2-Butanone (Methyl Ethyl Ketone)	8100	Not Detected	24000	Not Detected
cis-1,2-Dichloroethene	2000	Not Detected	8000	Not Detected
Tetrahydrofuran	2000	Not Detected	6000	Not Detected
Chloroform	2000	Not Detected	9900	Not Detected
1,1,1-Trichloroethane	2000	Not Detected	11000	Not Detected
Cyclohexane	2000	31000	7000	100000
Carbon Tetrachloride	2000	Not Detected	13000	Not Detected
2,2,4-Trimethylpentane	2000	1600000	9400	7600000
Benzene	2000	2600	6500	8300
1,2-Dichloroethane	2000	Not Detected	8200	Not Detected
Heptane	2000	Not Detected	8300	Not Detected
Trichloroethene	2000	Not Detected	11000	Not Detected
1,2-Dichloropropane	2000	Not Detected	9400	Not Detected
1,4-Dioxane	8100	Not Detected	29000	Not Detected
Bromodichloromethane	2000	Not Detected	14000	Not Detected
cis-1,3-Dichloropropene	2000	Not Detected	9200	Not Detected
4-Methyl-2-pentanone	20000	Not Detected	83000	Not Detected
Toluene	2000	Not Detected	7600	Not Detected
trans-1,3-Dichloropropene	2000	Not Detected	9200	Not Detected
1,1,2-Trichloroethane	2000	Not Detected	11000	Not Detected
Tetrachloroethene	2000	Not Detected	14000	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-16-13.5-042211

Lab ID#: 1104538A-16A

EPA METHOD TO-15 GC/MS

File Name:	**b050344**	**Date of Collection:**	**4/22/11 11:05:00 AM**
Dil. Factor:	**405**	**Date of Analysis:**	**5/4/11 09:08 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	20000	Not Detected	83000	Not Detected
Dibromochloromethane	2000	Not Detected	17000	Not Detected
1,2-Dibromoethane (EDB)	2000	Not Detected	16000	Not Detected
Chlorobenzene	2000	Not Detected	9300	Not Detected
Ethyl Benzene	2000	Not Detected	8800	Not Detected
m,p-Xylene	2000	Not Detected	8800	Not Detected
o-Xylene	2000	Not Detected	8800	Not Detected
Styrene	20000	Not Detected	86000	Not Detected
Bromoform	2000	Not Detected	21000	Not Detected
Cumene	2000	Not Detected	10000	Not Detected
1,1,2,2-Tetrachloroethane	2000	Not Detected	14000	Not Detected
Propylbenzene	2000	Not Detected	10000	Not Detected
4-Ethyltoluene	2000	Not Detected	10000	Not Detected
1,3,5-Trimethylbenzene	2000	Not Detected	10000	Not Detected
1,2,4-Trimethylbenzene	2000	Not Detected	10000	Not Detected
1,3-Dichlorobenzene	2000	Not Detected	12000	Not Detected
1,4-Dichlorobenzene	2000	Not Detected	12000	Not Detected
alpha-Chlorotoluene	2000	Not Detected	10000	Not Detected
1,2-Dichlorobenzene	2000	Not Detected	12000	Not Detected
1,2,4-Trichlorobenzene	8100	Not Detected	60000	Not Detected
Hexachlorobutadiene	8100	Not Detected	86000	Not Detected
Butane	8100	110000	19000	270000
Isopentane	8100	1600000	24000	4800000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-16-13.5-042211

Lab ID#: 1104538A-16B

EPA METHOD TO-15 GC/MS

File Name:	**b050342**	**Date of Collection:**	**4/22/11 11:05:00 AM**
Dil. Factor:	**284**	**Date of Analysis:**	**5/4/11 08:21 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	9900	Not Detected
Chloromethane	5700	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	5700	Not Detected	15000	Not Detected
Freon 11	1400	Not Detected	8000	Not Detected
Ethanol	5700	Not Detected	11000	Not Detected
Freon 113	1400	Not Detected	11000	Not Detected
1,1-Dichloroethene	1400	Not Detected	5600	Not Detected
Acetone	5700	Not Detected	13000	Not Detected
2-Propanol	5700	Not Detected	14000	Not Detected
Carbon Disulfide	1400	Not Detected	4400	Not Detected
3-Chloropropene	5700	Not Detected	18000	Not Detected
Methylene Chloride	1400	Not Detected	4900	Not Detected
Methyl tert-butyl ether	1400	740 J	5100	2600 J
trans-1,2-Dichloroethene	1400	Not Detected	5600	Not Detected
Hexane	1400	1400	5000	5000
1,1-Dichloroethane	1400	Not Detected	5700	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5700	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	36000	4900	120000
Carbon Tetrachloride	1400	Not Detected	8900	Not Detected
2,2,4-Trimethylpentane	1400	1800000 E	6600	8600000 E
Benzene	1400	2600	4500	8300
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	6600	Not Detected
1,4-Dioxane	5700	Not Detected	20000	Not Detected
Bromodichloromethane	1400	Not Detected	9500	Not Detected
cis-1,3-Dichloropropene	1400	Not Detected	6400	Not Detected
4-Methyl-2-pentanone	14000	Not Detected	58000	Not Detected
Toluene	1400	Not Detected	5400	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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-16-13.5-042211

Lab ID#: 1104538A-16B

EPA METHOD TO-15 GC/MS

File Name:	**b050342**	**Date of Collection:**	**4/22/11 11:05:00 AM**
Dil. Factor:	**284**	**Date of Analysis:**	**5/4/11 08:21 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	14000	Not Detected	58000	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	6200	Not Detected
m,p-Xylene	1400	Not Detected	6200	Not Detected
o-Xylene	1400	Not Detected	6200	Not Detected
Styrene	14000	Not Detected	60000	Not Detected
Bromoform	1400	Not Detected	15000	Not Detected
Cumene	1400	Not Detected	7000	Not Detected
1,1,2,2-Tetrachloroethane	1400	Not Detected	9700	Not Detected
Propylbenzene	1400	Not Detected	7000	Not Detected
4-Ethyltoluene	1400	Not Detected	7000	Not Detected
1,3,5-Trimethylbenzene	1400	Not Detected	7000	Not Detected
1,2,4-Trimethylbenzene	1400	Not Detected	7000	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	7400	Not Detected
1,2-Dichlorobenzene	1400	Not Detected	8500	Not Detected
1,2,4-Trichlorobenzene	5700	Not Detected	42000	Not Detected
Hexachlorobutadiene	5700	Not Detected	60000	Not Detected
Butane	5700	130000	14000	320000
Isopentane	5700	1800000 E	17000	5400000 E

J = Estimated value.
E = Exceeds instrument calibration range.
Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104538A-17A

EPA METHOD TO-15 GC/MS

File Name:	**b050233c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/2/11 04:50 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	50	Not Detected	200	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104538A-17A

EPA METHOD TO-15 GC/MS

File Name:	**b050233c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/2/11 04:50 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	50	Not Detected	200	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	50	Not Detected	210	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	98	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104538A-17B

EPA METHOD TO-15 GC/MS

File Name:	**b050332a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/3/11 09:13 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	50	Not Detected	200	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104538A-17B

EPA METHOD TO-15 GC/MS

File Name:	**b050332a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/3/11 09:13 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	50	Not Detected	200	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	50	Not Detected	210	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	3.3 J	150	24 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	94	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104538A-18A

EPA METHOD TO-15 GC/MS

File Name:	**b050230**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/2/11 03:31 PM**	

Compound	%Recovery
Freon 12	105
Freon 114	104
Chloromethane	103
Vinyl Chloride	110
1,3-Butadiene	105
Bromomethane	104
Chloroethane	101
Freon 11	104
Ethanol	102
Freon 113	104
1,1-Dichloroethene	101
Acetone	102
2-Propanol	96
Carbon Disulfide	101
3-Chloropropene	94
Methylene Chloride	103
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	102
Hexane	90
1,1-Dichloroethane	104
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	103
Tetrahydrofuran	103
Chloroform	105
1,1,1-Trichloroethane	103
Cyclohexane	102
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	97
Benzene	98
1,2-Dichloroethane	106
Heptane	96
Trichloroethene	104
1,2-Dichloropropane	107
1,4-Dioxane	106
Bromodichloromethane	107
cis-1,3-Dichloropropene	101
4-Methyl-2-pentanone	87
Toluene	93
trans-1,3-Dichloropropene	104
1,1,2-Trichloroethane	106
Tetrachloroethene	106

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104538A-18A

EPA METHOD TO-15 GC/MS

File Name:	**b050230**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/2/11 03:31 PM**	

Compound	%Recovery
2-Hexanone	90
Dibromochloromethane	111
1,2-Dibromoethane (EDB)	108
Chlorobenzene	107
Ethyl Benzene	109
m,p-Xylene	106
o-Xylene	111
Styrene	108
Bromoform	110
Cumene	122
1,1,2,2-Tetrachloroethane	111
Propylbenzene	122
4-Ethyltoluene	124
1,3,5-Trimethylbenzene	127
1,2,4-Trimethylbenzene	120
1,3-Dichlorobenzene	116
1,4-Dichlorobenzene	119
alpha-Chlorotoluene	134 Q
1,2-Dichlorobenzene	120
1,2,4-Trichlorobenzene	123
Hexachlorobutadiene	135 Q
Butane	102
Isopentane	96

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104538A-18B

EPA METHOD TO-15 GC/MS

File Name:	**b050329**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/3/11 07:35 PM**	

Compound	%Recovery
Freon 12	97
Freon 114	102
Chloromethane	91
Vinyl Chloride	93
1,3-Butadiene	92
Bromomethane	99
Chloroethane	94
Freon 11	98
Ethanol	102
Freon 113	103
1,1-Dichloroethene	98
Acetone	98
2-Propanol	97
Carbon Disulfide	95
3-Chloropropene	91
Methylene Chloride	94
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	97
Hexane	88
1,1-Dichloroethane	96
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	98
Tetrahydrofuran	102
Chloroform	98
1,1,1-Trichloroethane	97
Cyclohexane	100
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	94
Benzene	90
1,2-Dichloroethane	94
Heptane	90
Trichloroethene	97
1,2-Dichloropropane	97
1,4-Dioxane	103
Bromodichloromethane	96
cis-1,3-Dichloropropene	97
4-Methyl-2-pentanone	94
Toluene	87
trans-1,3-Dichloropropene	99
1,1,2-Trichloroethane	99
Tetrachloroethene	104

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV
Lab ID#: 1104538A-18B
EPA METHOD TO-15 GC/MS

File Name:	**b050329**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/3/11 07:35 PM**	

Compound	%Recovery
2-Hexanone	95
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	102
Chlorobenzene	100
Ethyl Benzene	103
m,p-Xylene	102
o-Xylene	107
Styrene	100
Bromoform	103
Cumene	115
1,1,2,2-Tetrachloroethane	100
Propylbenzene	111
4-Ethyltoluene	114
1,3,5-Trimethylbenzene	115
1,2,4-Trimethylbenzene	112
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	111
alpha-Chlorotoluene	119
1,2-Dichlorobenzene	112
1,2,4-Trichlorobenzene	129
Hexachlorobutadiene	128
Butane	88
Isopentane	89

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS
Lab ID#: 1104538A-19A
EPA METHOD TO-15 GC/MS

File Name:	**b050231**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/2/11 04:05 PM**	

Compound	%Recovery
Freon 12	111
Freon 114	110
Chloromethane	115
Vinyl Chloride	116
1,3-Butadiene	115
Bromomethane	115
Chloroethane	106
Freon 11	109
Ethanol	110
Freon 113	111
1,1-Dichloroethene	115
Acetone	106
2-Propanol	108
Carbon Disulfide	130
3-Chloropropene	116
Methylene Chloride	107
Methyl tert-butyl ether	114
trans-1,2-Dichloroethene	120
Hexane	95
1,1-Dichloroethane	110
2-Butanone (Methyl Ethyl Ketone)	108
cis-1,2-Dichloroethene	110
Tetrahydrofuran	106
Chloroform	111
1,1,1-Trichloroethane	110
Cyclohexane	108
Carbon Tetrachloride	111
2,2,4-Trimethylpentane	101
Benzene	102
1,2-Dichloroethane	111
Heptane	98
Trichloroethene	108
1,2-Dichloropropane	111
1,4-Dioxane	107
Bromodichloromethane	111
cis-1,3-Dichloropropene	108
4-Methyl-2-pentanone	92
Toluene	95
trans-1,3-Dichloropropene	111
1,1,2-Trichloroethane	110
Tetrachloroethene	111

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104538A-19A

EPA METHOD TO-15 GC/MS

File Name:	**b050231**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/2/11 04:05 PM**	

Compound	%Recovery
2-Hexanone	100
Dibromochloromethane	114
1,2-Dibromoethane (EDB)	114
Chlorobenzene	112
Ethyl Benzene	113
m,p-Xylene	113
o-Xylene	117
Styrene	113
Bromoform	113
Cumene	130
1,1,2,2-Tetrachloroethane	118
Propylbenzene	130
4-Ethyltoluene	127
1,3,5-Trimethylbenzene	132 Q
1,2,4-Trimethylbenzene	128
1,3-Dichlorobenzene	124
1,4-Dichlorobenzene	126
alpha-Chlorotoluene	144 Q
1,2-Dichlorobenzene	129
1,2,4-Trichlorobenzene	144 Q
Hexachlorobutadiene	146 Q
Butane	106
Isopentane	101

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD
Lab ID#: 1104538A-19AA
EPA METHOD TO-15 GC/MS

File Name:	**b050232**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/2/11 04:23 PM**	

Compound	%Recovery
Freon 12	112
Freon 114	110
Chloromethane	114
Vinyl Chloride	115
1,3-Butadiene	113
Bromomethane	123
Chloroethane	122
Freon 11	110
Ethanol	115
Freon 113	111
1,1-Dichloroethene	119
Acetone	110
2-Propanol	113
Carbon Disulfide	132
3-Chloropropene	119
Methylene Chloride	110
Methyl tert-butyl ether	119
trans-1,2-Dichloroethene	122
Hexane	98
1,1-Dichloroethane	112
2-Butanone (Methyl Ethyl Ketone)	115
cis-1,2-Dichloroethene	113
Tetrahydrofuran	112
Chloroform	113
1,1,1-Trichloroethane	114
Cyclohexane	111
Carbon Tetrachloride	113
2,2,4-Trimethylpentane	104
Benzene	104
1,2-Dichloroethane	112
Heptane	101
Trichloroethene	111
1,2-Dichloropropane	115
1,4-Dioxane	110
Bromodichloromethane	112
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	96
Toluene	97
trans-1,3-Dichloropropene	115
1,1,2-Trichloroethane	112
Tetrachloroethene	112

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD
Lab ID#: 1104538A-19AA
EPA METHOD TO-15 GC/MS

File Name:	**b050232**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/2/11 04:23 PM**	

Compound	%Recovery
2-Hexanone	103
Dibromochloromethane	116
1,2-Dibromoethane (EDB)	118
Chlorobenzene	113
Ethyl Benzene	114
m,p-Xylene	115
o-Xylene	118
Styrene	114
Bromoform	115
Cumene	132
1,1,2,2-Tetrachloroethane	118
Propylbenzene	130
4-Ethyltoluene	126
1,3,5-Trimethylbenzene	133 Q
1,2,4-Trimethylbenzene	128
1,3-Dichlorobenzene	125
1,4-Dichlorobenzene	127
alpha-Chlorotoluene	149 Q
1,2-Dichlorobenzene	129
1,2,4-Trichlorobenzene	152 Q
Hexachlorobutadiene	151 Q
Butane	103
Isopentane	116

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104538A-19B

EPA METHOD TO-15 GC/MS

File Name:	**b050330**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/3/11 08:31 PM**	

Compound	%Recovery
Freon 12	110
Freon 114	112
Chloromethane	108
Vinyl Chloride	104
1,3-Butadiene	102
Bromomethane	109
Chloroethane	106
Freon 11	108
Ethanol	114
Freon 113	114
1,1-Dichloroethene	114
Acetone	108
2-Propanol	112
Carbon Disulfide	130
3-Chloropropene	118
Methylene Chloride	104
Methyl tert-butyl ether	121
trans-1,2-Dichloroethene	121
Hexane	95
1,1-Dichloroethane	107
2-Butanone (Methyl Ethyl Ketone)	114
cis-1,2-Dichloroethene	109
Tetrahydrofuran	109
Chloroform	109
1,1,1-Trichloroethane	109
Cyclohexane	110
Carbon Tetrachloride	109
2,2,4-Trimethylpentane	101
Benzene	98
1,2-Dichloroethane	103
Heptane	99
Trichloroethene	107
1,2-Dichloropropane	107
1,4-Dioxane	111
Bromodichloromethane	106
cis-1,3-Dichloropropene	109
4-Methyl-2-pentanone	100
Toluene	94
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	108
Tetrachloroethene	111

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104538A-19B

EPA METHOD TO-15 GC/MS

File Name:	**b050330**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/3/11 08:31 PM**	

Compound	%Recovery
2-Hexanone	107
Dibromochloromethane	111
1,2-Dibromoethane (EDB)	112
Chlorobenzene	110
Ethyl Benzene	113
m,p-Xylene	112
o-Xylene	118
Styrene	112
Bromoform	110
Cumene	128
1,1,2,2-Tetrachloroethane	109
Propylbenzene	122
4-Ethyltoluene	119
1,3,5-Trimethylbenzene	125
1,2,4-Trimethylbenzene	120
1,3-Dichlorobenzene	119
1,4-Dichlorobenzene	120
alpha-Chlorotoluene	132 Q
1,2-Dichlorobenzene	122
1,2,4-Trichlorobenzene	141 Q
Hexachlorobutadiene	138 Q
Butane	94
Isopentane	98

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	105	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104538A-19BB

EPA METHOD TO-15 GC/MS

File Name:	**b050331**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/3/11 08:50 PM**	

Compound	%Recovery
Freon 12	110
Freon 114	108
Chloromethane	105
Vinyl Chloride	102
1,3-Butadiene	97
Bromomethane	113
Chloroethane	107
Freon 11	105
Ethanol	114
Freon 113	111
1,1-Dichloroethene	114
Acetone	106
2-Propanol	113
Carbon Disulfide	126
3-Chloropropene	117
Methylene Chloride	102
Methyl tert-butyl ether	121
trans-1,2-Dichloroethene	118
Hexane	95
1,1-Dichloroethane	106
2-Butanone (Methyl Ethyl Ketone)	115
cis-1,2-Dichloroethene	108
Tetrahydrofuran	108
Chloroform	107
1,1,1-Trichloroethane	109
Cyclohexane	110
Carbon Tetrachloride	109
2,2,4-Trimethylpentane	100
Benzene	98
1,2-Dichloroethane	102
Heptane	96
Trichloroethene	106
1,2-Dichloropropane	107
1,4-Dioxane	110
Bromodichloromethane	105
cis-1,3-Dichloropropene	108
4-Methyl-2-pentanone	100
Toluene	93
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	107
Tetrachloroethene	110

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD
Lab ID#: 1104538A-19BB
EPA METHOD TO-15 GC/MS

File Name:	**b050331**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/3/11 08:50 PM**	

Compound	%Recovery
2-Hexanone	106
Dibromochloromethane	110
1,2-Dibromoethane (EDB)	110
Chlorobenzene	108
Ethyl Benzene	111
m,p-Xylene	110
o-Xylene	115
Styrene	110
Bromoform	111
Cumene	125
1,1,2,2-Tetrachloroethane	108
Propylbenzene	121
4-Ethyltoluene	119
1,3,5-Trimethylbenzene	125
1,2,4-Trimethylbenzene	118
1,3-Dichlorobenzene	117
1,4-Dichlorobenzene	120
alpha-Chlorotoluene	132 Q
1,2-Dichlorobenzene	123
1,2,4-Trichlorobenzene	146 Q
Hexachlorobutadiene	142 Q
Butane	90
Isopentane	99

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130

1104538

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Thomas Adams
PO #
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
☐ CHECK IF NO INCIDENT # APPLIES
SAP #: 3 4 0 0 8 1
DATE: 04/22/11
PAGE: 1 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE -- ROXANA
State: IL
GLOBAL ID NO:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
PROJ. MGR: Elizabeth Kunkel, URS, St. Louis
PHONE NO: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME#: Roxana Dissolved Phase
LABORATORY ADDRESS: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
BILL TO CONTACT E-MAIL: Thomas_Adams@URSCorp.com
SAMPLER NAME(S) (Print): E. Arthur, W. Buchman, C. Krotzer, M. Ewersmann, N. Satam

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

Turn Around Time: ☑ Normal ☐ Rush Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab Use Only	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
01A	VMP-4-23.5-042011	04/20/11	1015 - 1042	1369	-29	-4			X	X	
02A	VMP-4-23.5-042011-Dup	02/20/11	1015 - 1042	3259	-30	-3.5			X	X	
03A	VMP-15-5-042011	04/20/11	1240 - 1310	1911	-30	-7.5			X	X	
04A	VMP-15-21.5-042011	04/20/11	1340 - 1410	3800	-30	-9.5			X	X	
05A	VMP-15-25.5-042011	04/20/11	1440 - 1515	3257	-29	-8.5			X	X	
06A	VMP-15-25.5-042011-Dup	04/20/11	1440 - 1515	2053	-29	-8.5			X	X	
07A	VMP-5-5-042111	04/21/11	0935 - 1000	2151	-29	-8			X	X	
08A	VMP-5-12.5-042111	04/21/11	1030 - 1100	3868	-29	-9.5			X	X	
09A	VMP-5-31-042111	04/21/11	1130 - 1155	2023	-30	-9.5			X	X	
10A	VMP-5-40-042111	04/21/11	1300 - 1322	2651	-29	-9			X	X	

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

CUSTODY SEAL INTACT? Y N NONE TEMP N/A
Fedex

	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	FEDEX	4/22/11	1500
Relinquished by: (Signature)	Received by: (Signature) B. Whitaker ATL 4/25/11 0900		
Relinquished by: (Signature)	Received by: (Signature)		

05/2009 Revision

1104538

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SOB/CH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Thomas Adams
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 04/22/11
PAGE: 2 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
REMOTE DELIVERABLE TO (name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO: 314-743-4179
E-MAIL: Elizabeth.Kunkel@URSCorp.com
CONSULTANT PROJECT NAME/#: Roxana Dissolved Phase
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE #: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Thomas.Adams@URSCorp.com
SAMPLER NAME(S) (Print): E. Arthur, W. Buchman, C. Kretzer, M. Ewersmann, N. Salam

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
1104538-01A	VMP-4-39-042111	04/21/11	0945 - 1006	3485	-30	-5			X	X	
1104538-02A	VMP-23-5-042111	04/21/11	1320 - 1360	1458	-30	-5.5			X	X	
1104538-03A	VMP-23-10-042111	04/21/11	1509 - 1540	5838	-30	-6			X	X	
1104538-04A	VMP-23-25-042111	04/21/11	1609 - 1639	626	-30	-5.5			X	X	
1104538-05A	VMP-16-5-042211	04/22/11	0940 - 1005	2078	-30	-7.5			X	X	
1104538-06A	VMP-16-13.5-042211	04/22/11	1041 - 1105	3890	-30	-8.5			X	X	

Turn Around Time: ☑ Normal ☐ Rush Specify
Lab Use Only: Pressurized by: Date: Pressurization Gas: N2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

CUSTODY SEAL INTACT? (Y) N NONE TEMP N/A
Fedex

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	4/22/11	1500
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	B Wuttke ARL 4/25/11 0900		
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

05/2006 Revision

Air Toxics LTD.
Laboratory Services Since 1989

5/9/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562593.00008
Workorder #: 1104538B

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/25/2011 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 #: 1104538B

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/25/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	05/09/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-4-23.5-042011	Modified ASTM D-1946	3.5 "Hg	15 psi
02A	VMP-4-23.5-042011-Dup	Modified ASTM D-1946	3.5 "Hg	15 psi
03A	VMP-15-5-042011	Modified ASTM D-1946	7.0 "Hg	15 psi
04A	VMP-15-21.5-042011	Modified ASTM D-1946	8.5 "Hg	15 psi
05A	VMP-15-25.5-042011	Modified ASTM D-1946	8.5 "Hg	15 psi
06A	VMP-15-25.5-042011-Dup	Modified ASTM D-1946	7.0 "Hg	15 psi
07A	VMP-5-5-042111	Modified ASTM D-1946	7.0 "Hg	15 psi
08A	VMP-5-12.5-042111	Modified ASTM D-1946	8.5 "Hg	15 psi
09A	VMP-5-31-042111	Modified ASTM D-1946	7.0 "Hg	15 psi
10A	VMP-5-40-042111	Modified ASTM D-1946	8.0 "Hg	15 psi
11A	VMP-4-39-042111	Modified ASTM D-1946	6.0 "Hg	15 psi
12A	VMP-23-5-042111	Modified ASTM D-1946	3.5 "Hg	15 psi
13A	VMP-23-10-042111	Modified ASTM D-1946	8.0 "Hg	15 psi
14A	VMP-23-25-042111	Modified ASTM D-1946	6.5 "Hg	15 psi
15A	VMP-16-5-042211	Modified ASTM D-1946	7.0 "Hg	15 psi
16A	VMP-16-13.5-042211	Modified ASTM D-1946	8.5 "Hg	15.2 psi
17A	Lab Blank	Modified ASTM D-1946	NA	NA

Continued on next page

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1104538B

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/25/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	05/09/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
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: Linda A. Freeman DATE: 05/09/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1104538B

Sixteen 1 Liter Summa Canister samples were received on April 25, 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.

Requirement	*ASTM D-1946*	*ATL Modifications*
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 >/= 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 X's the RL.

Receiving Notes

According to the Chain of Custody (COC), sample VMP-4-23.5-042011-Dup was collected on 2/20/11. However, the date on the sample tag reflects a collection date of 4/20/11. Therefore the date on the tag was used to calculate the sample holding time.

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

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-4-23.5-042011

Lab ID#: 1104538B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.4
Nitrogen	0.23	33
Methane	0.00023	46
Carbon Dioxide	0.023	6.0
Ethane	0.0023	0.019
Helium	0.11	0.85 J

Client Sample ID: VMP-4-23.5-042011-Dup

Lab ID#: 1104538B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.2
Nitrogen	0.23	31
Methane	0.00023	49
Carbon Dioxide	0.023	6.0
Ethane	0.0023	0.020
Helium	0.11	0.060 J J

Client Sample ID: VMP-15-5-042011

Lab ID#: 1104538B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.9
Nitrogen	0.26	83
Methane	0.00026	0.056
Carbon Dioxide	0.026	15
Helium	0.13	0.040 J

Client Sample ID: VMP-15-21.5-042011

Lab ID#: 1104538B-04A

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-15-21.5-042011

Lab ID#: 1104538B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.5
Nitrogen	0.28	72
Methane	0.00028	8.3
Carbon Dioxide	0.028	18
Ethane	0.0028	0.0055
Helium	0.14	0.022 J

Client Sample ID: VMP-15-25.5-042011

Lab ID#: 1104538B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	15
Nitrogen	0.28	71
Methane	0.00028	0.0012
Carbon Dioxide	0.028	3.9
Helium	0.14	9.9

Client Sample ID: VMP-15-25.5-042011-Dup

Lab ID#: 1104538B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	15
Nitrogen	0.26	72
Methane	0.00026	0.0071
Carbon Dioxide	0.026	3.7
Helium	0.13	9.5

Client Sample ID: VMP-5-5-042111

Lab ID#: 1104538B-07A

Compound	Rpt. Limit (%)	Amount (%)

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-5-5-042111

Lab ID#: 1104538B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	20
Nitrogen	0.26	78
Carbon Dioxide	0.026	2.0
Helium	0.13	0.10 J

Client Sample ID: VMP-5-12.5-042111

Lab ID#: 1104538B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	13
Nitrogen	0.28	80
Methane	0.00028	0.00015 J
Carbon Dioxide	0.028	6.9
Helium	0.14	0.089 J

Client Sample ID: VMP-5-31-042111

Lab ID#: 1104538B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.6
Nitrogen	0.26	60
Methane	0.00026	22
Carbon Dioxide	0.026	9.0
Ethane	0.0026	0.012
Helium	0.13	0.015 J

Client Sample ID: VMP-5-40-042111

Lab ID#: 1104538B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	2.6

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-5-40-042111

Lab ID#: 1104538B-10A

Nitrogen	0.28	62
Methane	0.00028	19
Carbon Dioxide	0.028	8.3
Ethane	0.0028	0.011
Helium	0.14	1.4

Client Sample ID: VMP-4-39-042111

Lab ID#: 1104538B-11A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	0.90
Nitrogen	0.25	29
Methane	0.00025	51
Carbon Dioxide	0.025	6.1
Ethane	0.0025	0.021
Helium	0.13	0.018 J

Client Sample ID: VMP-23-5-042111

Lab ID#: 1104538B-12A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	17
Nitrogen	0.23	79
Methane	0.00023	0.000072 J
Carbon Dioxide	0.023	4.2
Helium	0.11	0.063 J

Client Sample ID: VMP-23-10-042111

Lab ID#: 1104538B-13A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	13
Nitrogen	0.28	79

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-23-10-042111

Lab ID#: 1104538B-13A

Carbon Dioxide	0.028	6.2
Helium	0.14	1.5

Client Sample ID: VMP-23-25-042111

Lab ID#: 1104538B-14A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	3.1
Nitrogen	0.26	84
Methane	0.00026	0.00036
Carbon Dioxide	0.026	13
Helium	0.13	0.080 J

Client Sample ID: VMP-16-5-042211

Lab ID#: 1104538B-15A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.1
Nitrogen	0.26	33
Methane	0.00026	48
Carbon Dioxide	0.026	17
Ethane	0.0026	0.0010 J
Helium	0.13	0.040 J

Client Sample ID: VMP-16-13.5-042211

Lab ID#: 1104538B-16A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	0.93
Nitrogen	0.28	33
Methane	0.00028	48
Carbon Dioxide	0.028	16
Ethane	0.0028	0.00099 J

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-16-13.5-042211

Lab ID#: 1104538B-16A

Helium	0.14	0.064 J

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-4-23.5-042011

Lab ID#: 1104538B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050350**	**Date of Collection:**	**4/20/11 10:42:00 AM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**5/4/11 11:11 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.4
Nitrogen	0.23	33
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	46
Carbon Dioxide	0.023	6.0
Ethane	0.0023	0.019
Ethene	0.0023	Not Detected
Helium	0.11	0.85

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-4-23.5-042011-Dup

Lab ID#: 1104538B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050349**	**Date of Collection:**	**4/20/11 10:42:00 AM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**5/4/11 10:49 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	1.2
Nitrogen	0.23	31
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	49
Carbon Dioxide	0.023	6.0
Ethane	0.0023	0.020
Ethene	0.0023	Not Detected
Helium	0.11	0.060 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-15-5-042011

Lab ID#: 1104538B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050344**	**Date of Collection:**	**4/20/11 1:10:00 PM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**5/4/11 08:43 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.9
Nitrogen	0.26	83
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.056
Carbon Dioxide	0.026	15
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.040 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-15-21.5-042011

Lab ID#: 1104538B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050345**	**Date of Collection:**	**4/20/11 2:10:00 PM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**5/4/11 09:08 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	1.5
Nitrogen	0.28	72
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	8.3
Carbon Dioxide	0.028	18
Ethane	0.0028	0.0055
Ethene	0.0028	Not Detected
Helium	0.14	0.022 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-15-25.5-042011

Lab ID#: 1104538B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050347**	**Date of Collection:**	**4/20/11 3:15:00 PM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**5/4/11 09:55 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	15
Nitrogen	0.28	71
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.0012
Carbon Dioxide	0.028	3.9
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	9.9

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-15-25.5-042011-Dup

Lab ID#: 1104538B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050348**	**Date of Collection:**	**4/20/11 3:15:00 PM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**5/4/11 10:20 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	15
Nitrogen	0.26	72
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.0071
Carbon Dioxide	0.026	3.7
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	9.5

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-5-5-042111

Lab ID#: 1104538B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050332**	**Date of Collection:**	**4/21/11 10:00:00 AM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**5/3/11 08:41 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	20
Nitrogen	0.26	78
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	Not Detected
Carbon Dioxide	0.026	2.0
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.10 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-5-12.5-042111

Lab ID#: 1104538B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050333**	**Date of Collection:**	**4/21/11 11:00:00 AM**
Dil. Factor:	**2.82**	**Date of Analysis:**	**5/3/11 09:03 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	13
Nitrogen	0.28	80
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	0.00015 J
Carbon Dioxide	0.028	6.9
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	0.089 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-5-31-042111

Lab ID#: 1104538B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050334**	**Date of Collection:**	**4/21/11 11:55:00 AM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**5/3/11 09:25 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.26	1.6
Nitrogen	0.26	60
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	22
Carbon Dioxide	0.026	9.0
Ethane	0.0026	0.012
Ethene	0.0026	Not Detected
Helium	0.13	0.015 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-5-40-042111

Lab ID#: 1104538B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9050335	Date of Collection:	4/21/11 1:22:00 PM
Dil. Factor:	2.76	Date of Analysis:	5/3/11 09:47 PM

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	2.6
Nitrogen	0.28	62
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	19
Carbon Dioxide	0.028	8.3
Ethane	0.0028	0.011
Ethene	0.0028	Not Detected
Helium	0.14	1.4

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-4-39-042111

Lab ID#: 1104538B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050336**	**Date of Collection:**	**4/21/11 10:08:00 AM**
Dil. Factor:	**2.52**	**Date of Analysis:**	**5/3/11 10:19 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.25	0.90
Nitrogen	0.25	29
Carbon Monoxide	0.025	Not Detected
Methane	0.00025	51
Carbon Dioxide	0.025	6.1
Ethane	0.0025	0.021
Ethene	0.0025	Not Detected
Helium	0.13	0.018 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-23-5-042111

Lab ID#: 1104538B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050338**	**Date of Collection:**	**4/21/11 1:50:00 PM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**5/4/11 06:15 AM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.23	17
Nitrogen	0.23	79
Carbon Monoxide	0.023	Not Detected
Methane	0.00023	0.000072 J
Carbon Dioxide	0.023	4.2
Ethane	0.0023	Not Detected
Ethene	0.0023	Not Detected
Helium	0.11	0.063 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-23-10-042111

Lab ID#: 1104538B-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050339**	**Date of Collection:**	**4/21/11 3:40:00 PM**
Dil. Factor:	**2.76**	**Date of Analysis:**	**5/4/11 06:39 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	13
Nitrogen	0.28	79
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	Not Detected
Carbon Dioxide	0.028	6.2
Ethane	0.0028	Not Detected
Ethene	0.0028	Not Detected
Helium	0.14	1.5

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-23-25-042111

Lab ID#: 1104538B-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050340**	**Date of Collection:**	**4/21/11 4:39:00 PM**
Dil. Factor:	**2.58**	**Date of Analysis:**	**5/4/11 07:05 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	3.1
Nitrogen	0.26	84
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	0.00036
Carbon Dioxide	0.026	13
Ethane	0.0026	Not Detected
Ethene	0.0026	Not Detected
Helium	0.13	0.080 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-16-5-042211

Lab ID#: 1104538B-15A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050341**	**Date of Collection:**	**4/22/11 10:05:00 AM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**5/4/11 07:31 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.1
Nitrogen	0.26	33
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	48
Carbon Dioxide	0.026	17
Ethane	0.0026	0.0010 J
Ethene	0.0026	Not Detected
Helium	0.13	0.040 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-16-13.5-042211

Lab ID#: 1104538B-16A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050342**	**Date of Collection:**	**4/22/11 11:05:00 AM**
Dil. Factor:	**2.84**	**Date of Analysis:**	**5/4/11 07:53 AM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.28	0.93
Nitrogen	0.28	33
Carbon Monoxide	0.028	Not Detected
Methane	0.00028	48
Carbon Dioxide	0.028	16
Ethane	0.0028	0.00099 J
Ethene	0.0028	Not Detected
Helium	0.14	0.064 J

J = Estimated value.

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104538B-17A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050329a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/3/11 06:57 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.010 J
Nitrogen	0.10	0.060 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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104538B-17B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9050328b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/3/11 06:35 PM	

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

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104538B-18A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050327**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/3/11 06:13 PM**	

Compound	%Recovery
Oxygen	101
Nitrogen	101
Carbon Monoxide	100
Methane	100
Carbon Dioxide	100
Ethane	103
Ethene	101
Helium	93

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104538B-18AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050351**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/4/11 11:44 AM**	

Compound	%Recovery
Oxygen	100
Nitrogen	101
Carbon Monoxide	100
Methane	102
Carbon Dioxide	101
Ethane	106
Ethene	104
Helium	92

Container Type: NA - Not Applicable

1104538

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SO&CM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Thomas Adams
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0 ☐ CHECK IF NO INCIDENT # APPLIES
PO #:
SAP #: 3 4 0 0 6 1
DATE: 04/22/11
PAGE: 1 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME#: Roxana Dissolved Phase
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (Print): E. Arthur, W. Buchman, C. Kretzer, M. Ewersmann, N. Satam
TELEPHONE: 314-429-0100
FAX: 314-429-0462
E-Mail To Contact: Thomas.Adams@URSCorp.com

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum: Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946				
01A	VMP-4-23.5-042011	04/20/11	1015 - 1042	1369	-29	-4			X	X					
02A	VMP-4-23.5-042011-Dup	02/20/11	1015 - 1042	3259	-30	-3.5			X	X					
03A	VMP-15-5-042011	04/20/11	1240 - 1310	1911	-30	-7.5			X	X					
04A	VMP-15-21.5-042011	04/20/11	1340 - 1410	3800	-30	-8.5			X	X					
05A	VMP-15-25.5-042011	04/20/11	1440 - 1515	3257	-29	-8.5			X	X					
06A	VMP-15-25.5-042011-Dup	04/20/11	1440 - 1515	2053	-29	-8.5			X	X					
07A	VMP-5-5-042111	04/21/11	0935 - 1000	2151	-29	-8			X	X					
08A	VMP-5-12.5-042111	04/21/11	1030 - 1100	3868	-29	-9.5			X	X					
09A	VMP-5-31-042111	04/21/11	1130 - 1155	2023	-30	-8.5			X	X					
10A	VMP-5-40-042111	04/21/11	1300 - 1322	2651	-29	-9			X	X					

Turn Around Time: ☑ Normal ☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

CUSTODY SEAL INTACT? Y N NONE TEMP N/A
4 deg

Relinquished by: (Signature)	Received by: (Signature) FEDEX	Date: 4/22/11	Time: 1800
Relinquished by: (Signature)	Received by: (Signature) B. Smith for AL 4/25/11 0900	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2006 Revision

1104538

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SOS/CN ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Thomas Adams
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 5 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 04/22/11
PAGE: 2 of 2

SAMPLING COMPANY: URS CORPORATION
LOG CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300; ST. LOUIS, MO 63110
LAB DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME/#: Roxana Dissolved Phase
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
SAMPLER NAME(S) (Print): E. Arthur, W. Buchman, C. Kretzer, M. Ewersmann, N. Salam
TELEPHONE: 314-429-0100
FAX: 314-429-0462
BILL TO CONTACT E-MAIL: Thomas_Adams@URSCorp.com

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND
☐ LA - RWQCB REPORT FORMAT ☑ UST AGENCY:
DELIVERABLES: ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Turn Around Time: ☑ Normal ☐ Rush Specify
Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
11A	VMP-4-39-042111	04/21/11	0945 - 1008	3485	-30	-5			X	X	
12A	VMP-23-5-042111	04/21/11	1329 - 1350	1456	-30	-5.5			X	X	
13A	VMP-23-10-042111	04/21/11	1509 - 1540	5836	-30	-6			X	X	
14A	VMP-23-25-042111	04/21/11	1609 - 1638	626	-30	-5.5			X	X	
15A	VMP-16-5-042211	04/22/11	0940 - 1005	2076	-30	-7.5			X	X	
16A	VMP-16-13.5-042211	04/22/11	1041 - 1105	3890	-30	-8.5			X	X	

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

CUSTODY SEAL INTACT? (Y) N NONE TEMP NA
FedEx

		Date	Time
Relinquished by (Signature)	Received by (Signature): FEDEX	4/23/11	1500
Relinquished by (Signature)	Received by (Signature): B Buchman ATL 4/25/11 0900	Date	Time
Relinquished by (Signature)	Received by (Signature)	Date	Time

05/2/06 Revision

Roxana 2Q2011 Vapor Data Review

Laboratory SDG: 1104633A,B

Data Reviewer: Steve Gragert

Peer Reviewer: Jeff Aust

Date Reviewed: 6/29/2011

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-16-19-042711	VMP-16-19-042711-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 samples VMP-16-19-042711 and VMP-16-19-042711-DUP were diluted due to high levels of target analytes. Although not indicated in the laboratory case narrative, analytes were detected in TO-15 and ASTM D-1946 method blanks. TO-15 LCS recoveries were outside evaluation criteria. These issues are addressed further in the appropriate sections below.

The cooler receipt form indicated the canister identification for sample VMP-16-19-042711 on the COC did not match what was recorded on the canister tags. Also according to the COC, sample VMP-16-19-042711-DUP was collected on 4/21/2011. The canister collection time indicated it was sampled on 4/27/2011. In both instances, the laboratory contacted URS and was directed to use the information on the canister tags. 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 Method Blanks, Field Blanks or Trip Blanks?

Yes

Blank ID	Parameter	Analyte	Concentration/Amount
1104633A-03A	TO-15	1,3-Dichlorobenzene	0.48 ppbv / 2.9 µg/m^3
1104633A-03A	TO-15	1,4-Dichlorobenzene	0.58 ppbv / 3.5 µg/m^3
1104633A-03A	TO-15	alpha-Chlorotoluene	0.71 ppbv / 3.7 µg/m^3
1104633B-03A	ASTM D-1946	Oxygen	0.012 %
1104633B-03A	ASTM D-1946	Nitrogen	0.061 %

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.

5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

No

LCS ID	Parameter	Analyte	LCS Recovery	LCS Criteria
1104633A-05A	TO-15	1,2,4-Trichlorobenzene	**132**	70-130
1104633A-05AA	TO-15	1,2,4-Trichlorobenzene	**137**	70-130
1104633A-05AA	TO-15	Hexachlorobutadiene	**141**	70-130

All associated data were reported as nondetect 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-16-19-042711	VMP-16-19-042711-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

Air Toxics LTD.
Laboratory Services Since 1989

5/13/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562593.00008
Workorder #: 1104633A

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/29/2011 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-14A/15 (5&20 ppbv) are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

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

Regards,

Kelly Buettner

Project Manager

Reviewed on 6/29/11

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

WORK ORDER #: 1104633A

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/29/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	05/13/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-16-19-042711	Modified TO-14A/15 (5&20]	7.0 "Hg	15 psi
02A	VMP-16-19-042711-Dup	Modified TO-14A/15 (5&20]	6.5 "Hg	15 psi
03A	Lab Blank	Modified TO-14A/15 (5&20]	NA	NA
04A	CCV	Modified TO-14A/15 (5&20]	NA	NA
05A	LCS	Modified TO-14A/15 (5&20]	NA	NA
05AA	LCSD	Modified TO-14A/15 (5&20]	NA	NA

CERTIFIED BY: Linda J. Fruman DATE: 05/13/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

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

LABORATORY NARRATIVE
EPA Method TO-15
URS Corporation
Workorder# 1104633A

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

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

Receiving Notes

The Chain of Custody (COC) information for sample VMP-16-19-042711 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.

According to the Chain of Custody (COC), sample VMP-16-19-042711-Dup was collected on 4/21/11. However, the date on the sample tag reflects a collection date of 4/27/11. Therefore the date on the sample tag was used to calculate the sample holding time.

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.

Due to the linear calibration range of the instrument, the reporting limit for 2-Hexanone was raised from 20 ppbv to 50 ppbv and from 5 ppbv to 50 ppbv for 4-Methyl-2-pentanone and Styrene.

Dilution was performed on samples VMP-16-19-042711 and VMP-16-19-042711-Dup 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.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.
UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: VMP-16-19-042711

Lab ID#: 1104633A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	1300	300 J	4600	1000 J
Methyl tert-butyl ether	1300	340 J	4800	1200 J
Hexane	1300	520 J	4600	1800 J
Cyclohexane	1300	18000	4500	64000
2,2,4-Trimethylpentane	1300	1100000	6200	5100000
Benzene	1300	1200 J	4200	3700 J
Trichloroethene	1300	620 J	7100	3300 J
Butane	5300	62000	12000	150000
Isopentane	5300	940000	16000	2800000

Client Sample ID: VMP-16-19-042711-Dup

Lab ID#: 1104633A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Methylene Chloride	1300	160 J	4500	540 J
Methyl tert-butyl ether	1300	370 J	4600	1300 J
Hexane	1300	480 J	4500	1700 J
Cyclohexane	1300	19000	4400	64000
2,2,4-Trimethylpentane	1300	1100000	6000	5000000
Benzene	1300	980 J	4100	3100 J
Butane	5200	65000	12000	160000
Isopentane	5200	940000	15000	2800000

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-16-19-042711

Lab ID#: 1104633A-01A

EPA METHOD TO-15 GC/MS

File Name:	**b050927**	**Date of Collection:**	**4/27/11 2:28:00 PM**
Dil. Factor:	**264**	**Date of Analysis:**	**5/9/11 04:42 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	300 J	4600	1000 J
Methyl tert-butyl ether	1300	340 J	4800	1200 J
trans-1,2-Dichloroethene	1300	Not Detected	5200	Not Detected
Hexane	1300	520 J	4600	1800 J
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	18000	4500	64000
Carbon Tetrachloride	1300	Not Detected	8300	Not Detected
2,2,4-Trimethylpentane	1300	1100000	6200	5100000
Benzene	1300	1200 J	4200	3700 J
1,2-Dichloroethane	1300	Not Detected	5300	Not Detected
Heptane	1300	Not Detected	5400	Not Detected
Trichloroethene	1300	620 J	7100	3300 J
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	13000	Not Detected	54000	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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-16-19-042711

Lab ID#: 1104633A-01A

EPA METHOD TO-15 GC/MS

File Name:	**b050927**	**Date of Collection:**	**4/27/11 2:28:00 PM**
Dil. Factor:	**264**	**Date of Analysis:**	**5/9/11 04:42 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	13000	Not Detected	54000	Not Detected
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	13000	Not Detected	56000	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	6800	Not Detected
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	62000	12000	150000
Isopentane	5300	940000	16000	2800000

J = Estimated value.

Container Type: 1 Liter Summa Canister

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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-16-19-042711-Dup

Lab ID#: 1104633A-02A

EPA METHOD TO-15 GC/MS

File Name:	**b050928**	**Date of Collection:**	**4/27/11 2:28:00 PM**
Dil. Factor:	**258**	**Date of Analysis:**	**5/9/11 05:17 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1300	Not Detected	6400	Not Detected
Freon 114	1300	Not Detected	9000	Not Detected
Chloromethane	5200	Not Detected	11000	Not Detected
Vinyl Chloride	1300	Not Detected	3300	Not Detected
1,3-Butadiene	1300	Not Detected	2800	Not Detected
Bromomethane	1300	Not Detected	5000	Not Detected
Chloroethane	5200	Not Detected	14000	Not Detected
Freon 11	1300	Not Detected	7200	Not Detected
Ethanol	5200	Not Detected	9700	Not Detected
Freon 113	1300	Not Detected	9900	Not Detected
1,1-Dichloroethene	1300	Not Detected	5100	Not Detected
Acetone	5200	Not Detected	12000	Not Detected
2-Propanol	5200	Not Detected	13000	Not Detected
Carbon Disulfide	1300	Not Detected	4000	Not Detected
3-Chloropropene	5200	Not Detected	16000	Not Detected
Methylene Chloride	1300	160 J	4500	540 J
Methyl tert-butyl ether	1300	370 J	4600	1300 J
trans-1,2-Dichloroethene	1300	Not Detected	5100	Not Detected
Hexane	1300	480 J	4500	1700 J
1,1-Dichloroethane	1300	Not Detected	5200	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5200	Not Detected	15000	Not Detected
cis-1,2-Dichloroethene	1300	Not Detected	5100	Not Detected
Tetrahydrofuran	1300	Not Detected	3800	Not Detected
Chloroform	1300	Not Detected	6300	Not Detected
1,1,1-Trichloroethane	1300	Not Detected	7000	Not Detected
Cyclohexane	1300	19000	4400	64000
Carbon Tetrachloride	1300	Not Detected	8100	Not Detected
2,2,4-Trimethylpentane	1300	1100000	6000	5000000
Benzene	1300	980 J	4100	3100 J
1,2-Dichloroethane	1300	Not Detected	5200	Not Detected
Heptane	1300	Not Detected	5300	Not Detected
Trichloroethene	1300	Not Detected	6900	Not Detected
1,2-Dichloropropane	1300	Not Detected	6000	Not Detected
1,4-Dioxane	5200	Not Detected	18000	Not Detected
Bromodichloromethane	1300	Not Detected	8600	Not Detected
cis-1,3-Dichloropropene	1300	Not Detected	5800	Not Detected
4-Methyl-2-pentanone	13000	Not Detected	53000	Not Detected
Toluene	1300	Not Detected	4900	Not Detected
trans-1,3-Dichloropropene	1300	Not Detected	5800	Not Detected
1,1,2-Trichloroethane	1300	Not Detected	7000	Not Detected
Tetrachloroethene	1300	Not Detected	8800	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VMP-16-19-042711-Dup

Lab ID#: 1104633A-02A

EPA METHOD TO-15 GC/MS

File Name:	**b050928**	**Date of Collection:**	**4/27/11 2:28:00 PM**
Dil. Factor:	**258**	**Date of Analysis:**	**5/9/11 05:17 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	13000	Not Detected	53000	Not Detected
Dibromochloromethane	1300	Not Detected	11000	Not Detected
1,2-Dibromoethane (EDB)	1300	Not Detected	9900	Not Detected
Chlorobenzene	1300	Not Detected	5900	Not Detected
Ethyl Benzene	1300	Not Detected	5600	Not Detected
m,p-Xylene	1300	Not Detected	5600	Not Detected
o-Xylene	1300	Not Detected	5600	Not Detected
Styrene	13000	Not Detected	55000	Not Detected
Bromoform	1300	Not Detected	13000	Not Detected
Cumene	1300	Not Detected	6300	Not Detected
1,1,2,2-Tetrachloroethane	1300	Not Detected	8800	Not Detected
Propylbenzene	1300	Not Detected	6300	Not Detected
4-Ethyltoluene	1300	Not Detected	6300	Not Detected
1,3,5-Trimethylbenzene	1300	Not Detected	6300	Not Detected
1,2,4-Trimethylbenzene	1300	Not Detected	6300	Not Detected
1,3-Dichlorobenzene	1300	Not Detected	7800	Not Detected
1,4-Dichlorobenzene	1300	Not Detected	7800	Not Detected
alpha-Chlorotoluene	1300	Not Detected	6700	Not Detected
1,2-Dichlorobenzene	1300	Not Detected	7800	Not Detected
1,2,4-Trichlorobenzene	5200	Not Detected	38000	Not Detected
Hexachlorobutadiene	5200	Not Detected	55000	Not Detected
Butane	5200	65000	12000	160000
Isopentane	5200	940000	15000	2800000

J = Estimated value.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104633A-03A

EPA METHOD TO-15 GC/MS

File Name:	**b050906a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/9/11 08:01 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	50	Not Detected	200	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1104633A-03A

EPA METHOD TO-15 GC/MS

File Name:	**b050906a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/9/11 08:01 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	50	Not Detected	200	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	50	Not Detected	210	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	0.48 J	30	2.9 J
1,4-Dichlorobenzene	5.0	0.58 J	30	3.5 J
alpha-Chlorotoluene	5.0	0.71 J	26	3.7 J
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

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	83	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV
Lab ID#: 1104633A-04A
EPA METHOD TO-15 GC/MS

File Name:	b050902	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/9/11 06:27 AM	

Compound	%Recovery
Freon 12	93
Freon 114	107
Chloromethane	82
Vinyl Chloride	76
1,3-Butadiene	74
Bromomethane	102
Chloroethane	96
Freon 11	98
Ethanol	97
Freon 113	111
1,1-Dichloroethene	93
Acetone	95
2-Propanol	86
Carbon Disulfide	99
3-Chloropropene	93
Methylene Chloride	94
Methyl tert-butyl ether	94
trans-1,2-Dichloroethene	102
Hexane	88
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	99
cis-1,2-Dichloroethene	95
Tetrahydrofuran	92
Chloroform	99
1,1,1-Trichloroethane	95
Cyclohexane	102
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	93
Benzene	95
1,2-Dichloroethane	92
Heptane	93
Trichloroethene	102
1,2-Dichloropropane	102
1,4-Dioxane	100
Bromodichloromethane	99
cis-1,3-Dichloropropene	94
4-Methyl-2-pentanone	86
Toluene	91
trans-1,3-Dichloropropene	93
1,1,2-Trichloroethane	102
Tetrachloroethene	110

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1104633A-04A

EPA METHOD TO-15 GC/MS

File Name:	**b050902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/9/11 06:27 AM**	

Compound	%Recovery
2-Hexanone	84
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	105
Chlorobenzene	105
Ethyl Benzene	106
m,p-Xylene	104
o-Xylene	108
Styrene	105
Bromoform	109
Cumene	117
1,1,2,2-Tetrachloroethane	99
Propylbenzene	110
4-Ethyltoluene	114
1,3,5-Trimethylbenzene	116
1,2,4-Trimethylbenzene	106
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	114
alpha-Chlorotoluene	112
1,2-Dichlorobenzene	112
1,2,4-Trichlorobenzene	102
Hexachlorobutadiene	116
Butane	73
Isopentane	85

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	82	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	108	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS
Lab ID#: 1104633A-05A
EPA METHOD TO-15 GC/MS

File Name:	**b050904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/9/11 07:21 AM**	

Compound	%Recovery
Freon 12	94
Freon 114	108
Chloromethane	87
Vinyl Chloride	79
1,3-Butadiene	77
Bromomethane	102
Chloroethane	98
Freon 11	98
Ethanol	98
Freon 113	112
1,1-Dichloroethene	100
Acetone	96
2-Propanol	93
Carbon Disulfide	122
3-Chloropropene	107
Methylene Chloride	93
Methyl tert-butyl ether	98
trans-1,2-Dichloroethene	115
Hexane	88
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	97
Tetrahydrofuran	92
Chloroform	100
1,1,1-Trichloroethane	98
Cyclohexane	103
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	93
Benzene	95
1,2-Dichloroethane	90
Heptane	93
Trichloroethene	104
1,2-Dichloropropane	102
1,4-Dioxane	102
Bromodichloromethane	99
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	90
Toluene	90
trans-1,3-Dichloropropene	96
1,1,2-Trichloroethane	102
Tetrachloroethene	110

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1104633A-05A

EPA METHOD TO-15 GC/MS

File Name:	**b050904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/9/11 07:21 AM**	

Compound	%Recovery
2-Hexanone	90
Dibromochloromethane	107
1,2-Dibromoethane (EDB)	107
Chlorobenzene	106
Ethyl Benzene	107
m,p-Xylene	107
o-Xylene	112
Styrene	105
Bromoform	107
Cumene	120
1,1,2,2-Tetrachloroethane	101
Propylbenzene	114
4-Ethyltoluene	114
1,3,5-Trimethylbenzene	117
1,2,4-Trimethylbenzene	111
1,3-Dichlorobenzene	114
1,4-Dichlorobenzene	117
alpha-Chlorotoluene	117
1,2-Dichlorobenzene	118
1,2,4-Trichlorobenzene	132 Q
Hexachlorobutadiene	130
Butane	73
Isopentane	87

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	82	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	108	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104633A-05AA

EPA METHOD TO-15 GC/MS

File Name:	**b050905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/9/11 07:39 AM**	

Compound	%Recovery
Freon 12	94
Freon 114	106
Chloromethane	88
Vinyl Chloride	79
1,3-Butadiene	75
Bromomethane	101
Chloroethane	99
Freon 11	98
Ethanol	97
Freon 113	112
1,1-Dichloroethene	101
Acetone	100
2-Propanol	94
Carbon Disulfide	122
3-Chloropropene	111
Methylene Chloride	93
Methyl tert-butyl ether	102
trans-1,2-Dichloroethene	114
Hexane	89
1,1-Dichloroethane	100
2-Butanone (Methyl Ethyl Ketone)	104
cis-1,2-Dichloroethene	99
Tetrahydrofuran	94
Chloroform	102
1,1,1-Trichloroethane	100
Cyclohexane	104
Carbon Tetrachloride	103
2,2,4-Trimethylpentane	94
Benzene	94
1,2-Dichloroethane	90
Heptane	93
Trichloroethene	103
1,2-Dichloropropane	103
1,4-Dioxane	102
Bromodichloromethane	99
cis-1,3-Dichloropropene	100
4-Methyl-2-pentanone	91
Toluene	91
trans-1,3-Dichloropropene	98
1,1,2-Trichloroethane	104
Tetrachloroethene	111

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1104633A-05AA

EPA METHOD TO-15 GC/MS

File Name:	**b050905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/9/11 07:39 AM**	

Compound	%Recovery
2-Hexanone	92
Dibromochloromethane	108
1,2-Dibromoethane (EDB)	108
Chlorobenzene	108
Ethyl Benzene	108
m,p-Xylene	108
o-Xylene	111
Styrene	106
Bromoform	109
Cumene	122
1,1,2,2-Tetrachloroethane	103
Propylbenzene	115
4-Ethyltoluene	114
1,3,5-Trimethylbenzene	119
1,2,4-Trimethylbenzene	112
1,3-Dichlorobenzene	117
1,4-Dichlorobenzene	119
alpha-Chlorotoluene	122
1,2-Dichlorobenzene	122
1,2,4-Trichlorobenzene	137 Q
Hexachlorobutadiene	141 Q
Butane	72
Isopentane	88

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	82	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	109	70-130

1104633

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Thomas Adams
PO #:
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0
SAP #: 3 4 0 0 6 1
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 04/28/11
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOC CODE:
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO:
ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME/#: Roxana Dissolved Phase
Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Thomas_Adams@URSCorp.com
SAMPLER NAME(S) (Print): E. Arthur, W. Buchman, C. Kretzer, M. Ewersmann, N. Salam

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ 1A - RWQCB REPORT FORMAT ☑ UST AGENCY:

DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum: Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
01A	VMP-16-19-042711	04/27/11	1405 - 1426	1778	-30	-6.5			X	X	
02A	VMP-16-19-042711-Dup	04/21/11	1404 - 1426	3923	-29.5	-6			X	X	

Turn Around Time: ☑ Normal ☐ Rush
Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	4/28/11	1000
Relinquished by: (Signature)	Received by: (Signature) B. Shattuck ATL 4/29/11 0900	Date	Time
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

05/2/08 Revision

CUSTODY SEAL INTACT? Y N NONE TEMP N/A

Fedex

Air Toxics LTD.
Laboratory Services Since 1989

5/10/2011
Mr. Jeff Adams
URS Corporation
1001 Highlands Plaza Dr. West
Suite 300
St. Louis MO 63110

Project Name: Roxana Dissolved Phase
Project #: 21562593.00008
Workorder #: 1104633B

Dear Mr. Jeff Adams

The following report includes the data for the above referenced project for sample(s) received on 4/29/2011 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

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1104633B

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 #**	21562593.00008 Roxana Dissolved Phase
DATE RECEIVED:	04/29/2011	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	05/10/2011		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VMP-16-19-042711	Modified ASTM D-1946	7.0 "Hg	15 psi
02A	VMP-16-19-042711-Dup	Modified ASTM D-1946	6.5 "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: Linda D. Frumarc DATE: 05/10/11

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763,
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/11
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified ASTM D-1946
URS Corporation
Workorder# 1104633B

Two 1 Liter Summa Canister samples were received on April 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.

Requirement	*ASTM D-1946*	*ATL Modifications*
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 >/= 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 X's the RL.

Receiving Notes

The Chain of Custody (COC) information for sample VMP-16-19-042711 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.

According to the Chain of Custody (COC), sample VMP-16-19-042711-Dup was collected on 4/21/11. However, the date on the sample tag reflects a collection date of 4/27/11. Therefore the date on the sample tag was used to calculate the sample holding time.

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

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

Client Sample ID: VMP-16-19-042711

Lab ID#: 1104633B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.2
Nitrogen	0.26	46
Methane	0.00026	33
Carbon Dioxide	0.026	16
Ethane	0.0026	0.00071 J
Helium	0.13	3.4

Client Sample ID: VMP-16-19-042711-Dup

Lab ID#: 1104633B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.9
Nitrogen	0.26	48
Methane	0.00026	31
Carbon Dioxide	0.026	15
Ethane	0.0026	0.00071 J
Helium	0.13	3.6

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Client Sample ID: VMP-16-19-042711

Lab ID#: 1104633B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050405**	**Date of Collection:**	**4/27/11 2:28:00 PM**
Dil. Factor:	**2.64**	**Date of Analysis:**	**5/4/11 01:45 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.2
Nitrogen	0.26	46
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	33
Carbon Dioxide	0.026	16
Ethane	0.0026	0.00071 J
Ethene	0.0026	Not Detected
Helium	0.13	3.4

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: VMP-16-19-042711-Dup

Lab ID#: 1104633B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050406**	**Date of Collection:**	**4/27/11 2:28:00 PM**
Dil. Factor:	**2.59**	**Date of Analysis:**	**5/4/11 02:10 PM**

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.26	1.9
Nitrogen	0.26	48
Carbon Monoxide	0.026	Not Detected
Methane	0.00026	31
Carbon Dioxide	0.026	15
Ethane	0.0026	0.00071 J
Ethene	0.0026	Not Detected
Helium	0.13	3.6

J = Estimated value.

Container Type: 1 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 1104633B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050404a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/4/11 01:20 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.10	0.012 J
Nitrogen	0.10	0.061 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

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Client Sample ID: Lab Blank

Lab ID#: 1104633B-03B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	9050403b	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/4/11 12:58 PM	

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

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1104633B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/4/11 12:34 PM**	

Compound	%Recovery
Oxygen	100
Nitrogen	100
Carbon Monoxide	99
Methane	99
Carbon Dioxide	102
Ethane	101
Ethene	100
Helium	93

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1104633B-04AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9050428**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/5/11 10:09 AM**	

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

Container Type: NA - Not Applicable

1104633

Shell Oil Products Chain Of Custody Record

URS

Air Toxics LTD.
Project Name: Roxana Dissolved Phase
Project # 21562593.00008
Lab Vendor #

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SOBCH ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: Thomas Adams
PO #
INCIDENT # (ENV SERVICES): 9 7 2 1 6 6 4 0 ☐ CHECK IF NO INCIDENT # APPLIES
SAP #: 3 4 0 0 6 1
DATE: 04/28/11
PAGE: 1 of 1

SAMPLING COMPANY: URS CORPORATION
LOG CODE
SITE ADDRESS: Street and City: 900 SOUTH CENTRAL AVE – ROXANA
State: IL
GLOBAL ID NO

ADDRESS: 1001 HIGHLANDS PLAZA DRIVE WEST - SUITE 300, ST. LOUIS, MO 63110
EDF DELIVERABLE TO (Name, Company, Office Location): Elizabeth Kunkel, URS, St. Louis
PHONE NO: 314-743-4179
E-MAIL: Elizabeth_Kunkel@URSCorp.com
CONSULTANT PROJECT NAME/#: Roxana Dissolved Phase

Laboratory Address: Air Toxics, LTD 180 Blue Ravine Road, Suite B, Folsom, CA 95630-4719
TELEPHONE: 314-429-0100
FAX: 314-429-0462
Bill To Contact E-MAIL: Thomas_Adams@URSCorp.com
SAMPLER NAME(S) (Print): E. Arthur, W. Buchman, C. Kretzer, M. Ewersmann, N. Satam

TURNAROUND TIME (CALENDAR DAYS)
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☑ LIST AGENCY:

DELIVERABLES ☐ LEVEL 1 ☐ LEVEL 2 ☐ LEVEL 3 ☑ LEVEL 4 ☐ OTHER (SPECIFY)

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

Turn Around Time: ☑ Normal ☐ Rush ☐ Specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	Canister Number	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)	Modified TO-15 + Butane & Isopentane	ASTM D-1946 + Helium	ASTM D-1946
01A	VMP-16-19-042711	04/27/11	1405 - 1428	1778	-30	-6.5			X	X	
02A	VMP-16-19-042711-Dup	04/21/11	1404 - 1428	3823	-29.5	-6			X	X	

ADDITIONAL NOTES:
- 14 day hold time
- Report results between MDL and RL
- Level IV ECVP

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
	FEDEX	4/28/11	1000
Relinquished by: (Signature)	Received by: (Signature) B. Shattuck ATL 4/29/11 0900	Date	Time
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

05/2006 Revision

CUSTODY SEAL INTACT? Y N (NONE) TEMP N/A

Fedex