CONESTOGA-ROVERS & ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
www.CRAworld.com

TRANSMITTAL

DATE: October 27, 2008

REFERENCE NO.: 240612

PROJECT NAME: 1784 150th Avenue, San Leandro

TO: Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

RECEIVED
2:16 pm, Oct 27, 2008
Alameda County
Environmental Health

Please find enclosed:
- ☐ Draft
- ☐ Originals
- ☐ Prints
- ☒ Final
- ☐ Other

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- ☒ Mail
- ☐ Overnight Courier
- ☐ Same Day Courier
- ☐ Other

QUANTITY	DESCRIPTION
	Soil Vapor Probe Sampling Report

- ☐ As Requested
- ☐ For Your Use
- ☒ For Review and Comment
- ☐
- ☐

COMMENTS:

Copy to: Denis Brown
SF Data Room

Completed by: Peter Schaefer [Please Print]

Signed: Peter Schaefer

Filing: **Correspondence File**

Denis L. Brown
Shell Oil Products US
HSE - Environmental Services
20945 S. Wilmington Ave.
Carson, CA 90810-1039
Tel (707) 865 0251
Fax (707) 865 2542
Email denis.l.brown@shell.com

Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Shell-branded Service Station
1784 150th Avenue
San Leandro, California
SAP Code 136019
Incident #98996068
ACHCSA Case No. 0367

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

Denis L. Brown
Project Manager

SOIL VAPOR PROBE SAMPLING REPORT

SHELL-BRANDED SERVICE STATION
1784 150TH AVENUE
SAN LEANDRO, CALIFORNIA

SAP CODE 136019
INCIDENT NO. 98996068
AGENCY NO. RO0000367

Prepared by:
Conestoga-Rovers & Associates

5900 Hollis Street, Suite A
Emeryville, California
U.S.A. 94608

Office: (510) 420-0700
Fax: (510) 420-9170

web: http:\\www.CRAworld.com

OCTOBER 24, 2008
REF. NO. 240612 (1)
This report is printed on recycled paper.

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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) to present the recent soil vapor probe sampling results. Alameda County Health Care Services Agency's (ACHCSA's) June 27, 2008 letter requested this sampling event.

The site is an operating Shell-branded service station located at the southern corner of the 150th Avenue and Freedom Avenue intersection in San Leandro, California (Figure 1). The area surrounding the site is mixed commercial and residential. The site layout (Figure 2) includes a station building, two dispenser islands, and three fuel underground storage tanks (USTs). One waste oil UST was removed from the site on May 25, 2006.

A summary of previous work performed at the site and additional background information was submitted in CRA's December 19, 2007 *Supplemental Subsurface Investigation Report*, and is not repeated herein.

2.0 SOIL VAPOR PROBE SAMPLING PROCEDURES

2.1 PERSONNEL PRESENT

CRA Staff Geologist Carmen Rodriguez sampled the soil vapor probes in May 2008 and CRA Staff Geologist Lauren Goldfinch sampled the soil vapor probes in September 2008, under the supervision of California Professional Geologist Peter Schaefer.

2.2 SOIL VAPOR SAMPLING

On May 20, 2008 CRA sampled soil vapor probes SVP-1 through SVP-3, and on September 17, 2008 CRA sampled soil vapor probes SVP-1 through SVP-3 and SVP-5 according to CRA's soil vapor probe sampling protocol, included as Appendix A. During the May 20, 2008 sampling event, SVP-4 and SVP-5 could not be sampled because water was present in the probes' Teflon tubing, and during the September 17, 2008 sampling event, SVP-4 could not be sampled for the same reason. Several attempts were made to clear the water from SVP-4 without success. Soil vapor sampling and leak testing were performed following Department of Toxic Substances Control's January 28, 2003 *Advisory-Active Soil Gas Investigation* guidelines. Paper towels with shaving cream were placed at sample system connections for the leak test.

Purging and sampling were conducted at a rate of approximately 200 milliliters per minute. Vapor samples were collected in 1-liter Summa™ canisters after removing approximately three purge volumes from the screen interval. Each sample was labeled, documented on a chain-of-custody, and submitted to Air Toxics Ltd. in Folsom, California for analysis.

2.3 SOIL VAPOR SAMPLING ANALYSIS

Soil vapor samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by EPA Method TO-3 (modified) and benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tertiary-butyl ether (MTBE), and tracer compounds isobutane, butane, and propane (as tentatively identified compounds) by modified EPA Method TO-15. These tracer compounds were identified by EPA Method TO-15 as the most abundant compounds of the specific shaving cream analyzed and indicated by distinctive peaks on the petroleum hydrocarbon chromatograph, separate from TPH in the gasoline range. The laboratory analytical reports are provided in Appendix B.

3.0 SOIL VAPOR PROBE SAMPLING RESULTS

Soil vapor samples collected on May 20, 2008 contained up to 830 micrograms per cubic meter ($\mu g/m^3$) TPHg from SVP-2 (SVP-4 and SVP-5 could not be sampled due to water in the sampling tubing). No other constituents of concern were detected. Leak testing was performed during sampling using shaving cream to determine if ambient air was entering the Summa™ canisters during sampling by recognizing if the specific leak test compounds were identified in the chemical analysis. None of these compounds were detected

Soil vapor samples collected on September 17, 2008 contained up to 280,000 $\mu g/m^3$ TPHg, 260 $\mu g/m^3$ benzene, 780 $\mu g/m^3$ toluene, 14,000 $\mu g/m^3$ ethylbenzene, 48,000 $\mu g/m^3$ xylenes, and 290 $\mu g/m^3$ MTBE from SVP-5 (SVP-4 could not be sampled due to water in the sampling tubing). Leak testing was performed, and isobutane was detected in the sample from SVP-5. The concentration reported was 880 $\mu g/m^3$, an amount considered negligible when compared with the amount in the tracer gas compound (approximately 350,000 $\mu g/m^3$ in shaving cream).

Table 1 summarizes the soil vapor analytical data from both events, TPHg, benzene, and MTBE results from the September 17, 2008 sampling event are shown on Figure 2, and the laboratory analytical reports for both sampling events are presented in Appendix B.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Soil vapor sample concentrations detected during the May 20, 2008 sampling event were all below San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for residential and commercial land use.

Soil vapor sample concentrations in SVP-5 detected during the September 17, 2008 sampling event exceed the ESLs for residential and commercial land use for TPHg and ethylbenzene. Benzene and xylenes concentrations in SVP-5 exceed residential RWQCB ESLs.

Soil vapor sample concentrations in on-site probes have been below the residential land use RWQCB ESLs with the exception of TPHg in probes SVP-1 and SVP-4 during the September 2007 sampling event, and all concentrations of constituents of concern have been below the commercial land use RWQCB ESLs during all four events.

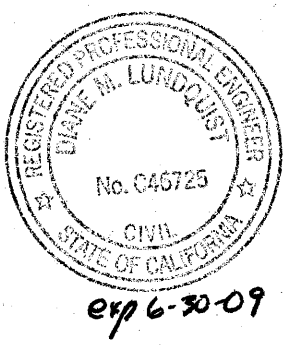
In off-site probe SVP-5 TPHg concentrations exceeded residential and commercial land use RWQCB ESLs 5 in two of the four events, ethylbenzene concentrations exceeded residential and commercial land use RWQCB ESLs during the September 17, 2008 event only, and benzene and xylenes concentrations exceeded residential land use RWQCB ESLs during the September 17, 2008 event only (SVP-5 could not be sampled during the May 20, 2008 event due to water in the sampling tubing).

Pilot testing of multi-phase extraction is currently scheduled for the first 2 weeks of November 2008. CRA recommends an additional round of sampling the soil vapor probes following the pilot test.

All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer, CEG, CHG
Project Manager

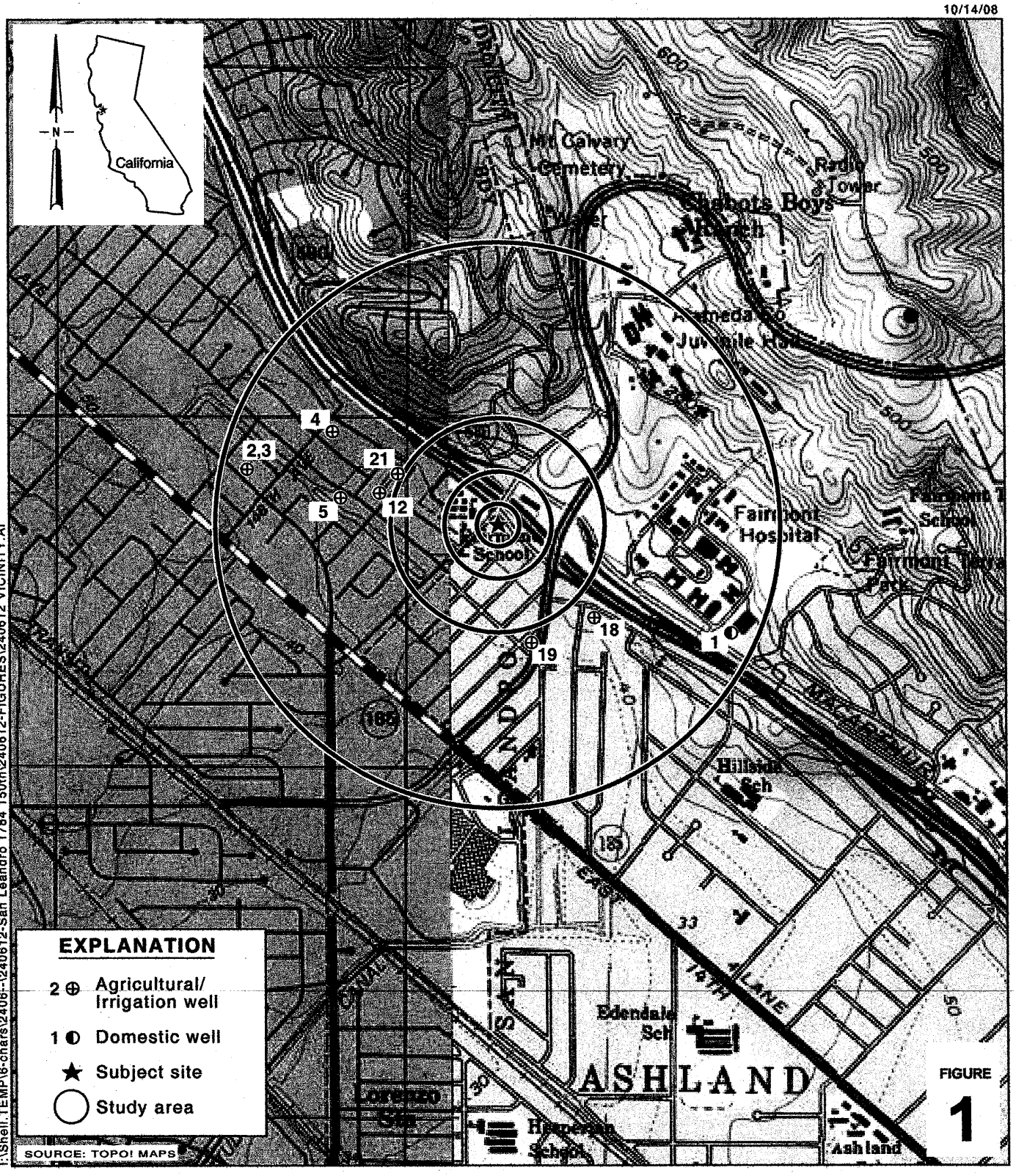
Aubrey K. Cool, PG
Professional Geologist



exp 6-30-09

FIGURES

10/14/08



0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

FIGURE 1

I:\Shell,TEMP\6-chars\2406--\240612-San Leandro 1784 150th\240612-FIGURES\240612 VICINITY.AI

Shell-branded Service Station

1784 150th Avenue

San Leandro, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

10/14/08

Soil Vapor Data Map

September 17, 2008

EXPLANATION

- CPT-1 — CPT location (CRA, 8/29-30/07)
- B-1 — Soil boring location (CRA, 9/14/07)
- SVP-1 — Soil vapor probe location (CRA, 8/28/07)
- WO-1-6.5 — Soil sample location (Cambria, 5/25/06)
- S-19 — Soil boring location (Cambria, 5/23-25/06)
- MW-4 — Monitoring well location
- MW-6 — Monitoring well location
- D-1-5.0 — Soil sample location (Cambria, 04/05/05)
- D-1-3.5 — Soil sample location (Cambria, 03/22/05)
- SB-17 — Soil boring location (Cambria, 9/04)
- SB-10 — Soil boring location (Cambria, 6/03)
- SB-9 — Soil boring location (Cambria, 10/02)
- SVS-11 — Soil boring location (Cambria, 11/98)
- SVS-1 — Soil boring location (Cambria, 7/96)
- BH-7 — Soil boring location (Weiss, 3/95)
- A — Dispenser soil sample location (Weiss, 3/95)
- BH-1 — Soil boring location (Weiss, 6/94)
- Dispenser number
- Product piping

SVP-1
TPHg
Benz.
Toluene
Ethyl.
Xylenes
MTBE

Soil Vapor Sample ID

Soil vapor TPHg, benzene, toluene, ethylbenzene, total xylenes, and MTBE concentrations, in µg/m ^{3}

Notes:
NS = Not sampled
<X = Not detected at reporting limit X

I-580

I-580 OFF-RAMP

FREEDOM AVENUE

PORTOFINO CIRCLE

PORTOFINO DRIVE

150TH AVENUE

BH-1 located 215' SE

BH-6 located 360' SE

BH-2

BH-4

BH-5

BH-7

BH-8

BH-9

Shell Station
1784 150th Ave.

Former Dispenser Island

Station Building

parking lot

Denny's Restaurant
15015 Freedom Ave.

brick sound wall

Residential

Residential (Townhouses)

Private (Gated Driveway)

MH

air comp.

Former W/O UST

USTs

SB-10 SB-11 SB-12 SB-13 SB-14 SB-15 SB-16 SB-17 SB-18 SB-19 SB-20 SB-21 SB-22 SB-23 SB-24/MW-12 SB-25/MW-13

MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8 MW-9 MW-10 MW-11

CPT-1 CPT-2 CPT-3 CPT-5 CPT-6

SVS-1 SVS-2 SVS-3 SVS-4 SVS-5 SVS-6 SVS-7 SVS-8 SVS-9 SVS-10 SVS-11 SVS-12 SVS-13 SVS-14 SVS-15 SVS-16

B-1 SVP-4 NS

SVP-5
280,000
260
780
14,000
48,000
290

SVP-1
<270
<4.2
5.7
<5.7
<5.7
<4.8

SVP-2
<240
<3.8
<4.5
<5.2
<5.2
<4.3

SVP-3
<340
<5.4
<6.3
<7.3
<7.3
<6.1

P-1-2.5, P-1-5.0, D-4-3.5, D-4-5.0, P-2-3.5, P-2-5.0, D-2-3.5, D-2-5.0, D-3-3.5, P-3-3.0, D-1-3.5, D-1-5.0, P-4-2.5, P-4-5.0, A, B, C, D, W

0 20 40 80
Scale (ft)

FIGURE
2

Shell-branded Service Station
1784 150th Avenue
San Leandro, California

CONESTOGA-ROVERS & ASSOCIATES

I:\Shell.TEMP\6-chars\2406--\240612-San Leandro 1784 150th\240612-REPORTS\240612-RPT1-SVM\240612 SOIL VAPOR DATA 9-08.DWG

TABLES

TABLE 1

SOIL VAPOR ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
1784 150TH AVENUE, SAN LEANDRO, CALIFORNIA

Sample ID	*Date*	*TPHg*		*Benzene*		*Toluene*		*Ethylbenzene*		*Total Xylenes*		*MTBE*		*Butane* [a]		*Isobutane* [a]		*Propane* [a]	
		ppmv	*µg/m³*	*ppbv*	*µg/m³*	*ppbv*	*µg/m³*	*ppbv*	*µg/m³*	*ppbv*	*µg/m³*	*ppbv*	*µg/m³*	*ppbv*	*µg/m³*	*ppbv*	*µg/m³*	*ppbv*	*µg/m³*
SVP-1	9/25/2007	3.0	**12,000**	<5.4	<17	1,900	7,000	28	120	67	300	<5.4	<19	28	67	ND	ND	ND	ND
SVP-1	3/5/2008	<4,800	<17,000	2.6	8.2	350	1,300	9.4	41	22	95	<2.8	<10	ND	ND	29.5	70.12	ND	ND
SVP-1 DUP [d]	3/5/2008	<5,100	<18,000	2.5	7.9	110	400	7.4	32	15	65	<3.0	<11	ND	ND	26.5	62.99	ND	ND
SVP-1	5/20/2008	0.15	620	<1.2	<3.9	<1.2	<4.6	<1.2	<5.2	<1.2	<5.2	<1.2	<4.4	ND	ND	ND	ND	ND	ND
SVP-1	9/17/2008	<0.066	<270	<1.3	<4.2	1.5	5.7	<1.3	<5.7	<1.3	<5.7	<1.3	<4.8	ND	ND	ND	ND	ND	ND
SVP-2	9/25/2007	0.19	760	3.4	11	24	90	3.1	14	13	56	6.5	24	ND	ND	ND	ND	ND	ND
SVP-2	3/5/2008	<5,400	<19,000	<0.85	<2.7	<0.82	<3.1	<0.83	<3.6	<1.7	<7.3	<3.3	<12	ND	ND	ND	ND	ND	ND
SVP-2	5/20/2008	0.20	830	<2.0	<6.4	<2.0	<7.6	<2.0	<8.8	<2.0	<8.8	<2.0	<7.3	ND	ND	ND	ND	ND	ND
SVP-2	9/17/2008	<0.060	<240	<1.2	<3.8	<1.2	<4.5	<1.2	<5.2	<1.2	<5.2	<1.2	<4.3	ND	ND	ND	ND	ND	ND
SVP-2 DUP [d]	9/17/2008	<0.057	<230	<1.1	<3.6	<1.1	<4.3	<1.1	<5.0	<1.1	<5.0	<1.1	<4.1	ND	ND	ND	ND	ND	ND
SVP-3	9/25/2007	0.074	300	<1.4	<4.4	<1.4	<5.2	<1.4	<6.0	<1.4	<6.0	<1.4	<5.0	ND	ND	ND	ND	ND	ND
SVP-3 DUP [d]	9/25/2007	<0.064	<260	<1.3	<4.1	<1.3	<4.9	<1.3	<5.6	<1.3	<5.6	<1.3	<4.6	ND	ND	ND	ND	ND	ND
SVP-3	3/5/2008	<5,700	<20,000	1.2	3.9	8.5	32	1.8	7.8	8.7	38	3.6	13	ND	ND	ND	ND	ND	ND
SVP-3	5/20/2008	0.093	380	<1.2	<3.9	<1.2	<4.6	<1.2	<5.4	<1.2	<5.4	<1.2	<4.4	ND	ND	ND	ND	ND	ND
SVP-3	9/17/2008	<0.084	<340	<1.7	<5.4	<1.7	<6.3	<1.7	<7.3	<1.7	<7.3	<1.7	<6.1	ND	ND	ND	ND	ND	ND
SVP-4	9/25/2007	3.0	**12,000**	<1.2	<3.9	3.4	13	1.4	6.3	7.2	31	<1.2	<4.4	300	713	ND	ND	ND	ND
SVP-5	9/25/2007	17	**70,000**	<18	<56	<18	<66	<18	<76	<18	<76	<18	<63	ND	ND	ND	ND	ND	ND
SVP-5	3/5/2008	<4,800	<17,000	<0.72	<2.3	0.72	2.7	<0.71	<3.1	<1.5	<6.3	<2.8	<10	ND	ND	9.3	22.11	ND	ND
SVP-5	9/17/2008	68	**280,000**	82	**260**	210	780	3,300	**14,000**	11,000	**48,000**	80	290	3,600 [b]	8,600 [b]	370 [b]	880 [b]	ND	ND
Residential Land Use ESL [c]:		—	10,000	—	84	—	63,000	—	980	—	21,000	—	9,400	—		—		—	—
Commercial/Industrial Land Use ESLs [e]:		—	29,000	—	280	—	180,000	—	3,300	—	58,000	—	31,000	—		—		—	—

TABLE 1

SOIL VAPOR ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
1784 150TH AVENUE, SAN LEANDRO, CALIFORNIA

Notes:

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method TO-3 GC/FID
Benzene, toluene, ethylbenzene and total xylenes by modified EPA Method TO-15 GC/FID Full Scan
MTBE = Methyl tertiary butyl ether by modified EPA Method TO-15 GC/FID Full Scan
Butane, isobutane, and propane by modified EPA Method TO-15 GC/FID Full Scan
ppmv = Parts per million by volume
ppbv = Parts per billion by volume
$\mu g/m^3$ = Micrograms per cubic meter
ND = Not detected
--- = Not analyzed
ESL = Environmental screening level

a = Compounds not listed in Regional Water Quality Control Board (RWQCB) ESLs; detected quantities estimated by laboratory.
b = The identification is based on presumptive evidence; estimated value
c = Exceeds instrument calibration range
d = Field duplicate
e = San Francisco Bay RWQCB ESLs for shallow soil gas (Table E)

APPENDIX A

STANDARD OPERATING PROCEDURES

Conestoga-Rovers & Associates

STANDARD FIELD PROCEDURES FOR SOIL VAPOR PROBE INSTALLATION AND SAMPLING

VAPOR POINT METHODS

This document describes Conestoga-Rovers & Associates' standard field methods for soil vapor sampling. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Objectives

Soil vapor samples are collected and analyzed to assess whether vapor-phase subsurface contaminants pose a threat to human health or the environment.

Shallow Soil Vapor Point Method for Soil Vapor Sampling

The shallow soil vapor point method for soil vapor sampling utilizes a hand auger or drill rig to advance a boring for the installation of a soil vapor sampling point. Once the boring is hand augered to the final depth, a probe, connected with Swagelok fittings to nylon or Teflon tubing of ¼-inch outer-diameter, is placed within 12-inches of number 2/16 filter sand (Figure A). A 12-inch layer of dry granular bentonite is placed on top of the filter pack. Pre-hydrated granular bentonite is then poured to fill the borehole. The tube is coiled and placed within a wellbox finished flush to the surface. Soil vapor samples will be collected no sooner than 48 hours after installation of the soil vapor points to allow adequate time for representative soil vapors to accumulate. Soil vapor sample collection will not be scheduled until after a minimum of three consecutive precipitation-free days and irrigation onsite has ceased. Figure B shows the soil vapor sampling apparatus. A measured volume of air will be purged from the tubing using a different Summa purge canister. Immediately after purging, soil vapor samples will be collected using the appropriate size Summa canister with attached flow regulator and sediment filter. The soil vapor points will be preserved until they are no longer needed for risk evaluation purposes. At that time, they will be destroyed by extracting the tubing, hand augering to remove the sand and bentonite, and backfilling the boring with neat cement. The boring will be patched with asphalt or concrete, as appropriate.

Vapor Sample Storage, Handling, and Transport

Samples are stored and transported under chain-of-custody to a state-certified analytic laboratory. Samples should never be cooled due to the possibility of condensation within the canister.

APPENDIX B

LABORATORY ANALYTICAL REPORTS

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

Air Toxics LTD.
AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0805567A

Work Order Summary

CLIENT:	Ms. Ana Friel Conestoga-Rovers Associates (CRA) 19449 Riverside Drive Suite 230 Sonoma, CA 95476	**BILL TO:**	Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608
PHONE:	(707)-935-4850	**P.O. #**	240612-010
FAX:	707-935-6649	**PROJECT #**	240612-2008-6
DATE RECEIVED:	05/28/2008	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	06/02/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SVP-3	Modified TO-15/TICs	5.5 "Hg	15 psi
02A	SVP-2	Modified TO-15/TICs	15.0 "Hg	15 psi
03A	SVP-1	Modified TO-15/TICs	5.0 "Hg	15 psi
04A	Lab Blank	Modified TO-15/TICs	NA	NA
05A	CCV	Modified TO-15/TICs	NA	NA
06A	LCS	Modified TO-15/TICs	NA	NA

CERTIFIED BY: Linda J. Truman DATE: 06/12/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

LABORATORY NARRATIVE
Modified TO-15
Conestoga-Rovers Associates (CRA)
Workorder# 0805567A

Three 1 Liter Summa Canister (100% Certified) samples were received on May 28, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

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

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

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

UJ- Non-detected compound associated with low bias in the CCV
N - The identification is based on presumptive evidence.

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

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

Client Sample ID: SVP-3

Lab ID#: 0805567A-01A
No Detections Were Found.

Client Sample ID: SVP-2

Lab ID#: 0805567A-02A
No Detections Were Found.

Client Sample ID: SVP-1

Lab ID#: 0805567A-03A
No Detections Were Found.

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVP-3

Lab ID#: 0805567A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7052919	Date of Collection:	5/20/08
Dil. Factor:	2.47	Date of Analysis:	5/29/08 11:21 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.4	Not Detected
m,p-Xylene	1.2	Not Detected	5.4	Not Detected
o-Xylene	1.2	Not Detected	5.4	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Butane	106-97-8	NA	Not Detected
Isobutane	75-28-5	NA	Not Detected
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	92	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVP-2

Lab ID#: 0805567A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7052920	Date of Collection:	5/20/08
Dil. Factor:	4.04	Date of Analysis:	5/30/08 12:00 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	2.0	Not Detected	7.3	Not Detected
Benzene	2.0	Not Detected	6.4	Not Detected
Toluene	2.0	Not Detected	7.6	Not Detected
Ethyl Benzene	2.0	Not Detected	8.8	Not Detected
m,p-Xylene	2.0	Not Detected	8.8	Not Detected
o-Xylene	2.0	Not Detected	8.8	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Butane	106-97-8	NA	Not Detected
Isobutane	75-28-5	NA	Not Detected
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	90	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVP-1

Lab ID#: 0805567A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7052921**	**Date of Collection: 5/20/08**	
Dil. Factor:	**2.42**	**Date of Analysis: 5/30/08 12:39 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.4	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
Toluene	1.2	Not Detected	4.6	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

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Butane	106-97-8	NA	Not Detected
Isobutane	75-28-5	NA	Not Detected
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	91	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	100	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0805567A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7052904	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/29/08 10:49 AM	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
Toluene	0.50	Not Detected	1.9	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

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount ppbv
Butane	106-97-8	NA	Not Detected
Isobutane	75-28-5	NA	Not Detected
Propane	74-98-6	NA	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	91	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	99	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0805567A-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	7052902	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/29/08 09:14 AM	

Compound	%Recovery
Methyl tert-butyl ether	101
Benzene	108
Toluene	104
Ethyl Benzene	104
m,p-Xylene	103
o-Xylene	104

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	102	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0805567A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**7052903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/29/08 09:58 AM**	

Compound	%Recovery
Methyl tert-butyl ether	101
Benzene	108
Toluene	108
Ethyl Benzene	100
m,p-Xylene	101
o-Xylene	101

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	103	70-130

LAB: TA

☐ TA - Encinal, California
☐ TA - Morgan Hill, California
☐ TA - Sacramento, California
☐ TA - Nashville, Tennessee
☐ Calscience
☑ Other Air Toxics

SHELL Chain Of Custody Record

0805567

NAME OF PERSON TO BILL: Denis Brown

☑ ENVIRONMENTAL SERVICES ☐ ACTIVE RETAIL SITE ☐ SHELL CONSULTANT ☐ CONTRACTOR ☐ ENGINEER

☐ CHECK BOX TO VERIFY IF NO INCIDENT # APPLIES

INCIDENT # (ES ONLY): 9 8 9 9 6 0 6 8

PO #: SAP or CRMT #:

Date: 5/20/08

PAGE: 1 of 1

SAMPLING COMPANY:	LOGCODE:
Conestoga-Rovers & Associates (CRA)	CRAW

ADDRESS:
5900 Hollis St, Suite A, Emeryville, CA 94608

PROJECT CONTACT (Hardcopy or PDF Report to):		
Peter Schaefer		
TELEPHONE: 510 420 3319	FAX: 510 420 9170	E-MAIL: pschaefer@craworld.com

SITE ADDRESS: Street and City	State	GLOBAL ID NO.:
1784 150th St, San Leandro	CA	T0600101230

EDF DELIVERABLE TO (Name, Company, Office Location):	PHONE NO.:	E-MAIL:	CONSULTANT PROJECT NO.:
Carter, Brenda, CRA, Emeryville	510-420-3343	shell.em.edf@craworld.com	240512-2008-6

SAMPLER NAME(S) PRINTED: Carmen Rodriguez

LAB USE ONLY

TAT (STD IS 10 BUSINESS DAYS / RUSH IS CALENDAR DAYS): ☐ RESULTS NEEDED
☐ STD ☐ 5 DAY ☑ 3 DAY ☐ 2 DAY ☐ 24 HOURS ☐ ON WEEKEND

☐ LA RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:
☐ EDD NOT NEEDED
☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMB RATE APPLIES
☑ RECEIPT VERIFICATION REQUESTED

please report results in µg/m3

No partial lab reports, send final PDF report only.

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPHg (TO-3)	TPHd – Extractable (8015M)	BTEX (TO-15)	MTBE (TO-15)	TBA (TO-15)	O2, CO2, & Methane	Isobutane, Butane, & propane (TO-15, GC/ME)	TEMPERATURE ON RECEIPT C°
01A	SVP-3	5/20	1213	Air	1	X		X	X			X	Can# 36525
02A	SVP-2	5/20	1338	Air	1	X		X	X			X	Can# 36478
	~~SVP-4 Soil~~												~~Can# 12036~~
	Purge 2												1427
	Purge 1												SC022
03A	SVP-1	5/20	1619	Air	1	X		X	X			X	36527
	Purge - 3												12036

CUSTODY SEAL INTACT? Y N NONE TEMP NA

Red Ice Chest

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Carmen Rodriguez	Secure location	5/20/08	1740
Relinquished by: (Signature)	Received by: (Signature) Monica Gregson AFL 5/28/08 1215	Date	Time
Relinquished by: (Signature)	Received by: (Signature)	Date	Time

QAQC Graphic (7/14) 080-6902

05/02/05 Revision

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0805567B

Work Order Summary

CLIENT:	Ms. Ana Friel Conestoga-Rovers Associates (CRA) 19449 Riverside Drive Suite 230 Sonoma, CA 95476	**BILL TO:**	Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608
PHONE:	(707)-935-4850	**P.O. #**	240612-010
FAX:	707-935-6649	**PROJECT #**	240612-2008-6
DATE RECEIVED:	05/28/2008	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	06/02/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SVP-3	Modified TO-3	5.5 "Hg	15 psi
02A	SVP-2	Modified TO-3	15.0 "Hg	15 psi
03A	SVP-1	Modified TO-3	5.0 "Hg	15 psi
03AA	SVP-1 Lab Duplicate	Modified TO-3	5.0 "Hg	15 psi
04A	Lab Blank	Modified TO-3	NA	NA
05A	LCS	Modified TO-3	NA	NA

CERTIFIED BY: Linda J. Furman DATE: 06/02/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

LABORATORY NARRATIVE
Modified TO-3
Conestoga-Rovers Associates (CRA)
Workorder# 0805567B

Three 1 Liter Summa Canister (100% Certified) samples were received on May 28, 2008. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. The TPH (Gasoline Range) results are calculated using the response factor of Gasoline. A molecular weight of 100 is used to convert the TPH (Gasoline Range) ppmv result to ug/L.

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

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

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

Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: SVP-3

Lab ID#: 0805567B-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.062	0.25	0.093	0.38

Client Sample ID: SVP-2

Lab ID#: 0805567B-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.10	0.41	0.20	0.83

Client Sample ID: SVP-1

Lab ID#: 0805567B-03A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.060	0.25	0.15	0.62

Client Sample ID: SVP-1 Lab Duplicate

Lab ID#: 0805567B-03AA

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.060	0.25	0.18	0.76

Client Sample ID: SVP-3

Lab ID#: 0805567B-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	6053113	Date of Collection:	5/20/08
Dil. Factor:	2.47	Date of Analysis:	5/31/08 11:59 AM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.062	0.25	0.093	0.38

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	82	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVP-2

Lab ID#: 0805567B-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**6053114**	**Date of Collection: 5/20/08**	
Dil. Factor:	**4.04**	**Date of Analysis: 5/31/08 01:15 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.10	0.41	0.20	0.83

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	76	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVP-1

Lab ID#: 0805567B-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	6053116	Date of Collection:	5/20/08
Dil. Factor:	2.42	Date of Analysis:	5/31/08 03:11 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.060	0.25	0.15	0.62

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	76	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVP-1 Lab Duplicate

Lab ID#: 0805567B-03AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	6053117	Date of Collection:	5/20/08
Dil. Factor:	2.42	Date of Analysis:	5/31/08 04:08 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.060	0.25	0.18	0.76

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	75	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0805567B-04A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	6053104	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/31/08 01:52 AM	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.025	0.10	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	78	75-150

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0805567B-05A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	6053118	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 5/31/08 05:02 PM	

Compound	%Recovery
TPH (Gasoline Range)	105

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	104	75-150

LAB: TA

☐ TA - Dallas, California
☐ TA - Morgan Hill, California
☐ TA - Sacramento, California
☐ TA - Nashville, Tennessee
☐ Calscience
☑ Other Air Toxics

SHELL Chain Of Custody Record

0805567

NAME OF PERSON TO BILL: Denis Brown

☑ ENVIRONMENTAL SERVICES ☐ MOTIVA/TRACY ATC ☐ SHELL CONSULTANT ☐ OTHER ☐ OTHER

☐ CHECK BOX TO VERIFY IF NO INCIDENT # APPLIES

INCIDENT #(ES ONLY): 9 8 9 9 6 0 6 8

PO#: SAP or CRMT #:

Date: 5/20/08

PAGE: 1 of 1

SAMPLING COMPANY: Conestoga-Rovers & Associates (CRA)	LOGCODE: CRAW	SITE ADDRESS: Street and City: 1784 150th St, San Leandro	State: CA	GLOBAL ID NO.: T0600101230
ADDRESS: 5900 Hollis St, Suite A, Emeryville, CA 94608		EDF DELIVERABLE TO (Name, Company, Office Location): Carter, Brenda, CRA, Emeryville	PHONE NO.: 510-420-3343	EMAIL: shell.em.edf@craworld.com	CONSULTANT PROJECT NO.: 240512-2008-6
PROJECT CONTACT (Hardcopy or PDF Report to): Peter Schaefer		SAMPLER NAME(S) (Print): Carmen Rodriguez	LAB USE ONLY	
TELEPHONE: 510 420 3319	FAX: 510 420 9170	E-MAIL: peterschaefer@crawworld.com		

TAT (STD IS 10 BUSINESS DAYS / RUSH IS CALENDAR DAYS): ☐ STD ☐ 5 DAY ☑ 3 DAY ☐ 2 DAY ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ UST/RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:

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

please report results in µg/m3

No partial lab reports, send final PDF report only.

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPHg (TO-3)	TPHd - Extractable (8015M)	BTEX (TO-15)	MTBE (TO-15)	TBA (TO-15)	O2, CO2, & Methane	Isobutane, Butane, & propane (TO-15, GC/MS)	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	TEMPERATURE ON RECEIPT C°
01A	SVP-3	5/20	1213	Air	1	X		X	X			X		Can# 36525
02A	SVP-2	5/20	1336	Air	1	X		X	X			X		Can# 36478
	~~SVP-4 Soil~~													~~Can# 12036~~
	Purge 2													1427
	Purge 1													SC022
03A	SVP-1	5/20	1619	Air	1	X		X	X			X		36527
	Purge-3													12036

CUSTODY SEAL INTACT? Y N NONE TEMP NA

Relinquished by: (Signature) Carmen Rodriguez
Received by: (Signature) Secure location
Date: 5/20/08 Time: 1740

Relinquished by: (Signature)
Received by: (Signature) Monica Gregori AFL 5/21/08 1215
Date: Time:

Relinquished by: (Signature)
Received by: (Signature)
Date: Time:

05/07/05 Revision

Geo Graphix (714) 680-9702

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0809414B

Work Order Summary

CLIENT:	Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608	**BILL TO:**	Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608
PHONE:	510-420-0700	**P.O. #**	
FAX:	510-420-9170	**PROJECT #**	240612-010 1784 150th Ave, San Leandro, CA
DATE RECEIVED:	09/19/2008	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	09/24/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SVP-3	Modified TO-3	12.0 "Hg	15 psi
02A	SVP-2	Modified TO-3	4.5 "Hg	15 psi
03A	SVP-2DUP	Modified TO-3	3.5 "Hg	15 psi
04A	SVP-1	Modified TO-3	7.0 "Hg	15 psi
05A	SVP-5	Modified TO-3	10.0 "Hg	15 psi
05AA	SVP-5 Lab Duplicate	Modified TO-3	10.0 "Hg	15 psi
06A	TRIP BLANK	Modified TO-3	27.5 "Hg	15 psi
07A	Lab Blank	Modified TO-3	NA	NA
08A	LCS	Modified TO-3	NA	NA

CERTIFIED BY: Linda J. Furman DATE: 09/24/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/08, Expiration date: 06/30/09
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

LABORATORY NARRATIVE
Modified TO-3
Conestoga-Rovers Associates (CRA)
Workorder# 0809414B

Six 1 Liter Summa Canister (100% Certified) samples were received on September 19, 2008. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with flame ionization detection. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system. The TPH (Gasoline Range) results are calculated using the response factor of Gasoline. A molecular weight of 100 is used to convert the TPH (Gasoline Range) ppmv result to ug/L.

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

Requirement	*TO-3*	*ATL Modifications*
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch </= 20 samples
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation DL = A+3.3S, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The recovery of surrogate Fluorobenzene in samples SVP-5 and SVP-5 Lab Duplicate was outside control limits due to high level hydrocarbon matrix interference. Data is reported as qualified.

Definition of Data Qualifying Flags

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

B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.

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

Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: SVP-3

Lab ID#: 0809414B-01A

No Detections Were Found.

Client Sample ID: SVP-2

Lab ID#: 0809414B-02A

No Detections Were Found.

Client Sample ID: SVP-2DUP

Lab ID#: 0809414B-03A

No Detections Were Found.

Client Sample ID: SVP-1

Lab ID#: 0809414B-04A

No Detections Were Found.

Client Sample ID: SVP-5

Lab ID#: 0809414B-05A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.12	0.50	68	280

Client Sample ID: SVP-5 Lab Duplicate

Lab ID#: 0809414B-05AA

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.12	0.50	68	280

Client Sample ID: TRIP BLANK

Lab ID#: 0809414B-06A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVP-3

Lab ID#: 0809414B-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**6092012**	**Date of Collection: 9/17/08**	
Dil. Factor:	**3.37**	**Date of Analysis: 9/20/08 06:09 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.084	0.34	Not Detected	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	104	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVP-2

Lab ID#: 0809414B-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**6092008**	**Date of Collection: 9/17/08**	
Dil. Factor:	**2.38**	**Date of Analysis: 9/20/08 04:08 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.060	0.24	Not Detected	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	106	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVP-2DUP

Lab ID#: 0809414B-03A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**6092009**	**Date of Collection: 9/17/08**	
Dil. Factor:	**2.29**	**Date of Analysis: 9/20/08 04:38 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.057	0.23	Not Detected	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	103	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVP-1

Lab ID#: 0809414B-04A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**6092010**	**Date of Collection: 9/17/08**	
Dil. Factor:	**2.64**	**Date of Analysis: 9/20/08 05:08 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.066	0.27	Not Detected	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	101	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVP-5

Lab ID#: 0809414B-05A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**6092007**	**Date of Collection: 9/17/08**	
Dil. Factor:	**4.85**	**Date of Analysis: 9/20/08 03:15 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.12	0.50	68	280

Q = Exceeds Quality Control limits, due to matrix effects. Matrix effects confirmed by re-analysis.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	200 Q	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVP-5 Lab Duplicate

Lab ID#: 0809414B-05AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**6092013**	**Date of Collection: 9/17/08**	
Dil. Factor:	**4.85**	**Date of Analysis: 9/20/08 06:42 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.12	0.50	68	280

Q = Exceeds Quality Control limits, due to matrix effects. Matrix effects confirmed by re-analysis.

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	194 Q	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: TRIP BLANK

Lab ID#: 0809414B-06A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**6092011**	**Date of Collection: 9/17/08**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/20/08 05:38 PM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.025	0.10	Not Detected	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	104	75-150

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0809414B-07A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**6092004**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/20/08 11:47 AM**	

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (Gasoline Range)	0.025	0.10	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	88	75-150

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0809414B-08A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	**6092015**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/21/08 08:52 AM**	

Compound	**%Recovery**
TPH (Gasoline Range)	92

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Fluorobenzene (FID)	130	75-150

0809414

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- [ ] SPL
- [ ] XENCO
- [ ] TEST AMERICA
- [x] OTHER Air Toxics

Please Check Appropriate Box:
- [x] ENV. SERVICES
- [ ] MOTIVA RETAIL
- [ ] SHELL RETAIL
- [ ] MOTIVA SG&M
- [ ] CONSULTANT
- [ ] LUBES
- [ ] SHELL PIPELINE
- [ ] OTHER

Print Bill To Contact Name: Denis Brown

INCIDENT # (ENV. SERVICES): 98996068

PO #:

SAP #:

DATE: 9/17/08

PAGE: 1 of 1

Company: Cambria-Rovana & Associates	Consultant: CRAW
Address: 5900 Hollis Street, Suite A, Emeryville, CA 94608	Site Address: Street and City: 1784 150th Ave, San Leandro, CA
Project Contact (Hardcopy or PDF Report to): Peter Schaefer	Global ID No.: T0600101230
Telephone: 510-420-3319	Fax: 510-420-9170
Email: pschaefer@craworld.com	Consultant Project No.: 2406-2-C10
Turnaround Time (Calendar Days): [ ] STANDARD (14 DAY) [ ] 5 DAYS [x] 3 DAYS [ ] 2 DAYS [ ] 24 HOURS [ ] RESULTS NEEDED ON WEEKEND	Sampler Name(s): Lauren Goldfinch
Report Format: [ ] LA - RWQCB [ ] UST AGENCY:	Lab Use Only

Special Instructions or Notes:

please report results in ppbv

- [x] SHELL CONTRACT RATE APPLIES
- [ ] STATE REIMBURSEMENT RATE APPLIES
- [ ] EDD NOT needed
- [x] RECEIPT VERIFICATION REQUESTED

Requested Analysis: TPHg (TO-3); BTEX by EPA Method (TO-3); MTBE by EPA Method (TO-3); Helium, Hydrogen, & permanent gases (TO-15, GC/MS)

Lab Use Only	Field Sample Identification	Sampling: Date	Sampling: Time	Matrix	Preservative: HCL	Preservative: Other	Preservative: Other	Preservative: Other	No. of Cont.	TPHg	BTEX	MTBE	Helium...	Temperature on Receipt C°	Container PID Readings or Laboratory Notes
01A	SVP-3	9/17/08	10:28	air					1	X	X	X	X		Summa ID: 1359
02A	SVP-2		11:13						1	X	X	X	X		Summa ID: 9350
03A	SVP-2 DUP		11:13						1	X	X	X	X		Summa ID: 9531
04A	SVP-1		11:54						1	X	X	X	X		Summa ID: 3716B
05A	~~SVP-4~~ SVP-5		15:05						1	X	X	X	X		Summa ID: 3354
06A	TRIP BLANK		15:30	↓					1	X	X	X	X		Summa ID: 2158

Relinquished by (Signature)	Received by (Signature)	Date	Time
L. Goldfinch	secure location	9/17/08	16:30
	Monica Gregsen ATL	9/19/08	1335

CUSTODY SEAL INTACT? Y N NONE TEMP NA

Rev. 04

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

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

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0809414A

Work Order Summary

CLIENT:	Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608	**BILL TO:**	Mr. Peter Schaefer Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608
PHONE:	510-420-0700	**P.O. #**	
FAX:	510-420-9170	**PROJECT #**	240612-010 1784 150th Ave, San Leandro, CA
DATE RECEIVED:	09/19/2008	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	09/24/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SVP-3	Modified TO-15/TICs	12.0 "Hg	15 psi
01AA	SVP-3 Lab Duplicate	Modified TO-15/TICs	12.0 "Hg	15 psi
02A	SVP-2	Modified TO-15/TICs	4.5 "Hg	15 psi
03A	SVP-2DUP	Modified TO-15/TICs	3.5 "Hg	15 psi
04A	SVP-1	Modified TO-15/TICs	7.0 "Hg	15 psi
05A	SVP-5	Modified TO-15/TICs	10.0 "Hg	15 psi
06A	TRIP BLANK	Modified TO-15/TICs	27.5 "Hg	15 psi
07A	Lab Blank	Modified TO-15/TICs	NA	NA
08A	CCV	Modified TO-15/TICs	NA	NA
09A	LCS	Modified TO-15/TICs	NA	NA

CERTIFIED BY: Linda J. Truman DATE: 09/24/08

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/08, Expiration date: 06/30/09
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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

LABORATORY NARRATIVE
Modified TO-15
Conestoga-Rovers Associates (CRA)
Workorder# 0809414A

Six 1 Liter Summa Canister (100% Certified) samples were received on September 19, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

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

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

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

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Specific analytes that are requested by the client to be reported as tentatively identified compounds (TICs) are determined by searching for each compound's characteristic spectra. If no chromatographic peak displaying the compound specific spectra exists, then the TIC is reported as not detected. Please note that the laboratory has not evaluated the stability of any heretofore tentatively identified compound in the vapor phase or for efficiency of recovery through the analytical system.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

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

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

AN ENVIRONMENTAL ANALYTICAL LABORATORY

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

Client Sample ID: SVP-3

Lab ID#: 0809414A-01A

No Detections Were Found.

Client Sample ID: SVP-3 Lab Duplicate

Lab ID#: 0809414A-01AA

No Detections Were Found.

Client Sample ID: SVP-2

Lab ID#: 0809414A-02A

No Detections Were Found.

Client Sample ID: SVP-2DUP

Lab ID#: 0809414A-03A

No Detections Were Found.

Client Sample ID: SVP-1

Lab ID#: 0809414A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Toluene	1.3	1.5	5.0	5.7

Client Sample ID: SVP-5

Lab ID#: 0809414A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	50	80	180	290
Benzene	50	82	160	260
Toluene	50	210	190	780
Ethyl Benzene	50	3300	220	14000
m,p-Xylene	50	9800	220	43000
o-Xylene	50	1000	220	4600

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ppbv)
Butane	106-97-8	64%	3600 N J
Propane, 2-methyl-	75-28-5	4.0%	370 N J

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

Client Sample ID: TRIP BLANK

Lab ID#: 0809414A-06A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVP-3

Lab ID#: 0809414A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5092321**	**Date of Collection: 9/17/08**	
Dil. Factor:	**3.37**	**Date of Analysis: 9/24/08 12:58 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	1.7	Not Detected	6.1	Not Detected
Benzene	1.7	Not Detected	5.4	Not Detected
Toluene	1.7	Not Detected	6.3	Not Detected
Ethyl Benzene	1.7	Not Detected	7.3	Not Detected
m,p-Xylene	1.7	Not Detected	7.3	Not Detected
o-Xylene	1.7	Not Detected	7.3	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ppbv)
Butane	106-97-8	NA	Not Detected
Isobutane	75-28-5	NA	Not Detected
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	110	70-130

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Client Sample ID: SVP-3 Lab Duplicate

Lab ID#: 0809414A-01AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5092322**	**Date of Collection: 9/17/08**	
Dil. Factor:	**3.37**	**Date of Analysis: 9/24/08 01:40 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	1.7	Not Detected	6.1	Not Detected
Benzene	1.7	Not Detected	5.4	Not Detected
Toluene	1.7	Not Detected	6.3	Not Detected
Ethyl Benzene	1.7	Not Detected	7.3	Not Detected
m,p-Xylene	1.7	Not Detected	7.3	Not Detected
o-Xylene	1.7	Not Detected	7.3	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ppbv)
Butane	106-97-8	NA	Not Detected
Isobutane	75-28-5	NA	Not Detected
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	110	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVP-2

Lab ID#: 0809414A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5092323**	**Date of Collection: 9/17/08**	
Dil. Factor:	**2.38**	**Date of Analysis: 9/24/08 02:21 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	1.2	Not Detected	4.3	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
Toluene	1.2	Not Detected	4.5	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

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ppbv)
Butane	106-97-8	NA	Not Detected
Isobutane	75-28-5	NA	Not Detected
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	111	70-130

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVP-2DUP

Lab ID#: 0809414A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5092324**	**Date of Collection: 9/17/08**	
Dil. Factor:	**2.29**	**Date of Analysis: 9/24/08 03:02 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	1.1	Not Detected	4.1	Not Detected
Benzene	1.1	Not Detected	3.6	Not Detected
Toluene	1.1	Not Detected	4.3	Not Detected
Ethyl Benzene	1.1	Not Detected	5.0	Not Detected
m,p-Xylene	1.1	Not Detected	5.0	Not Detected
o-Xylene	1.1	Not Detected	5.0	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ppbv)
Butane	106-97-8	NA	Not Detected
Isobutane	75-28-5	NA	Not Detected
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	109	70-130

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: SVP-1

Lab ID#: 0809414A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5092325**	**Date of Collection: 9/17/08**	
Dil. Factor:	**2.64**	**Date of Analysis: 9/24/08 03:44 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	1.3	Not Detected	4.8	Not Detected
Benzene	1.3	Not Detected	4.2	Not Detected
Toluene	1.3	1.5	5.0	5.7
Ethyl Benzene	1.3	Not Detected	5.7	Not Detected
m,p-Xylene	1.3	Not Detected	5.7	Not Detected
o-Xylene	1.3	Not Detected	5.7	Not Detected

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ppbv)
Butane	106-97-8	NA	Not Detected
Isobutane	75-28-5	NA	Not Detected
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	110	70-130

Client Sample ID: SVP-5

Lab ID#: 0809414A-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5092328**	**Date of Collection: 9/17/08**	
Dil. Factor:	**101**	**Date of Analysis: 9/24/08 05:54 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	50	80	180	290
Benzene	50	82	160	260
Toluene	50	210	190	780
Ethyl Benzene	50	3300	220	14000
m,p-Xylene	50	9800	220	43000
o-Xylene	50	1000	220	4600

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ppbv)
Butane	106-97-8	64%	3600 N J
Propane, 2-methyl-	75-28-5	4.0%	370 N J
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	114	70-130
4-Bromofluorobenzene	113	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: TRIP BLANK

Lab ID#: 0809414A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5092326**	**Date of Collection: 9/17/08**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/24/08 04:25 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
Toluene	0.50	Not Detected	1.9	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

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ppbv)
Butane	106-97-8	NA	Not Detected
Isobutane	75-28-5	NA	Not Detected
Propane	74-98-6	NA	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	111	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0809414A-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5092305**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/23/08 12:21 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
Toluene	0.50	Not Detected	1.9	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

TENTATIVELY IDENTIFIED COMPOUNDS

Compound	CAS Number	Match Quality	Amount (ppbv)
Butane	106-97-8	NA	Not Detected
Isobutane	75-28-5	NA	Not Detected
Propane	74-98-6	NA	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	108	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0809414A-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5092302**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/23/08 09:10 AM**	

Compound	%Recovery
Methyl tert-butyl ether	116
Benzene	86
Toluene	98
Ethyl Benzene	95
m,p-Xylene	95
o-Xylene	98

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	116	70-130

Air Toxics LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0809414A-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**5092303**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/23/08 09:48 AM**	

Compound	%Recovery
Methyl tert-butyl ether	134
Benzene	92
Toluene	110
Ethyl Benzene	99
m,p-Xylene	99
o-Xylene	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	108	70-130
4-Bromofluorobenzene	116	70-130

0809414

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)

☐ SOI (_____)
☐ XENCO (_____)
☐ TEST AMERICA (_____)
☑ OTHER (Atl. Toxics)

Please Check Appropriate Box:
☑ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SEAGOM ☐ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ Other _____

Print Bill To Contact Name: Denis Brown
PO #:
INCIDENT # (ENV. SERVICES): 98996068
SAP #:
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 9/17/08
PAGE 1 of 1

STANDARD COMPANY: Carlsbad-Rovers & Associates
LOCATION: CRAW
ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608
PROJECT CONTACT (Hardcopy or PDF Report to): Peter Schaefer
TELEPHONE: 510-420-3319 FAX: 510-420-9170 EMAIL: pschaefer@craworld.com

SITE ADDRESS (Street and City): 1784 150th Ave, San Leandro, CA
STATE:
GLOBAL ID NO.: T0600101230
REPORT TO (If Other Than Consultant Office Location): Brenda Carter, CRA, Emeryville
PHONE NO.: 510-420-3343
EMAIL: shellbmgulf@craworld.com
CONSULTANT PROJECT NO.: 240612-C10
SAMPLER NAME(S) PRINTED: Lauren Goldfinch
LAB USE ONLY

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

☐ EA - 3WQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:
please report results in ppm

☑ 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	MATRIX	PRESERVATIVE HCL	PRESERVATIVE HNO3 / H2SO4	PRESERVATIVE NONE	PRESERVATIVE OTHER	NO. OF CONT	TPHg (TO-3)	BTEX by EPA Method (TO-3)	MTBE by EPA Method (TO-3)	Naphthalene, Isobutane, & propane (TO-15, SIM/MS)	TEMPERATURE ON RECEIPT °C	Container PID Readings or Laboratory Notes
01A	SVP-3	9/17/08	10:28	air					1	X	X	X	X		Summa ID: 1359
02A	SVP-2		11:13						1	X	X	X	X		Summa ID: 9350
03A	SVP-2 DUP		11:13						1	X	X	X	X		Summa ID: 9531
04A	SVP-1		11:54						1	X	X	X	X		Summa ID: 3768
05A	~~SVP-4~~ SVP-5		15:05						1	X	X	X	X		Summa ID: 3341
06A	TRIP BLANK		15:30						1	X	X	X	X		Summa ID: 2158

Relinquished by (Signature): L. A
Received by (Signature): secure location
Date: 9/17/08 Time: 16:30

Relinquished by (Signature):
Received by (Signature): Monica Gregsen ATL
Date: 9/19/08 Time: 1335

Relinquished by (Signature):
Received by (Signature):
Date: Time:

CUSTODY SEAL INTACT? Y N (NONE) TEMP NA
Fed Ex

05/08 Revision