ALAMEDA MARINA

October 12, 2010

Project 0147400000

Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Subject: **Soil Vapor Investigation Report**
Pacific Shops, Inc.
1829 Clement Avenue
Alameda, California
SLIC Case No. RO0002624 and GeoTracker Global ID SLT2O00414

Dear Mr. Wickham:

Enclosed please find the *Soil Vapor Investigation Report* for SLIC Case No. RO0002624. This report was prepared by AMEC Geomatrix, Inc. (AMEC) on behalf of Pacific Shops. Considering the data presented in this report and data previously collected at the site and submitted to Alameda County Environmental Health, we request closure of SLIC Case No. RO0002624 without a deed restriction.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge.

Sincerely yours,

Sean Svendsen

Enclosure: Soil Vapor Investigation Report

Pacific Shops, Inc. • 1815 Clement Avenue • Alameda, California 94501-1376
PHONE: 510.521.1133 • FAX: 510.521.1185 • EMAIL: info@alamedamarina.net • www.alamedamarina.net

October 12, 2010

Project 0147400000

Mr. Sean Svendsen
Pacific Shops, Inc.
1829 Clement Avenue
Alameda, California 94501

Subject: **Soil Vapor Investigation Report**
Pacific Shops, Inc.
1829 Clement Avenue
Alameda, California
SLIC Case No. RO0002624 and GeoTracker Global ID SLT2O00414

Dear Mr. Svendsen:

AMEC Geomatrix, Inc. (AMEC), has prepared this *Soil Vapor Investigation Report* (report) on behalf of Pacific Shops, Inc. (Pacific Shops), for the property located at 1829 Clement Avenue in Alameda, California (the site; Figure 1). The soil vapor investigation was performed in accordance with the *Soil Vapor Investigation Work Plan* (work plan) dated September 2, 2010,[1] which was conditionally approved by the Alameda County Environmental Health Services Department (ACEH) in a letter to Pacific Shops dated September 7, 2010.[2]

Based on the results of this investigation presented herein and on the data previously collected at the site and submitted to ACEH, on behalf of Pacific Shops we request closure of SLIC Case No. RO0002624 without a deed restriction.

SCOPE OF WORK

Four soil vapor samples were collected at the locations shown on Figure 2.

Pre-Field Activities

Prior to commencing fieldwork, AMEC performed the following activities:

- Notified ACEH of the work schedule;
- Notified Underground Service Alert (USA) at least 48 hours in advance of beginning field work; and
- Contracted with a private utility locator to survey proposed boring locations for underground utilities.

[1] AMEC Geomatrix, Inc., 2010, Soil Vapor Investigation Work Plan, Pacific Shops, Inc., 1829 Clement Avenue, Alameda, California, SLIC Case No. RO0002624 and GeoTracker Global ID SLT2O00414, September 2.

[2] Alameda County Environmental Health, 2010, SLIC Case No. RO0002624 and Geotracker Global ID SLT2O00414 Pacific Shops, 1829 Clement Avenue, Alameda, CA 94501 – Email Submittal dated September 7, 2010.

AMEC Geomatrix, Inc.
2101 Webster Street, 12th Floor
Oakland, California
USA 94612-3066
Tel (510) 663-4100
Fax (510) 663-4141
www.amecgeomatrixinc.com

Field Methods

AMEC installed and sampled four temporary soil vapor probes on September 10 and 22, 2010, in accordance with the following methodology. The sample locations are shown on Figure 2.

Temporary Vapor Probe Installation

Each probe was installed by Penecore Drilling, of Woodland, California, a California C57-licensed contractor. The soil boring for each probe was advanced using a jackhammer to drive 2.25-inch-outside-diameter stainless steel rods, fitted with a disposable tip, to the desired total depth. Each soil boring was advanced from the floor of the building, through the sub-floor space (approximately 2 to 3 feet), and into the ground below.

Once the total desired depth was reached at each probe location, the drive rods were retracted several inches, leaving the disposable tip in the ground, and new, disposable, $^{1}/_{4}$-inch-outside-diameter Teflon® tubing, fitted with a filter at the bottom to prevent particulate infiltration, was placed in the boring at approximately 0.5 feet above the bottom of the boring. Approximately 12 inches of filter sand was placed in the bottom of the boring, so that the bottom of the Teflon® tubing was approximately in the middle of the filter sand interval.

Following installation of the filter sand, approximately 1 foot of dry granular bentonite was placed in the boring. The boring was then sealed to the ground surface in approximately 3- to 4-inch lifts with hydrated bentonite. A valve was fitted to the above-ground end of the tubing and remained closed prior to purging and sampling. The rods were slowly retracted as all probe materials were installed in the boring.

Each soil vapor probe was allowed to equilibrate for a minimum of 30 minutes prior to purging and sampling.

The anticipated total depth for each boring was 5 feet below ground surface (bgs), with the probes installed between 4 and 5 feet bgs. However, fine-grained and/or saturated soils were encountered below approximately 4 feet bgs (including water encountered in the tubing at the initial depth [4 to 5 feet bgs] and location of SV-2). AMEC advanced borings SV-1, SV-2 and SV-3 to 5 feet bgs on September 10, 2010, installed soil vapor probes from 4 to 5 feet bgs, and attempted to sample the probes. Due to low-flow conditions and saturated soils, it was not possible to obtain samples. As a result of the subsurface conditions encountered in borings SV-1, SV-2, and SV-3, boring SV-4 was advanced to a total depth of 4 feet bgs, and the probe was installed from 3 to 4 feet bgs. A soil vapor sample was successfully collected from that depth in SV-4 on September 10, 2010.

On September 22, 2010, AMEC returned to the site to advance borings SV-1, SV-2 and SV-3 to shallower depths at locations close to, but at least 5 feet away from, the initial locations. Soil vapor probe SV-1 was installed from 2.5 to 3.5 feet bgs (after a probe installed on September 22, 2010 from 3 to 4 feet bgs failed due to low-flow conditions). Soil vapor probes SV-2 and SV-3 were installed from 3 to 4 feet bgs.

Temporary Vapor Probe Purging

Following equilibration, AMEC assembled a soil vapor sampling manifold that allowed each probe to be purged and a soil gas sample to be collected into a 1-liter Summa™ canister. The manifold included a Summa™ canister and flow controller, and a three-way valve so that the purge port was not in line with the Summa™ canister. Canisters and flow controllers were provided by Air Toxics, Ltd. (Air Toxics), of Folsom, California, a California Department of Public Health−accredited laboratory.[3]

Immediately prior to sampling, the tubing and manifold were purged to clear the tubing and sample train of stagnant or ambient air. Three purge volumes were removed before sampling at each location. One purge volume was calculated in the field based on the volume of the void space in the tubing plus an estimate of the void space in the filter sand interval. The estimated purge volume calculation is presented below.

> Estimated purge volume: one purge volume ≈ (internal volume of tubing) + (annular pore space around probe tip)

Approximately 1020 milliliters (mL) of air was purged from each probe prior to sampling. The vapor flow rate during purging was limited to approximately 167 mL per minute (mL/min) using a universal pump calibrated with a volumetric air flow meter.

Temporary Vapor Probe Sampling

Immediately following purging, each soil gas sample was collected into a 1-liter Summa™ canister, which was equipped with a flow controller that limits the flow rate into the canister to less than 200 mL/minute. The Summa™ canister was allowed to fill almost completely. Following sampling, the Summa™ canister was capped with a fitting to prevent ambient air intrusion during shipping, labeled, and stored in a cardboard box prior to being shipped to Air Toxics under AMEC chain-of-custody procedures.

Following sampling, the probe tubing was pulled from each boring, and Penecore Drilling advanced the same-diameter stainless steel rods as used to advance the borings into each boring to displace the bentonite and filter sand. The boring was then backfilled to the ground surface with neat cement grout.

Quality Control Measures

Quality control (QC) measures that were implemented during the soil vapor investigation included leak testing and collection of a duplicate sample.

Leak testing was conducted prior to sampling using a shut-in test at each sampling location. During the shut-in test, a vacuum was created in the sample train, extending to the valve closest to the ground surface, and the vacuum was monitored over a period of several minutes to confirm that it remained stable. All equipment used in collection of the soil vapor samples passed the shut-in test. A tracer compound leak test was not performed during sampling,

[3] California laboratory accreditation is not yet available for U.S. EPA Method TO-15; however, samples were shipped to a laboratory that is accredited by the California Environmental Laboratory Accreditation Program (ELAP) for other methods.

because it would have been necessary to fill a shroud at the ground surface with a tracer compound, and access to the ground surface via the sub-floor space was not available.

A blind field duplicate sample was collected from soil vapor probe SV-2. The duplicate sample was collected simultaneously with the primary sample, using a laboratory-provided T-joint between the flow controller and two Summa™ canisters. The duplicate sample was labeled with a false identifier (i.e., SV-20) and time, and was stored in the same manner as the primary sample and submitted to the analytical laboratory for the analysis of the same constituents as the primary sample.

Laboratory Analytical Methods

The SUMMA™ canisters were shipped to Air Toxics and were analyzed for VOCs using U.S. Environmental Protection Agency (U.S. EPA) Method TO-15. The laboratory analytical reports and chain-of-custody documents are provided in Attachment A.

RESULTS

Following receipt of the laboratory analytical data, AMEC evaluated the data using guidelines set forth in the *U.S. EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review.*[4] Overall, the results of the data quality assessment indicate that the analytical results are valid and useable.

The laboratory analytical results are presented in Table 1. Results were compared to published California Regional Water Quality Control Board, San Francisco Bay Region, environmental screening levels (ESLs) for evaluation of potential vapor intrusion concerns.[5] Where ESLs are available, none of the results exceeded the published ESLs for the residential or commercial/industrial land use scenarios.

The published ESLs for evaluation of potential vapor intrusion concerns are a conservative measure to assess whether constituents detected in soil vapor could potentially pose a risk via the vapor intrusion pathway. Since none of the results exceeded the ESLs for the residential or commercial/industrial land use scenarios, it is unlikely that constituents detected in soil vapor pose a risk via the vapor intrusion pathway.

Considering the data presented herein and data previously collected at the site and submitted to ACEH, on behalf of Pacific Shops we request closure of SLIC Case No. RO0002624 without a deed restriction. In addition, we request approval to destroy the three monitoring wells that are present at the site.

---

[4] U.S. EPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (U.S. EPA, 2008).

[5] California Regional Water Quality Control Board, San Francisco Bay Region, 2008, Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater, Interim Final, Table E-4, Shallow Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion Concerns using DTSC Attenuation Factors (Residential Exposure and Commercial/Industrial Land Use).

The published ESLs for evaluation of potential vapor intrusion concerns are a conservative measure to assess whether constituents detected in soil vapor could potentially pose a risk via the vapor intrusion pathway. Since none of the results exceeded the ESLs for the residential or commercial/industrial land use scenarios, it is unlikely that constituents detected in soil vapor pose a risk via the vapor intrusion pathway.

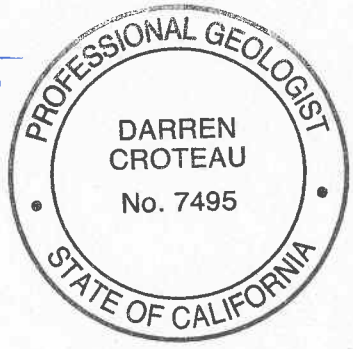
Considering the data presented herein and data previously collected at the site and submitted to ACEH, on behalf of Pacific Shops we request closure of SLIC Case No. RO0002624 without a deed restriction. In addition, we request approval to destroy the three monitoring wells that are present at the site.

Please contact any of the undersigned if you have any questions or require additional information.

Sincerely yours,
AMEC Geomatrix, Inc.

Edward P. Conti, CEG, CHG
Principal Geologist

Darren Croteau, PG
Senior Geologist



Robert Cheung
Senior Toxicologist/Risk Assessor

EPC/DC/jd/bfw
X:\14000s\14740.000\4000 REGULATORY\SVInvest'nRpt_101210\1 Text, cover letter, and slipsheets\Text.docx

Enclosures:

Table 1	Analytical Results of Detected Volatile Organic Compounds in Soil Vapor
Figure 1	Site Location Map
Figure 2	Site Plan and Soil Vapor Sample Locations
Attachment A	Laboratory Analytical Reports and Sample Chain-of-Custody Records

TABLE

TABLE 1

ANALYTICAL RESULTS OF DETECTED VOLATILE ORGANIC COMPOUNDS IN SOIL VAPOR [1]

Pacific Shops
1829 Clement Avenue
Alameda, California

All concentrations reported in units of micrograms per cubic meter (µg/m^3)

Sample ID	Date	Depth (feet bgs)	Analytical Method	Acetone	Benzene	Bromo-methane	1,3-Butadiene	Carbon Disulfide	Chloro-form	Cyclo-hexane	Ethanol	Ethyl-benzene	4-Ethyl-toluene	Heptane	Hexane	Methylene chloride	Methyl Ethyl Ketone	4-Methyl-2-pentanone	2-Prop-anol	Tetra-chloro-ethene	Tetra-hydro-furan	1,2,4-Trimethyl-benzene	Toluene	o-Xylene	m,p-Xylene
SV-1	9/22/2010	3.0	TO-15	100	16	<4.3	11	7.6	<5.4	6.8	9.1	<4.8	<5.4	<4.5	5.6	<3.8	21	56	<11	10	<3.2	<5.4	8.8	<4.8	<4.8
SV-20	9/22/2010	3.5	TO-15	230	9.8	9.0	14	31	54	4.1	21	<4.7	<5.3	8.7	12	4.7	54	42	13	<7.3	<3.2	<5.3	7.5	<4.7	<4.7
SV-2	9/22/2010	3.5	TO-15	230	12	8.2	12	30	52	7.4	20	<4.7	<5.3	8.6	11	5.0	54	38	<11	<7.3	3.5	<5.3	12	<4.7	5.2
SV-3	9/22/2010	3.5	TO-15	75	10	<4.2	8.1	10	17	<3.7	47	<4.8	<5.4	<4.5	4.6	<3.8	14	29	<11	<7.5	<3.2	<5.4	7.8	<4.8	6.3
SV-4	9/10/2010	3.5	TO-15	110	11	8.7	22	19	290	8.4	15	5.9	9.2	12	17	5.1	23	70	<11	<7.6	3.6	11	25	7.1	19
Residential Exposure ESL (DTSC AF) [2]				3.30E+04	4.20E+01	5.20E+02	--	--	--	--	--	4.90E+02	--	--	--	2.60E+03	5.20E+05	--	--	2.10E+02	--	--	3.10E+04	1.00E+04	1.00E+04
Commercial/Industrial ESL (DTSC AF) [3]				9.20E+05	1.40E+02	1.50E+03	--	--	--	--	--	1.60E+03	--	--	--	8.70E+03	1.50E+06	--	--	6.90E+02	--	--	8.80E+04	2.90E+04	2.90E+04

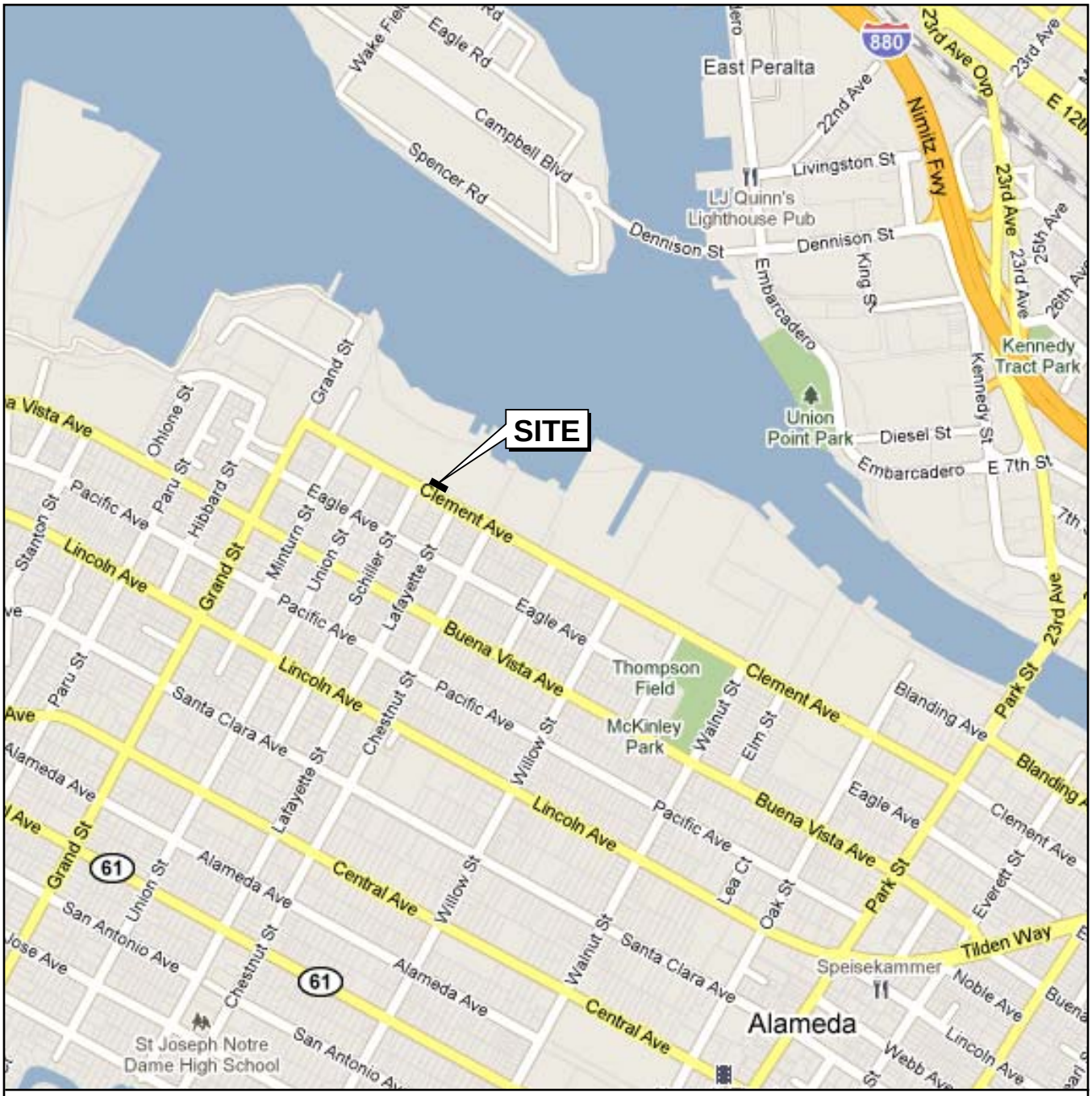
Notes

1. Each soil vapor sample was collected into Summa™ canisters by AMEC Geomatrix, Inc., and analyzed using U.S. EPA Method TO-15 by Air Toxics.
2. Residential Exposure Environmental Screening Level (ESL), Update to Environmental Screening Levels for Sites with Impacted Soil and Groundwater, Water Board, May 2008,Table E-4 Shallow Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion Concerns using DTSC Attenuation Factors.
3. Commercial/Industrial Environmental Screening Level (ESL), Update to Environmental Screening Levels for Sites with Impacted Soil and Groundwater, Water Board, May 2008, Table E-4 Shallow Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion Concerns using DTSC Attenuation Factors.

Abbreviations

-- = No ESL available
< = Not detected at or above the laboratory reporting limit shown
AF = Attenuation Factor
Air Toxics = Air Toxics, Limited, of Folsom, California
bgs = below ground surface
DTSC = Department of Toxic Substances Control
U.S. EPA = U.S. Environmental Protection Agency
Water Board = California Regional Water Quality Control Board, San Francisco Bay Region

FIGURES



Base map from *Google Maps 2010.*

0 1000 feet

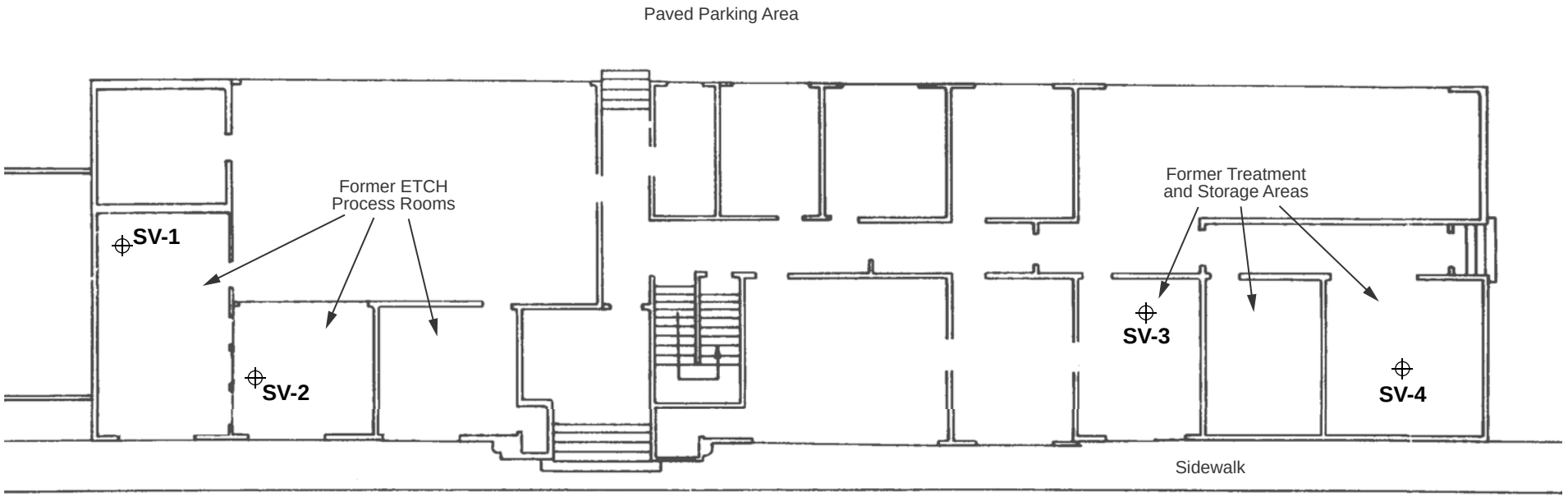
Approximate scale

SITE LOCATION MAP
Pacific Shops, Inc.
1829 Clement Avenue
Alameda, California

By: AP	Date: 08/11/2010	Project No. 14740.000
AMEC Geomatrix	Figure	**1**

S:\14700\14740\14740.000\task_2\10_0810_awp_fig_02(02).ai

S:\14700\14740\14740.000\task_2\10_0810_awp_fig_02(01).ai



LEGEND

⊕ Approximate location of soil vapor sample

Note:
Base map from Kaldveer Associates, Soil Cleanup Report, dated July 18, 1990.

0 15 feet

Approximate scale

SITE PLAN AND SOIL VAPOR SAMPLE LOCATIONS
Pacific Shops, Inc.
1829 Clement Avenue
Alameda, California

By: AP	Date: 08/30/2010	Project No. 14740.000
AMEC Geomatrix	Figure **2**	

ATTACHMENT A

Laboratory Analytical Reports and Sample Chain-of-Custody Records

Air Toxics LTD.
Laboratory Services Since 1989

10/8/2010
Ms. Avery Patton
AMEC Geomatrix Consultants
2101 Webster Street, 12th Floor

Oakland CA 94612

Project Name: Pacific Shops
Project #: 01474700000
Workorder #: 1009510R1

Dear Ms. Avery Patton

The following report includes the data for the above referenced project for sample(s) received on 9/23/2010 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: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1009510R1

Work Order Summary

CLIENT:	Ms. Avery Patton AMEC Geomatrix Consultants 2101 Webster Street, 12th Floor Oakland, CA 94612	**BILL TO:**	Accounts Payable - Bothell AMEC Geomatrix Consultants 11810 North Creek Parkway North Bothell, WA 98011
PHONE:	510-663-4100	**P.O. #**	
FAX:	510-663-4141	**PROJECT #**	01474700000 Pacific Shops
DATE RECEIVED:	09/23/2010	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	09/30/2010		
DATE REISSUED:	10/08/2010		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SV-1	Modified TO-15	2.4 "Hg	15 psi
02A	SV-20	Modified TO-15	2.0 "Hg	15 psi
03A	SV-2	Modified TO-15	2.0 "Hg	15 psi
04A	SV-3	Modified TO-15	2.4 "Hg	15 psi
05A	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Frumarn DATE: 10/08/10

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

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
AMEC Geomatrix Consultants
Workorder# 1009510R1

Four 1 Liter Summa Canister samples were received on September 22, 2010. 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

There were no analytical discrepancies.

THE WORK ORDER WAS REISSUED ON OCTOBER 08, 2010 TO CORRECT IDENTIFICATION OF THE FOLLOWING SAMPLE SV-2.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: SV-1

Lab ID#: 1009510R1-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	1.1	5.1	2.4	11
Ethanol	4.4	4.8	8.3	9.1
Acetone	4.4	44	10	100
Carbon Disulfide	1.1	2.4	3.4	7.6
Hexane	1.1	1.6	3.9	5.6
2-Butanone (Methyl Ethyl Ketone)	1.1	7.1	3.2	21
Cyclohexane	1.1	2.0	3.8	6.8
Benzene	1.1	4.8	3.5	16
4-Methyl-2-pentanone	1.1	14	4.5	56
Toluene	1.1	2.3	4.1	8.8
Tetrachloroethene	1.1	1.5	7.5	10

Client Sample ID: SV-20

Lab ID#: 1009510R1-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	1.1	6.2	2.4	14
Bromomethane	1.1	2.3	4.2	9.0
Ethanol	4.3	11	8.1	21
Acetone	4.3	98	10	230
2-Propanol	4.3	5.4	11	13
Carbon Disulfide	1.1	10	3.4	31
Methylene Chloride	1.1	1.4	3.8	4.7
Hexane	1.1	3.5	3.8	12
2-Butanone (Methyl Ethyl Ketone)	1.1	18	3.2	54
Chloroform	1.1	11	5.3	54
Cyclohexane	1.1	1.2	3.7	4.1
Benzene	1.1	3.0	3.4	9.8
Heptane	1.1	2.1	4.4	8.7
4-Methyl-2-pentanone	1.1	10	4.4	42
Toluene	1.1	2.0	4.1	7.5

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: SV-2

Lab ID#: 1009510R1-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	1.1	5.4	2.4	12
Bromomethane	1.1	2.1	4.2	8.2
Ethanol	4.3	11	8.1	20
Acetone	4.3	96	10	230
Carbon Disulfide	1.1	9.5	3.4	30
Methylene Chloride	1.1	1.4	3.8	5.0
Hexane	1.1	3.2	3.8	11
2-Butanone (Methyl Ethyl Ketone)	1.1	18	3.2	54
Tetrahydrofuran	1.1	1.2	3.2	3.5
Chloroform	1.1	11	5.3	52
Cyclohexane	1.1	2.1	3.7	7.4
Benzene	1.1	3.7	3.4	12
Heptane	1.1	2.1	4.4	8.6
4-Methyl-2-pentanone	1.1	9.2	4.4	38
Toluene	1.1	2.1	4.1	7.8
m,p-Xylene	1.1	1.2	4.7	5.2

Client Sample ID: SV-3

Lab ID#: 1009510R1-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	1.1	3.7	2.4	8.1
Ethanol	4.4	25	8.3	47
Acetone	4.4	32	10	75
Carbon Disulfide	1.1	3.2	3.4	10
Hexane	1.1	1.3	3.9	4.6
2-Butanone (Methyl Ethyl Ketone)	1.1	4.8	3.2	14
Chloroform	1.1	3.5	5.4	17
Benzene	1.1	3.2	3.5	10
4-Methyl-2-pentanone	1.1	7.1	4.5	29
Toluene	1.1	3.2	4.1	12

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: SV-3

Lab ID#: 1009510R1-04A

m,p-Xylene	1.1	1.4	4.8	6.3

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SV-1

Lab ID#: 1009510R1-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092827**	**Date of Collection:**	**9/22/10 1:20:00 PM**
Dil. Factor:	**2.20**	**Date of Analysis:**	**9/29/10 08:07 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.4	Not Detected
Freon 114	1.1	Not Detected	7.7	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	5.1	2.4	11
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	2.9	Not Detected
Freon 11	1.1	Not Detected	6.2	Not Detected
Ethanol	4.4	4.8	8.3	9.1
Freon 113	1.1	Not Detected	8.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.4	44	10	100
2-Propanol	4.4	Not Detected	11	Not Detected
Carbon Disulfide	1.1	2.4	3.4	7.6
3-Chloropropene	4.4	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	1.6	3.9	5.6
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	7.1	3.2	21
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Chloroform	1.1	Not Detected	5.4	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Cyclohexane	1.1	2.0	3.8	6.8
Carbon Tetrachloride	1.1	Not Detected	6.9	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.1	Not Detected
Benzene	1.1	4.8	3.5	16
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	Not Detected	5.9	Not Detected
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	14	4.5	56
Toluene	1.1	2.3	4.1	8.8
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	1.5	7.5	10

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SV-1

Lab ID#: 1009510R1-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092827**	**Date of Collection: 9/22/10 1:20:00 PM**	
Dil. Factor:	**2.20**	**Date of Analysis: 9/29/10 08:07 AM**	

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	Not Detected	4.8	Not Detected
m,p-Xylene	1.1	Not Detected	4.8	Not Detected
o-Xylene	1.1	Not Detected	4.8	Not Detected
Styrene	1.1	Not Detected	4.7	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.4	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.6	Not Detected
Propylbenzene	1.1	Not Detected	5.4	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.7	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	33	Not Detected
Hexachlorobutadiene	4.4	Not Detected	47	Not Detected

Container Type: 1 Liter Summa Canister

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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SV-20

Lab ID#: 1009510R1-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092828**	**Date of Collection:**	**9/22/10 11:15:00 AM**
Dil. Factor:	**2.16**	**Date of Analysis:**	**9/29/10 08:40 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.3	Not Detected
Freon 114	1.1	Not Detected	7.6	Not Detected
Chloromethane	4.3	Not Detected	8.9	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
1,3-Butadiene	1.1	6.2	2.4	14
Bromomethane	1.1	2.3	4.2	9.0
Chloroethane	1.1	Not Detected	2.8	Not Detected
Freon 11	1.1	Not Detected	6.1	Not Detected
Ethanol	4.3	11	8.1	21
Freon 113	1.1	Not Detected	8.3	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Acetone	4.3	98	10	230
2-Propanol	4.3	5.4	11	13
Carbon Disulfide	1.1	10	3.4	31
3-Chloropropene	4.3	Not Detected	14	Not Detected
Methylene Chloride	1.1	1.4	3.8	4.7
Methyl tert-butyl ether	1.1	Not Detected	3.9	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Hexane	1.1	3.5	3.8	12
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	18	3.2	54
cis-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Chloroform	1.1	11	5.3	54
1,1,1-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Cyclohexane	1.1	1.2	3.7	4.1
Carbon Tetrachloride	1.1	Not Detected	6.8	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.0	Not Detected
Benzene	1.1	3.0	3.4	9.8
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	2.1	4.4	8.7
Trichloroethene	1.1	Not Detected	5.8	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.0	Not Detected
1,4-Dioxane	4.3	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.2	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
4-Methyl-2-pentanone	1.1	10	4.4	42
Toluene	1.1	2.0	4.1	7.5
trans-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Tetrachloroethene	1.1	Not Detected	7.3	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SV-20

Lab ID#: 1009510R1-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092828**	**Date of Collection:**	**9/22/10 11:15:00 AM**
Dil. Factor:	**2.16**	**Date of Analysis:**	**9/29/10 08:40 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	4.3	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.2	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.3	Not Detected
Chlorobenzene	1.1	Not Detected	5.0	Not Detected
Ethyl Benzene	1.1	Not Detected	4.7	Not Detected
m,p-Xylene	1.1	Not Detected	4.7	Not Detected
o-Xylene	1.1	Not Detected	4.7	Not Detected
Styrene	1.1	Not Detected	4.6	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.3	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.4	Not Detected
Propylbenzene	1.1	Not Detected	5.3	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.3	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.6	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
Hexachlorobutadiene	4.3	Not Detected	46	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SV-2

Lab ID#: 1009510R1-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092829**	**Date of Collection:**	**9/22/10 12:30:00 PM**
Dil. Factor:	**2.16**	**Date of Analysis:**	**9/29/10 09:04 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.3	Not Detected
Freon 114	1.1	Not Detected	7.6	Not Detected
Chloromethane	4.3	Not Detected	8.9	Not Detected
Vinyl Chloride	1.1	Not Detected	2.8	Not Detected
1,3-Butadiene	1.1	5.4	2.4	12
Bromomethane	1.1	2.1	4.2	8.2
Chloroethane	1.1	Not Detected	2.8	Not Detected
Freon 11	1.1	Not Detected	6.1	Not Detected
Ethanol	4.3	11	8.1	20
Freon 113	1.1	Not Detected	8.3	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Acetone	4.3	96	10	230
2-Propanol	4.3	Not Detected	11	Not Detected
Carbon Disulfide	1.1	9.5	3.4	30
3-Chloropropene	4.3	Not Detected	14	Not Detected
Methylene Chloride	1.1	1.4	3.8	5.0
Methyl tert-butyl ether	1.1	Not Detected	3.9	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Hexane	1.1	3.2	3.8	11
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	18	3.2	54
cis-1,2-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Tetrahydrofuran	1.1	1.2	3.2	3.5
Chloroform	1.1	11	5.3	52
1,1,1-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Cyclohexane	1.1	2.1	3.7	7.4
Carbon Tetrachloride	1.1	Not Detected	6.8	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.0	Not Detected
Benzene	1.1	3.7	3.4	12
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	2.1	4.4	8.6
Trichloroethene	1.1	Not Detected	5.8	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.0	Not Detected
1,4-Dioxane	4.3	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.2	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
4-Methyl-2-pentanone	1.1	9.2	4.4	38
Toluene	1.1	2.1	4.1	7.8
trans-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Tetrachloroethene	1.1	Not Detected	7.3	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SV-2

Lab ID#: 1009510R1-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092829**	**Date of Collection:**	**9/22/10 12:30:00 PM**
Dil. Factor:	**2.16**	**Date of Analysis:**	**9/29/10 09:04 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	4.3	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.2	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.3	Not Detected
Chlorobenzene	1.1	Not Detected	5.0	Not Detected
Ethyl Benzene	1.1	Not Detected	4.7	Not Detected
m,p-Xylene	1.1	1.2	4.7	5.2
o-Xylene	1.1	Not Detected	4.7	Not Detected
Styrene	1.1	Not Detected	4.6	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.3	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.4	Not Detected
Propylbenzene	1.1	Not Detected	5.3	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.3	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.6	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
Hexachlorobutadiene	4.3	Not Detected	46	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SV-3

Lab ID#: 1009510R1-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092830**	**Date of Collection:**	**9/22/10 4:01:00 PM**
Dil. Factor:	**2.20**	**Date of Analysis:**	**9/29/10 09:30 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.4	Not Detected
Freon 114	1.1	Not Detected	7.7	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	3.7	2.4	8.1
Bromomethane	1.1	Not Detected	4.3	Not Detected
Chloroethane	1.1	Not Detected	2.9	Not Detected
Freon 11	1.1	Not Detected	6.2	Not Detected
Ethanol	4.4	25	8.3	47
Freon 113	1.1	Not Detected	8.4	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.4	32	10	75
2-Propanol	4.4	Not Detected	11	Not Detected
Carbon Disulfide	1.1	3.2	3.4	10
3-Chloropropene	4.4	Not Detected	14	Not Detected
Methylene Chloride	1.1	Not Detected	3.8	Not Detected
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	1.3	3.9	4.6
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	4.8	3.2	14
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	Not Detected	3.2	Not Detected
Chloroform	1.1	3.5	5.4	17
1,1,1-Trichloroethane	1.1	Not Detected	6.0	Not Detected
Cyclohexane	1.1	Not Detected	3.8	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.9	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.1	Not Detected
Benzene	1.1	3.2	3.5	10
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Heptane	1.1	Not Detected	4.5	Not Detected
Trichloroethene	1.1	Not Detected	5.9	Not Detected
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	7.1	4.5	29
Toluene	1.1	3.2	4.1	12
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	Not Detected	7.5	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SV-3

Lab ID#: 1009510R1-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092830**	**Date of Collection:**	**9/22/10 4:01:00 PM**
Dil. Factor:	**2.20**	**Date of Analysis:**	**9/29/10 09:30 AM**

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	Not Detected	4.8	Not Detected
m,p-Xylene	1.1	1.4	4.8	6.3
o-Xylene	1.1	Not Detected	4.8	Not Detected
Styrene	1.1	Not Detected	4.7	Not Detected
Bromoform	1.1	Not Detected	11	Not Detected
Cumene	1.1	Not Detected	5.4	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.6	Not Detected
Propylbenzene	1.1	Not Detected	5.4	Not Detected
4-Ethyltoluene	1.1	Not Detected	5.4	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.4	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.7	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.6	Not Detected
1,2,4-Trichlorobenzene	4.4	Not Detected	33	Not Detected
Hexachlorobutadiene	4.4	Not Detected	47	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1009510R1-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092807**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/28/10 05:43 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
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#: 1009510R1-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092807**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/28/10 05:43 PM**	

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

Container Type: NA - Not Applicable

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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1009510R1-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/28/10 03:03 PM**	

Compound	%Recovery
Freon 12	113
Freon 114	103
Chloromethane	114
Vinyl Chloride	114
1,3-Butadiene	99
Bromomethane	112
Chloroethane	107
Freon 11	102
Ethanol	117
Freon 113	100
1,1-Dichloroethene	105
Acetone	102
2-Propanol	105
Carbon Disulfide	111
3-Chloropropene	106
Methylene Chloride	110
Methyl tert-butyl ether	94
trans-1,2-Dichloroethene	102
Hexane	96
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	98
cis-1,2-Dichloroethene	99
Tetrahydrofuran	97
Chloroform	101
1,1,1-Trichloroethane	95
Cyclohexane	92
Carbon Tetrachloride	95
2,2,4-Trimethylpentane	99
Benzene	102
1,2-Dichloroethane	104
Heptane	98
Trichloroethene	99
1,2-Dichloropropane	96
1,4-Dioxane	100
Bromodichloromethane	103
cis-1,3-Dichloropropene	100
4-Methyl-2-pentanone	93
Toluene	99
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	101
Tetrachloroethene	100

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1009510R1-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/28/10 03:03 PM**	

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

Container Type: NA - Not Applicable

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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1009510R1-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/28/10 03:37 PM**	

Compound	%Recovery
Freon 12	110
Freon 114	102
Chloromethane	108
Vinyl Chloride	109
1,3-Butadiene	100
Bromomethane	118
Chloroethane	112
Freon 11	102
Ethanol	103
Freon 113	93
1,1-Dichloroethene	91
Acetone	94
2-Propanol	98
Carbon Disulfide	105
3-Chloropropene	102
Methylene Chloride	97
Methyl tert-butyl ether	97
trans-1,2-Dichloroethene	99
Hexane	97
1,1-Dichloroethane	97
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	99
Tetrahydrofuran	99
Chloroform	100
1,1,1-Trichloroethane	98
Cyclohexane	96
Carbon Tetrachloride	99
2,2,4-Trimethylpentane	100
Benzene	103
1,2-Dichloroethane	102
Heptane	100
Trichloroethene	101
1,2-Dichloropropane	98
1,4-Dioxane	102
Bromodichloromethane	104
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	96
Toluene	97
trans-1,3-Dichloropropene	107
1,1,2-Trichloroethane	105
Tetrachloroethene	103

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1009510R1-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/28/10 03:37 PM**	

Compound	%Recovery
2-Hexanone	105
Dibromochloromethane	106
1,2-Dibromoethane (EDB)	108
Chlorobenzene	104
Ethyl Benzene	103
m,p-Xylene	104
o-Xylene	103
Styrene	107
Bromoform	110
Cumene	103
1,1,2,2-Tetrachloroethane	106
Propylbenzene	103
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	103
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	106
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	107

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1009510R1-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/28/10 04:01 PM**	

Compound	%Recovery
Freon 12	100
Freon 114	104
Chloromethane	106
Vinyl Chloride	101
1,3-Butadiene	103
Bromomethane	103
Chloroethane	95
Freon 11	107
Ethanol	97
Freon 113	98
1,1-Dichloroethene	91
Acetone	92
2-Propanol	99
Carbon Disulfide	103
3-Chloropropene	101
Methylene Chloride	93
Methyl tert-butyl ether	104
trans-1,2-Dichloroethene	98
Hexane	103
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	102
cis-1,2-Dichloroethene	98
Tetrahydrofuran	101
Chloroform	103
1,1,1-Trichloroethane	104
Cyclohexane	102
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	106
Benzene	104
1,2-Dichloroethane	103
Heptane	102
Trichloroethene	101
1,2-Dichloropropane	101
1,4-Dioxane	106
Bromodichloromethane	105
cis-1,3-Dichloropropene	104
4-Methyl-2-pentanone	98
Toluene	100
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	105
Tetrachloroethene	103

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1009510R1-07AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/28/10 04:01 PM**	

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

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Darren Croteau

Collected by: (Print and Sign) Avery Patton

Company AMEC Geomatrix, Inc Email darren.croteau@amec.com

Address 2101 Webster St, 12th Fl City Oakland State CA Zip 94612

Phone 510-663-4100 Fax 510-663-4141

Project Info:

P.O. #

Project # 014740000

Project Name Pacific Shops

Turn Around Time:

- ☐ Normal
- ☐ Rush
- PS call (specify)

Lab Use Only

Pressurized by: VGR

Date: 9/23/10

Pressurization Gas: (N$_2$) He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	SV-1	2817	9/22/10	1320	TO-15	-30	-3	2.4"Hg	15psi
02A	SV-20	2665	↓	1115	↓	-30	-3	2.0"Hg	↓
~~03A~~ 03A (9/23/10 mc)	SV-2	1457	↓	1230	↓	-30	-3	2.0"Hg	↓
04A	SV-3	2566	↓	1601	↓	-30	-3	2.4"Hg	↓

AWP

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	Notes:
[signature] 9/22/10 @ 1615	[signature] 9/22/10 1615	TO-15 full scan
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	ATL DROP OFF		N/A	GOOD	Yes No (None)	1009510

Air Toxics LTD.
Laboratory Services Since 1989

10/12/2010
Ms. Avery Patton
AMEC Geomatrix Consultants
2101 Webster Street, 12th Floor

Oakland CA 94612

Project Name: Pacific Shops
Project #: 0147400000
Workorder #: 1009238R1

Dear Ms. Avery Patton

The following report includes the data for the above referenced project for sample(s) received on 9/13/2010 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: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 1009238R1

Work Order Summary

CLIENT:	Ms. Avery Patton AMEC Geomatrix Consultants 2101 Webster Street, 12th Floor Oakland, CA 94612	**BILL TO:**	Accounts Payable - Bothell AMEC Geomatrix Consultants 11810 North Creek Parkway North Bothell, WA 98011
PHONE:	510-663-4100	**P.O. #**	
FAX:	510-663-4141	**PROJECT #**	0147400000 Pacific Shops
DATE RECEIVED:	09/13/2010	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	09/15/2010		
DATE REISSUED:	10/12/2010		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A(on hold)	SV-1	Modified TO-15	16.0 "Hg	15 psi
02A(on hold)	SV-2	Modified TO-15	16.0 "Hg	15 psi
03A	SV-4	Modified TO-15	3.0 "Hg	15 psi
04A	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA
06AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Linda J. Fruman DATE: 10/12/10

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

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
AMEC Geomatrix Consultants
Workorder# 1009238R1

Three 1 Liter Summa Canister samples were received on September 13, 2010. 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

Samples SV-1 and SV-2 were placed on hold per the client's request.

Analytical Notes

There were no analytical discrepancies.

THE WORK ORDER WAS RE-ISSUED ON 10/12/2010 TO REMOVE AN INCORRECT RECEIVING NARRATIVE.

Definition of Data Qualifying Flags

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

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

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

Air Toxics LTD.
Laboratory Services Since 1989

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

Client Sample ID: SV-4

Lab ID#: 1009238R1-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	1.1	9.9	2.5	22
Bromomethane	1.1	2.2	4.3	8.7
Ethanol	4.5	8.1	8.4	15
Acetone	4.5	46	11	110
Carbon Disulfide	1.1	6.2	3.5	19
Methylene Chloride	1.1	1.5	3.9	5.1
Hexane	1.1	4.8	3.9	17
2-Butanone (Methyl Ethyl Ketone)	1.1	8.0	3.3	23
Tetrahydrofuran	1.1	1.2	3.3	3.6
Chloroform	1.1	59	5.5	290
Cyclohexane	1.1	2.4	3.8	8.4
Benzene	1.1	3.5	3.6	11
Heptane	1.1	2.9	4.6	12
4-Methyl-2-pentanone	1.1	17	4.6	70
Toluene	1.1	6.6	4.2	25
Ethyl Benzene	1.1	1.4	4.9	5.9
m,p-Xylene	1.1	4.5	4.9	19
o-Xylene	1.1	1.6	4.9	7.1
4-Ethyltoluene	1.1	1.9	5.5	9.2
1,2,4-Trimethylbenzene	1.1	2.2	5.5	11

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SV-4

Lab ID#: 1009238R1-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p091409**	**Date of Collection:**	**9/10/10 2:49:00 PM**
Dil. Factor:	**2.24**	**Date of Analysis:**	**9/14/10 03:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.5	Not Detected
Freon 114	1.1	Not Detected	7.8	Not Detected
Chloromethane	4.5	Not Detected	9.2	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	9.9	2.5	22
Bromomethane	1.1	2.2	4.3	8.7
Chloroethane	1.1	Not Detected	3.0	Not Detected
Freon 11	1.1	Not Detected	6.3	Not Detected
Ethanol	4.5	8.1	8.4	15
Freon 113	1.1	Not Detected	8.6	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Acetone	4.5	46	11	110
2-Propanol	4.5	Not Detected	11	Not Detected
Carbon Disulfide	1.1	6.2	3.5	19
3-Chloropropene	4.5	Not Detected	14	Not Detected
Methylene Chloride	1.1	1.5	3.9	5.1
Methyl tert-butyl ether	1.1	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Hexane	1.1	4.8	3.9	17
1,1-Dichloroethane	1.1	Not Detected	4.5	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.1	8.0	3.3	23
cis-1,2-Dichloroethene	1.1	Not Detected	4.4	Not Detected
Tetrahydrofuran	1.1	1.2	3.3	3.6
Chloroform	1.1	59	5.5	290
1,1,1-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Cyclohexane	1.1	2.4	3.8	8.4
Carbon Tetrachloride	1.1	Not Detected	7.0	Not Detected
2,2,4-Trimethylpentane	1.1	Not Detected	5.2	Not Detected
Benzene	1.1	3.5	3.6	11
1,2-Dichloroethane	1.1	Not Detected	4.5	Not Detected
Heptane	1.1	2.9	4.6	12
Trichloroethene	1.1	Not Detected	6.0	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.2	Not Detected
1,4-Dioxane	4.5	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.5	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
4-Methyl-2-pentanone	1.1	17	4.6	70
Toluene	1.1	6.6	4.2	25
trans-1,3-Dichloropropene	1.1	Not Detected	5.1	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.1	Not Detected
Tetrachloroethene	1.1	Not Detected	7.6	Not Detected

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: SV-4

Lab ID#: 1009238R1-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p091409**	**Date of Collection: 9/10/10 2:49:00 PM**	
Dil. Factor:	**2.24**	**Date of Analysis: 9/14/10 03:04 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
2-Hexanone	4.5	Not Detected	18	Not Detected
Dibromochloromethane	1.1	Not Detected	9.5	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.6	Not Detected
Chlorobenzene	1.1	Not Detected	5.2	Not Detected
Ethyl Benzene	1.1	1.4	4.9	5.9
m,p-Xylene	1.1	4.5	4.9	19
o-Xylene	1.1	1.6	4.9	7.1
Styrene	1.1	Not Detected	4.8	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.5	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.7	Not Detected
Propylbenzene	1.1	Not Detected	5.5	Not Detected
4-Ethyltoluene	1.1	1.9	5.5	9.2
1,3,5-Trimethylbenzene	1.1	Not Detected	5.5	Not Detected
1,2,4-Trimethylbenzene	1.1	2.2	5.5	11
1,3-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.8	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.7	Not Detected
1,2,4-Trichlorobenzene	4.5	Not Detected	33	Not Detected
Hexachlorobutadiene	4.5	Not Detected	48	Not Detected

Container Type: 1 Liter Summa Canister

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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 1009238R1-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p091406**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/10 12:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
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#: 1009238R1-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p091406**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/10 12:03 PM**	

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

Container Type: NA - Not Applicable

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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1009238R1-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p091402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/10 09:34 AM**	

Compound	%Recovery
Freon 12	101
Freon 114	100
Chloromethane	98
Vinyl Chloride	100
1,3-Butadiene	100
Bromomethane	113
Chloroethane	100
Freon 11	99
Ethanol	120
Freon 113	99
1,1-Dichloroethene	101
Acetone	88
2-Propanol	99
Carbon Disulfide	90
3-Chloropropene	102
Methylene Chloride	99
Methyl tert-butyl ether	106
trans-1,2-Dichloroethene	101
Hexane	103
1,1-Dichloroethane	101
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	101
Tetrahydrofuran	104
Chloroform	101
1,1,1-Trichloroethane	102
Cyclohexane	102
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	100
Benzene	101
1,2-Dichloroethane	103
Heptane	104
Trichloroethene	101
1,2-Dichloropropane	102
1,4-Dioxane	103
Bromodichloromethane	103
cis-1,3-Dichloropropene	105
4-Methyl-2-pentanone	109
Toluene	101
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	102
Tetrachloroethene	102

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 1009238R1-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p091402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/10 09:34 AM**	

Compound	%Recovery
2-Hexanone	109
Dibromochloromethane	105
1,2-Dibromoethane (EDB)	102
Chlorobenzene	100
Ethyl Benzene	103
m,p-Xylene	103
o-Xylene	102
Styrene	103
Bromoform	103
Cumene	103
1,1,2,2-Tetrachloroethane	99
Propylbenzene	102
4-Ethyltoluene	102
1,3,5-Trimethylbenzene	93
1,2,4-Trimethylbenzene	97
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	108
1,2-Dichlorobenzene	97
1,2,4-Trichlorobenzene	95
Hexachlorobutadiene	97

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1009238R1-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p091403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/10 10:18 AM**	

Compound	%Recovery
Freon 12	102
Freon 114	102
Chloromethane	98
Vinyl Chloride	102
1,3-Butadiene	102
Bromomethane	117
Chloroethane	101
Freon 11	100
Ethanol	108
Freon 113	90
1,1-Dichloroethene	92
Acetone	85
2-Propanol	95
Carbon Disulfide	90
3-Chloropropene	102
Methylene Chloride	92
Methyl tert-butyl ether	105
trans-1,2-Dichloroethene	101
Hexane	103
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	100
Tetrahydrofuran	103
Chloroform	99
1,1,1-Trichloroethane	102
Cyclohexane	104
Carbon Tetrachloride	102
2,2,4-Trimethylpentane	101
Benzene	99
1,2-Dichloroethane	98
Heptane	102
Trichloroethene	101
1,2-Dichloropropane	102
1,4-Dioxane	101
Bromodichloromethane	101
cis-1,3-Dichloropropene	107
4-Methyl-2-pentanone	106
Toluene	96
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	101
Tetrachloroethene	99

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 1009238R1-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p091403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/10 10:18 AM**	

Compound	%Recovery
2-Hexanone	105
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	105
Chlorobenzene	101
Ethyl Benzene	104
m,p-Xylene	103
o-Xylene	102
Styrene	103
Bromoform	104
Cumene	100
1,1,2,2-Tetrachloroethane	101
Propylbenzene	100
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	94
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	98
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	107
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	94
Hexachlorobutadiene	100

Container Type: NA - Not Applicable

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

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1009238R1-06AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p091404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/10 10:35 AM**	

Compound	%Recovery
Freon 12	104
Freon 114	104
Chloromethane	102
Vinyl Chloride	104
1,3-Butadiene	104
Bromomethane	122
Chloroethane	105
Freon 11	102
Ethanol	92
Freon 113	92
1,1-Dichloroethene	93
Acetone	86
2-Propanol	96
Carbon Disulfide	92
3-Chloropropene	102
Methylene Chloride	94
Methyl tert-butyl ether	107
trans-1,2-Dichloroethene	103
Hexane	105
1,1-Dichloroethane	99
2-Butanone (Methyl Ethyl Ketone)	100
cis-1,2-Dichloroethene	101
Tetrahydrofuran	105
Chloroform	100
1,1,1-Trichloroethane	104
Cyclohexane	105
Carbon Tetrachloride	105
2,2,4-Trimethylpentane	108
Benzene	102
1,2-Dichloroethane	100
Heptane	106
Trichloroethene	102
1,2-Dichloropropane	104
1,4-Dioxane	103
Bromodichloromethane	103
cis-1,3-Dichloropropene	108
4-Methyl-2-pentanone	104
Toluene	97
trans-1,3-Dichloropropene	111
1,1,2-Trichloroethane	106
Tetrachloroethene	104

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCSD

Lab ID#: 1009238R1-06AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p091404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/14/10 10:35 AM**	

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

Container Type: NA - Not Applicable

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

@ Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager: Darren Croteau
Collected by: (Print and Sign) Avery Patton
Company: AMEC Geomatrix
Email: darren.croteau@amec.com
Address: 2101 Webster St, 12th Fl
City: Oakland
State: CA
Zip: 94612
Phone: 510-663-4100
Fax: 510-663-4141

Project Info: Pls run on 2-day TAT
P.O. #
Project #: 0147400000
Project Name: Pacific Shops

Turn Around Time:
~~☒ Normal~~
☒ Rush (~~may need Rush~~) 2-day — specify

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

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	SV-1	2001	9/10/10	1120	HOLD	-30	-17.5		
02A	SV-2	2186	↓	1320	HOLD	-26	-17.5		
03A	SV-4	3292	↓	1449	TO-15	-29	-3		

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
[signature] 9/10/10 @ 1737	Monica Gregsen ATL 9/13/10 0905
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time

Notes: Pls run on 2-day rush turnaround. Pls hold samples SV-1 and SV-2, and run SV-4

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fed Ex		NA	Good	Yes No (None)	1009238

Form 1293 rev.11