



**CONESTOGA-ROVERS
& ASSOCIATES**

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www.CRAworld.com

TRANSMITTAL

DATE: June 18, 2013

REFERENCE NO.: 240414

PROJECT NAME: 540 Hegenberger Road, Oakland

TO: Jerry Wickham

Alameda County Environmental Health

1131 Harbor Bay Parkway, Suite 250

Alameda, California 94502-6577

RECEIVED

By Alameda County Environmental Health at 3:00 pm, Jun 21, 2013

Please find enclosed: Draft Final
 Originals Other
 Prints

Sent via: Mail Same Day Courier
 Overnight Courier Other GeoTracker and Alameda County FTP

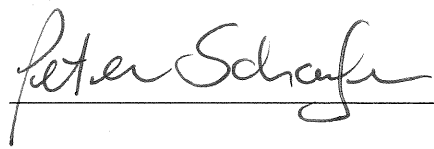
QUANTITY	DESCRIPTION
1	Soil Vapor Mitigation and Air Sampling Report

As Requested For Review and Comment
 For Your Use

COMMENTS:

If you have any questions regarding the content of this document, please call the CRA project manager Peter Schaefer at (510) 420-3319 or the Shell program manager Perry Pineda at (425) 413-1164.

Copy to: Perry Pineda, Shell Oil Products US (electronic copy)
Victoria Du (property owner), Horizon Energy Ltd., 540 Hegenberger Road, Oakland, CA
94621-1320

Completed by: Peter Schaefer Signed: 

Filing: Correspondence File



Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Shell Oil Products US
Soil and Groundwater Focus Delivery Group
20945 S. Wilmington Avenue
Carson, CA 90810
Tel (425) 413 1164
Fax (425) 413 0988
Email perry.pineda@shell.com
Internet <http://www.shell.com>

Re: 540 Hegenberger Road
Oakland, California
SAP Code 135694
Incident No. 98995752
ACEH Case No. RO0000223

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.

As always, please feel free to contact me directly at (425) 413-1164 with any questions or concerns.

Sincerely,
Shell Oil Products US

A handwritten signature in black ink, appearing to read "Perry Pineda", is located below the typed name.

Perry Pineda
Senior Environmental Program Manager



SOIL VAPOR MITIGATION AND AIR SAMPLING REPORT

**SHELL-BRANDED SERVICE STATION
540 HEGENBERGER ROAD
OAKLAND, CALIFORNIA**

**SAP CODE 135694
INCIDENT NO. 98995752
AGENCY NO. RO0000223**

**JUNE 18, 2013
REF. NO. 240414 (14)**
This report is printed on recycled paper.

**Prepared by:
Conestoga-Rovers
& Associates**

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EXECUTIVE SUMMARY

This report presents a summary of the recent air sampling and floor sealant application activities. This work was performed to mitigate the potential for hydrocarbon vapor intrusion associated with residual sub-slab petroleum hydrocarbon vapors in the area of the service station kiosk office.

- Two sub-slab vapor probes (SVP-3 and SVP-4) in the kiosk office were properly destroyed.
- Prior to applying the floor sealant, air samples were collected in the kiosk office, the kiosk store, and outside at the south end of the kiosk.
- Concrete was used to seal cracks in the floor, and a floor sealant was applied to mitigate any future potential soil vapor intrusion.
- A single piece of vinyl sheet flooring was installed on top of the floor sealant.
- Air samples were collected after applying the floor sealant at the same locations as the initial samples.
- Benzene concentrations exceeded RWQCB ESLs in all air samples. No other COCs were detected at concentrations exceeding RWQCB ESLs.
- Benzene concentrations detected in the initial air samples were highest in the kiosk office. Final air sample results demonstrated decreased benzene concentrations within the kiosk office, with all final samples containing similar benzene concentrations. Since final indoor and outdoor air samples contained virtually the same benzene concentrations, it is likely that these results represent background ambient benzene concentrations at the service station.
- The floor sealant appears to have mitigated the potential for petroleum hydrocarbon vapor intrusion.

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) to document the recently completed destruction of sub-slab vapor probes, sealing of the service station kiosk office floor, and air sampling activities. The purpose of this work was to mitigate the potential for soil vapor intrusion into the kiosk office. CRA followed the scope of work and procedures presented in our October 1, 2012 *Revised Soil Vapor Mitigation Work Plan*, which was conditionally approved in Alameda County of Environmental Health's October 31, 2012 letter.

The subject site is an active Shell-branded service station located on the southeast corner of the Hegenberger Road and Edes Avenue intersection in a commercial area of Oakland, California (Figure 1). The site layout (Figure 2) includes one station building, two dispenser islands, four underground storage tanks, and a car wash.

A summary of previous work performed at the site and additional background information was presented in CRA's October 1 2012 *Revised Soil Vapor Mitigation Work Plan* and is not repeated herein.

2.0 VAPOR PROBE DESTRUCTION ACTIVITIES

2.1 PERMIT

The Alameda County Public Works Agency did not require any permits for destruction of the sub-slab soil vapor probes.

2.2 FIELD DATE

March 11, 2013.

2.3 SUBCONTRACTOR

Cornerstone Environmental Company (CEC).

2.4 CRA PERSONNEL

Environmental engineer Jessica Radon directed the vapor probe destruction work under the supervision of registered California Professional Engineer Lee Brennan.

2.5 PROBE DESTRUCTION

Prior to destruction, CEC subcontracted a private utility locating company to ensure that no utilities were near the vapor probes. The probes were drilled out with a hammer drill, and the holes were patched with cement grout.

3.0 AMBIENT AIR SAMPLING

3.1 FIELD DATES

March 11 and 12, 2013 (pre-floor-sealing 24-hour air sampling event) and May 6 and 7, 2013 (post-floor-sealing 24-hour air sampling event)

3.2 PROCEDURE

CRA collected air samples at three locations before and after the kiosk office floor was sealed. As shown on Figure 2, the sample locations were near the cashier in the convenience store portion of the kiosk (AIR-1A and AIR-1B), inside the kiosk office space (AIR-2A and AIR-2B), and outside the kiosk building directly south of the office (AIR-3A and AIR-3B). CRA collected the samples using Summa[®] canisters equipped with vacuum gauges and flow regulators which allowed air samples to be collected continuously over a 24-hour collection period. Each sample was labeled, shipped and transported under chain-of-custody protocol to TestAmerica Laboratories, Inc. of Irvine, California for analysis.

3.3 AIR SAMPLING ANALYSES

Air samples were analyzed for volatile organic compounds (VOCs) by EPA Method TO-15 and for total petroleum hydrocarbons as gasoline (TPHg) by EPA Method TO-3.

3.4 AIR SAMPLE FINDINGS

Air sample analytical data are presented Table 1. The laboratory analytical reports are presented in Appendix A.

4.0 FLOOR SEALING AND VINYL SHEET FLOORING INSTALLATION

4.1 FIELD DATES

April 15 through April 23, 2013.

4.2 FLOORING SUBCONTRACTORS

CEC and American Industrial Coating (AIC).

4.3 PERSONNEL PRESENT

Environmental engineer Jessica Radon directed the work under the supervision of registered California Professional Engineer Lee Brennan.

4.4 FLOOR SEALING PROCEDURE

Prior to sealing the floor, the grout used to fill the destroyed vapor probes was allowed to cure for a minimum of 28 days.

CEC prepared the office prior to AIC arriving to apply the floor sealant. The office room was cleared out, and a storage container was used as temporary storage during the floor sealing work. CEC's electrician re-routed the computer monitors, surveillance monitors, phone, and fax machine to a temporary office location outside the office. Several cracks in the concrete floor were sealed with grout.

On April 18, 2013, AIC prepared the kiosk floor for the sealant by shot-blasting the concrete floor to create a clean substrate. AIC then applied a 6-millimeter primer coating to the floor and allowed it to dry overnight. On April 19, 2013, AIC sealed the concrete floor in the kiosk office using two 10-millimeter-thick coatings of Land Science

Technologies' Retro-Coat™, a two-part, odorless, 100% solids coating which contains no VOCs.

On April 22, 2013, CEC installed low-VOC vinyl sheet flooring over the finished and dried coating to assure its continuing integrity. A baseboard along the bottom of the wall touching the floor was added to mitigate rusting along the wall and ensure a better seal around the office floor.

5.0 AIR EXCHANGE TESTING

The air exchange test on the station building's ventilation system has not been performed to date. The test was not performed because the ventilation system is not configured to allow testing as the system appears to recirculate all return air in the office making any test results invalid. CRA does not propose to conduct this test.

6.0 DRAIN GROUTING

The floor drain that was originally proposed to be grouted was left in place. The floor drain was originally thought to be inside the kiosk office, but was found to be outside the kiosk office. Additionally, the station manager indicated to the CRA field personnel on site that the drain was needed and requested that it not be grouted.

7.0 DISCUSSION

Benzene concentrations exceeded the San Francisco Bay Regional Water Quality Control Board's (RWQCB's) environmental screening level (ESL) for indoor air with commercial land use¹ in all air samples collected during this investigation. No other constituents of concern were detected at concentrations exceeding RWQCB ESLs.

8.0 CONCLUSIONS AND RECOMMENDATIONS

Benzene concentrations detected in the initial pre-floor sealing air samples were highest in the kiosk office (4.1 micrograms per cubic meters [$\mu\text{g}/\text{m}^3$] at AIR-1A). Final air sample

¹ *Screening for Environmental Concerns at Site With Contaminated Soil and Groundwater, California Regional Water Quality Control Board, Interim Final – November 2007 [Revised May 2008]*

results demonstrated decreased benzene concentrations within the kiosk office (1.2 $\mu\text{g}/\text{m}^3$ at AIR-1B), with all final samples containing similar benzene concentrations (1.2 to 1.4 $\mu\text{g}/\text{m}^3$). Since final indoor and outdoor air samples contained virtually the same benzene concentrations, it is likely that these results represent background ambient air benzene concentrations at the service station.

The floor sealant appears to have mitigated the potential for petroleum hydrocarbon vapor intrusion. Further soil vapor intrusion investigation and mitigation is not warranted or recommended. Since there no longer appears to be a significant vapor intrusion risk, CRA recommends closure of this environmental case.

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



Peter Schaefer, PG

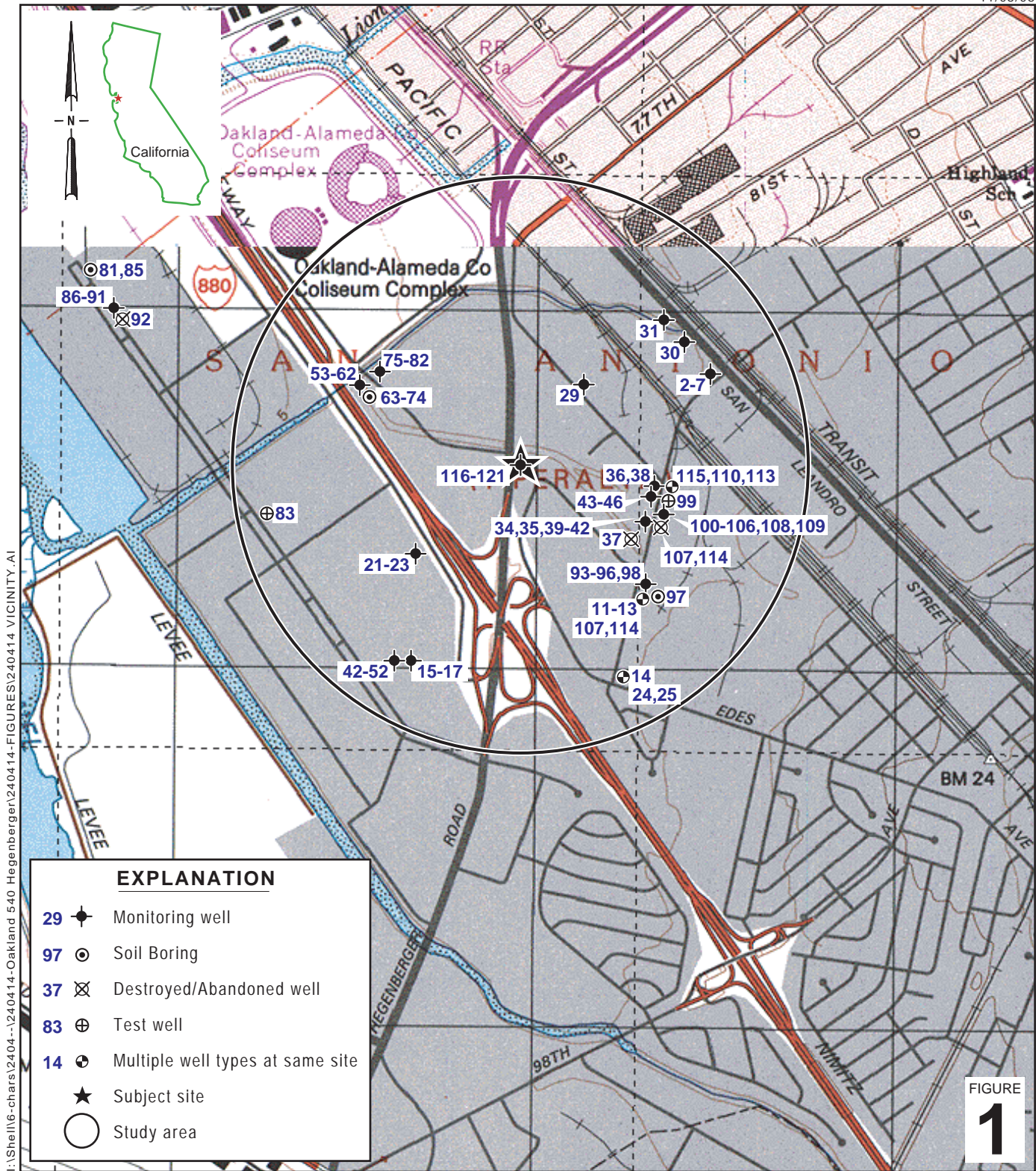


Lee Brennan, P.E.



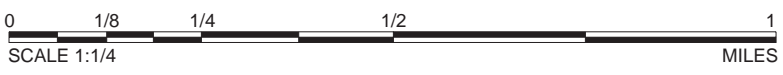
DATED 6/18/2013

FIGURES



I:\Shell\6-charts\2404--\240414-Oakland 540 Hegenberger\240414-FIGURES\240414 VICINITY.A1

FIGURE 1



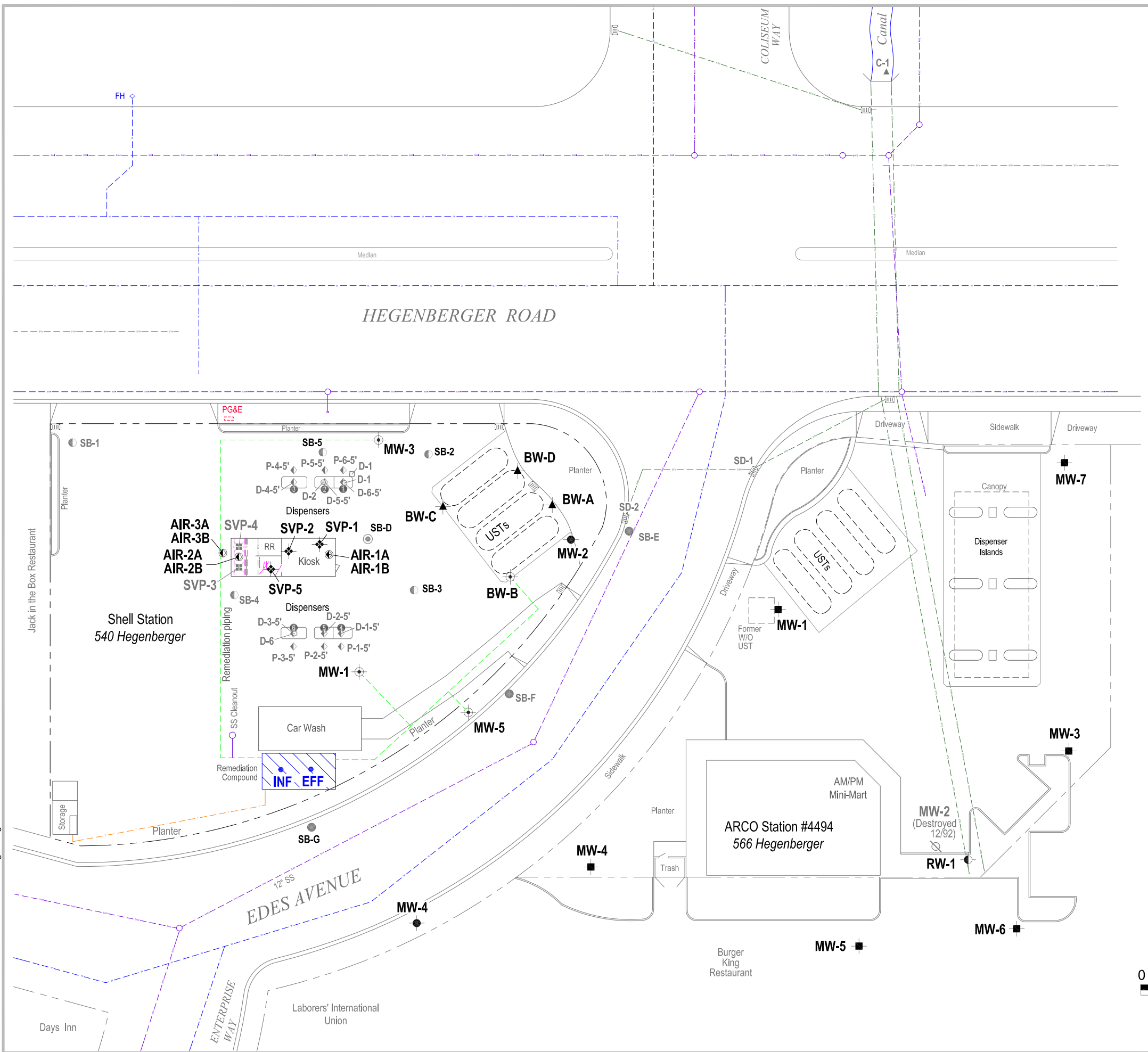
Shell-branded Service Station
 540 Hegenberger Road
 Oakland, California



CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

I:\Shell\6-chars\2404-1240414-Oakland 540 Hegenberger\240414-FIGURES\240414 SITE PLAN.DWG



EXPLANATION	
AIR-1A AIR-1B	Sub-slab soil vapor probe location (Shell)
SVP-3	Destroyed sub-slab soil vapor probe location (Shell)
SVP-1	Sub-slab soil vapor probe location (Shell)
MW-2	Monitoring well location (Shell)
BW-A	Tank backfill well location (Shell)
MW-1	Groundwater extraction well location (Shell)
MW-1	Monitoring well location (ARCO)
RW-1	Recovery well location (ARCO)
MW-2	Destroyed well location (ARCO)
D-1-5'	Soil sample location (2004)
C-1	Canal sampling location (2001)
SB-E	Soil boring location (2000)
SB-D	Soil boring location (1998)
SB-1	Soil boring location (1998)
D-1	Soil sample location (1998)
D-1	Soil sample location (1996)
INF	GWE system sample location
(Red dashed line)	Electrical line (E)
(Orange dashed line)	Telecommunication line (T)
(Green dashed line)	Storm drain line (STM)
(Purple dashed line)	Sanitary sewer line (SAN)
(Blue dashed line)	Water line (W)
(Pink dashed line)	Unknown utility line (?)
(FH symbol)	Fire hydrant

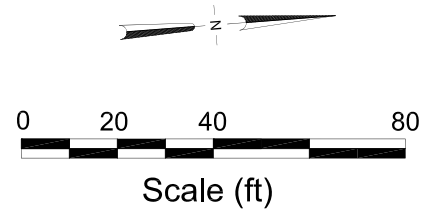


FIGURE 2



Shell-branded Service Station
 540 Hegenberger Road
 Oakland, California

TABLE

TABLE 1

AIR ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
540 HEGENBERGER ROAD, OAKLAND, CALIFORNIA

Sample ID	Date	TPHg ($\mu\text{g}/\text{m}^3$)	B ($\mu\text{g}/\text{m}^3$)	T ($\mu\text{g}/\text{m}^3$)	E ($\mu\text{g}/\text{m}^3$)	X ($\mu\text{g}/\text{m}^3$)	MTBE ($\mu\text{g}/\text{m}^3$)	Acetone ($\mu\text{g}/\text{m}^3$)	2-Butanone ($\mu\text{g}/\text{m}^3$)	Carbon Disulfide ($\mu\text{g}/\text{m}^3$)	Chloro- methane ($\mu\text{g}/\text{m}^3$)	Dichloro- difluoro- methane ($\mu\text{g}/\text{m}^3$)	4-Ethyl- Toluene ($\mu\text{g}/\text{m}^3$)	Methylene Chloride ($\mu\text{g}/\text{m}^3$)	4-Methyl- 2-pentanone ($\mu\text{g}/\text{m}^3$)	Trichloro- ethene ($\mu\text{g}/\text{m}^3$)	Hexachloro- butadiene ($\mu\text{g}/\text{m}^3$)	Trichloro- fluoro- methane ($\mu\text{g}/\text{m}^3$)	1,2,4- Trimethyl- benzene ($\mu\text{g}/\text{m}^3$)	1,3,5- Trimethyl- benzene ($\mu\text{g}/\text{m}^3$)	Styrene ($\mu\text{g}/\text{m}^3$)	Vinyl acetate ($\mu\text{g}/\text{m}^3$)
AIR-1A	3/11/2013	<12,000	2.8	15	2.4	13	<2.9	14	<2.4	2.8	1.8	3.2	2.6	22	3.0	2.5	<8.5	<2.2	<3.9	<2.0	<1.7	<2.8
AIR-1B	5/6/2013	<15,000	1.4	5.3	0.94 a	7.0	<2.9	17	2.2 a	<2.5	1.3 a	3.0	1.3 a	1.4	<1.6	<2.1	3.3 a	3.0	1.6 a	<2.0	<1.7	<2.8
AIR-2A	3/11/2013	<12,000	4.1	23	3.7	20	<2.9	29	3.0	<2.5	<1.7	6.0	3.5	<1.4	<1.6	<2.1	<8.5	<2.2	<3.9	<2.0	<1.7	<2.8
AIR-2B	5/6/2013	<12,000	1.2 a	9.0	1.5 a	7.4	<2.9	40	8.1	1.5 a	1.3 a	2.7	<2.0	3.1	0.92 a	<2.1	<8.5	110	<3.9	<2.0	0.92 a	0.80 a
AIR-3A	3/11/2013	<12,000	1.5	5.0	<1.7	5.0	<2.9	6.0	<2.4	<2.5	1.8	2.6	<2.0	<1.4	<1.6	<2.1	<8.5	<2.2	<3.9	<2.0	<1.7	<2.8
AIR-3B	5/6/2013	<15,000	1.3 a	4.2	0.74 a	7.5	<2.9	13	2.9	0.67 a	1.3 a	2.6	1.1 a	0.85 a	<1.6	<2.1	<8.5	18	1.3 a	0.94 a	<1.7	<2.8
ESLs ^b		1,200	0.42	1,300	4.9	440	47	140,000	22,000	NA	390	NA	NA	26	13,000	3.0	NA	NA	NA	NA	3,900	NA

Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method TO-3

All other constituents are volatile organic compounds analyzed by EPA Method TO-15; all detections tabulated. See laboratory report for details.

BTEX = Benzene, toluene, ethylbenzene, and total xylenes

MTBE = Methyl tertiary-butyl ether

$\mu\text{g}/\text{m}^3$ = Micrograms per cubic meter

<x = Not detected at reporting limit x

ESL = Environmental screening level

NA = No applicable ESL

Results in **bold** exceed environmental screening level

a = Detection is below the method reporting limit but above the method detection limit.

b = San Francisco Bay Regional Water Quality Control Board (RWQCB) indoor air screening level - commercial/industrial land use from RWQCB's *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, California Regional Water Quality Control Board, Interim Final - November 2007 (Revised May 2008) - Updated May 2013.

APPENDIX A

TESTAMERICA LABORATORIES, INC. -
ANALYTICAL REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

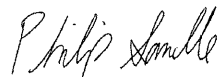
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-45897-1
Client Project/Site: 540 Hegenberger Rd., Oakland
Revision: 1

For:
Conestoga-Rovers & Associates, Inc.
5900 Hollis Street
Suite A
Emeryville, California 94608

Attn: Peter Schaefer



Authorized for release by:
5/30/2013 3:22:48 PM

Philip Sanelle, Project Manager I
philip.sanelle@testamericainc.com

LINKS

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results through

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Expert

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-45897-1	Air-1B	Air	05/06/13 10:30	05/08/13 16:50
440-45897-2	Air-2B	Air	05/06/13 10:30	05/08/13 16:50
440-45897-3	Air-3B	Air	05/06/13 10:30	05/08/13 16:50

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Job ID: 440-45897-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-45897-1

Comments

Revised to report units ug/m3.

Receipt

The samples were received on 5/8/2013 4:50 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 22.0° C.

Air - GC VOA

No analytical or quality issues were noted.

Air - GC/MS VOA

Method(s) TO-15: The continuing calibration verification (CCV) for 1,2-Dichlorobenzene (33.1%) and Benzyl chloride (38.8%) associated with batch 4748 recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Client Sample ID: Air-1B

Lab Sample ID: 440-45897-1

Date Collected: 05/06/13 10:30

Matrix: Air

Date Received: 05/08/13 16:50

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0071		0.0050	0.00060	ppm v/v			05/15/13 15:41	1
Benzene	0.00043		0.00040	0.00020	ppm v/v			05/15/13 15:41	1
Benzyl chloride	ND		0.00080	0.00020	ppm v/v			05/15/13 15:41	1
Bromodichloromethane	ND		0.00030	0.00015	ppm v/v			05/15/13 15:41	1
Bromoform	ND		0.00080	0.00020	ppm v/v			05/15/13 15:41	1
Bromomethane	ND		0.00080	0.00020	ppm v/v			05/15/13 15:41	1
2-Butanone (MEK)	0.00074	J	0.00080	0.00040	ppm v/v			05/15/13 15:41	1
Carbon disulfide	ND		0.00080	0.00020	ppm v/v			05/15/13 15:41	1
Carbon tetrachloride	ND		0.00080	0.00020	ppm v/v			05/15/13 15:41	1
Chlorobenzene	ND		0.00030	0.00010	ppm v/v			05/15/13 15:41	1
Dibromochloromethane	ND		0.00040	0.00010	ppm v/v			05/15/13 15:41	1
Chloroethane	ND		0.0015	0.00070	ppm v/v			05/15/13 15:41	1
Chloroform	ND		0.00030	0.00010	ppm v/v			05/15/13 15:41	1
Chloromethane	0.00063	J	0.00080	0.00040	ppm v/v			05/15/13 15:41	1
tert-Butyl alcohol (TBA)	ND		0.0050	0.0015	ppm v/v			05/15/13 15:41	1
1,2-Dibromoethane (EDB)	ND		0.00080	0.00020	ppm v/v			05/15/13 15:41	1
1,2-Dichlorobenzene	ND		0.00040	0.00015	ppm v/v			05/15/13 15:41	1
1,3-Dichlorobenzene	ND		0.00040	0.00015	ppm v/v			05/15/13 15:41	1
1,4-Dichlorobenzene	ND		0.00040	0.00015	ppm v/v			05/15/13 15:41	1
Dichlorodifluoromethane	0.00062		0.00040	0.00015	ppm v/v			05/15/13 15:41	1
1,1-Dichloroethane	ND		0.00030	0.00015	ppm v/v			05/15/13 15:41	1
1,2-Dichloroethane	ND		0.00080	0.00020	ppm v/v			05/15/13 15:41	1
1,1-Dichloroethene	ND		0.00080	0.00020	ppm v/v			05/15/13 15:41	1
cis-1,2-Dichloroethene	ND		0.00040	0.00020	ppm v/v			05/15/13 15:41	1
trans-1,2-Dichloroethene	ND		0.00040	0.00020	ppm v/v			05/15/13 15:41	1
1,2-Dichloropropane	ND		0.00040	0.00015	ppm v/v			05/15/13 15:41	1
cis-1,3-Dichloropropene	ND		0.00040	0.00015	ppm v/v			05/15/13 15:41	1
trans-1,3-Dichloropropene	ND		0.00040	0.00015	ppm v/v			05/15/13 15:41	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.00040	0.00015	ppm v/v			05/15/13 15:41	1
Ethylbenzene	0.00022	J	0.00040	0.00015	ppm v/v			05/15/13 15:41	1
4-Ethyltoluene	0.00026	J	0.00040	0.00015	ppm v/v			05/15/13 15:41	1
Hexachlorobutadiene	0.00031	J	0.00080	0.00020	ppm v/v			05/15/13 15:41	1
2-Hexanone	ND		0.00080	0.00020	ppm v/v			05/15/13 15:41	1
Methylene chloride	0.00040		0.00040	0.00020	ppm v/v			05/15/13 15:41	1
4-Methyl-2-pentanone (MIBK)	ND		0.00040	0.00015	ppm v/v			05/15/13 15:41	1
Styrene	ND		0.00040	0.00015	ppm v/v			05/15/13 15:41	1
1,1,2,2-Tetrachloroethane	ND		0.00040	0.00010	ppm v/v			05/15/13 15:41	1
Tetrachloroethene	ND		0.00040	0.00015	ppm v/v			05/15/13 15:41	1
Toluene	0.0014		0.00040	0.00015	ppm v/v			05/15/13 15:41	1
1,2,4-Trichlorobenzene	ND		0.0025	0.00070	ppm v/v			05/15/13 15:41	1
1,1,1-Trichloroethane	ND		0.00030	0.00015	ppm v/v			05/15/13 15:41	1
1,1,2-Trichloroethane	ND		0.00040	0.00015	ppm v/v			05/15/13 15:41	1
Trichloroethene	ND		0.00040	0.00015	ppm v/v			05/15/13 15:41	1
Trichlorofluoromethane	0.00054		0.00040	0.00015	ppm v/v			05/15/13 15:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00040	0.00020	ppm v/v			05/15/13 15:41	1
1,2,4-Trimethylbenzene	0.00032	J	0.00080	0.00020	ppm v/v			05/15/13 15:41	1
1,3,5-Trimethylbenzene	ND		0.00040	0.00015	ppm v/v			05/15/13 15:41	1
Vinyl acetate	ND		0.00080	0.00020	ppm v/v			05/15/13 15:41	1

TestAmerica Irvine

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Client Sample ID: Air-1B

Lab Sample ID: 440-45897-1

Date Collected: 05/06/13 10:30

Matrix: Air

Date Received: 05/08/13 16:50

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.00040	0.00015	ppm v/v			05/15/13 15:41	1
Methyl-t-Butyl Ether (MTBE)	ND		0.00080	0.00020	ppm v/v			05/15/13 15:41	1
Xylenes, Total	0.0016		0.00040	0.00015	ppm v/v			05/15/13 15:41	1
Tert-amyl-methyl ether (TAME)	ND		0.0010	0.00030	ppm v/v			05/15/13 15:41	1
Ethyl-t-butyl ether (ETBE)	ND		0.0010	0.00030	ppm v/v			05/15/13 15:41	1
Isopropyl Ether (DIPE)	ND		0.0010	0.00030	ppm v/v			05/15/13 15:41	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	17		12	1.4	ug/m3			05/15/13 15:41	1
Benzene	1.4		1.3	0.64	ug/m3			05/15/13 15:41	1
Benzyl chloride	ND		4.1	1.0	ug/m3			05/15/13 15:41	1
Bromodichloromethane	ND		2.0	1.0	ug/m3			05/15/13 15:41	1
Bromoform	ND		8.3	2.1	ug/m3			05/15/13 15:41	1
Bromomethane	ND		3.1	0.78	ug/m3			05/15/13 15:41	1
2-Butanone (MEK)	2.2	J	2.4	1.2	ug/m3			05/15/13 15:41	1
Carbon disulfide	ND		2.5	0.62	ug/m3			05/15/13 15:41	1
Carbon tetrachloride	ND		5.0	1.3	ug/m3			05/15/13 15:41	1
Chlorobenzene	ND		1.4	0.46	ug/m3			05/15/13 15:41	1
Dibromochloromethane	ND		3.4	0.85	ug/m3			05/15/13 15:41	1
Chloroethane	ND		4.0	1.8	ug/m3			05/15/13 15:41	1
Chloroform	ND		1.5	0.49	ug/m3			05/15/13 15:41	1
Chloromethane	1.3	J	1.7	0.83	ug/m3			05/15/13 15:41	1
tert-Butyl alcohol (TBA)	ND		15	4.5	ug/m3			05/15/13 15:41	1
1,2-Dibromoethane (EDB)	ND		6.1	1.5	ug/m3			05/15/13 15:41	1
1,2-Dichlorobenzene	ND		2.4	0.90	ug/m3			05/15/13 15:41	1
1,3-Dichlorobenzene	ND		2.4	0.90	ug/m3			05/15/13 15:41	1
1,4-Dichlorobenzene	ND		2.4	0.90	ug/m3			05/15/13 15:41	1
Dichlorodifluoromethane	3.0		2.0	0.74	ug/m3			05/15/13 15:41	1
1,1-Dichloroethane	ND		1.2	0.61	ug/m3			05/15/13 15:41	1
1,2-Dichloroethane	ND		3.2	0.81	ug/m3			05/15/13 15:41	1
1,1-Dichloroethene	ND		3.2	0.79	ug/m3			05/15/13 15:41	1
cis-1,2-Dichloroethene	ND		1.6	0.79	ug/m3			05/15/13 15:41	1
trans-1,2-Dichloroethene	ND		1.6	0.79	ug/m3			05/15/13 15:41	1
1,2-Dichloropropane	ND		1.8	0.69	ug/m3			05/15/13 15:41	1
cis-1,3-Dichloropropene	ND		1.8	0.68	ug/m3			05/15/13 15:41	1
trans-1,3-Dichloropropene	ND		1.8	0.68	ug/m3			05/15/13 15:41	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8	1.0	ug/m3			05/15/13 15:41	1
Ethylbenzene	0.94	J	1.7	0.65	ug/m3			05/15/13 15:41	1
4-Ethyltoluene	1.3	J	2.0	0.74	ug/m3			05/15/13 15:41	1
Hexachlorobutadiene	3.3	J	8.5	2.1	ug/m3			05/15/13 15:41	1
2-Hexanone	ND		3.3	0.82	ug/m3			05/15/13 15:41	1
Methylene chloride	1.4		1.4	0.69	ug/m3			05/15/13 15:41	1
4-Methyl-2-pentanone (MIBK)	ND		1.6	0.61	ug/m3			05/15/13 15:41	1
Styrene	ND		1.7	0.64	ug/m3			05/15/13 15:41	1
1,1,2,2-Tetrachloroethane	ND		2.7	0.69	ug/m3			05/15/13 15:41	1
Tetrachloroethene	ND		2.7	1.0	ug/m3			05/15/13 15:41	1
Toluene	5.3		1.5	0.57	ug/m3			05/15/13 15:41	1
1,2,4-Trichlorobenzene	ND		19	5.2	ug/m3			05/15/13 15:41	1
1,1,1-Trichloroethane	ND		1.6	0.82	ug/m3			05/15/13 15:41	1

TestAmerica Irvine

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Client Sample ID: Air-1B

Lab Sample ID: 440-45897-1

Date Collected: 05/06/13 10:30

Matrix: Air

Date Received: 05/08/13 16:50

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		2.2	0.82	ug/m3			05/15/13 15:41	1
Trichloroethene	ND		2.1	0.81	ug/m3			05/15/13 15:41	1
Trichlorofluoromethane	3.0		2.2	0.84	ug/m3			05/15/13 15:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1	1.5	ug/m3			05/15/13 15:41	1
1,2,4-Trimethylbenzene	1.6	J	3.9	0.98	ug/m3			05/15/13 15:41	1
1,3,5-Trimethylbenzene	ND		2.0	0.74	ug/m3			05/15/13 15:41	1
Vinyl acetate	ND		2.8	0.70	ug/m3			05/15/13 15:41	1
Vinyl chloride	ND		1.0	0.38	ug/m3			05/15/13 15:41	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9	0.72	ug/m3			05/15/13 15:41	1
Xylenes, Total	7.0		1.7	0.65	ug/m3			05/15/13 15:41	1
Tert-amyl-methyl ether (TAME)	ND		4.2	1.3	ug/m3			05/15/13 15:41	1
Ethyl-t-butyl ether (ETBE)	ND		4.2	1.3	ug/m3			05/15/13 15:41	1
Isopropyl Ether (DIPE)	ND		4.2	1.3	ug/m3			05/15/13 15:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130					05/15/13 15:41	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130					05/15/13 15:41	1
Toluene-d8 (Surr)	96		70 - 130					05/15/13 15:41	1

Method: TO3 - Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND	LW	3.6	1.6	ppm v/v			05/10/13 22:57	1.98
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND	LW	15000	6500	ug/m3			05/10/13 22:57	1.98

Client Sample ID: Air-2B

Lab Sample ID: 440-45897-2

Date Collected: 05/06/13 10:30

Matrix: Air

Date Received: 05/08/13 16:50

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.017		0.0050	0.00060	ppm v/v			05/14/13 20:07	1
Benzene	0.00038	J	0.00040	0.00020	ppm v/v			05/14/13 20:07	1
Benzyl chloride	ND		0.00080	0.00020	ppm v/v			05/14/13 20:07	1
Bromodichloromethane	ND		0.00030	0.00015	ppm v/v			05/14/13 20:07	1
Bromoform	ND		0.00080	0.00020	ppm v/v			05/14/13 20:07	1
Bromomethane	ND		0.00080	0.00020	ppm v/v			05/14/13 20:07	1
2-Butanone (MEK)	0.0028		0.00080	0.00040	ppm v/v			05/14/13 20:07	1
Carbon disulfide	0.00048	J	0.00080	0.00020	ppm v/v			05/14/13 20:07	1
Carbon tetrachloride	ND		0.00080	0.00020	ppm v/v			05/14/13 20:07	1
Chlorobenzene	ND		0.00030	0.00010	ppm v/v			05/14/13 20:07	1
Dibromochloromethane	ND		0.00040	0.00010	ppm v/v			05/14/13 20:07	1
Chloroethane	ND		0.0015	0.00070	ppm v/v			05/14/13 20:07	1
Chloroform	ND		0.00030	0.00010	ppm v/v			05/14/13 20:07	1
Chloromethane	0.00062	J	0.00080	0.00040	ppm v/v			05/14/13 20:07	1
tert-Butyl alcohol (TBA)	ND		0.0050	0.0015	ppm v/v			05/14/13 20:07	1
1,2-Dibromoethane (EDB)	ND		0.00080	0.00020	ppm v/v			05/14/13 20:07	1
1,2-Dichlorobenzene	ND		0.00040	0.00015	ppm v/v			05/14/13 20:07	1

TestAmerica Irvine

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Client Sample ID: Air-2B

Lab Sample ID: 440-45897-2

Date Collected: 05/06/13 10:30

Matrix: Air

Date Received: 05/08/13 16:50

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.00040	0.00015	ppm v/v			05/14/13 20:07	1
1,4-Dichlorobenzene	ND		0.00040	0.00015	ppm v/v			05/14/13 20:07	1
Dichlorodifluoromethane	0.00055		0.00040	0.00015	ppm v/v			05/14/13 20:07	1
1,1-Dichloroethane	ND		0.00030	0.00015	ppm v/v			05/14/13 20:07	1
1,2-Dichloroethane	ND		0.00080	0.00020	ppm v/v			05/14/13 20:07	1
1,1-Dichloroethene	ND		0.00080	0.00020	ppm v/v			05/14/13 20:07	1
cis-1,2-Dichloroethene	ND		0.00040	0.00020	ppm v/v			05/14/13 20:07	1
trans-1,2-Dichloroethene	ND		0.00040	0.00020	ppm v/v			05/14/13 20:07	1
1,2-Dichloropropane	ND		0.00040	0.00015	ppm v/v			05/14/13 20:07	1
cis-1,3-Dichloropropene	ND		0.00040	0.00015	ppm v/v			05/14/13 20:07	1
trans-1,3-Dichloropropene	ND		0.00040	0.00015	ppm v/v			05/14/13 20:07	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.00040	0.00015	ppm v/v			05/14/13 20:07	1
Ethylbenzene	0.00036	J	0.00040	0.00015	ppm v/v			05/14/13 20:07	1
4-Ethyltoluene	ND		0.00040	0.00015	ppm v/v			05/14/13 20:07	1
Hexachlorobutadiene	ND		0.00080	0.00020	ppm v/v			05/14/13 20:07	1
2-Hexanone	ND		0.00080	0.00020	ppm v/v			05/14/13 20:07	1
Methylene chloride	0.00088		0.00040	0.00020	ppm v/v			05/14/13 20:07	1
4-Methyl-2-pentanone (MIBK)	0.00023	J	0.00040	0.00015	ppm v/v			05/14/13 20:07	1
Styrene	0.00022	J	0.00040	0.00015	ppm v/v			05/14/13 20:07	1
1,1,2,2-Tetrachloroethane	ND		0.00040	0.00010	ppm v/v			05/14/13 20:07	1
Tetrachloroethene	ND		0.00040	0.00015	ppm v/v			05/14/13 20:07	1
Toluene	0.0024		0.00040	0.00015	ppm v/v			05/14/13 20:07	1
1,2,4-Trichlorobenzene	ND		0.0025	0.00070	ppm v/v			05/14/13 20:07	1
1,1,1-Trichloroethane	ND		0.00030	0.00015	ppm v/v			05/14/13 20:07	1
1,1,2-Trichloroethane	ND		0.00040	0.00015	ppm v/v			05/14/13 20:07	1
Trichloroethene	ND		0.00040	0.00015	ppm v/v			05/14/13 20:07	1
Trichlorofluoromethane	0.019		0.00040	0.00015	ppm v/v			05/14/13 20:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00040	0.00020	ppm v/v			05/14/13 20:07	1
1,2,4-Trimethylbenzene	ND		0.00080	0.00020	ppm v/v			05/14/13 20:07	1
1,3,5-Trimethylbenzene	ND		0.00040	0.00015	ppm v/v			05/14/13 20:07	1
Vinyl acetate	0.00023	J	0.00080	0.00020	ppm v/v			05/14/13 20:07	1
Vinyl chloride	ND		0.00040	0.00015	ppm v/v			05/14/13 20:07	1
Methyl-t-Butyl Ether (MTBE)	ND		0.00080	0.00020	ppm v/v			05/14/13 20:07	1
Xylenes, Total	0.0017		0.00040	0.00015	ppm v/v			05/14/13 20:07	1
Tert-amyl-methyl ether (TAME)	ND		0.0010	0.00030	ppm v/v			05/14/13 20:07	1
Ethyl-t-butyl ether (ETBE)	ND		0.0010	0.00030	ppm v/v			05/14/13 20:07	1
Isopropyl Ether (DIPE)	ND		0.0010	0.00030	ppm v/v			05/14/13 20:07	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	40		12	1.4	ug/m3			05/14/13 20:07	1
Benzene	1.2	J	1.3	0.64	ug/m3			05/14/13 20:07	1
Benzyl chloride	ND		4.1	1.0	ug/m3			05/14/13 20:07	1
Bromodichloromethane	ND		2.0	1.0	ug/m3			05/14/13 20:07	1
Bromoform	ND		8.3	2.1	ug/m3			05/14/13 20:07	1
Bromomethane	ND		3.1	0.78	ug/m3			05/14/13 20:07	1
2-Butanone (MEK)	8.1		2.4	1.2	ug/m3			05/14/13 20:07	1
Carbon disulfide	1.5	J	2.5	0.62	ug/m3			05/14/13 20:07	1
Carbon tetrachloride	ND		5.0	1.3	ug/m3			05/14/13 20:07	1
Chlorobenzene	ND		1.4	0.46	ug/m3			05/14/13 20:07	1

TestAmerica Irvine

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Client Sample ID: Air-2B

Lab Sample ID: 440-45897-2

Date Collected: 05/06/13 10:30

Matrix: Air

Date Received: 05/08/13 16:50

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		3.4	0.85	ug/m3			05/14/13 20:07	1
Chloroethane	ND		4.0	1.8	ug/m3			05/14/13 20:07	1
Chloroform	ND		1.5	0.49	ug/m3			05/14/13 20:07	1
Chloromethane	1.3	J	1.7	0.83	ug/m3			05/14/13 20:07	1
tert-Butyl alcohol (TBA)	ND		15	4.5	ug/m3			05/14/13 20:07	1
1,2-Dibromoethane (EDB)	ND		6.1	1.5	ug/m3			05/14/13 20:07	1
1,2-Dichlorobenzene	ND		2.4	0.90	ug/m3			05/14/13 20:07	1
1,3-Dichlorobenzene	ND		2.4	0.90	ug/m3			05/14/13 20:07	1
1,4-Dichlorobenzene	ND		2.4	0.90	ug/m3			05/14/13 20:07	1
Dichlorodifluoromethane	2.7		2.0	0.74	ug/m3			05/14/13 20:07	1
1,1-Dichloroethane	ND		1.2	0.61	ug/m3			05/14/13 20:07	1
1,2-Dichloroethane	ND		3.2	0.81	ug/m3			05/14/13 20:07	1
1,1-Dichloroethene	ND		3.2	0.79	ug/m3			05/14/13 20:07	1
cis-1,2-Dichloroethene	ND		1.6	0.79	ug/m3			05/14/13 20:07	1
trans-1,2-Dichloroethene	ND		1.6	0.79	ug/m3			05/14/13 20:07	1
1,2-Dichloropropane	ND		1.8	0.69	ug/m3			05/14/13 20:07	1
cis-1,3-Dichloropropene	ND		1.8	0.68	ug/m3			05/14/13 20:07	1
trans-1,3-Dichloropropene	ND		1.8	0.68	ug/m3			05/14/13 20:07	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8	1.0	ug/m3			05/14/13 20:07	1
Ethylbenzene	1.5	J	1.7	0.65	ug/m3			05/14/13 20:07	1
4-Ethyltoluene	ND		2.0	0.74	ug/m3			05/14/13 20:07	1
Hexachlorobutadiene	ND		8.5	2.1	ug/m3			05/14/13 20:07	1
2-Hexanone	ND		3.3	0.82	ug/m3			05/14/13 20:07	1
Methylene chloride	3.1		1.4	0.69	ug/m3			05/14/13 20:07	1
4-Methyl-2-pentanone (MIBK)	0.92	J	1.6	0.61	ug/m3			05/14/13 20:07	1
Styrene	0.92	J	1.7	0.64	ug/m3			05/14/13 20:07	1
1,1,2,2-Tetrachloroethane	ND		2.7	0.69	ug/m3			05/14/13 20:07	1
Tetrachloroethene	ND		2.7	1.0	ug/m3			05/14/13 20:07	1
Toluene	9.0		1.5	0.57	ug/m3			05/14/13 20:07	1
1,2,4-Trichlorobenzene	ND		19	5.2	ug/m3			05/14/13 20:07	1
1,1,1-Trichloroethane	ND		1.6	0.82	ug/m3			05/14/13 20:07	1
1,1,2-Trichloroethane	ND		2.2	0.82	ug/m3			05/14/13 20:07	1
Trichloroethene	ND		2.1	0.81	ug/m3			05/14/13 20:07	1
Trichlorofluoromethane	110		2.2	0.84	ug/m3			05/14/13 20:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1	1.5	ug/m3			05/14/13 20:07	1
1,2,4-Trimethylbenzene	ND		3.9	0.98	ug/m3			05/14/13 20:07	1
1,3,5-Trimethylbenzene	ND		2.0	0.74	ug/m3			05/14/13 20:07	1
Vinyl acetate	0.80	J	2.8	0.70	ug/m3			05/14/13 20:07	1
Vinyl chloride	ND		1.0	0.38	ug/m3			05/14/13 20:07	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9	0.72	ug/m3			05/14/13 20:07	1
Xylenes, Total	7.4		1.7	0.65	ug/m3			05/14/13 20:07	1
Tert-amyl-methyl ether (TAME)	ND		4.2	1.3	ug/m3			05/14/13 20:07	1
Ethyl-t-butyl ether (ETBE)	ND		4.2	1.3	ug/m3			05/14/13 20:07	1
Isopropyl Ether (DIPE)	ND		4.2	1.3	ug/m3			05/14/13 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130		05/14/13 20:07	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		05/14/13 20:07	1
Toluene-d8 (Surr)	93		70 - 130		05/14/13 20:07	1

TestAmerica Irvine

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Client Sample ID: Air-2B

Lab Sample ID: 440-45897-2

Date Collected: 05/06/13 10:30

Matrix: Air

Date Received: 05/08/13 16:50

Sample Container: Summa Canister 6L

Method: TO3 - Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND	LW	3.0	1.3	ppm v/v			05/10/13 23:17	1.65

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND	LW	12000	5400	ug/m3			05/10/13 23:17	1.65

Client Sample ID: Air-3B

Lab Sample ID: 440-45897-3

Date Collected: 05/06/13 10:30

Matrix: Air

Date Received: 05/08/13 16:50

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0056		0.0050	0.0060	ppm v/v			05/14/13 20:54	1
Benzene	0.00039	J	0.00040	0.0020	ppm v/v			05/14/13 20:54	1
Benzyl chloride	ND		0.00080	0.0020	ppm v/v			05/14/13 20:54	1
Bromodichloromethane	ND		0.00030	0.0015	ppm v/v			05/14/13 20:54	1
Bromoform	ND		0.00080	0.0020	ppm v/v			05/14/13 20:54	1
Bromomethane	ND		0.00080	0.0020	ppm v/v			05/14/13 20:54	1
2-Butanone (MEK)	0.00099		0.00080	0.0040	ppm v/v			05/14/13 20:54	1
Carbon disulfide	0.00022	J	0.00080	0.0020	ppm v/v			05/14/13 20:54	1
Carbon tetrachloride	ND		0.00080	0.0020	ppm v/v			05/14/13 20:54	1
Chlorobenzene	ND		0.00030	0.0010	ppm v/v			05/14/13 20:54	1
Dibromochloromethane	ND		0.00040	0.0010	ppm v/v			05/14/13 20:54	1
Chloroethane	ND		0.0015	0.0070	ppm v/v			05/14/13 20:54	1
Chloroform	ND		0.00030	0.0010	ppm v/v			05/14/13 20:54	1
Chloromethane	0.00061	J	0.00080	0.0040	ppm v/v			05/14/13 20:54	1
tert-Butyl alcohol (TBA)	ND		0.0050	0.0015	ppm v/v			05/14/13 20:54	1
1,2-Dibromoethane (EDB)	ND		0.00080	0.0020	ppm v/v			05/14/13 20:54	1
1,2-Dichlorobenzene	ND		0.00040	0.0015	ppm v/v			05/14/13 20:54	1
1,3-Dichlorobenzene	ND		0.00040	0.0015	ppm v/v			05/14/13 20:54	1
1,4-Dichlorobenzene	ND		0.00040	0.0015	ppm v/v			05/14/13 20:54	1
Dichlorodifluoromethane	0.00052		0.00040	0.0015	ppm v/v			05/14/13 20:54	1
1,1-Dichloroethane	ND		0.00030	0.0015	ppm v/v			05/14/13 20:54	1
1,2-Dichloroethane	ND		0.00080	0.0020	ppm v/v			05/14/13 20:54	1
1,1-Dichloroethene	ND		0.00080	0.0020	ppm v/v			05/14/13 20:54	1
cis-1,2-Dichloroethene	ND		0.00040	0.0020	ppm v/v			05/14/13 20:54	1
trans-1,2-Dichloroethene	ND		0.00040	0.0020	ppm v/v			05/14/13 20:54	1
1,2-Dichloropropane	ND		0.00040	0.0015	ppm v/v			05/14/13 20:54	1
cis-1,3-Dichloropropene	ND		0.00040	0.0015	ppm v/v			05/14/13 20:54	1
trans-1,3-Dichloropropene	ND		0.00040	0.0015	ppm v/v			05/14/13 20:54	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.00040	0.0015	ppm v/v			05/14/13 20:54	1
Ethylbenzene	0.00017	J	0.00040	0.0015	ppm v/v			05/14/13 20:54	1
4-Ethyltoluene	0.00023	J	0.00040	0.0015	ppm v/v			05/14/13 20:54	1
Hexachlorobutadiene	ND		0.00080	0.0020	ppm v/v			05/14/13 20:54	1
2-Hexanone	ND		0.00080	0.0020	ppm v/v			05/14/13 20:54	1
Methylene chloride	0.00025	J	0.00040	0.0020	ppm v/v			05/14/13 20:54	1
4-Methyl-2-pentanone (MIBK)	ND		0.00040	0.0015	ppm v/v			05/14/13 20:54	1
Styrene	ND		0.00040	0.0015	ppm v/v			05/14/13 20:54	1
1,1,2,2-Tetrachloroethane	ND		0.00040	0.0010	ppm v/v			05/14/13 20:54	1

TestAmerica Irvine

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Client Sample ID: Air-3B

Lab Sample ID: 440-45897-3

Date Collected: 05/06/13 10:30

Matrix: Air

Date Received: 05/08/13 16:50

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.00040	0.00015	ppm v/v			05/14/13 20:54	1
Toluene	0.0011		0.00040	0.00015	ppm v/v			05/14/13 20:54	1
1,2,4-Trichlorobenzene	ND		0.0025	0.00070	ppm v/v			05/14/13 20:54	1
1,1,1-Trichloroethane	ND		0.00030	0.00015	ppm v/v			05/14/13 20:54	1
1,1,2-Trichloroethane	ND		0.00040	0.00015	ppm v/v			05/14/13 20:54	1
Trichloroethene	ND		0.00040	0.00015	ppm v/v			05/14/13 20:54	1
Trichlorofluoromethane	0.0032		0.00040	0.00015	ppm v/v			05/14/13 20:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00040	0.00020	ppm v/v			05/14/13 20:54	1
1,2,4-Trimethylbenzene	0.00027	J	0.00080	0.00020	ppm v/v			05/14/13 20:54	1
1,3,5-Trimethylbenzene	0.00019	J	0.00040	0.00015	ppm v/v			05/14/13 20:54	1
Vinyl acetate	ND		0.00080	0.00020	ppm v/v			05/14/13 20:54	1
Vinyl chloride	ND		0.00040	0.00015	ppm v/v			05/14/13 20:54	1
Methyl-t-Butyl Ether (MTBE)	ND		0.00080	0.00020	ppm v/v			05/14/13 20:54	1
Xylenes, Total	0.0017		0.00040	0.00015	ppm v/v			05/14/13 20:54	1
Tert-amyl-methyl ether (TAME)	ND		0.0010	0.00030	ppm v/v			05/14/13 20:54	1
Ethyl-t-butyl ether (ETBE)	ND		0.0010	0.00030	ppm v/v			05/14/13 20:54	1
Isopropyl Ether (DIPE)	ND		0.0010	0.00030	ppm v/v			05/14/13 20:54	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	13		12	1.4	ug/m3			05/14/13 20:54	1
Benzene	1.3	J	1.3	0.64	ug/m3			05/14/13 20:54	1
Benzyl chloride	ND		4.1	1.0	ug/m3			05/14/13 20:54	1
Bromodichloromethane	ND		2.0	1.0	ug/m3			05/14/13 20:54	1
Bromoform	ND		8.3	2.1	ug/m3			05/14/13 20:54	1
Bromomethane	ND		3.1	0.78	ug/m3			05/14/13 20:54	1
2-Butanone (MEK)	2.9		2.4	1.2	ug/m3			05/14/13 20:54	1
Carbon disulfide	0.67	J	2.5	0.62	ug/m3			05/14/13 20:54	1
Carbon tetrachloride	ND		5.0	1.3	ug/m3			05/14/13 20:54	1
Chlorobenzene	ND		1.4	0.46	ug/m3			05/14/13 20:54	1
Dibromochloromethane	ND		3.4	0.85	ug/m3			05/14/13 20:54	1
Chloroethane	ND		4.0	1.8	ug/m3			05/14/13 20:54	1
Chloroform	ND		1.5	0.49	ug/m3			05/14/13 20:54	1
Chloromethane	1.3	J	1.7	0.83	ug/m3			05/14/13 20:54	1
tert-Butyl alcohol (TBA)	ND		15	4.5	ug/m3			05/14/13 20:54	1
1,2-Dibromoethane (EDB)	ND		6.1	1.5	ug/m3			05/14/13 20:54	1
1,2-Dichlorobenzene	ND		2.4	0.90	ug/m3			05/14/13 20:54	1
1,3-Dichlorobenzene	ND		2.4	0.90	ug/m3			05/14/13 20:54	1
1,4-Dichlorobenzene	ND		2.4	0.90	ug/m3			05/14/13 20:54	1
Dichlorodifluoromethane	2.6		2.0	0.74	ug/m3			05/14/13 20:54	1
1,1-Dichloroethane	ND		1.2	0.61	ug/m3			05/14/13 20:54	1
1,2-Dichloroethane	ND		3.2	0.81	ug/m3			05/14/13 20:54	1
1,1-Dichloroethene	ND		3.2	0.79	ug/m3			05/14/13 20:54	1
cis-1,2-Dichloroethene	ND		1.6	0.79	ug/m3			05/14/13 20:54	1
trans-1,2-Dichloroethene	ND		1.6	0.79	ug/m3			05/14/13 20:54	1
1,2-Dichloropropane	ND		1.8	0.69	ug/m3			05/14/13 20:54	1
cis-1,3-Dichloropropene	ND		1.8	0.68	ug/m3			05/14/13 20:54	1
trans-1,3-Dichloropropene	ND		1.8	0.68	ug/m3			05/14/13 20:54	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8	1.0	ug/m3			05/14/13 20:54	1
Ethylbenzene	0.74	J	1.7	0.65	ug/m3			05/14/13 20:54	1

TestAmerica Irvine

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Client Sample ID: Air-3B

Lab Sample ID: 440-45897-3

Date Collected: 05/06/13 10:30

Matrix: Air

Date Received: 05/08/13 16:50

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Ethyltoluene	1.1	J	2.0	0.74	ug/m3			05/14/13 20:54	1
Hexachlorobutadiene	ND		8.5	2.1	ug/m3			05/14/13 20:54	1
2-Hexanone	ND		3.3	0.82	ug/m3			05/14/13 20:54	1
Methylene chloride	0.85	J	1.4	0.69	ug/m3			05/14/13 20:54	1
4-Methyl-2-pentanone (MIBK)	ND		1.6	0.61	ug/m3			05/14/13 20:54	1
Styrene	ND		1.7	0.64	ug/m3			05/14/13 20:54	1
1,1,2,2-Tetrachloroethane	ND		2.7	0.69	ug/m3			05/14/13 20:54	1
Tetrachloroethene	ND		2.7	1.0	ug/m3			05/14/13 20:54	1
Toluene	4.2		1.5	0.57	ug/m3			05/14/13 20:54	1
1,2,4-Trichlorobenzene	ND		19	5.2	ug/m3			05/14/13 20:54	1
1,1,1-Trichloroethane	ND		1.6	0.82	ug/m3			05/14/13 20:54	1
1,1,2-Trichloroethane	ND		2.2	0.82	ug/m3			05/14/13 20:54	1
Trichloroethene	ND		2.1	0.81	ug/m3			05/14/13 20:54	1
Trichlorofluoromethane	18		2.2	0.84	ug/m3			05/14/13 20:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1	1.5	ug/m3			05/14/13 20:54	1
1,2,4-Trimethylbenzene	1.3	J	3.9	0.98	ug/m3			05/14/13 20:54	1
1,3,5-Trimethylbenzene	0.94	J	2.0	0.74	ug/m3			05/14/13 20:54	1
Vinyl acetate	ND		2.8	0.70	ug/m3			05/14/13 20:54	1
Vinyl chloride	ND		1.0	0.38	ug/m3			05/14/13 20:54	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9	0.72	ug/m3			05/14/13 20:54	1
Xylenes, Total	7.5		1.7	0.65	ug/m3			05/14/13 20:54	1
Tert-amyl-methyl ether (TAME)	ND		4.2	1.3	ug/m3			05/14/13 20:54	1
Ethyl-t-butyl ether (ETBE)	ND		4.2	1.3	ug/m3			05/14/13 20:54	1
Isopropyl Ether (DIPE)	ND		4.2	1.3	ug/m3			05/14/13 20:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130		05/14/13 20:54	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		05/14/13 20:54	1
Toluene-d8 (Surr)	94		70 - 130		05/14/13 20:54	1

Method: TO3 - Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND	LW	3.8	1.7	ppm v/v			05/10/13 23:38	2.09

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND	LW	15000	6800	ug/m3			05/10/13 23:38	2.09

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL CM
TO3	Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)	EPA	TAL CM

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL CM = TestAmerica Costa Mesa, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626, TEL (714)258-8610

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Client Sample ID: Air-1B

Lab Sample ID: 440-45897-1

Date Collected: 05/06/13 10:30

Matrix: Air

Date Received: 05/08/13 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	494 mL	250 mL	4748	05/15/13 15:41	DLK	TAL CM
Total/NA	Analysis	TO3		1.98	1 mL	1 mL	4733	05/10/13 22:57	JGA	TAL CM

Client Sample ID: Air-2B

Lab Sample ID: 440-45897-2

Date Collected: 05/06/13 10:30

Matrix: Air

Date Received: 05/08/13 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	413 mL	250 mL	4740	05/14/13 20:07	DLK	TAL CM
Total/NA	Analysis	TO3		1.65	1 mL	1 mL	4733	05/10/13 23:17	JGA	TAL CM

Client Sample ID: Air-3B

Lab Sample ID: 440-45897-3

Date Collected: 05/06/13 10:30

Matrix: Air

Date Received: 05/08/13 16:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	523 mL	250 mL	4740	05/14/13 20:54	DLK	TAL CM
Total/NA	Analysis	TO3		2.09	1 mL	1 mL	4733	05/10/13 23:38	JGA	TAL CM

Laboratory References:

TAL CM = TestAmerica Costa Mesa, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626, TEL (714)258-8610

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 340-4740/9

Matrix: Air

Analysis Batch: 4740

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	ND		0.0050	0.00060	ppm v/v			05/14/13 14:36	1
Benzene	ND		0.00040	0.00020	ppm v/v			05/14/13 14:36	1
Benzyl chloride	ND		0.00080	0.00020	ppm v/v			05/14/13 14:36	1
Bromodichloromethane	ND		0.00030	0.00015	ppm v/v			05/14/13 14:36	1
Bromoform	ND		0.00080	0.00020	ppm v/v			05/14/13 14:36	1
Bromomethane	ND		0.00080	0.00020	ppm v/v			05/14/13 14:36	1
2-Butanone (MEK)	ND		0.00080	0.00040	ppm v/v			05/14/13 14:36	1
Carbon disulfide	ND		0.00080	0.00020	ppm v/v			05/14/13 14:36	1
Carbon tetrachloride	ND		0.00080	0.00020	ppm v/v			05/14/13 14:36	1
Chlorobenzene	ND		0.00030	0.00010	ppm v/v			05/14/13 14:36	1
Dibromochloromethane	ND		0.00040	0.00010	ppm v/v			05/14/13 14:36	1
Chloroethane	ND		0.0015	0.00070	ppm v/v			05/14/13 14:36	1
Chloroform	ND		0.00030	0.00010	ppm v/v			05/14/13 14:36	1
Chloromethane	ND		0.00080	0.00040	ppm v/v			05/14/13 14:36	1
tert-Butyl alcohol (TBA)	ND		0.0050	0.0015	ppm v/v			05/14/13 14:36	1
1,2-Dibromoethane (EDB)	ND		0.00080	0.00020	ppm v/v			05/14/13 14:36	1
1,2-Dichlorobenzene	ND		0.00040	0.00015	ppm v/v			05/14/13 14:36	1
1,3-Dichlorobenzene	ND		0.00040	0.00015	ppm v/v			05/14/13 14:36	1
1,4-Dichlorobenzene	ND		0.00040	0.00015	ppm v/v			05/14/13 14:36	1
Dichlorodifluoromethane	ND		0.00040	0.00015	ppm v/v			05/14/13 14:36	1
1,1-Dichloroethane	ND		0.00030	0.00015	ppm v/v			05/14/13 14:36	1
1,2-Dichloroethane	ND		0.00080	0.00020	ppm v/v			05/14/13 14:36	1
1,1-Dichloroethene	ND		0.00080	0.00020	ppm v/v			05/14/13 14:36	1
cis-1,2-Dichloroethene	ND		0.00040	0.00020	ppm v/v			05/14/13 14:36	1
trans-1,2-Dichloroethene	ND		0.00040	0.00020	ppm v/v			05/14/13 14:36	1
1,2-Dichloropropane	ND		0.00040	0.00015	ppm v/v			05/14/13 14:36	1
cis-1,3-Dichloropropene	ND		0.00040	0.00015	ppm v/v			05/14/13 14:36	1
trans-1,3-Dichloropropene	ND		0.00040	0.00015	ppm v/v			05/14/13 14:36	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.00040	0.00015	ppm v/v			05/14/13 14:36	1
Ethylbenzene	ND		0.00040	0.00015	ppm v/v			05/14/13 14:36	1
4-Ethyltoluene	ND		0.00040	0.00015	ppm v/v			05/14/13 14:36	1
Hexachlorobutadiene	ND		0.00080	0.00020	ppm v/v			05/14/13 14:36	1
2-Hexanone	ND		0.00080	0.00020	ppm v/v			05/14/13 14:36	1
Methylene chloride	ND		0.00040	0.00020	ppm v/v			05/14/13 14:36	1
4-Methyl-2-pentanone (MIBK)	ND		0.00040	0.00015	ppm v/v			05/14/13 14:36	1
Styrene	ND		0.00040	0.00015	ppm v/v			05/14/13 14:36	1
1,1,2,2-Tetrachloroethane	ND		0.00040	0.00010	ppm v/v			05/14/13 14:36	1
Tetrachloroethene	ND		0.00040	0.00015	ppm v/v			05/14/13 14:36	1
Toluene	ND		0.00040	0.00015	ppm v/v			05/14/13 14:36	1
1,2,4-Trichlorobenzene	ND		0.0025	0.00070	ppm v/v			05/14/13 14:36	1
1,1,1-Trichloroethane	ND		0.00030	0.00015	ppm v/v			05/14/13 14:36	1
1,1,2-Trichloroethane	ND		0.00040	0.00015	ppm v/v			05/14/13 14:36	1
Trichloroethene	ND		0.00040	0.00015	ppm v/v			05/14/13 14:36	1
Trichlorofluoromethane	ND		0.00040	0.00015	ppm v/v			05/14/13 14:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00040	0.00020	ppm v/v			05/14/13 14:36	1
1,2,4-Trimethylbenzene	ND		0.00080	0.00020	ppm v/v			05/14/13 14:36	1
1,3,5-Trimethylbenzene	ND		0.00040	0.00015	ppm v/v			05/14/13 14:36	1
Vinyl acetate	ND		0.00080	0.00020	ppm v/v			05/14/13 14:36	1

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 340-4740/9

Matrix: Air

Analysis Batch: 4740

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Vinyl chloride	ND		0.00040	0.00015	ppm v/v			05/14/13 14:36	1
Methyl-t-Butyl Ether (MTBE)	ND		0.00080	0.00020	ppm v/v			05/14/13 14:36	1
Xylenes, Total	ND		0.00040	0.00015	ppm v/v			05/14/13 14:36	1
Tert-amyl-methyl ether (TAME)	ND		0.0010	0.00030	ppm v/v			05/14/13 14:36	1
Ethyl-t-butyl ether (ETBE)	ND		0.0010	0.00030	ppm v/v			05/14/13 14:36	1
Isopropyl Ether (DIPE)	ND		0.0010	0.00030	ppm v/v			05/14/13 14:36	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	ND		12	1.4	ug/m3			05/14/13 14:36	1
Benzene	ND		1.3	0.64	ug/m3			05/14/13 14:36	1
Benzyl chloride	ND		4.1	1.0	ug/m3			05/14/13 14:36	1
Bromodichloromethane	ND		2.0	1.0	ug/m3			05/14/13 14:36	1
Bromoform	ND		8.3	2.1	ug/m3			05/14/13 14:36	1
Bromomethane	ND		3.1	0.78	ug/m3			05/14/13 14:36	1
2-Butanone (MEK)	ND		2.4	1.2	ug/m3			05/14/13 14:36	1
Carbon disulfide	ND		2.5	0.62	ug/m3			05/14/13 14:36	1
Carbon tetrachloride	ND		5.0	1.3	ug/m3			05/14/13 14:36	1
Chlorobenzene	ND		1.4	0.46	ug/m3			05/14/13 14:36	1
Dibromochloromethane	ND		3.4	0.85	ug/m3			05/14/13 14:36	1
Chloroethane	ND		4.0	1.8	ug/m3			05/14/13 14:36	1
Chloroform	ND		1.5	0.49	ug/m3			05/14/13 14:36	1
Chloromethane	ND		1.7	0.83	ug/m3			05/14/13 14:36	1
tert-Butyl alcohol (TBA)	ND		15	4.5	ug/m3			05/14/13 14:36	1
1,2-Dibromoethane (EDB)	ND		6.1	1.5	ug/m3			05/14/13 14:36	1
1,2-Dichlorobenzene	ND		2.4	0.90	ug/m3			05/14/13 14:36	1
1,3-Dichlorobenzene	ND		2.4	0.90	ug/m3			05/14/13 14:36	1
1,4-Dichlorobenzene	ND		2.4	0.90	ug/m3			05/14/13 14:36	1
Dichlorodifluoromethane	ND		2.0	0.74	ug/m3			05/14/13 14:36	1
1,1-Dichloroethane	ND		1.2	0.61	ug/m3			05/14/13 14:36	1
1,2-Dichloroethane	ND		3.2	0.81	ug/m3			05/14/13 14:36	1
1,1-Dichloroethene	ND		3.2	0.79	ug/m3			05/14/13 14:36	1
cis-1,2-Dichloroethene	ND		1.6	0.79	ug/m3			05/14/13 14:36	1
trans-1,2-Dichloroethene	ND		1.6	0.79	ug/m3			05/14/13 14:36	1
1,2-Dichloropropane	ND		1.8	0.69	ug/m3			05/14/13 14:36	1
cis-1,3-Dichloropropene	ND		1.8	0.68	ug/m3			05/14/13 14:36	1
trans-1,3-Dichloropropene	ND		1.8	0.68	ug/m3			05/14/13 14:36	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8	1.0	ug/m3			05/14/13 14:36	1
Ethylbenzene	ND		1.7	0.65	ug/m3			05/14/13 14:36	1
4-Ethyltoluene	ND		2.0	0.74	ug/m3			05/14/13 14:36	1
Hexachlorobutadiene	ND		8.5	2.1	ug/m3			05/14/13 14:36	1
2-Hexanone	ND		3.3	0.82	ug/m3			05/14/13 14:36	1
Methylene chloride	ND		1.4	0.69	ug/m3			05/14/13 14:36	1
4-Methyl-2-pentanone (MIBK)	ND		1.6	0.61	ug/m3			05/14/13 14:36	1
Styrene	ND		1.7	0.64	ug/m3			05/14/13 14:36	1
1,1,2,2-Tetrachloroethane	ND		2.7	0.69	ug/m3			05/14/13 14:36	1
Tetrachloroethene	ND		2.7	1.0	ug/m3			05/14/13 14:36	1
Toluene	ND		1.5	0.57	ug/m3			05/14/13 14:36	1
1,2,4-Trichlorobenzene	ND		19	5.2	ug/m3			05/14/13 14:36	1

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 340-4740/9

Matrix: Air

Analysis Batch: 4740

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.6	0.82	ug/m3			05/14/13 14:36	1
1,1,2-Trichloroethane	ND		2.2	0.82	ug/m3			05/14/13 14:36	1
Trichloroethene	ND		2.1	0.81	ug/m3			05/14/13 14:36	1
Trichlorofluoromethane	ND		2.2	0.84	ug/m3			05/14/13 14:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1	1.5	ug/m3			05/14/13 14:36	1
1,2,4-Trimethylbenzene	ND		3.9	0.98	ug/m3			05/14/13 14:36	1
1,3,5-Trimethylbenzene	ND		2.0	0.74	ug/m3			05/14/13 14:36	1
Vinyl acetate	ND		2.8	0.70	ug/m3			05/14/13 14:36	1
Vinyl chloride	ND		1.0	0.38	ug/m3			05/14/13 14:36	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9	0.72	ug/m3			05/14/13 14:36	1
Xylenes, Total	ND		1.7	0.65	ug/m3			05/14/13 14:36	1
Tert-amyl-methyl ether (TAME)	ND		4.2	1.3	ug/m3			05/14/13 14:36	1
Ethyl-t-butyl ether (ETBE)	ND		4.2	1.3	ug/m3			05/14/13 14:36	1
Isopropyl Ether (DIPE)	ND		4.2	1.3	ug/m3			05/14/13 14:36	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	93		70 - 130		05/14/13 14:36	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		05/14/13 14:36	1
Toluene-d8 (Surr)	93		70 - 130		05/14/13 14:36	1

Lab Sample ID: LCS 340-4740/5

Matrix: Air

Analysis Batch: 4740

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tert-amyl-methyl ether (TAME)	0.0100	0.00967		ppm v/v		97	70 - 130
Ethyl-t-butyl ether (ETBE)	0.0100	0.0104		ppm v/v		104	70 - 130
Isopropyl Ether (DIPE)	0.0100	0.0101		ppm v/v		101	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tert-amyl-methyl ether (TAME)	42	40.4		ug/m3		97	70 - 130
Ethyl-t-butyl ether (ETBE)	42	43.3		ug/m3		104	70 - 130
Isopropyl Ether (DIPE)	42	42.1		ug/m3		101	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCS 340-4740/7

Matrix: Air

Analysis Batch: 4740

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0100	0.0102		ppm v/v		102	70 - 130

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 340-4740/7

Matrix: Air

Analysis Batch: 4740

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzyl chloride	0.0110	0.0131		ppm v/v		119	70 - 130
Bromodichloromethane	0.0100	0.0103		ppm v/v		103	70 - 130
Bromoform	0.0100	0.0120		ppm v/v		120	70 - 130
Bromomethane	0.0100	0.00874		ppm v/v		87	70 - 130
2-Butanone (MEK)	0.0100	0.0120		ppm v/v		120	70 - 130
Carbon disulfide	0.0100	0.0117		ppm v/v		117	70 - 130
Carbon tetrachloride	0.0100	0.00919		ppm v/v		92	70 - 130
Chlorobenzene	0.0107	0.0111		ppm v/v		103	70 - 130
Dibromochloromethane	0.0115	0.0110		ppm v/v		96	70 - 130
Chloroethane	0.0100	0.00958		ppm v/v		96	70 - 130
Chloroform	0.0100	0.00990		ppm v/v		99	70 - 130
Chloromethane	0.0100	0.00846		ppm v/v		85	70 - 130
1,2-Dibromoethane (EDB)	0.0100	0.0110		ppm v/v		110	70 - 130
1,2-Dichlorobenzene	0.0108	0.0124		ppm v/v		115	70 - 130
1,3-Dichlorobenzene	0.0110	0.0123		ppm v/v		112	70 - 130
1,4-Dichlorobenzene	0.0100	0.0122		ppm v/v		122	70 - 130
Dichlorodifluoromethane	0.0100	0.00964		ppm v/v		96	70 - 130
1,1-Dichloroethane	0.0100	0.0104		ppm v/v		104	70 - 130
1,2-Dichloroethane	0.0100	0.00942		ppm v/v		94	70 - 130
1,1-Dichloroethene	0.0100	0.00981		ppm v/v		98	70 - 130
cis-1,2-Dichloroethene	0.0100	0.0121		ppm v/v		121	70 - 130
trans-1,2-Dichloroethene	0.0100	0.0116		ppm v/v		116	70 - 130
1,2-Dichloropropane	0.0100	0.0106		ppm v/v		106	70 - 130
cis-1,3-Dichloropropene	0.0106	0.0111		ppm v/v		105	70 - 130
trans-1,3-Dichloropropene	0.0100	0.00903		ppm v/v		90	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.0100	0.00866		ppm v/v		87	70 - 130
Ethylbenzene	0.0106	0.0109		ppm v/v		103	70 - 130
4-Ethyltoluene	0.0100	0.0107		ppm v/v		107	70 - 130
Hexachlorobutadiene	0.0100	0.0106		ppm v/v		106	70 - 130
2-Hexanone	0.0100	0.0109		ppm v/v		109	70 - 130
Methylene chloride	0.0100	0.00942		ppm v/v		94	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0100	0.00995		ppm v/v		99	70 - 130
Styrene	0.0108	0.0118		ppm v/v		109	70 - 130
1,1,2,2-Tetrachloroethane	0.0108	0.0116		ppm v/v		108	70 - 130
Tetrachloroethene	0.0100	0.0100		ppm v/v		100	70 - 130
Toluene	0.0100	0.0110		ppm v/v		110	70 - 130
1,2,4-Trichlorobenzene	0.0100	0.0107		ppm v/v		107	70 - 130
1,1,1-Trichloroethane	0.0100	0.00999		ppm v/v		100	70 - 130
1,1,2-Trichloroethane	0.0100	0.0109		ppm v/v		109	70 - 130
Trichloroethene	0.0100	0.0110		ppm v/v		110	70 - 130
Trichlorofluoromethane	0.0100	0.00958		ppm v/v		96	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00940	0.0105		ppm v/v		112	70 - 130
1,2,4-Trimethylbenzene	0.0100	0.0104		ppm v/v		104	70 - 130
1,3,5-Trimethylbenzene	0.0106	0.0113		ppm v/v		107	70 - 130
Vinyl acetate	0.0109	0.0118		ppm v/v		108	70 - 130
Vinyl chloride	0.0100	0.00948		ppm v/v		95	70 - 130
m,p-Xylene	0.0200	0.0219		ppm v/v		109	70 - 130

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 340-4740/7

Matrix: Air

Analysis Batch: 4740

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
o-Xylene	0.0108	0.0110		ppm v/v		102	70 - 130
Methyl-t-Butyl Ether (MTBE)	0.0100	0.0112		ppm v/v		112	70 - 130
Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Acetone	24	20.2		ug/m3		85	70 - 130
Benzene	32	32.7		ug/m3		102	70 - 130
Benzyl chloride	57	67.8		ug/m3		119	70 - 130
Bromodichloromethane	67	68.9		ug/m3		103	70 - 130
Bromoform	100	124		ug/m3		120	70 - 130
Bromomethane	39	33.9		ug/m3		87	70 - 130
2-Butanone (MEK)	29	35.3		ug/m3		120	70 - 130
Carbon disulfide	31	36.5		ug/m3		117	70 - 130
Carbon tetrachloride	63	57.8		ug/m3		92	70 - 130
Chlorobenzene	49	50.8		ug/m3		103	70 - 130
Dibromochloromethane	98	93.6		ug/m3		96	70 - 130
Chloroethane	26	25.3		ug/m3		96	70 - 130
Chloroform	49	48.3		ug/m3		99	70 - 130
Chloromethane	21	17.5		ug/m3		85	70 - 130
1,2-Dibromoethane (EDB)	77	84.2		ug/m3		110	70 - 130
1,2-Dichlorobenzene	65	74.6		ug/m3		115	70 - 130
1,3-Dichlorobenzene	66	74.0		ug/m3		112	70 - 130
1,4-Dichlorobenzene	60	73.3		ug/m3		122	70 - 130
Dichlorodifluoromethane	49	47.7		ug/m3		96	70 - 130
1,1-Dichloroethane	40	41.9		ug/m3		104	70 - 130
1,2-Dichloroethane	40	38.1		ug/m3		94	70 - 130
1,1-Dichloroethene	40	38.9		ug/m3		98	70 - 130
cis-1,2-Dichloroethene	40	47.9		ug/m3		121	70 - 130
trans-1,2-Dichloroethene	40	46.0		ug/m3		116	70 - 130
1,2-Dichloropropane	46	48.8		ug/m3		106	70 - 130
cis-1,3-Dichloropropene	48	50.3		ug/m3		105	70 - 130
trans-1,3-Dichloropropene	45	41.0		ug/m3		90	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	70	60.5		ug/m3		87	70 - 130
Ethylbenzene	46	47.2		ug/m3		103	70 - 130
4-Ethyltoluene	49	52.7		ug/m3		107	70 - 130
Hexachlorobutadiene	110	113		ug/m3		106	70 - 130
2-Hexanone	41	44.6		ug/m3		109	70 - 130
Methylene chloride	35	32.7		ug/m3		94	70 - 130
4-Methyl-2-pentanone (MIBK)	41	40.7		ug/m3		99	70 - 130
Styrene	46	50.1		ug/m3		109	70 - 130
1,1,2,2-Tetrachloroethane	74	79.9		ug/m3		108	70 - 130
Tetrachloroethene	68	68.1		ug/m3		100	70 - 130
Toluene	38	41.3		ug/m3		110	70 - 130
1,2,4-Trichlorobenzene	74	79.3		ug/m3		107	70 - 130
1,1,1-Trichloroethane	55	54.5		ug/m3		100	70 - 130
1,1,2-Trichloroethane	55	59.5		ug/m3		109	70 - 130
Trichloroethene	54	59.2		ug/m3		110	70 - 130
Trichlorofluoromethane	56	53.8		ug/m3		96	70 - 130

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 340-4740/7

Matrix: Air

Analysis Batch: 4740

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	72	80.8		ug/m3		112	70 - 130
1,2,4-Trimethylbenzene	49	51.1		ug/m3		104	70 - 130
1,3,5-Trimethylbenzene	52	55.6		ug/m3		107	70 - 130
Vinyl acetate	38	41.6		ug/m3		108	70 - 130
Vinyl chloride	26	24.2		ug/m3		95	70 - 130
m,p-Xylene	87	95.1		ug/m3		109	70 - 130
o-Xylene	47	47.9		ug/m3		102	70 - 130
Methyl-t-Butyl Ether (MTBE)	36	40.4		ug/m3		112	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 340-4740/6

Matrix: Air

Analysis Batch: 4740

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
tert-Butyl alcohol (TBA)	0.0500	0.0517		ppm v/v		103	70 - 130	0	25
Tert-amyl-methyl ether (TAME)	0.0100	0.00974		ppm v/v		97	70 - 130	1	25
Ethyl-t-butyl ether (ETBE)	0.0100	0.0103		ppm v/v		103	70 - 130	0	25
Isopropyl Ether (DIPE)	0.0100	0.0101		ppm v/v		101	70 - 130	0	25

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
tert-Butyl alcohol (TBA)	150	157		ug/m3		103	70 - 130	0	25
Tert-amyl-methyl ether (TAME)	42	40.7		ug/m3		97	70 - 130	1	25
Ethyl-t-butyl ether (ETBE)	42	43.2		ug/m3		103	70 - 130	0	25
Isopropyl Ether (DIPE)	42	42.2		ug/m3		101	70 - 130	0	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCSD 340-4740/8

Matrix: Air

Analysis Batch: 4740

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0100	0.00849		ppm v/v		85	70 - 130	0	25
Benzene	0.0100	0.0102		ppm v/v		102	70 - 130	1	25
Benzyl chloride	0.0110	0.0124		ppm v/v		113	70 - 130	5	25
Bromodichloromethane	0.0100	0.0103		ppm v/v		103	70 - 130	0	25
Bromoform	0.0100	0.0116		ppm v/v		116	70 - 130	3	25
Bromomethane	0.0100	0.00861		ppm v/v		86	70 - 130	2	25
2-Butanone (MEK)	0.0100	0.0125		ppm v/v		125	70 - 130	4	25

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 340-4740/8

Matrix: Air

Analysis Batch: 4740

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		
Carbon disulfide	0.0100	0.0119		ppm v/v		119	70 - 130	2	25
Carbon tetrachloride	0.0100	0.00916		ppm v/v		92	70 - 130	0	25
Chlorobenzene	0.0107	0.0109		ppm v/v		102	70 - 130	1	25
Dibromochloromethane	0.0115	0.0110		ppm v/v		95	70 - 130	0	25
Chloroethane	0.0100	0.00953		ppm v/v		95	70 - 130	1	25
Chloroform	0.0100	0.0101		ppm v/v		101	70 - 130	2	25
Chloromethane	0.0100	0.00860		ppm v/v		86	70 - 130	2	25
1,2-Dibromoethane (EDB)	0.0100	0.0109		ppm v/v		109	70 - 130	0	25
1,2-Dichlorobenzene	0.0108	0.0125		ppm v/v		115	70 - 130	0	25
1,3-Dichlorobenzene	0.0110	0.0120		ppm v/v		109	70 - 130	3	25
1,4-Dichlorobenzene	0.0100	0.0119		ppm v/v		119	70 - 130	3	25
Dichlorodifluoromethane	0.0100	0.0102		ppm v/v		102	70 - 130	6	25
1,1-Dichloroethane	0.0100	0.0105		ppm v/v		105	70 - 130	1	25
1,2-Dichloroethane	0.0100	0.00930		ppm v/v		93	70 - 130	1	25
1,1-Dichloroethene	0.0100	0.0100		ppm v/v		100	70 - 130	2	25
cis-1,2-Dichloroethene	0.0100	0.0125		ppm v/v		125	70 - 130	3	25
trans-1,2-Dichloroethene	0.0100	0.0119		ppm v/v		119	70 - 130	2	25
1,2-Dichloropropane	0.0100	0.0104		ppm v/v		104	70 - 130	2	25
cis-1,3-Dichloropropene	0.0106	0.0109		ppm v/v		103	70 - 130	1	25
trans-1,3-Dichloropropene	0.0100	0.00866		ppm v/v		87	70 - 130	4	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.0100	0.00887		ppm v/v		89	70 - 130	2	25
Ethylbenzene	0.0106	0.0107		ppm v/v		101	70 - 130	2	25
4-Ethyltoluene	0.0100	0.0102		ppm v/v		102	70 - 130	5	25
Hexachlorobutadiene	0.0100	0.0123		ppm v/v		123	70 - 130	14	25
2-Hexanone	0.0100	0.0106		ppm v/v		106	70 - 130	3	25
Methylene chloride	0.0100	0.00937		ppm v/v		94	70 - 130	1	25
4-Methyl-2-pentanone (MIBK)	0.0100	0.00974		ppm v/v		97	70 - 130	2	25
Styrene	0.0108	0.0113		ppm v/v		105	70 - 130	4	25
1,1,2,2-Tetrachloroethane	0.0108	0.0112		ppm v/v		104	70 - 130	4	25
Tetrachloroethene	0.0100	0.00998		ppm v/v		100	70 - 130	1	25
Toluene	0.0100	0.0109		ppm v/v		109	70 - 130	1	25
1,2,4-Trichlorobenzene	0.0100	0.0126		ppm v/v		126	70 - 130	16	25
1,1,1-Trichloroethane	0.0100	0.0102		ppm v/v		102	70 - 130	2	25
1,1,2-Trichloroethane	0.0100	0.0107		ppm v/v		107	70 - 130	2	25
Trichloroethene	0.0100	0.0111		ppm v/v		111	70 - 130	1	25
Trichlorofluoromethane	0.0100	0.00984		ppm v/v		98	70 - 130	3	25
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00940	0.0108		ppm v/v		115	70 - 130	3	25
1,2,4-Trimethylbenzene	0.0100	0.00999		ppm v/v		100	70 - 130	4	25
1,3,5-Trimethylbenzene	0.0106	0.0109		ppm v/v		103	70 - 130	3	25
Vinyl acetate	0.0109	0.0119		ppm v/v		109	70 - 130	1	25
Vinyl chloride	0.0100	0.00958		ppm v/v		96	70 - 130	1	25
m,p-Xylene	0.0200	0.0214		ppm v/v		107	70 - 130	2	25
o-Xylene	0.0108	0.0106		ppm v/v		99	70 - 130	4	25
Methyl-t-Butyl Ether (MTBE)	0.0100	0.0115		ppm v/v		115	70 - 130	3	25
Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
Analyte	Added	Result	Qualifier				Limits		
Acetone	24	20.2		ug/m3		85	70 - 130	0	25

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 340-4740/8

Matrix: Air

Analysis Batch: 4740

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	32	32.5		ug/m3		102	70 - 130	1	25
Benzyl chloride	57	64.3		ug/m3		113	70 - 130	5	25
Bromodichloromethane	67	68.8		ug/m3		103	70 - 130	0	25
Bromoform	100	120		ug/m3		116	70 - 130	3	25
Bromomethane	39	33.4		ug/m3		86	70 - 130	2	25
2-Butanone (MEK)	29	36.9		ug/m3		125	70 - 130	4	25
Carbon disulfide	31	37.1		ug/m3		119	70 - 130	2	25
Carbon tetrachloride	63	57.6		ug/m3		92	70 - 130	0	25
Chlorobenzene	49	50.2		ug/m3		102	70 - 130	1	25
Dibromochloromethane	98	93.4		ug/m3		95	70 - 130	0	25
Chloroethane	26	25.1		ug/m3		95	70 - 130	1	25
Chloroform	49	49.6		ug/m3		101	70 - 130	2	25
Chloromethane	21	17.8		ug/m3		86	70 - 130	2	25
1,2-Dibromoethane (EDB)	77	83.9		ug/m3		109	70 - 130	0	25
1,2-Dichlorobenzene	65	74.9		ug/m3		115	70 - 130	0	25
1,3-Dichlorobenzene	66	72.0		ug/m3		109	70 - 130	3	25
1,4-Dichlorobenzene	60	71.3		ug/m3		119	70 - 130	3	25
Dichlorodifluoromethane	49	50.5		ug/m3		102	70 - 130	6	25
1,1-Dichloroethane	40	42.6		ug/m3		105	70 - 130	1	25
1,2-Dichloroethane	40	37.6		ug/m3		93	70 - 130	1	25
1,1-Dichloroethene	40	39.8		ug/m3		100	70 - 130	2	25
cis-1,2-Dichloroethene	40	49.5		ug/m3		125	70 - 130	3	25
trans-1,2-Dichloroethene	40	47.0		ug/m3		119	70 - 130	2	25
1,2-Dichloropropane	46	48.0		ug/m3		104	70 - 130	2	25
cis-1,3-Dichloropropene	48	49.6		ug/m3		103	70 - 130	1	25
trans-1,3-Dichloropropene	45	39.3		ug/m3		87	70 - 130	4	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	70	62.0		ug/m3		89	70 - 130	2	25
Ethylbenzene	46	46.3		ug/m3		101	70 - 130	2	25
4-Ethyltoluene	49	50.3		ug/m3		102	70 - 130	5	25
Hexachlorobutadiene	110	131		ug/m3		123	70 - 130	14	25
2-Hexanone	41	43.2		ug/m3		106	70 - 130	3	25
Methylene chloride	35	32.5		ug/m3		94	70 - 130	1	25
4-Methyl-2-pentanone (MIBK)	41	39.9		ug/m3		97	70 - 130	2	25
Styrene	46	48.2		ug/m3		105	70 - 130	4	25
1,1,2,2-Tetrachloroethane	74	76.8		ug/m3		104	70 - 130	4	25
Tetrachloroethene	68	67.7		ug/m3		100	70 - 130	1	25
Toluene	38	41.0		ug/m3		109	70 - 130	1	25
1,2,4-Trichlorobenzene	74	93.4		ug/m3		126	70 - 130	16	25
1,1,1-Trichloroethane	55	55.8		ug/m3		102	70 - 130	2	25
1,1,2-Trichloroethane	55	58.5		ug/m3		107	70 - 130	2	25
Trichloroethene	54	59.5		ug/m3		111	70 - 130	1	25
Trichlorofluoromethane	56	55.3		ug/m3		98	70 - 130	3	25
1,1,2-Trichloro-1,2,2-trifluoroethane	72	83.0		ug/m3		115	70 - 130	3	25
1,2,4-Trimethylbenzene	49	49.1		ug/m3		100	70 - 130	4	25
1,3,5-Trimethylbenzene	52	53.8		ug/m3		103	70 - 130	3	25
Vinyl acetate	38	41.9		ug/m3		109	70 - 130	1	25
Vinyl chloride	26	24.5		ug/m3		96	70 - 130	1	25

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 340-4740/8

Matrix: Air

Analysis Batch: 4740

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m,p-Xylene	87	93.1		ug/m3		107	70 - 130	2	25
o-Xylene	47	46.2		ug/m3		99	70 - 130	4	25
Methyl-t-Butyl Ether (MTBE)	36	41.4		ug/m3		115	70 - 130	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Lab Sample ID: MB 340-4748/22

Matrix: Air

Analysis Batch: 4748

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		0.0050	0.00060	ppm v/v			05/15/13 14:08	1
Benzene	ND		0.00040	0.00020	ppm v/v			05/15/13 14:08	1
Benzyl chloride	ND		0.00080	0.00020	ppm v/v			05/15/13 14:08	1
Bromodichloromethane	ND		0.00030	0.00015	ppm v/v			05/15/13 14:08	1
Bromoform	ND		0.00080	0.00020	ppm v/v			05/15/13 14:08	1
Bromomethane	ND		0.00080	0.00020	ppm v/v			05/15/13 14:08	1
2-Butanone (MEK)	ND		0.00080	0.00040	ppm v/v			05/15/13 14:08	1
Carbon disulfide	ND		0.00080	0.00020	ppm v/v			05/15/13 14:08	1
Carbon tetrachloride	ND		0.00080	0.00020	ppm v/v			05/15/13 14:08	1
Chlorobenzene	ND		0.00030	0.00010	ppm v/v			05/15/13 14:08	1
Dibromochloromethane	ND		0.00040	0.00010	ppm v/v			05/15/13 14:08	1
Chloroethane	ND		0.0015	0.00070	ppm v/v			05/15/13 14:08	1
Chloroform	ND		0.00030	0.00010	ppm v/v			05/15/13 14:08	1
Chloromethane	ND		0.00080	0.00040	ppm v/v			05/15/13 14:08	1
tert-Butyl alcohol (TBA)	ND		0.0050	0.0015	ppm v/v			05/15/13 14:08	1
1,2-Dibromoethane (EDB)	ND		0.00080	0.00020	ppm v/v			05/15/13 14:08	1
1,2-Dichlorobenzene	ND		0.00040	0.00015	ppm v/v			05/15/13 14:08	1
1,3-Dichlorobenzene	ND		0.00040	0.00015	ppm v/v			05/15/13 14:08	1
1,4-Dichlorobenzene	ND		0.00040	0.00015	ppm v/v			05/15/13 14:08	1
Dichlorodifluoromethane	ND		0.00040	0.00015	ppm v/v			05/15/13 14:08	1
1,1-Dichloroethane	ND		0.00030	0.00015	ppm v/v			05/15/13 14:08	1
1,2-Dichloroethane	ND		0.00080	0.00020	ppm v/v			05/15/13 14:08	1
1,1-Dichloroethene	ND		0.00080	0.00020	ppm v/v			05/15/13 14:08	1
cis-1,2-Dichloroethene	ND		0.00040	0.00020	ppm v/v			05/15/13 14:08	1
trans-1,2-Dichloroethene	ND		0.00040	0.00020	ppm v/v			05/15/13 14:08	1
1,2-Dichloropropane	ND		0.00040	0.00015	ppm v/v			05/15/13 14:08	1
cis-1,3-Dichloropropene	ND		0.00040	0.00015	ppm v/v			05/15/13 14:08	1
trans-1,3-Dichloropropene	ND		0.00040	0.00015	ppm v/v			05/15/13 14:08	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.00040	0.00015	ppm v/v			05/15/13 14:08	1
Ethylbenzene	ND		0.00040	0.00015	ppm v/v			05/15/13 14:08	1
4-Ethyltoluene	ND		0.00040	0.00015	ppm v/v			05/15/13 14:08	1
Hexachlorobutadiene	ND		0.00080	0.00020	ppm v/v			05/15/13 14:08	1
2-Hexanone	ND		0.00080	0.00020	ppm v/v			05/15/13 14:08	1
Methylene chloride	ND		0.00040	0.00020	ppm v/v			05/15/13 14:08	1

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 340-4748/22

Matrix: Air

Analysis Batch: 4748

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4-Methyl-2-pentanone (MIBK)	ND		0.00040	0.00015	ppm v/v			05/15/13 14:08	1
Styrene	ND		0.00040	0.00015	ppm v/v			05/15/13 14:08	1
1,1,2,2-Tetrachloroethane	ND		0.00040	0.00010	ppm v/v			05/15/13 14:08	1
Tetrachloroethene	ND		0.00040	0.00015	ppm v/v			05/15/13 14:08	1
Toluene	ND		0.00040	0.00015	ppm v/v			05/15/13 14:08	1
1,2,4-Trichlorobenzene	ND		0.0025	0.00070	ppm v/v			05/15/13 14:08	1
1,1,1-Trichloroethane	ND		0.00030	0.00015	ppm v/v			05/15/13 14:08	1
1,1,2-Trichloroethane	ND		0.00040	0.00015	ppm v/v			05/15/13 14:08	1
Trichloroethene	ND		0.00040	0.00015	ppm v/v			05/15/13 14:08	1
Trichlorofluoromethane	ND		0.00040	0.00015	ppm v/v			05/15/13 14:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00040	0.00020	ppm v/v			05/15/13 14:08	1
1,2,4-Trimethylbenzene	ND		0.00080	0.00020	ppm v/v			05/15/13 14:08	1
1,3,5-Trimethylbenzene	ND		0.00040	0.00015	ppm v/v			05/15/13 14:08	1
Vinyl acetate	ND		0.00080	0.00020	ppm v/v			05/15/13 14:08	1
Vinyl chloride	ND		0.00040	0.00015	ppm v/v			05/15/13 14:08	1
Methyl-t-Butyl Ether (MTBE)	ND		0.00080	0.00020	ppm v/v			05/15/13 14:08	1
Xylenes, Total	ND		0.00040	0.00015	ppm v/v			05/15/13 14:08	1
Tert-amyl-methyl ether (TAME)	ND		0.0010	0.00030	ppm v/v			05/15/13 14:08	1
Ethyl-t-butyl ether (ETBE)	ND		0.0010	0.00030	ppm v/v			05/15/13 14:08	1
Isopropyl Ether (DIPE)	ND		0.0010	0.00030	ppm v/v			05/15/13 14:08	1
Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	ND		12	1.4	ug/m3			05/15/13 14:08	1
Benzene	ND		1.3	0.64	ug/m3			05/15/13 14:08	1
Benzyl chloride	ND		4.1	1.0	ug/m3			05/15/13 14:08	1
Bromodichloromethane	ND		2.0	1.0	ug/m3			05/15/13 14:08	1
Bromoform	ND		8.3	2.1	ug/m3			05/15/13 14:08	1
Bromomethane	ND		3.1	0.78	ug/m3			05/15/13 14:08	1
2-Butanone (MEK)	ND		2.4	1.2	ug/m3			05/15/13 14:08	1
Carbon disulfide	ND		2.5	0.62	ug/m3			05/15/13 14:08	1
Carbon tetrachloride	ND		5.0	1.3	ug/m3			05/15/13 14:08	1
Chlorobenzene	ND		1.4	0.46	ug/m3			05/15/13 14:08	1
Dibromochloromethane	ND		3.4	0.85	ug/m3			05/15/13 14:08	1
Chloroethane	ND		4.0	1.8	ug/m3			05/15/13 14:08	1
Chloroform	ND		1.5	0.49	ug/m3			05/15/13 14:08	1
Chloromethane	ND		1.7	0.83	ug/m3			05/15/13 14:08	1
tert-Butyl alcohol (TBA)	ND		15	4.5	ug/m3			05/15/13 14:08	1
1,2-Dibromoethane (EDB)	ND		6.1	1.5	ug/m3			05/15/13 14:08	1
1,2-Dichlorobenzene	ND		2.4	0.90	ug/m3			05/15/13 14:08	1
1,3-Dichlorobenzene	ND		2.4	0.90	ug/m3			05/15/13 14:08	1
1,4-Dichlorobenzene	ND		2.4	0.90	ug/m3			05/15/13 14:08	1
Dichlorodifluoromethane	ND		2.0	0.74	ug/m3			05/15/13 14:08	1
1,1-Dichloroethane	ND		1.2	0.61	ug/m3			05/15/13 14:08	1
1,2-Dichloroethane	ND		3.2	0.81	ug/m3			05/15/13 14:08	1
1,1-Dichloroethene	ND		3.2	0.79	ug/m3			05/15/13 14:08	1
cis-1,2-Dichloroethene	ND		1.6	0.79	ug/m3			05/15/13 14:08	1
trans-1,2-Dichloroethene	ND		1.6	0.79	ug/m3			05/15/13 14:08	1
1,2-Dichloropropane	ND		1.8	0.69	ug/m3			05/15/13 14:08	1

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 340-4748/22

Matrix: Air

Analysis Batch: 4748

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
cis-1,3-Dichloropropene	ND		1.8	0.68	ug/m3			05/15/13 14:08	1
trans-1,3-Dichloropropene	ND		1.8	0.68	ug/m3			05/15/13 14:08	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8	1.0	ug/m3			05/15/13 14:08	1
Ethylbenzene	ND		1.7	0.65	ug/m3			05/15/13 14:08	1
4-Ethyltoluene	ND		2.0	0.74	ug/m3			05/15/13 14:08	1
Hexachlorobutadiene	ND		8.5	2.1	ug/m3			05/15/13 14:08	1
2-Hexanone	ND		3.3	0.82	ug/m3			05/15/13 14:08	1
Methylene chloride	ND		1.4	0.69	ug/m3			05/15/13 14:08	1
4-Methyl-2-pentanone (MIBK)	ND		1.6	0.61	ug/m3			05/15/13 14:08	1
Styrene	ND		1.7	0.64	ug/m3			05/15/13 14:08	1
1,1,2,2-Tetrachloroethane	ND		2.7	0.69	ug/m3			05/15/13 14:08	1
Tetrachloroethene	ND		2.7	1.0	ug/m3			05/15/13 14:08	1
Toluene	ND		1.5	0.57	ug/m3			05/15/13 14:08	1
1,2,4-Trichlorobenzene	ND		19	5.2	ug/m3			05/15/13 14:08	1
1,1,1-Trichloroethane	ND		1.6	0.82	ug/m3			05/15/13 14:08	1
1,1,2-Trichloroethane	ND		2.2	0.82	ug/m3			05/15/13 14:08	1
Trichloroethene	ND		2.1	0.81	ug/m3			05/15/13 14:08	1
Trichlorofluoromethane	ND		2.2	0.84	ug/m3			05/15/13 14:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1	1.5	ug/m3			05/15/13 14:08	1
1,2,4-Trimethylbenzene	ND		3.9	0.98	ug/m3			05/15/13 14:08	1
1,3,5-Trimethylbenzene	ND		2.0	0.74	ug/m3			05/15/13 14:08	1
Vinyl acetate	ND		2.8	0.70	ug/m3			05/15/13 14:08	1
Vinyl chloride	ND		1.0	0.38	ug/m3			05/15/13 14:08	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9	0.72	ug/m3			05/15/13 14:08	1
Xylenes, Total	ND		1.7	0.65	ug/m3			05/15/13 14:08	1
Tert-amyl-methyl ether (TAME)	ND		4.2	1.3	ug/m3			05/15/13 14:08	1
Ethyl-t-butyl ether (ETBE)	ND		4.2	1.3	ug/m3			05/15/13 14:08	1
Isopropyl Ether (DIPE)	ND		4.2	1.3	ug/m3			05/15/13 14:08	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	93		70 - 130		05/15/13 14:08	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		05/15/13 14:08	1
Toluene-d8 (Surr)	91		70 - 130		05/15/13 14:08	1

Lab Sample ID: LCS 340-4748/4

Matrix: Air

Analysis Batch: 4748

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				
tert-Butyl alcohol (TBA)	0.0500	0.0528		ppm v/v		106	70 - 130
Tert-amyl-methyl ether (TAME)	0.0100	0.00957		ppm v/v		96	70 - 130
Ethyl-t-butyl ether (ETBE)	0.0100	0.0102		ppm v/v		102	70 - 130
Isopropyl Ether (DIPE)	0.0100	0.0101		ppm v/v		101	70 - 130

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				
tert-Butyl alcohol (TBA)	150	160		ug/m3		106	70 - 130
Tert-amyl-methyl ether (TAME)	42	40.0		ug/m3		96	70 - 130
Ethyl-t-butyl ether (ETBE)	42	42.8		ug/m3		102	70 - 130

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 340-4748/4

Matrix: Air

Analysis Batch: 4748

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropyl Ether (DIPE)	42	42.2		ug/m3		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCS 340-4748/6

Matrix: Air

Analysis Batch: 4748

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	0.0100	0.00865		ppm v/v		86	70 - 130
Benzene	0.0100	0.0102		ppm v/v		102	70 - 130
Benzyl chloride	0.0110	0.0133		ppm v/v		120	70 - 130
Bromodichloromethane	0.0100	0.0102		ppm v/v		102	70 - 130
Bromoform	0.0100	0.0120		ppm v/v		120	70 - 130
Bromomethane	0.0100	0.00907		ppm v/v		91	70 - 130
2-Butanone (MEK)	0.0100	0.0118		ppm v/v		118	70 - 130
Carbon disulfide	0.0100	0.0117		ppm v/v		117	70 - 130
Carbon tetrachloride	0.0100	0.00880		ppm v/v		88	70 - 130
Chlorobenzene	0.0107	0.0110		ppm v/v		103	70 - 130
Dibromochloromethane	0.0115	0.0109		ppm v/v		95	70 - 130
Chloroethane	0.0100	0.00974		ppm v/v		97	70 - 130
Chloroform	0.0100	0.00984		ppm v/v		98	70 - 130
Chloromethane	0.0100	0.00968		ppm v/v		97	70 - 130
1,2-Dibromoethane (EDB)	0.0100	0.0110		ppm v/v		110	70 - 130
1,2-Dichlorobenzene	0.0108	0.0128		ppm v/v		119	70 - 130
1,3-Dichlorobenzene	0.0110	0.0127		ppm v/v		115	70 - 130
1,4-Dichlorobenzene	0.0100	0.0125		ppm v/v		125	70 - 130
Dichlorodifluoromethane	0.0100	0.0113		ppm v/v		113	70 - 130
1,1-Dichloroethane	0.0100	0.0103		ppm v/v		103	70 - 130
1,2-Dichloroethane	0.0100	0.00944		ppm v/v		94	70 - 130
1,1-Dichloroethene	0.0100	0.0100		ppm v/v		100	70 - 130
cis-1,2-Dichloroethene	0.0100	0.0119		ppm v/v		119	70 - 130
trans-1,2-Dichloroethene	0.0100	0.0115		ppm v/v		115	70 - 130
1,2-Dichloropropane	0.0100	0.0104		ppm v/v		104	70 - 130
cis-1,3-Dichloropropene	0.0106	0.0108		ppm v/v		102	70 - 130
trans-1,3-Dichloropropene	0.0100	0.00922		ppm v/v		92	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.0100	0.0101		ppm v/v		101	70 - 130
Ethylbenzene	0.0106	0.0109		ppm v/v		103	70 - 130
4-Ethyltoluene	0.0100	0.0112		ppm v/v		112	70 - 130
Hexachlorobutadiene	0.0100	0.0106		ppm v/v		106	70 - 130
2-Hexanone	0.0100	0.0107		ppm v/v		107	70 - 130
Methylene chloride	0.0100	0.00953		ppm v/v		95	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0100	0.00984		ppm v/v		98	70 - 130
Styrene	0.0108	0.0117		ppm v/v		108	70 - 130

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 340-4748/6

Matrix: Air

Analysis Batch: 4748

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	0.0108	0.0119		ppm v/v		110	70 - 130
Tetrachloroethene	0.0100	0.0100		ppm v/v		100	70 - 130
Toluene	0.0100	0.0108		ppm v/v		108	70 - 130
1,2,4-Trichlorobenzene	0.0100	0.0107		ppm v/v		107	70 - 130
1,1,1-Trichloroethane	0.0100	0.00972		ppm v/v		97	70 - 130
1,1,2-Trichloroethane	0.0100	0.0108		ppm v/v		108	70 - 130
Trichloroethene	0.0100	0.0109		ppm v/v		109	70 - 130
Trichlorofluoromethane	0.0100	0.00980		ppm v/v		98	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00940	0.0105		ppm v/v		112	70 - 130
1,2,4-Trimethylbenzene	0.0100	0.0107		ppm v/v		107	70 - 130
1,3,5-Trimethylbenzene	0.0106	0.0113		ppm v/v		106	70 - 130
Vinyl acetate	0.0109	0.0119		ppm v/v		109	70 - 130
Vinyl chloride	0.0100	0.0104		ppm v/v		104	70 - 130
m,p-Xylene	0.0200	0.0220		ppm v/v		110	70 - 130
o-Xylene	0.0108	0.0110		ppm v/v		102	70 - 130
Methyl-t-Butyl Ether (MTBE)	0.0100	0.0112		ppm v/v		112	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	24	20.5		ug/m3		86	70 - 130
Benzene	32	32.7		ug/m3		102	70 - 130
Benzyl chloride	57	68.6		ug/m3		120	70 - 130
Bromodichloromethane	67	68.4		ug/m3		102	70 - 130
Bromoform	100	124		ug/m3		120	70 - 130
Bromomethane	39	35.2		ug/m3		91	70 - 130
2-Butanone (MEK)	29	34.7		ug/m3		118	70 - 130
Carbon disulfide	31	36.5		ug/m3		117	70 - 130
Carbon tetrachloride	63	55.3		ug/m3		88	70 - 130
Chlorobenzene	49	50.6		ug/m3		103	70 - 130
Dibromochloromethane	98	93.3		ug/m3		95	70 - 130
Chloroethane	26	25.7		ug/m3		97	70 - 130
Chloroform	49	48.0		ug/m3		98	70 - 130
Chloromethane	21	20.0		ug/m3		97	70 - 130
1,2-Dibromoethane (EDB)	77	84.9		ug/m3		110	70 - 130
1,2-Dichlorobenzene	65	77.2		ug/m3		119	70 - 130
1,3-Dichlorobenzene	66	76.1		ug/m3		115	70 - 130
1,4-Dichlorobenzene	60	75.2		ug/m3		125	70 - 130
Dichlorodifluoromethane	49	56.0		ug/m3		113	70 - 130
1,1-Dichloroethane	40	41.7		ug/m3		103	70 - 130
1,2-Dichloroethane	40	38.2		ug/m3		94	70 - 130
1,1-Dichloroethene	40	39.8		ug/m3		100	70 - 130
cis-1,2-Dichloroethene	40	47.3		ug/m3		119	70 - 130
trans-1,2-Dichloroethene	40	45.7		ug/m3		115	70 - 130
1,2-Dichloropropane	46	48.2		ug/m3		104	70 - 130
cis-1,3-Dichloropropene	48	49.0		ug/m3		102	70 - 130
trans-1,3-Dichloropropene	45	41.9		ug/m3		92	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	70	70.7		ug/m3		101	70 - 130
Ethylbenzene	46	47.3		ug/m3		103	70 - 130

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 340-4748/6

Client Sample ID: Lab Control Sample

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 4748

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
4-Ethyltoluene	49	54.8		ug/m3		112	70 - 130
Hexachlorobutadiene	110	113		ug/m3		106	70 - 130
2-Hexanone	41	44.0		ug/m3		107	70 - 130
Methylene chloride	35	33.1		ug/m3		95	70 - 130
4-Methyl-2-pentanone (MIBK)	41	40.3		ug/m3		98	70 - 130
Styrene	46	49.7		ug/m3		108	70 - 130
1,1,2,2-Tetrachloroethane	74	81.6		ug/m3		110	70 - 130
Tetrachloroethene	68	68.0		ug/m3		100	70 - 130
Toluene	38	40.6		ug/m3		108	70 - 130
1,2,4-Trichlorobenzene	74	79.7		ug/m3		107	70 - 130
1,1,1-Trichloroethane	55	53.0		ug/m3		97	70 - 130
1,1,2-Trichloroethane	55	59.2		ug/m3		108	70 - 130
Trichloroethene	54	58.5		ug/m3		109	70 - 130
Trichlorofluoromethane	56	55.0		ug/m3		98	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	72	80.6		ug/m3		112	70 - 130
1,2,4-Trimethylbenzene	49	52.8		ug/m3		107	70 - 130
1,3,5-Trimethylbenzene	52	55.5		ug/m3		106	70 - 130
Vinyl acetate	38	41.8		ug/m3		109	70 - 130
Vinyl chloride	26	26.7		ug/m3		104	70 - 130
m,p-Xylene	87	95.5		ug/m3		110	70 - 130
o-Xylene	47	48.0		ug/m3		102	70 - 130
Methyl-t-Butyl Ether (MTBE)	36	40.2		ug/m3		112	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCSD 340-4748/21

Client Sample ID: Lab Control Sample Dup

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 4748

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Added	Result	Qualifier						
Acetone	0.0100	0.00862		ppm v/v		86	70 - 130	0	25
Benzene	0.0100	0.0102		ppm v/v		102	70 - 130	0	25
Benzyl chloride	0.0110	0.0138		ppm v/v		125	70 - 130	4	25
Bromodichloromethane	0.0100	0.0103		ppm v/v		103	70 - 130	1	25
Bromoform	0.0100	0.0121		ppm v/v		121	70 - 130	1	25
Bromomethane	0.0100	0.00884		ppm v/v		88	70 - 130	3	25
2-Butanone (MEK)	0.0100	0.0116		ppm v/v		116	70 - 130	1	25
Carbon disulfide	0.0100	0.0117		ppm v/v		117	70 - 130	0	25
Carbon tetrachloride	0.0100	0.00885		ppm v/v		89	70 - 130	1	25
Chlorobenzene	0.0107	0.0110		ppm v/v		103	70 - 130	0	25
Dibromochloromethane	0.0115	0.0111		ppm v/v		96	70 - 130	1	25
Chloroethane	0.0100	0.00984		ppm v/v		98	70 - 130	1	25
Chloroform	0.0100	0.00994		ppm v/v		99	70 - 130	1	25
Chloromethane	0.0100	0.00894		ppm v/v		89	70 - 130	8	25

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 340-4748/21

Matrix: Air

Analysis Batch: 4748

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		
1,2-Dibromoethane (EDB)	0.0100	0.0111		ppm v/v		111	70 - 130	0	25
1,2-Dichlorobenzene	0.0108	0.0132		ppm v/v		122	70 - 130	3	25
1,3-Dichlorobenzene	0.0110	0.0129		ppm v/v		117	70 - 130	2	25
1,4-Dichlorobenzene	0.0100	0.0129		ppm v/v		129	70 - 130	3	25
Dichlorodifluoromethane	0.0100	0.0103		ppm v/v		103	70 - 130	10	25
1,1-Dichloroethane	0.0100	0.0104		ppm v/v		104	70 - 130	1	25
1,2-Dichloroethane	0.0100	0.00947		ppm v/v		95	70 - 130	0	25
1,1-Dichloroethene	0.0100	0.00990		ppm v/v		99	70 - 130	1	25
cis-1,2-Dichloroethene	0.0100	0.0120		ppm v/v		120	70 - 130	0	25
trans-1,2-Dichloroethene	0.0100	0.0115		ppm v/v		115	70 - 130	1	25
1,2-Dichloropropane	0.0100	0.0104		ppm v/v		104	70 - 130	0	25
cis-1,3-Dichloropropene	0.0106	0.0108		ppm v/v		102	70 - 130	0	25
trans-1,3-Dichloropropene	0.0100	0.00932		ppm v/v		93	70 - 130	1	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.0100	0.00926		ppm v/v		93	70 - 130	9	25
Ethylbenzene	0.0106	0.0110		ppm v/v		103	70 - 130	1	25
4-Ethyltoluene	0.0100	0.0112		ppm v/v		112	70 - 130	0	25
Hexachlorobutadiene	0.0100	0.0122		ppm v/v		122	70 - 130	13	25
2-Hexanone	0.0100	0.0110		ppm v/v		110	70 - 130	2	25
Methylene chloride	0.0100	0.00950		ppm v/v		95	70 - 130	0	25
4-Methyl-2-pentanone (MIBK)	0.0100	0.00998		ppm v/v		100	70 - 130	1	25
Styrene	0.0108	0.0120		ppm v/v		111	70 - 130	2	25
1,1,2,2-Tetrachloroethane	0.0108	0.0120		ppm v/v		111	70 - 130	1	25
Tetrachloroethene	0.0100	0.0102		ppm v/v		102	70 - 130	2	25
Toluene	0.0100	0.0109		ppm v/v		109	70 - 130	1	25
1,2,4-Trichlorobenzene	0.0100	0.0126		ppm v/v		126	70 - 130	16	25
1,1,1-Trichloroethane	0.0100	0.00986		ppm v/v		99	70 - 130	1	25
1,1,2-Trichloroethane	0.0100	0.0110		ppm v/v		110	70 - 130	1	25
Trichloroethene	0.0100	0.0110		ppm v/v		110	70 - 130	1	25
Trichlorofluoromethane	0.0100	0.00976		ppm v/v		98	70 - 130	0	25
1,1,2-Trichloro-1,2,2-trifluoroethane	0.00940	0.0107		ppm v/v		113	70 - 130	1	25
1,2,4-Trimethylbenzene	0.0100	0.0109		ppm v/v		109	70 - 130	2	25
1,3,5-Trimethylbenzene	0.0106	0.0116		ppm v/v		110	70 - 130	3	25
Vinyl acetate	0.0109	0.0118		ppm v/v		108	70 - 130	1	25
Vinyl chloride	0.0100	0.00980		ppm v/v		98	70 - 130	6	25
m,p-Xylene	0.0200	0.0221		ppm v/v		111	70 - 130	1	25
o-Xylene	0.0108	0.0112		ppm v/v		104	70 - 130	1	25
Methyl-t-Butyl Ether (MTBE)	0.0100	0.0112		ppm v/v		112	70 - 130	0	25
Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		
Acetone	24	20.5		ug/m3		86	70 - 130	0	25
Benzene	32	32.6		ug/m3		102	70 - 130	0	25
Benzyl chloride	57	71.4		ug/m3		125	70 - 130	4	25
Bromodichloromethane	67	69.1		ug/m3		103	70 - 130	1	25
Bromoform	100	125		ug/m3		121	70 - 130	1	25
Bromomethane	39	34.3		ug/m3		88	70 - 130	3	25
2-Butanone (MEK)	29	34.3		ug/m3		116	70 - 130	1	25
Carbon disulfide	31	36.5		ug/m3		117	70 - 130	0	25

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 340-4748/21

Matrix: Air

Analysis Batch: 4748

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	RPD Limit
							Limits	RPD		
Carbon tetrachloride	63	55.7		ug/m3		89	70 - 130	1	25	
Chlorobenzene	49	50.6		ug/m3		103	70 - 130	0	25	
Dibromochloromethane	98	94.2		ug/m3		96	70 - 130	1	25	
Chloroethane	26	26.0		ug/m3		98	70 - 130	1	25	
Chloroform	49	48.6		ug/m3		99	70 - 130	1	25	
Chloromethane	21	18.5		ug/m3		89	70 - 130	8	25	
1,2-Dibromoethane (EDB)	77	85.2		ug/m3		111	70 - 130	0	25	
1,2-Dichlorobenzene	65	79.5		ug/m3		122	70 - 130	3	25	
1,3-Dichlorobenzene	66	77.6		ug/m3		117	70 - 130	2	25	
1,4-Dichlorobenzene	60	77.5		ug/m3		129	70 - 130	3	25	
Dichlorodifluoromethane	49	50.8		ug/m3		103	70 - 130	10	25	
1,1-Dichloroethane	40	41.9		ug/m3		104	70 - 130	1	25	
1,2-Dichloroethane	40	38.3		ug/m3		95	70 - 130	0	25	
1,1-Dichloroethene	40	39.2		ug/m3		99	70 - 130	1	25	
cis-1,2-Dichloroethene	40	47.5		ug/m3		120	70 - 130	0	25	
trans-1,2-Dichloroethene	40	45.4		ug/m3		115	70 - 130	1	25	
1,2-Dichloropropane	46	48.2		ug/m3		104	70 - 130	0	25	
cis-1,3-Dichloropropene	48	49.2		ug/m3		102	70 - 130	0	25	
trans-1,3-Dichloropropene	45	42.3		ug/m3		93	70 - 130	1	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	70	64.8		ug/m3		93	70 - 130	9	25	
Ethylbenzene	46	47.6		ug/m3		103	70 - 130	1	25	
4-Ethyltoluene	49	54.9		ug/m3		112	70 - 130	0	25	
Hexachlorobutadiene	110	130		ug/m3		122	70 - 130	13	25	
2-Hexanone	41	45.1		ug/m3		110	70 - 130	2	25	
Methylene chloride	35	33.0		ug/m3		95	70 - 130	0	25	
4-Methyl-2-pentanone (MIBK)	41	40.9		ug/m3		100	70 - 130	1	25	
Styrene	46	50.9		ug/m3		111	70 - 130	2	25	
1,1,1,2-Tetrachloroethane	74	82.3		ug/m3		111	70 - 130	1	25	
Tetrachloroethene	68	69.0		ug/m3		102	70 - 130	2	25	
Toluene	38	40.9		ug/m3		109	70 - 130	1	25	
1,2,4-Trichlorobenzene	74	93.2		ug/m3		126	70 - 130	16	25	
1,1,1-Trichloroethane	55	53.8		ug/m3		99	70 - 130	1	25	
1,1,2-Trichloroethane	55	60.0		ug/m3		110	70 - 130	1	25	
Trichloroethene	54	59.0		ug/m3		110	70 - 130	1	25	
Trichlorofluoromethane	56	54.8		ug/m3		98	70 - 130	0	25	
1,1,2-Trichloro-1,2,2-trifluoroethane	72	81.6		ug/m3		113	70 - 130	1	25	
1,2,4-Trimethylbenzene	49	53.7		ug/m3		109	70 - 130	2	25	
1,3,5-Trimethylbenzene	52	57.3		ug/m3		110	70 - 130	3	25	
Vinyl acetate	38	41.5		ug/m3		108	70 - 130	1	25	
Vinyl chloride	26	25.1		ug/m3		98	70 - 130	6	25	
m,p-Xylene	87	96.2		ug/m3		111	70 - 130	1	25	
o-Xylene	47	48.7		ug/m3		104	70 - 130	1	25	
Methyl-t-Butyl Ether (MTBE)	36	40.3		ug/m3		112	70 - 130	0	25	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		70 - 130

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 340-4748/21
Matrix: Air
Analysis Batch: 4748

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Lab Sample ID: LCSD 340-4748/5
Matrix: Air
Analysis Batch: 4748

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
tert-Butyl alcohol (TBA)	0.0500	0.0521		ppm v/v		104	70 - 130	1	25
Tert-amyl-methyl ether (TAME)	0.0100	0.00960		ppm v/v		96	70 - 130	0	25
Ethyl-t-butyl ether (ETBE)	0.0100	0.0102		ppm v/v		102	70 - 130	0	25
Isopropyl Ether (DIPE)	0.0100	0.0101		ppm v/v		101	70 - 130	0	25

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
tert-Butyl alcohol (TBA)	150	158		ug/m3		104	70 - 130	1	25
Tert-amyl-methyl ether (TAME)	42	40.1		ug/m3		96	70 - 130	0	25
Ethyl-t-butyl ether (ETBE)	42	42.6		ug/m3		102	70 - 130	0	25
Isopropyl Ether (DIPE)	42	42.3		ug/m3		101	70 - 130	0	25

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Method: TO3 - Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)

Lab Sample ID: MB 340-4733/8
Matrix: Air
Analysis Batch: 4733

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
GRO (C4-C12)	ND	LW	1.8	0.80	ppm v/v			05/10/13 14:12	1

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
GRO (C4-C12)	ND	LW	7400	3300	ug/m3			05/10/13 14:12	1

Lab Sample ID: LCS 340-4733/4
Matrix: Air
Analysis Batch: 4733

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH (as Gasoline)	31.8	29.4		ppm v/v		92	80 - 131

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TPH (as Gasoline)	130000	120000		ug/m3		92	80 - 131

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Method: TO3 - Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)
(Continued)

Lab Sample ID: LCSD 340-4733/5

Matrix: Air

Analysis Batch: 4733

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH (as Gasoline)	31.8	29.8		ppm v/v		94	80 - 131	1	20
Analyte	Added	Result	Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
TPH (as Gasoline)	130000	122000		ug/m3		94	80 - 131	1	20

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Air - GC/MS VOA

Analysis Batch: 4740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-45897-2	Air-2B	Total/NA	Air	TO-15	
440-45897-3	Air-3B	Total/NA	Air	TO-15	
LCS 340-4740/5	Lab Control Sample	Total/NA	Air	TO-15	
LCS 340-4740/7	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 340-4740/6	Lab Control Sample Dup	Total/NA	Air	TO-15	
LCSD 340-4740/8	Lab Control Sample Dup	Total/NA	Air	TO-15	
MB 340-4740/9	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 4748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-45897-1	Air-1B	Total/NA	Air	TO-15	
LCS 340-4748/4	Lab Control Sample	Total/NA	Air	TO-15	
LCS 340-4748/6	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 340-4748/21	Lab Control Sample Dup	Total/NA	Air	TO-15	
LCSD 340-4748/5	Lab Control Sample Dup	Total/NA	Air	TO-15	
MB 340-4748/22	Method Blank	Total/NA	Air	TO-15	

Air - GC VOA

Analysis Batch: 4733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-45897-1	Air-1B	Total/NA	Air	TO3	
440-45897-2	Air-2B	Total/NA	Air	TO3	
440-45897-3	Air-3B	Total/NA	Air	TO3	
LCS 340-4733/4	Lab Control Sample	Total/NA	Air	TO3	
LCSD 340-4733/5	Lab Control Sample Dup	Total/NA	Air	TO3	
MB 340-4733/8	Method Blank	Total/NA	Air	TO3	

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Air - GC VOA

Qualifier	Qualifier Description
LW	Quantitated against gasoline

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-45897-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-13
Arizona	State Program	9	AZ0671	10-13-13
California	LA Cty Sanitation Districts	9	10256	01-31-14
California	NELAP	9	1108CA	01-31-14
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	03-28-13 *
Hawaii	State Program	9	N/A	01-31-14
Nevada	State Program	9	CA015312007A	07-31-13
New Mexico	State Program	6	N/A	01-31-14
Northern Mariana Islands	State Program	9	MP0002	01-31-14
Oregon	NELAP	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14
USEPA UCMR	Federal	1	CA01531	01-31-15

Laboratory: TestAmerica Costa Mesa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0727	02-09-14
Florida	NELAP	4	E87652	06-30-13
L-A-B	DoD ELAP		L2273	11-09-13
Louisiana	NELAP	6	01948	06-30-13
Oregon	NELAP	10	CA200013	07-19-13
Utah	NELAP	8	CA000032012-1	06-30-13
Washington	State Program	10	C579	11-29-13

* Expired certification is currently pending renewal and is considered valid.

440-45897



Shell Oil Products Chain Of Custody Record

- LAB (LOCATION)
- CALSCIENCE ()
 - SPL ()
 - XENCO ()
 - TEST AMERICA ()
 - OTHER ()

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER _____	

Print Bill To Contact Name: _____

INCIDENT # (EAW SERVICES): _____

DATE: _____

PAGE _____ of _____

PO # 2 4 0 4 1 4

SAP # 1 3 5 6 9 4

SAMPLING COMPANY: **Conestoga-Rovers & Associates**

LOG CODE: **CRAW**

ADDRESS: **5900 Hollis Street, Suite A, Emeryville, CA 94608**

PROJECT CONTACT (Hard Copy or PDF Report to): **Peter Schaefer**

TELEPHONE: **510-420-3319** FAX: **510-420-8170** EMAIL: **pschaefer@crworld.com**

SITE ADDRESS: Street and City: **540 Hegenberger Rd, Oakland** State: **CA** GLOBAL ID NO: **RO000023**

SHIP DELIVERABLE TO (Name, Company, Office Location): **Brenda Carter, CRA, Emeryville** PHONE NO: **510-420-3343** E-MAIL: **shell.am.edf@crworld.com** CONSULTANT PROJECT NO: _____

SAMPLER NAME(S) (Print): **JESSICA RADON**

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY) 5 DAYS 3 DAYS 2 DAYS 24 HOURS RESULTS NEEDED ON WEEKEND

REQUESTED ANALYSIS

LA - RWQCB REPORT FORMAT LIST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:

Copy of final report to ShellLab.Billing@crworld.com;

jradon@crworld.com; pschaefer@crworld.com

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.	TO-15	TO-3	Indoor Air	TEMPERATURE ON RECEIPT °C	Container PID Readings or Laboratory Notes
		DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER						
	Air-1B	5-6-13	10:30	VAPOR				X		1	X	X	X		Summa canister
	Air-2B	5-6-13	10:30	VAPOR				X		1	X	X	X		
	Air-3B	5-6-13	10:30	VAPOR				X		1	X	X	X		

Requested by: (Signature) <i>Jessica Radon</i>	Received by: (Signature) <i>Brenda Carter</i>	Date: 5-7-2013	Time: 12:00
Requested by: (Signature) <i>Brenda Carter</i>	Received by: (Signature)	Date: 5-8-13	Time: 16:50
Requested by: (Signature)	Received by: (Signature)	Date:	Time:

06/2006 Revision

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-45897-1

Login Number: 45897

List Source: TestAmerica Irvine

List Number: 1

Creator: Freitag, Kevin R

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	Jessica Radon
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-45897-1

Login Number: 45897

List Number: 1

Creator: Morales, Sergio

List Source: TestAmerica Costa Mesa

List Creation: 05/10/13 01:48 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

CANISTER QC CERTIFICATION

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Certification Type: T0-15

Date Cleaned/Batch A022013B 340-6329

Date of QC 02-22-13

Data File Number W02215(MSL)

CANISTER ID NUMBERS

*34001151
1654
1660
1162
1332
↓ 0256

34001445
1239
0177
0391
1616
↓ 1617

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "Certification Type" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

[Signature]
Reviewed By:

02-22-13
Date:

N:\CONDOCS\TestAmerica DOCS\Can QC Cert 20070712.doc

CANISTER QC CERTIFICATION

TestAmerica
The Leader in Environmental Testing

Certification Type: TO-15

Date Cleaned/Batch A032813A 340-6746

Date of QC 0402/3

Data File Number M1304023.0 (MSG)

CANISTER ID NUMBERS

*34001160
— | 1148
— | 1559
— | 1267
— | 0870
— | 0490
↓

34001288
— | 0045
— | 0852
— | 1279
— | 0579
— | 1576
↓

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "Certification Type" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

Ly
Reviewed By:

0403/3
Date:

N:\COM\DOCS\TestAmerica DOCS\Can QC Cert 20070712.doc

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-6329-1
 SDG No.: _____
 Client Sample ID: 34001151 Lab Sample ID: 340-6329-1
 Matrix: Air Lab File ID: MB02215.D
 Analysis Method: TO-15 Date Collected: 02/20/2013 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 02/22/2013 07:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: See SOP ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 4135 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		1.2	0.60
107-02-8	Acrolein	ND		2.5	0.70
107-13-1	Acrylonitrile	ND		2.0	0.40
107-05-1	Allyl chloride	ND		0.80	0.40
71-43-2	Benzene	ND		0.40	0.20
100-44-7	Benzyl chloride	ND		0.80	0.20
75-27-4	Bromodichloromethane	ND		0.30	0.15
75-25-2	Bromoform	ND		0.80	0.20
74-83-9	Bromomethane	ND		0.80	0.20
106-99-0	1,3-Butadiene	ND		0.80	0.20
106-97-8	n-Butane	ND		0.50	0.20
78-93-3	2-Butanone (MEK)	ND		0.80	0.40
75-65-0	tert-Butyl alcohol (TBA)	ND		5.0	1.5
104-51-8	n-Butylbenzene	ND		0.80	0.20
135-98-8	sec-Butylbenzene	ND		0.50	0.20
98-06-6	tert-Butylbenzene	ND		0.80	0.20
75-15-0	Carbon disulfide	ND		0.80	0.20
56-23-5	Carbon tetrachloride	ND		0.80	0.20
75-00-3	Chloroethane	ND		1.5	0.70
108-90-7	Chlorobenzene	ND		0.30	0.10
75-45-6	Chlorodifluoromethane	ND		0.80	0.20
67-66-3	Chloroform	ND		0.30	0.10
74-87-3	Chloromethane	ND		0.80	0.40
95-49-8	2-Chlorotoluene	ND		0.80	0.20
110-82-7	Cyclohexane	ND		0.50	0.20
124-48-1	Dibromochloromethane	ND		0.40	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.20
74-95-3	Dibromomethane	ND		0.40	0.20
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40	0.15
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.15
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.15
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.15
107-06-2	1,2-Dichloroethane	ND		0.80	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-6329-1
 SDG No.: _____
 Client Sample ID: 34001151 Lab Sample ID: 340-6329-1
 Matrix: Air Lab File ID: MB02215.D
 Analysis Method: TO-15 Date Collected: 02/20/2013 00:00
 Sample wt/vol: 250(mL) Date Analyzed: 02/22/2013 07:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: See SOP ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 4135 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.20
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.20
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.20
78-87-5	1,2-Dichloropropane	ND		0.40	0.15
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.15
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.15
123-91-1	1,4-Dioxane	ND		0.80	0.40
141-78-6	Ethyl acetate	ND		0.30	0.15
100-41-4	Ethylbenzene	ND		0.40	0.15
622-96-8	4-Ethyltoluene	ND		0.40	0.15
142-82-5	n-Heptane	ND		0.80	0.20
87-68-3	Hexachlorobutadiene	ND		0.80	0.20
110-54-3	n-Hexane	ND		0.80	0.20
591-78-6	2-Hexanone	ND		0.80	0.20
98-82-8	Isopropylbenzene	ND		0.80	0.20
99-87-6	4-Isopropyltoluene	ND		0.80	0.20
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.20
80-62-6	Methyl methacrylate	ND		0.80	0.40
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.15
75-09-2	Methylene chloride	ND		0.40	0.20
98-83-9	alpha-Methylstyrene	ND		0.40	0.15
91-20-3	Naphthalene	ND		2.0	0.70
111-65-9	n-Octane	ND		0.40	0.15
109-66-0	n-Pentane	ND		1.0	0.40
115-07-1	Propylene	ND	*	0.80	0.40
103-65-1	n-Propylbenzene	ND		0.80	0.20
100-42-5	Styrene	ND		0.40	0.15
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.10
127-18-4	Tetrachloroethene	ND		0.40	0.15
109-99-9	Tetrahydrofuran	ND		2.0	0.40
108-88-3	Toluene	ND		0.40	0.15
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40	0.20
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	0.70
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.15
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-6329-1
 SDG No.: _____
 Client Sample ID: 34001151 Lab Sample ID: 340-6329-1
 Matrix: Air Lab File ID: MB02215.D
 Analysis Method: TO-15 Date Collected: 02/20/2013 00:00
 Sample wt/vol: 250(mL) Date Analyzed: 02/22/2013 07:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: See SOP ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 4135 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.40	0.15
75-69-4	Trichlorofluoromethane	ND		0.40	0.15
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.20
95-63-6	1,2,4-Trimethylbenzene	ND		0.80	0.20
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.15
540-84-1	2,2,4-Trimethylpentane	ND		0.50	0.20
108-05-4	Vinyl acetate	ND		0.80	0.20
593-60-2	Vinyl bromide	ND		0.80	0.40
75-01-4	Vinyl chloride	ND		0.40	0.15
179601-23-1	m,p-Xylene	ND		0.80	0.20
95-47-6	o-Xylene	ND		0.40	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	94		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File: \\Lachrom\chromdata\MSC\20130221-2814.b\MB02215.D

Lims ID: 340-6329-A-1 Client ID: 34001151
 Inject. Date: 22-Feb-2013 07:02:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 340-6329-A-1
 Misc. Info.: 340-0002814-031
 Operator: DLK Instrument ID: MSC
 Purge Vol: 250.000 mL ALS Bottle#: 3
 Lims Batch ID: 4135 Lims Sample ID: 31
 Detector: MS SCAN

Method: \\Lachrom\chromdata\MSC\20130221-2814.b\TO-15_MSC.m
 Method Label: TO-15/TO-14A
 Last Update: 22-Feb-2013 11:43:31 Calib Date: 16-Feb-2013 19:39:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Lachrom\chromdata\MSC\20130216-2778.b\IC02169.D
 Limit Group: TO-15-TO-15_MOD_ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: RTX-Volatiles Column Dia: 0.32 mm
 Process Host: XAWRK033

First Level Reviewer: kammererd Date: 22-Feb-2013 11:43:31

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
36 Acetone	43	7.362	7.343	0.019	54	1121	0.0558	
* 64 Chlorobromomethane (IS)	49	11.188	11.188	0.0	87	54927	4.00	
\$ 69 1,2-Dichloroethane-d4 (Surr)	65	12.000	12.000	0.0	95	75348	3.83	
* 77 1,4-Difluorobenzene	114	12.620	12.620	0.0	94	168431	4.00	
\$ 88 Toluene-d8 (Surr)	98	14.809	14.809	0.0	98	151668	3.76	
* 98 Chlorobenzene-d5 (IS)	117	16.874	16.874	0.0	87	142400	4.00	
\$ 111 4-Bromofluorobenzene (Surr)	95	18.511	18.511	0.0	91	92138	3.70	

TestAmerica Costa Mesa

Data File: \\Lachrom\chromdata\MSC\20130221-2814.b\MB02215.D

Injection Date: 22-Feb-2013 07:02:30

Limit Group: TO-15-TO-15_MOD_ICAL

Client ID: 34001151

Instrument ID: MSC

Lims Batch ID: 4135

Lims Sample ID: 31

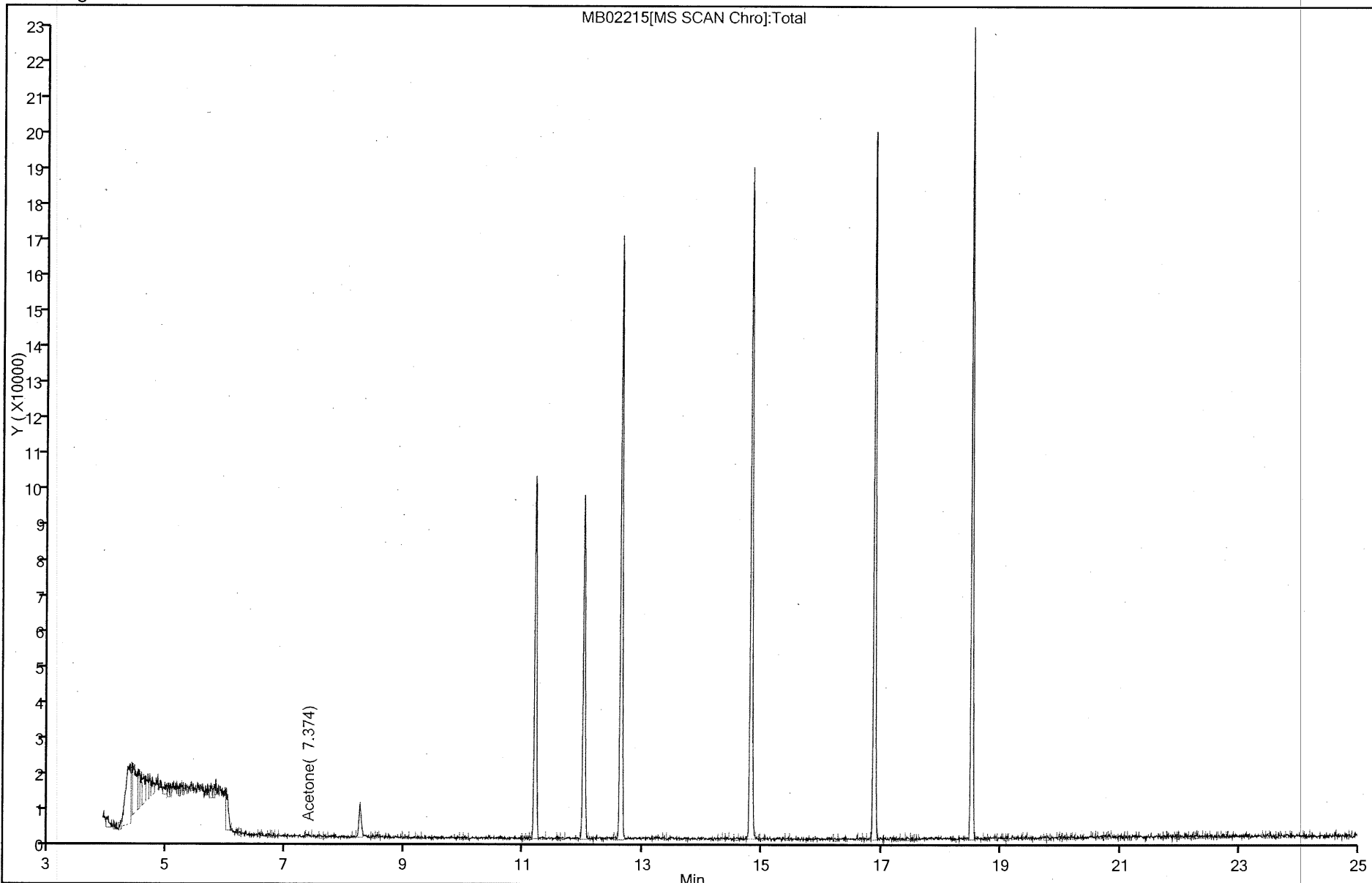
Operator ID: DLK

Purge Vol: 250.000 mL

Column Type: RTX-Volatiles

Column Dia: 0.32 mm

Y Scaling:



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-6766-1
 SDG No.: _____
 Client Sample ID: 34001160 Lab Sample ID: 340-6766-1
 Matrix: Air Lab File ID: MB04023.d
 Analysis Method: TO-15 Date Collected: 03/28/2013 00:00
 Sample wt/vol: 250(mL) Date Analyzed: 04/02/2013 22:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: See SOP ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 4452 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		1.2	0.60
107-02-8	Acrolein	ND		2.5	0.70
107-13-1	Acrylonitrile	ND		2.0	0.40
107-05-1	Allyl chloride	ND		0.80	0.40
71-43-2	Benzene	ND		0.40	0.20
100-44-7	Benzyl chloride	ND		0.80	0.20
75-27-4	Bromodichloromethane	ND		0.30	0.15
75-25-2	Bromoform	ND		0.80	0.20
74-83-9	Bromomethane	ND		0.80	0.20
106-99-0	1,3-Butadiene	ND		0.80	0.20
106-97-8	n-Butane	ND		0.50	0.20
78-93-3	2-Butanone (MEK)	ND		0.80	0.40
75-65-0	tert-Butyl alcohol (TBA)	ND		5.0	1.5
104-51-8	n-Butylbenzene	ND		0.80	0.20
135-98-8	sec-Butylbenzene	ND		0.50	0.20
98-06-6	tert-Butylbenzene	ND		0.80	0.20
75-15-0	Carbon disulfide	0.35	J	0.80	0.20
56-23-5	Carbon tetrachloride	ND		0.80	0.20
75-00-3	Chloroethane	ND		1.5	0.70
108-90-7	Chlorobenzene	ND		0.30	0.10
75-45-6	Chlorodifluoromethane	ND		0.80	0.20
67-66-3	Chloroform	ND		0.30	0.10
74-87-3	Chloromethane	ND		0.80	0.40
95-49-8	2-Chlorotoluene	ND		0.80	0.20
110-82-7	Cyclohexane	ND		0.50	0.20
124-48-1	Dibromochloromethane	ND		0.40	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.20
74-95-3	Dibromomethane	ND		0.40	0.20
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40	0.15
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.15
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.15
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.15
107-06-2	1,2-Dichloroethane	ND		0.80	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-6766-1
 SDG No.: _____
 Client Sample ID: 34001160 Lab Sample ID: 340-6766-1
 Matrix: Air Lab File ID: MB04023.d
 Analysis Method: TO-15 Date Collected: 03/28/2013 00:00
 Sample wt/vol: 250(mL) Date Analyzed: 04/02/2013 22:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: See SOP ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 4452 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.20
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.20
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.20
78-87-5	1,2-Dichloropropane	ND		0.40	0.15
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.15
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.15
123-91-1	1,4-Dioxane	ND		0.80	0.40
141-78-6	Ethyl acetate	ND		0.30	0.15
100-41-4	Ethylbenzene	ND		0.40	0.15
622-96-8	4-Ethyltoluene	ND		0.40	0.15
142-82-5	n-Heptane	ND		0.80	0.20
87-68-3	Hexachlorobutadiene	ND		0.80	0.20
110-54-3	n-Hexane	ND		0.80	0.20
591-78-6	2-Hexanone	ND		0.80	0.20
98-82-8	Isopropylbenzene	ND		0.80	0.20
99-87-6	4-Isopropyltoluene	ND		0.80	0.20
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.20
80-62-6	Methyl methacrylate	ND		0.80	0.40
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.15
75-09-2	Methylene chloride	0.24	J	0.40	0.20
98-83-9	alpha-Methylstyrene	ND		0.40	0.15
91-20-3	Naphthalene	ND		2.0	0.70
111-65-9	n-Octane	ND		0.40	0.15
109-66-0	n-Pentane	ND		1.0	0.40
115-07-1	Propylene	ND		0.80	0.40
103-65-1	n-Propylbenzene	ND		0.80	0.20
100-42-5	Styrene	ND		0.40	0.15
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.10
127-18-4	Tetrachloroethene	ND		0.40	0.15
109-99-9	Tetrahydrofuran	ND		2.0	0.40
108-88-3	Toluene	ND		0.40	0.15
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40	0.20
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	0.70
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.15
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-6766-1
 SDG No.: _____
 Client Sample ID: 34001160 Lab Sample ID: 340-6766-1
 Matrix: Air Lab File ID: MB04023.d
 Analysis Method: TO-15 Date Collected: 03/28/2013 00:00
 Sample wt/vol: 250(mL) Date Analyzed: 04/02/2013 22:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: See SOP ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 4452 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.40	0.15
75-69-4	Trichlorofluoromethane	ND		0.40	0.15
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.20
95-63-6	1,2,4-Trimethylbenzene	ND		0.80	0.20
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.15
540-84-1	2,2,4-Trimethylpentane	ND		0.50	0.20
108-05-4	Vinyl acetate	ND		0.80	0.20
593-60-2	Vinyl bromide	ND		0.80	0.40
75-01-4	Vinyl chloride	ND		0.40	0.15
179601-23-1	m,p-Xylene	ND		0.80	0.20
95-47-6	o-Xylene	ND		0.40	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	106		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File: \\Lachrom\ChromData\MSG\20130401-3023.b\MB04023.d
 Lims ID: 340-6766-A-1 Client ID: 34001160
 Inject. Date: 02-Apr-2013 22:21:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 340-6766-a-1
 Misc. Info.: 340-0003023-018
 Operator: LY Instrument ID: MSG
 Purge Vol: 250.000 mL ALS Bottle#: 9
 Lims Batch ID: 4452 Lims Sample ID: 18
 Detector: MS SCAN

Method: \\Lachrom\ChromData\MSG\20130401-3023.b\TO-15_MSG.m
 Method Label: TO-15/TO-14A
 Last Update: 03-Apr-2013 10:32:58 Calib Date: 28-Mar-2013 22:23:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Lachrom\ChromData\MSG\20130328-3005.b\IC0328F.d
 Limit Group: TO-15-TO-15_MOD_ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: RTX-Volatiles Column Dia: 0.32 mm
 Process Host: XAWRK001

First Level Reviewer: yabutl Date: 03-Apr-2013 09:54:40

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
40 Acetone	43	7.615	7.597	0.018	68	13667	0.3500	
48 Methylene Chloride	49	8.738	8.738	0.0	62	4930	0.2376	
49 Carbon disulfide	76	8.793	8.800	-0.007	92	17123	0.3536	
* 67 Chlorobromomethane (IS)	49	11.348	11.348	0.0	87	100212	4.00	
\$ 74 1,2-Dichloroethane-d4 (Surr)	65	12.148	12.142	0.006	0	119099	4.13	
* 80 1,4-Difluorobenzene	114	12.743	12.743	0.0	94	321785	4.00	
\$ 90 Toluene-d8 (Surr)	98	14.876	14.877	-0.001	97	310424	4.25	
* 99 Chlorobenzene-d5 (IS)	117	16.910	16.917	-0.007	88	286211	4.00	
\$ 111 4-Bromofluorobenzene (Surr)	95	18.541	18.547	-0.006	92	207238	3.96	

TestAmerica Costa Mesa

Data File: \\Lachrom\ChromData\MSG\20130401-3023.b\MB04023.d

Injection Date: 02-Apr-2013 22:21:30

Limit Group: TO-15-TO-15_MOD_ICAL

Client ID: 34001160

Instrument ID: MSG

Lims Batch ID: 4452

Lims Sample ID: 18

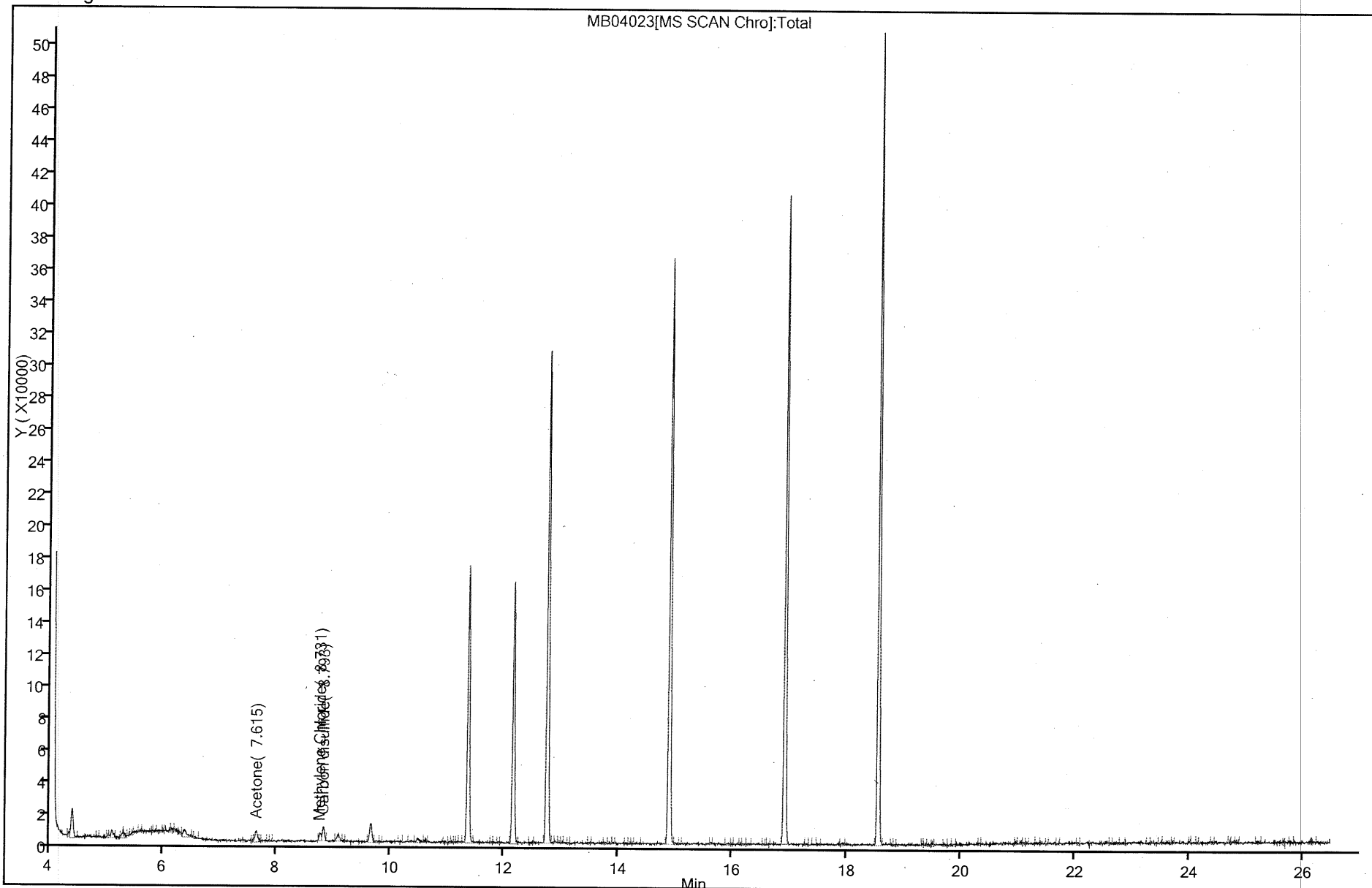
Operator ID: LY

Purge Vol: 250.000 mL

Column Type: RTX-Volatiles

Column Dia: 0.32 mm

Y Scaling:



TestAmerica Costa Mesa

Data File: \\Lachrom\ChromData\MSG\20130401-3023.b\MB04023.d

Injection Date: 02-Apr-2013 22:21:30

Limit Group: TO-15-TO-15_MOD_ICAL

Client ID: 34001160

Instrument ID: MSG

Lims Batch ID: 4452

Lims Sample ID: 18

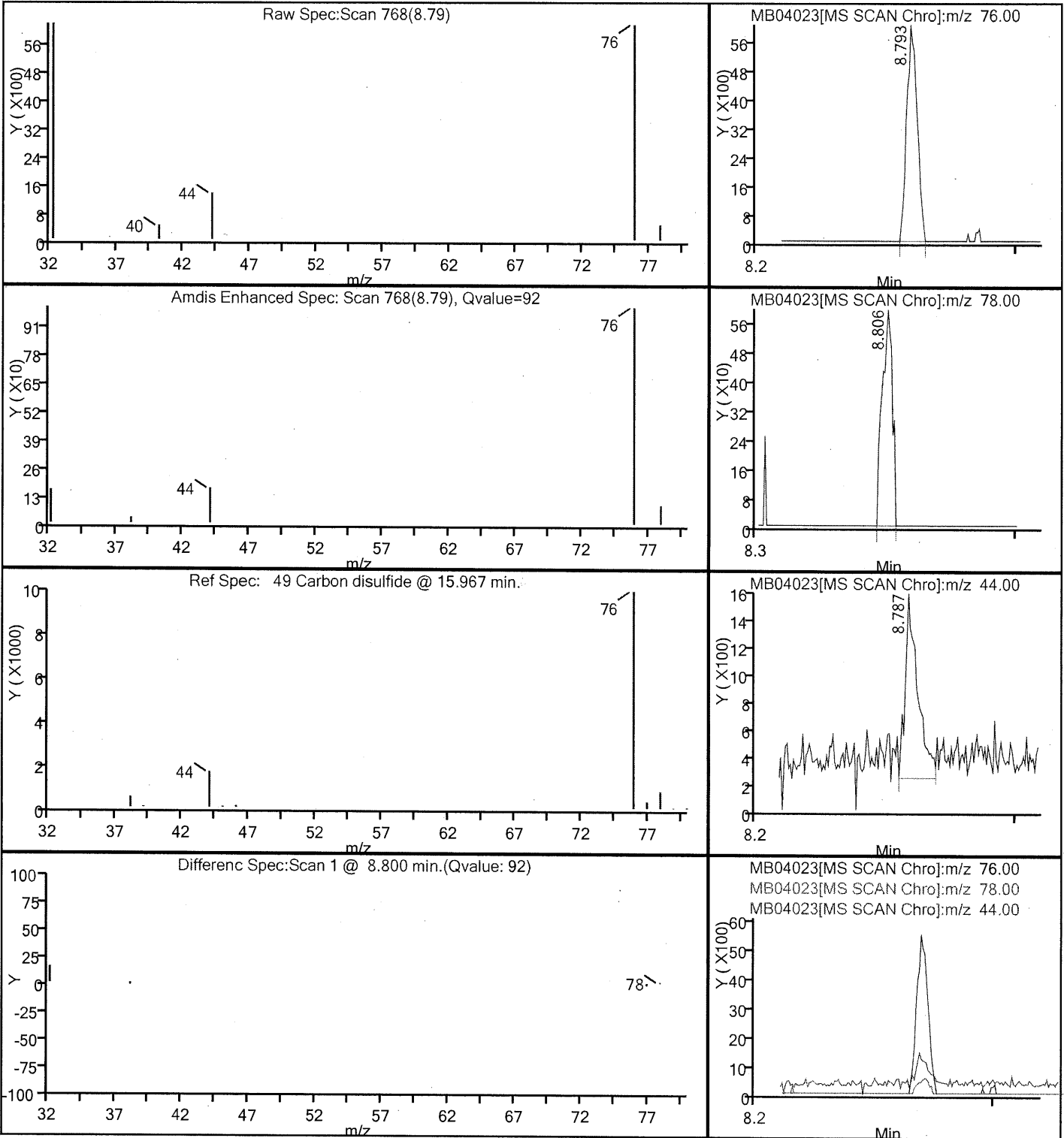
Operator ID: LY

Purge Vol: 250.000 mL

Column Type: RTX-Volatiles

Column Dia: 0.32 mm

49 Carbon disulfide



TestAmerica Costa Mesa

Data File: \\Lachrom\ChromData\MSG\20130401-3023.b\MB04023.d

Injection Date: 02-Apr-2013 22:21:30

Limit Group: TO-15-TO-15_MOD_ICAL

Client ID: 34001160

Instrument ID: MSG

Lims Batch ID: 4452

Lims Sample ID: 18

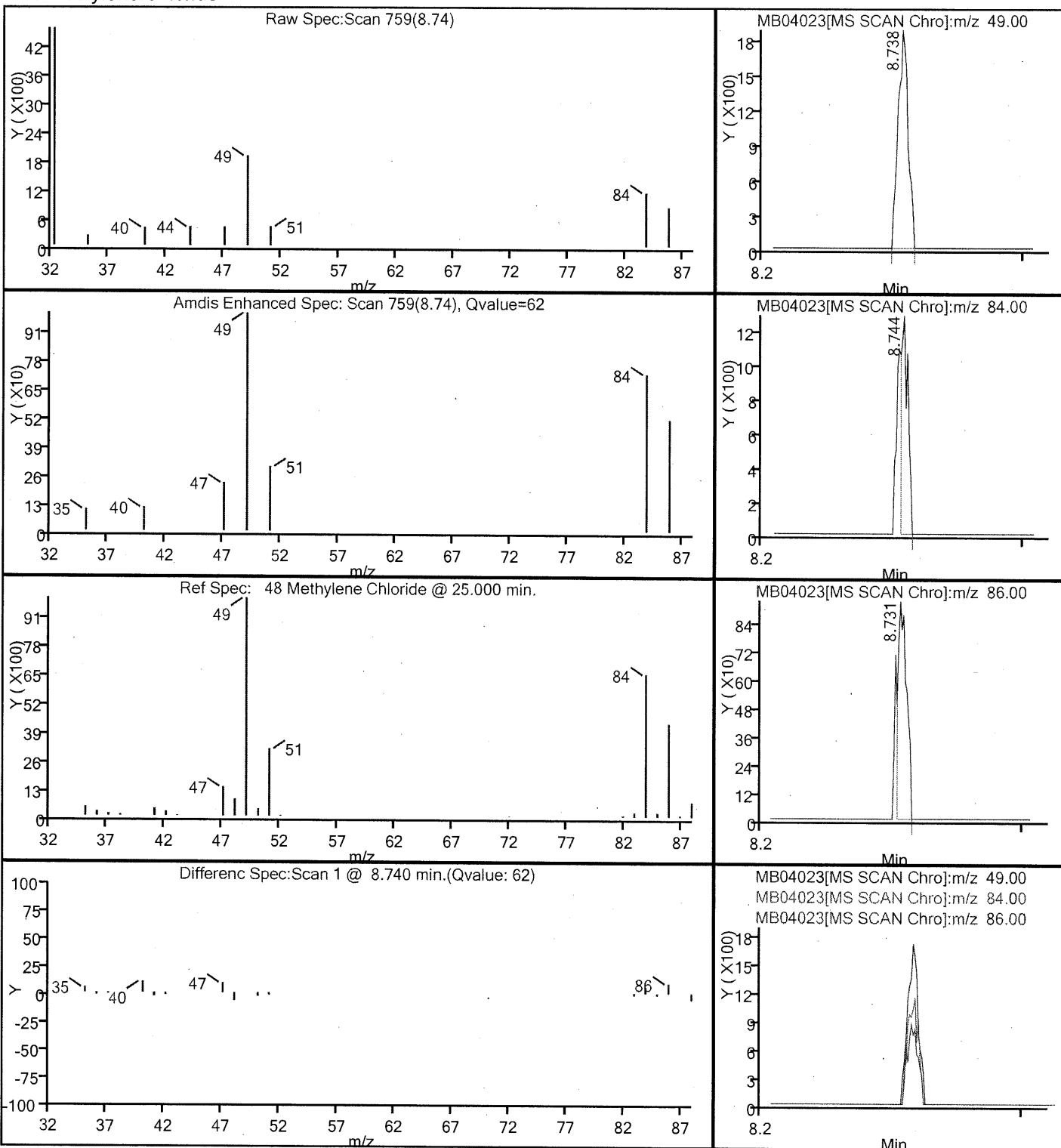
Operator ID: LY

Purge Vol: 250.000 mL

Column Type: RTX-Volatiles

Column Dia: 0.32 mm

48 Methylene Chloride



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

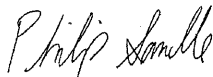
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-41118-1
Client Project/Site: 540 Hegenberger Rd., Oakland
Revision: 3

For:
Conestoga-Rovers & Associates, Inc.
5900 Hollis Street
Suite A
Emeryville, California 94608

Attn: Peter Schaefer



Authorized for release by:
5/30/2013 3:18:40 PM

Philip Sanelle, Project Manager I
philip.sanelle@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-41118-1	Air-1A	Air	03/11/13 12:04	03/15/13 10:00
440-41118-2	Air-2A	Air	03/11/13 12:07	03/15/13 10:00
440-41118-3	Air-3A	Air	03/11/13 12:10	03/15/13 10:00

Case Narrative

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Job ID: 440-41118-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-41118-1

Comments

Revised report to change sample ID's and report in ug/m3.

Receipt

The samples were received on 3/15/2013 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Air - GC VOA

No analytical or quality issues were noted.

Air - GC/MS VOA

Method(s) TO-15: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch 4386 exceeded control limits for the following analytes: 1,2-Dichloro-1,1,2,2-tetrafluoroethane (133/133%), Brommethane (133/129%) and Chloroethane (135/132%). These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Client Sample ID: Air-1A

Lab Sample ID: 440-41118-1

Date Collected: 03/11/13 12:04

Matrix: Air

Date Received: 03/15/13 10:00

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0058		0.0012		ppm v/v			03/24/13 22:38	1
Benzene	0.00087		0.00040		ppm v/v			03/24/13 22:38	1
Benzyl chloride	ND		0.00080		ppm v/v			03/24/13 22:38	1
Bromodichloromethane	ND		0.00030		ppm v/v			03/24/13 22:38	1
Bromoform	ND		0.00080		ppm v/v			03/24/13 22:38	1
Bromomethane	ND *		0.00080		ppm v/v			03/24/13 22:38	1
2-Butanone (MEK)	ND		0.00080		ppm v/v			03/24/13 22:38	1
Carbon disulfide	0.00091		0.00080		ppm v/v			03/24/13 22:38	1
Carbon tetrachloride	ND		0.00080		ppm v/v			03/24/13 22:38	1
Chlorobenzene	ND		0.00030		ppm v/v			03/24/13 22:38	1
Dibromochloromethane	ND		0.00040		ppm v/v			03/24/13 22:38	1
Chloroethane	ND *		0.0015		ppm v/v			03/24/13 22:38	1
Chloroform	ND		0.00030		ppm v/v			03/24/13 22:38	1
Chloromethane	0.00087		0.00080		ppm v/v			03/24/13 22:38	1
tert-Butyl alcohol (TBA)	ND		0.0050		ppm v/v			03/24/13 22:38	1
1,2-Dibromoethane (EDB)	ND		0.00080		ppm v/v			03/24/13 22:38	1
1,2-Dichlorobenzene	ND		0.00040		ppm v/v			03/24/13 22:38	1
1,3-Dichlorobenzene	ND		0.00040		ppm v/v			03/24/13 22:38	1
1,4-Dichlorobenzene	ND		0.00040		ppm v/v			03/24/13 22:38	1
Dichlorodifluoromethane	0.00064		0.00040		ppm v/v			03/24/13 22:38	1
1,1-Dichloroethane	ND		0.00030		ppm v/v			03/24/13 22:38	1
1,2-Dichloroethane	ND		0.00080		ppm v/v			03/24/13 22:38	1
1,1-Dichloroethene	ND		0.00080		ppm v/v			03/24/13 22:38	1
cis-1,2-Dichloroethene	ND		0.00040		ppm v/v			03/24/13 22:38	1
trans-1,2-Dichloroethene	ND		0.00040		ppm v/v			03/24/13 22:38	1
1,2-Dichloropropane	ND		0.00040		ppm v/v			03/24/13 22:38	1
cis-1,3-Dichloropropene	ND		0.00040		ppm v/v			03/24/13 22:38	1
trans-1,3-Dichloropropene	ND		0.00040		ppm v/v			03/24/13 22:38	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND *		0.00040		ppm v/v			03/24/13 22:38	1
Ethylbenzene	0.00055		0.00040		ppm v/v			03/24/13 22:38	1
4-Ethyltoluene	0.00053		0.00040		ppm v/v			03/24/13 22:38	1
Hexachlorobutadiene	ND		0.00080		ppm v/v			03/24/13 22:38	1
2-Hexanone	ND		0.00080		ppm v/v			03/24/13 22:38	1
Methylene chloride	0.0063		0.00040		ppm v/v			03/24/13 22:38	1
4-Methyl-2-pentanone (MIBK)	0.00072		0.00040		ppm v/v			03/24/13 22:38	1
Styrene	ND		0.00040		ppm v/v			03/24/13 22:38	1
1,1,2,2-Tetrachloroethane	ND		0.00040		ppm v/v			03/24/13 22:38	1
Tetrachloroethene	ND		0.00040		ppm v/v			03/24/13 22:38	1
Toluene	0.0039		0.00040		ppm v/v			03/24/13 22:38	1
1,2,4-Trichlorobenzene	ND		0.0025		ppm v/v			03/24/13 22:38	1
1,1,1-Trichloroethane	ND		0.00030		ppm v/v			03/24/13 22:38	1
1,1,2-Trichloroethane	ND		0.00040		ppm v/v			03/24/13 22:38	1
Trichloroethene	0.00046		0.00040		ppm v/v			03/24/13 22:38	1
Trichlorofluoromethane	ND		0.00040		ppm v/v			03/24/13 22:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00040		ppm v/v			03/24/13 22:38	1
1,2,4-Trimethylbenzene	ND		0.00080		ppm v/v			03/24/13 22:38	1
1,3,5-Trimethylbenzene	ND		0.00040		ppm v/v			03/24/13 22:38	1
Vinyl acetate	ND		0.00080		ppm v/v			03/24/13 22:38	1

TestAmerica Irvine

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Client Sample ID: Air-1A

Lab Sample ID: 440-41118-1

Date Collected: 03/11/13 12:04

Matrix: Air

Date Received: 03/15/13 10:00

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.00040		ppm v/v			03/24/13 22:38	1
Methyl-t-Butyl Ether (MTBE)	ND		0.00080		ppm v/v			03/24/13 22:38	1
Xylenes, Total	0.0031		0.00040		ppm v/v			03/24/13 22:38	1
Tert-amyl-methyl ether (TAME)	ND		0.0010		ppm v/v			03/24/13 22:38	1
Ethyl-t-butyl ether (ETBE)	ND		0.0010		ppm v/v			03/24/13 22:38	1
Isopropyl Ether (DIPE)	ND		0.0010		ppm v/v			03/24/13 22:38	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	14		2.9		ug/m3			03/24/13 22:38	1
Benzene	2.8		1.3		ug/m3			03/24/13 22:38	1
Benzyl chloride	ND		4.1		ug/m3			03/24/13 22:38	1
Bromodichloromethane	ND		2.0		ug/m3			03/24/13 22:38	1
Bromoform	ND		8.3		ug/m3			03/24/13 22:38	1
Bromomethane	ND *		3.1		ug/m3			03/24/13 22:38	1
2-Butanone (MEK)	ND		2.4		ug/m3			03/24/13 22:38	1
Carbon disulfide	2.8		2.5		ug/m3			03/24/13 22:38	1
Carbon tetrachloride	ND		5.0		ug/m3			03/24/13 22:38	1
Chlorobenzene	ND		1.4		ug/m3			03/24/13 22:38	1
Dibromochloromethane	ND		3.4		ug/m3			03/24/13 22:38	1
Chloroethane	ND *		4.0		ug/m3			03/24/13 22:38	1
Chloroform	ND		1.5		ug/m3			03/24/13 22:38	1
Chloromethane	1.8		1.7		ug/m3			03/24/13 22:38	1
tert-Butyl alcohol (TBA)	ND		15		ug/m3			03/24/13 22:38	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m3			03/24/13 22:38	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			03/24/13 22:38	1
1,3-Dichlorobenzene	ND		2.4		ug/m3			03/24/13 22:38	1
1,4-Dichlorobenzene	ND		2.4		ug/m3			03/24/13 22:38	1
Dichlorodifluoromethane	3.2		2.0		ug/m3			03/24/13 22:38	1
1,1-Dichloroethane	ND		1.2		ug/m3			03/24/13 22:38	1
1,2-Dichloroethane	ND		3.2		ug/m3			03/24/13 22:38	1
1,1-Dichloroethene	ND		3.2		ug/m3			03/24/13 22:38	1
cis-1,2-Dichloroethene	ND		1.6		ug/m3			03/24/13 22:38	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			03/24/13 22:38	1
1,2-Dichloropropane	ND		1.8		ug/m3			03/24/13 22:38	1
cis-1,3-Dichloropropene	ND		1.8		ug/m3			03/24/13 22:38	1
trans-1,3-Dichloropropene	ND		1.8		ug/m3			03/24/13 22:38	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND *		2.8		ug/m3			03/24/13 22:38	1
Ethylbenzene	2.4		1.7		ug/m3			03/24/13 22:38	1
4-Ethyltoluene	2.6		2.0		ug/m3			03/24/13 22:38	1
Hexachlorobutadiene	ND		8.5		ug/m3			03/24/13 22:38	1
2-Hexanone	ND		3.3		ug/m3			03/24/13 22:38	1
Methylene chloride	22		1.4		ug/m3			03/24/13 22:38	1
4-Methyl-2-pentanone (MIBK)	3.0		1.6		ug/m3			03/24/13 22:38	1
Styrene	ND		1.7		ug/m3			03/24/13 22:38	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			03/24/13 22:38	1
Tetrachloroethene	ND		2.7		ug/m3			03/24/13 22:38	1
Toluene	15		1.5		ug/m3			03/24/13 22:38	1
1,2,4-Trichlorobenzene	ND		19		ug/m3			03/24/13 22:38	1
1,1,1-Trichloroethane	ND		1.6		ug/m3			03/24/13 22:38	1

TestAmerica Irvine

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Client Sample ID: Air-1A

Lab Sample ID: 440-41118-1

Date Collected: 03/11/13 12:04

Matrix: Air

Date Received: 03/15/13 10:00

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		2.2		ug/m3			03/24/13 22:38	1
Trichloroethene	2.5		2.1		ug/m3			03/24/13 22:38	1
Trichlorofluoromethane	ND		2.2		ug/m3			03/24/13 22:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m3			03/24/13 22:38	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			03/24/13 22:38	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			03/24/13 22:38	1
Vinyl acetate	ND		2.8		ug/m3			03/24/13 22:38	1
Vinyl chloride	ND		1.0		ug/m3			03/24/13 22:38	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9		ug/m3			03/24/13 22:38	1
Xylenes, Total	13		1.7		ug/m3			03/24/13 22:38	1
Tert-amyl-methyl ether (TAME)	ND		4.2		ug/m3			03/24/13 22:38	1
Ethyl-t-butyl ether (ETBE)	ND		4.2		ug/m3			03/24/13 22:38	1
Isopropyl Ether (DIPE)	ND		4.2		ug/m3			03/24/13 22:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130					03/24/13 22:38	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130					03/24/13 22:38	1
Toluene-d8 (Surr)	101		70 - 130					03/24/13 22:38	1

Method: TO3 - Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND	LW	2.9		ppm v/v			03/19/13 06:53	1.62
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND	LW	12000		ug/m3			03/19/13 06:53	1.62

Client Sample ID: Air-2A

Lab Sample ID: 440-41118-2

Date Collected: 03/11/13 12:07

Matrix: Air

Date Received: 03/15/13 10:00

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.012		0.0012		ppm v/v			03/24/13 23:24	1
Benzene	0.0013		0.00040		ppm v/v			03/24/13 23:24	1
Benzyl chloride	ND		0.00080		ppm v/v			03/24/13 23:24	1
Bromodichloromethane	ND		0.00030		ppm v/v			03/24/13 23:24	1
Bromoform	ND		0.00080		ppm v/v			03/24/13 23:24	1
Bromomethane	ND *		0.00080		ppm v/v			03/24/13 23:24	1
2-Butanone (MEK)	0.0010		0.00080		ppm v/v			03/24/13 23:24	1
Carbon disulfide	ND		0.00080		ppm v/v			03/24/13 23:24	1
Carbon tetrachloride	ND		0.00080		ppm v/v			03/24/13 23:24	1
Chlorobenzene	ND		0.00030		ppm v/v			03/24/13 23:24	1
Dibromochloromethane	ND		0.00040		ppm v/v			03/24/13 23:24	1
Chloroethane	ND *		0.0015		ppm v/v			03/24/13 23:24	1
Chloroform	ND		0.00030		ppm v/v			03/24/13 23:24	1
Chloromethane	ND		0.00080		ppm v/v			03/24/13 23:24	1
tert-Butyl alcohol (TBA)	ND		0.0050		ppm v/v			03/24/13 23:24	1
1,2-Dibromoethane (EDB)	ND		0.00080		ppm v/v			03/24/13 23:24	1
1,2-Dichlorobenzene	ND		0.00040		ppm v/v			03/24/13 23:24	1

TestAmerica Irvine

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Client Sample ID: Air-2A

Lab Sample ID: 440-41118-2

Date Collected: 03/11/13 12:07

Matrix: Air

Date Received: 03/15/13 10:00

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		0.00040		ppm v/v			03/24/13 23:24	1
1,4-Dichlorobenzene	ND		0.00040		ppm v/v			03/24/13 23:24	1
Dichlorodifluoromethane	0.0012		0.00040		ppm v/v			03/24/13 23:24	1
1,1-Dichloroethane	ND		0.00030		ppm v/v			03/24/13 23:24	1
1,2-Dichloroethane	ND		0.00080		ppm v/v			03/24/13 23:24	1
1,1-Dichloroethene	ND		0.00080		ppm v/v			03/24/13 23:24	1
cis-1,2-Dichloroethene	ND		0.00040		ppm v/v			03/24/13 23:24	1
trans-1,2-Dichloroethene	ND		0.00040		ppm v/v			03/24/13 23:24	1
1,2-Dichloropropane	ND		0.00040		ppm v/v			03/24/13 23:24	1
cis-1,3-Dichloropropene	ND		0.00040		ppm v/v			03/24/13 23:24	1
trans-1,3-Dichloropropene	ND		0.00040		ppm v/v			03/24/13 23:24	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND *		0.00040		ppm v/v			03/24/13 23:24	1
Ethylbenzene	0.00086		0.00040		ppm v/v			03/24/13 23:24	1
4-Ethyltoluene	0.00071		0.00040		ppm v/v			03/24/13 23:24	1
Hexachlorobutadiene	ND		0.00080		ppm v/v			03/24/13 23:24	1
2-Hexanone	ND		0.00080		ppm v/v			03/24/13 23:24	1
Methylene chloride	ND		0.00040		ppm v/v			03/24/13 23:24	1
4-Methyl-2-pentanone (MIBK)	ND		0.00040		ppm v/v			03/24/13 23:24	1
Styrene	ND		0.00040		ppm v/v			03/24/13 23:24	1
1,1,2,2-Tetrachloroethane	ND		0.00040		ppm v/v			03/24/13 23:24	1
Tetrachloroethene	ND		0.00040		ppm v/v			03/24/13 23:24	1
Toluene	0.0061		0.00040		ppm v/v			03/24/13 23:24	1
1,2,4-Trichlorobenzene	ND		0.0025		ppm v/v			03/24/13 23:24	1
1,1,1-Trichloroethane	ND		0.00030		ppm v/v			03/24/13 23:24	1
1,1,2-Trichloroethane	ND		0.00040		ppm v/v			03/24/13 23:24	1
Trichloroethene	ND		0.00040		ppm v/v			03/24/13 23:24	1
Trichlorofluoromethane	ND		0.00040		ppm v/v			03/24/13 23:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00040		ppm v/v			03/24/13 23:24	1
1,2,4-Trimethylbenzene	ND		0.00080		ppm v/v			03/24/13 23:24	1
1,3,5-Trimethylbenzene	ND		0.00040		ppm v/v			03/24/13 23:24	1
Vinyl acetate	ND		0.00080		ppm v/v			03/24/13 23:24	1
Vinyl chloride	ND		0.00040		ppm v/v			03/24/13 23:24	1
Methyl-t-Butyl Ether (MTBE)	ND		0.00080		ppm v/v			03/24/13 23:24	1
Xylenes, Total	0.0046		0.00040		ppm v/v			03/24/13 23:24	1
Tert-amyl-methyl ether (TAME)	ND		0.0010		ppm v/v			03/24/13 23:24	1
Ethyl-t-butyl ether (ETBE)	ND		0.0010		ppm v/v			03/24/13 23:24	1
Isopropyl Ether (DIPE)	ND		0.0010		ppm v/v			03/24/13 23:24	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	29		2.9		ug/m3			03/24/13 23:24	1
Benzene	4.1		1.3		ug/m3			03/24/13 23:24	1
Benzyl chloride	ND		4.1		ug/m3			03/24/13 23:24	1
Bromodichloromethane	ND		2.0		ug/m3			03/24/13 23:24	1
Bromoform	ND		8.3		ug/m3			03/24/13 23:24	1
Bromomethane	ND *		3.1		ug/m3			03/24/13 23:24	1
2-Butanone (MEK)	3.0		2.4		ug/m3			03/24/13 23:24	1
Carbon disulfide	ND		2.5		ug/m3			03/24/13 23:24	1
Carbon tetrachloride	ND		5.0		ug/m3			03/24/13 23:24	1
Chlorobenzene	ND		1.4		ug/m3			03/24/13 23:24	1

TestAmerica Irvine

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Client Sample ID: Air-2A

Lab Sample ID: 440-41118-2

Date Collected: 03/11/13 12:07

Matrix: Air

Date Received: 03/15/13 10:00

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	ND		3.4		ug/m3			03/24/13 23:24	1
Chloroethane	ND	*	4.0		ug/m3			03/24/13 23:24	1
Chloroform	ND		1.5		ug/m3			03/24/13 23:24	1
Chloromethane	ND		1.7		ug/m3			03/24/13 23:24	1
tert-Butyl alcohol (TBA)	ND		15		ug/m3			03/24/13 23:24	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m3			03/24/13 23:24	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			03/24/13 23:24	1
1,3-Dichlorobenzene	ND		2.4		ug/m3			03/24/13 23:24	1
1,4-Dichlorobenzene	ND		2.4		ug/m3			03/24/13 23:24	1
Dichlorodifluoromethane	6.0		2.0		ug/m3			03/24/13 23:24	1
1,1-Dichloroethane	ND		1.2		ug/m3			03/24/13 23:24	1
1,2-Dichloroethane	ND		3.2		ug/m3			03/24/13 23:24	1
1,1-Dichloroethene	ND		3.2		ug/m3			03/24/13 23:24	1
cis-1,2-Dichloroethene	ND		1.6		ug/m3			03/24/13 23:24	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			03/24/13 23:24	1
1,2-Dichloropropane	ND		1.8		ug/m3			03/24/13 23:24	1
cis-1,3-Dichloropropene	ND		1.8		ug/m3			03/24/13 23:24	1
trans-1,3-Dichloropropene	ND		1.8		ug/m3			03/24/13 23:24	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	*	2.8		ug/m3			03/24/13 23:24	1
Ethylbenzene	3.7		1.7		ug/m3			03/24/13 23:24	1
4-Ethyltoluene	3.5		2.0		ug/m3			03/24/13 23:24	1
Hexachlorobutadiene	ND		8.5		ug/m3			03/24/13 23:24	1
2-Hexanone	ND		3.3		ug/m3			03/24/13 23:24	1
Methylene chloride	ND		1.4		ug/m3			03/24/13 23:24	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m3			03/24/13 23:24	1
Styrene	ND		1.7		ug/m3			03/24/13 23:24	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			03/24/13 23:24	1
Tetrachloroethene	ND		2.7		ug/m3			03/24/13 23:24	1
Toluene	23		1.5		ug/m3			03/24/13 23:24	1
1,2,4-Trichlorobenzene	ND		19		ug/m3			03/24/13 23:24	1
1,1,1-Trichloroethane	ND		1.6		ug/m3			03/24/13 23:24	1
1,1,2-Trichloroethane	ND		2.2		ug/m3			03/24/13 23:24	1
Trichloroethene	ND		2.1		ug/m3			03/24/13 23:24	1
Trichlorofluoromethane	ND		2.2		ug/m3			03/24/13 23:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m3			03/24/13 23:24	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			03/24/13 23:24	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			03/24/13 23:24	1
Vinyl acetate	ND		2.8		ug/m3			03/24/13 23:24	1
Vinyl chloride	ND		1.0		ug/m3			03/24/13 23:24	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9		ug/m3			03/24/13 23:24	1
Xylenes, Total	20		1.7		ug/m3			03/24/13 23:24	1
Tert-amyl-methyl ether (TAME)	ND		4.2		ug/m3			03/24/13 23:24	1
Ethyl-t-butyl ether (ETBE)	ND		4.2		ug/m3			03/24/13 23:24	1
Isopropyl Ether (DIPE)	ND		4.2		ug/m3			03/24/13 23:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130					03/24/13 23:24	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130					03/24/13 23:24	1
Toluene-d8 (Surr)	101		70 - 130					03/24/13 23:24	1

TestAmerica Irvine

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Client Sample ID: Air-2A

Lab Sample ID: 440-41118-2

Date Collected: 03/11/13 12:07

Matrix: Air

Date Received: 03/15/13 10:00

Sample Container: Summa Canister 6L

Method: TO3 - Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND	LW	3.0		ppm v/v			03/19/13 07:13	1.64

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND	LW	12000		ug/m3			03/19/13 07:13	1.64

Client Sample ID: Air-3A

Lab Sample ID: 440-41118-3

Date Collected: 03/11/13 12:10

Matrix: Air

Date Received: 03/15/13 10:00

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	0.0025		0.0012		ppm v/v			03/25/13 00:21	1
Benzene	0.00047		0.00040		ppm v/v			03/25/13 00:21	1
Benzyl chloride	ND		0.00080		ppm v/v			03/25/13 00:21	1
Bromodichloromethane	ND		0.00030		ppm v/v			03/25/13 00:21	1
Bromoform	ND		0.00080		ppm v/v			03/25/13 00:21	1
Bromomethane	ND *		0.00080		ppm v/v			03/25/13 00:21	1
2-Butanone (MEK)	ND		0.00080		ppm v/v			03/25/13 00:21	1
Carbon disulfide	ND		0.00080		ppm v/v			03/25/13 00:21	1
Carbon tetrachloride	ND		0.00080		ppm v/v			03/25/13 00:21	1
Chlorobenzene	ND		0.00030		ppm v/v			03/25/13 00:21	1
Dibromochloromethane	ND		0.00040		ppm v/v			03/25/13 00:21	1
Chloroethane	ND *		0.0015		ppm v/v			03/25/13 00:21	1
Chloroform	ND		0.00030		ppm v/v			03/25/13 00:21	1
Chloromethane	0.00085		0.00080		ppm v/v			03/25/13 00:21	1
tert-Butyl alcohol (TBA)	ND		0.0050		ppm v/v			03/25/13 00:21	1
1,2-Dibromoethane (EDB)	ND		0.00080		ppm v/v			03/25/13 00:21	1
1,2-Dichlorobenzene	ND		0.00040		ppm v/v			03/25/13 00:21	1
1,3-Dichlorobenzene	ND		0.00040		ppm v/v			03/25/13 00:21	1
1,4-Dichlorobenzene	ND		0.00040		ppm v/v			03/25/13 00:21	1
Dichlorodifluoromethane	0.00052		0.00040		ppm v/v			03/25/13 00:21	1
1,1-Dichloroethane	ND		0.00030		ppm v/v			03/25/13 00:21	1
1,2-Dichloroethane	ND		0.00080		ppm v/v			03/25/13 00:21	1
1,1-Dichloroethene	ND		0.00080		ppm v/v			03/25/13 00:21	1
cis-1,2-Dichloroethene	ND		0.00040		ppm v/v			03/25/13 00:21	1
trans-1,2-Dichloroethene	ND		0.00040		ppm v/v			03/25/13 00:21	1
1,2-Dichloropropane	ND		0.00040		ppm v/v			03/25/13 00:21	1
cis-1,3-Dichloropropene	ND		0.00040		ppm v/v			03/25/13 00:21	1
trans-1,3-Dichloropropene	ND		0.00040		ppm v/v			03/25/13 00:21	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND *		0.00040		ppm v/v			03/25/13 00:21	1
Ethylbenzene	ND		0.00040		ppm v/v			03/25/13 00:21	1
4-Ethyltoluene	ND		0.00040		ppm v/v			03/25/13 00:21	1
Hexachlorobutadiene	ND		0.00080		ppm v/v			03/25/13 00:21	1
2-Hexanone	ND		0.00080		ppm v/v			03/25/13 00:21	1
Methylene chloride	ND		0.00040		ppm v/v			03/25/13 00:21	1
4-Methyl-2-pentanone (MIBK)	ND		0.00040		ppm v/v			03/25/13 00:21	1
Styrene	ND		0.00040		ppm v/v			03/25/13 00:21	1
1,1,2,2-Tetrachloroethane	ND		0.00040		ppm v/v			03/25/13 00:21	1

TestAmerica Irvine

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Client Sample ID: Air-3A

Lab Sample ID: 440-41118-3

Date Collected: 03/11/13 12:10

Matrix: Air

Date Received: 03/15/13 10:00

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.00040		ppm v/v			03/25/13 00:21	1
Toluene	0.0013		0.00040		ppm v/v			03/25/13 00:21	1
1,2,4-Trichlorobenzene	ND		0.0025		ppm v/v			03/25/13 00:21	1
1,1,1-Trichloroethane	ND		0.00030		ppm v/v			03/25/13 00:21	1
1,1,2-Trichloroethane	ND		0.00040		ppm v/v			03/25/13 00:21	1
Trichloroethene	ND		0.00040		ppm v/v			03/25/13 00:21	1
Trichlorofluoromethane	ND		0.00040		ppm v/v			03/25/13 00:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00040		ppm v/v			03/25/13 00:21	1
1,2,4-Trimethylbenzene	ND		0.00080		ppm v/v			03/25/13 00:21	1
1,3,5-Trimethylbenzene	ND		0.00040		ppm v/v			03/25/13 00:21	1
Vinyl acetate	ND		0.00080		ppm v/v			03/25/13 00:21	1
Vinyl chloride	ND		0.00040		ppm v/v			03/25/13 00:21	1
Methyl-t-Butyl Ether (MTBE)	ND		0.00080		ppm v/v			03/25/13 00:21	1
Xylenes, Total	0.0012		0.00040		ppm v/v			03/25/13 00:21	1
Tert-amyl-methyl ether (TAME)	ND		0.0010		ppm v/v			03/25/13 00:21	1
Ethyl-t-butyl ether (ETBE)	ND		0.0010		ppm v/v			03/25/13 00:21	1
Isopropyl Ether (DIPE)	ND		0.0010		ppm v/v			03/25/13 00:21	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	6.0		2.9		ug/m3			03/25/13 00:21	1
Benzene	1.5		1.3		ug/m3			03/25/13 00:21	1
Benzyl chloride	ND		4.1		ug/m3			03/25/13 00:21	1
Bromodichloromethane	ND		2.0		ug/m3			03/25/13 00:21	1
Bromoform	ND		8.3		ug/m3			03/25/13 00:21	1
Bromomethane	ND *		3.1		ug/m3			03/25/13 00:21	1
2-Butanone (MEK)	ND		2.4		ug/m3			03/25/13 00:21	1
Carbon disulfide	ND		2.5		ug/m3			03/25/13 00:21	1
Carbon tetrachloride	ND		5.0		ug/m3			03/25/13 00:21	1
Chlorobenzene	ND		1.4		ug/m3			03/25/13 00:21	1
Dibromochloromethane	ND		3.4		ug/m3			03/25/13 00:21	1
Chloroethane	ND *		4.0		ug/m3			03/25/13 00:21	1
Chloroform	ND		1.5		ug/m3			03/25/13 00:21	1
Chloromethane	1.8		1.7		ug/m3			03/25/13 00:21	1
tert-Butyl alcohol (TBA)	ND		15		ug/m3			03/25/13 00:21	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m3			03/25/13 00:21	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			03/25/13 00:21	1
1,3-Dichlorobenzene	ND		2.4		ug/m3			03/25/13 00:21	1
1,4-Dichlorobenzene	ND		2.4		ug/m3			03/25/13 00:21	1
Dichlorodifluoromethane	2.6		2.0		ug/m3			03/25/13 00:21	1
1,1-Dichloroethane	ND		1.2		ug/m3			03/25/13 00:21	1
1,2-Dichloroethane	ND		3.2		ug/m3			03/25/13 00:21	1
1,1-Dichloroethene	ND		3.2		ug/m3			03/25/13 00:21	1
cis-1,2-Dichloroethene	ND		1.6		ug/m3			03/25/13 00:21	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			03/25/13 00:21	1
1,2-Dichloropropane	ND		1.8		ug/m3			03/25/13 00:21	1
cis-1,3-Dichloropropene	ND		1.8		ug/m3			03/25/13 00:21	1
trans-1,3-Dichloropropene	ND		1.8		ug/m3			03/25/13 00:21	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND *		2.8		ug/m3			03/25/13 00:21	1
Ethylbenzene	ND		1.7		ug/m3			03/25/13 00:21	1

TestAmerica Irvine

Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Client Sample ID: Air-3A

Lab Sample ID: 440-41118-3

Date Collected: 03/11/13 12:10

Matrix: Air

Date Received: 03/15/13 10:00

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Ethyltoluene	ND		2.0		ug/m3			03/25/13 00:21	1
Hexachlorobutadiene	ND		8.5		ug/m3			03/25/13 00:21	1
2-Hexanone	ND		3.3		ug/m3			03/25/13 00:21	1
Methylene chloride	ND		1.4		ug/m3			03/25/13 00:21	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m3			03/25/13 00:21	1
Styrene	ND		1.7		ug/m3			03/25/13 00:21	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			03/25/13 00:21	1
Tetrachloroethene	ND		2.7		ug/m3			03/25/13 00:21	1
Toluene	5.0		1.5		ug/m3			03/25/13 00:21	1
1,2,4-Trichlorobenzene	ND		19		ug/m3			03/25/13 00:21	1
1,1,1-Trichloroethane	ND		1.6		ug/m3			03/25/13 00:21	1
1,1,2-Trichloroethane	ND		2.2		ug/m3			03/25/13 00:21	1
Trichloroethene	ND		2.1		ug/m3			03/25/13 00:21	1
Trichlorofluoromethane	ND		2.2		ug/m3			03/25/13 00:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m3			03/25/13 00:21	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			03/25/13 00:21	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			03/25/13 00:21	1
Vinyl acetate	ND		2.8		ug/m3			03/25/13 00:21	1
Vinyl chloride	ND		1.0		ug/m3			03/25/13 00:21	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9		ug/m3			03/25/13 00:21	1
Xylenes, Total	5.0		1.7		ug/m3			03/25/13 00:21	1
Tert-amyl-methyl ether (TAME)	ND		4.2		ug/m3			03/25/13 00:21	1
Ethyl-t-butyl ether (ETBE)	ND		4.2		ug/m3			03/25/13 00:21	1
Isopropyl Ether (DIPE)	ND		4.2		ug/m3			03/25/13 00:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130					03/25/13 00:21	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130					03/25/13 00:21	1
Toluene-d8 (Surr)	101		70 - 130					03/25/13 00:21	1

Method: TO3 - Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND	LW	2.9		ppm v/v			03/19/13 07:34	1.59
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND	LW	12000		ug/m3			03/19/13 07:34	1.59

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL CM
TO3	Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)	EPA	TAL CM

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL CM = TestAmerica Costa Mesa, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626, TEL (714)258-8610

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Client Sample ID: Air-1A

Lab Sample ID: 440-41118-1

Date Collected: 03/11/13 12:04

Matrix: Air

Date Received: 03/15/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	406 mL	250 mL	4386	03/24/13 22:38	DLK	TAL CM
Total/NA	Analysis	TO3		1.62	1 mL	1 mL	4340	03/19/13 06:53	TD	TAL CM

Client Sample ID: Air-2A

Lab Sample ID: 440-41118-2

Date Collected: 03/11/13 12:07

Matrix: Air

Date Received: 03/15/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	410 mL	250 mL	4386	03/24/13 23:24	DLK	TAL CM
Total/NA	Analysis	TO3		1.64	1 mL	1 mL	4340	03/19/13 07:13	TD	TAL CM

Client Sample ID: Air-3A

Lab Sample ID: 440-41118-3

Date Collected: 03/11/13 12:10

Matrix: Air

Date Received: 03/15/13 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	397 mL	250 mL	4386	03/25/13 00:21	DLK	TAL CM
Total/NA	Analysis	TO3		1.59	1 mL	1 mL	4340	03/19/13 07:34	TD	TAL CM

Laboratory References:

TAL CM = TestAmerica Costa Mesa, 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626, TEL (714)258-8610

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 340-4386/8

Matrix: Air

Analysis Batch: 4386

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	ND		0.0012		ppm v/v			03/24/13 12:56	1
Benzene	ND		0.00040		ppm v/v			03/24/13 12:56	1
Benzyl chloride	ND		0.00080		ppm v/v			03/24/13 12:56	1
Bromodichloromethane	ND		0.00030		ppm v/v			03/24/13 12:56	1
Bromoform	ND		0.00080		ppm v/v			03/24/13 12:56	1
Bromomethane	ND		0.00080		ppm v/v			03/24/13 12:56	1
2-Butanone (MEK)	ND		0.00080		ppm v/v			03/24/13 12:56	1
Carbon disulfide	ND		0.00080		ppm v/v			03/24/13 12:56	1
Carbon tetrachloride	ND		0.00080		ppm v/v			03/24/13 12:56	1
Chlorobenzene	ND		0.00030		ppm v/v			03/24/13 12:56	1
Dibromochloromethane	ND		0.00040		ppm v/v			03/24/13 12:56	1
Chloroethane	ND		0.0015		ppm v/v			03/24/13 12:56	1
Chloroform	ND		0.00030		ppm v/v			03/24/13 12:56	1
Chloromethane	ND		0.00080		ppm v/v			03/24/13 12:56	1
tert-Butyl alcohol (TBA)	ND		0.0050		ppm v/v			03/24/13 12:56	1
1,2-Dibromoethane (EDB)	ND		0.00080		ppm v/v			03/24/13 12:56	1
1,2-Dichlorobenzene	ND		0.00040		ppm v/v			03/24/13 12:56	1
1,3-Dichlorobenzene	ND		0.00040		ppm v/v			03/24/13 12:56	1
1,4-Dichlorobenzene	ND		0.00040		ppm v/v			03/24/13 12:56	1
Dichlorodifluoromethane	ND		0.00040		ppm v/v			03/24/13 12:56	1
1,1-Dichloroethane	ND		0.00030		ppm v/v			03/24/13 12:56	1
1,2-Dichloroethane	ND		0.00080		ppm v/v			03/24/13 12:56	1
1,1-Dichloroethene	ND		0.00080		ppm v/v			03/24/13 12:56	1
cis-1,2-Dichloroethene	ND		0.00040		ppm v/v			03/24/13 12:56	1
trans-1,2-Dichloroethene	ND		0.00040		ppm v/v			03/24/13 12:56	1
1,2-Dichloropropane	ND		0.00040		ppm v/v			03/24/13 12:56	1
cis-1,3-Dichloropropene	ND		0.00040		ppm v/v			03/24/13 12:56	1
trans-1,3-Dichloropropene	ND		0.00040		ppm v/v			03/24/13 12:56	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.00040		ppm v/v			03/24/13 12:56	1
Ethylbenzene	ND		0.00040		ppm v/v			03/24/13 12:56	1
4-Ethyltoluene	ND		0.00040		ppm v/v			03/24/13 12:56	1
Hexachlorobutadiene	ND		0.00080		ppm v/v			03/24/13 12:56	1
2-Hexanone	ND		0.00080		ppm v/v			03/24/13 12:56	1
Methylene chloride	ND		0.00040		ppm v/v			03/24/13 12:56	1
4-Methyl-2-pentanone (MIBK)	ND		0.00040		ppm v/v			03/24/13 12:56	1
Styrene	ND		0.00040		ppm v/v			03/24/13 12:56	1
1,1,2,2-Tetrachloroethane	ND		0.00040		ppm v/v			03/24/13 12:56	1
Tetrachloroethene	ND		0.00040		ppm v/v			03/24/13 12:56	1
Toluene	ND		0.00040		ppm v/v			03/24/13 12:56	1
1,2,4-Trichlorobenzene	ND		0.0025		ppm v/v			03/24/13 12:56	1
1,1,1-Trichloroethane	ND		0.00030		ppm v/v			03/24/13 12:56	1
1,1,2-Trichloroethane	ND		0.00040		ppm v/v			03/24/13 12:56	1
Trichloroethene	ND		0.00040		ppm v/v			03/24/13 12:56	1
Trichlorofluoromethane	ND		0.00040		ppm v/v			03/24/13 12:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00040		ppm v/v			03/24/13 12:56	1
1,2,4-Trimethylbenzene	ND		0.00080		ppm v/v			03/24/13 12:56	1
1,3,5-Trimethylbenzene	ND		0.00040		ppm v/v			03/24/13 12:56	1
Vinyl acetate	ND		0.00080		ppm v/v			03/24/13 12:56	1

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 340-4386/8

Matrix: Air

Analysis Batch: 4386

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Vinyl chloride	ND		0.00040		ppm v/v			03/24/13 12:56	1
Methyl-t-Butyl Ether (MTBE)	ND		0.00080		ppm v/v			03/24/13 12:56	1
Xylenes, Total	ND		0.00040		ppm v/v			03/24/13 12:56	1
Tert-amyl-methyl ether (TAME)	ND		0.0010		ppm v/v			03/24/13 12:56	1
Ethyl-t-butyl ether (ETBE)	ND		0.0010		ppm v/v			03/24/13 12:56	1
Isopropyl Ether (DIPE)	ND		0.0010		ppm v/v			03/24/13 12:56	1
Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	ND		2.9		ug/m3			03/24/13 12:56	1
Benzene	ND		1.3		ug/m3			03/24/13 12:56	1
Benzyl chloride	ND		4.1		ug/m3			03/24/13 12:56	1
Bromodichloromethane	ND		2.0		ug/m3			03/24/13 12:56	1
Bromoform	ND		8.3		ug/m3			03/24/13 12:56	1
Bromomethane	ND		3.1		ug/m3			03/24/13 12:56	1
2-Butanone (MEK)	ND		2.4		ug/m3			03/24/13 12:56	1
Carbon disulfide	ND		2.5		ug/m3			03/24/13 12:56	1
Carbon tetrachloride	ND		5.0		ug/m3			03/24/13 12:56	1
Chlorobenzene	ND		1.4		ug/m3			03/24/13 12:56	1
Dibromochloromethane	ND		3.4		ug/m3			03/24/13 12:56	1
Chloroethane	ND		4.0		ug/m3			03/24/13 12:56	1
Chloroform	ND		1.5		ug/m3			03/24/13 12:56	1
Chloromethane	ND		1.7		ug/m3			03/24/13 12:56	1
tert-Butyl alcohol (TBA)	ND		15		ug/m3			03/24/13 12:56	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m3			03/24/13 12:56	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			03/24/13 12:56	1
1,3-Dichlorobenzene	ND		2.4		ug/m3			03/24/13 12:56	1
1,4-Dichlorobenzene	ND		2.4		ug/m3			03/24/13 12:56	1
Dichlorodifluoromethane	ND		2.0		ug/m3			03/24/13 12:56	1
1,1-Dichloroethane	ND		1.2		ug/m3			03/24/13 12:56	1
1,2-Dichloroethane	ND		3.2		ug/m3			03/24/13 12:56	1
1,1-Dichloroethene	ND		3.2		ug/m3			03/24/13 12:56	1
cis-1,2-Dichloroethene	ND		1.6		ug/m3			03/24/13 12:56	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			03/24/13 12:56	1
1,2-Dichloropropane	ND		1.8		ug/m3			03/24/13 12:56	1
cis-1,3-Dichloropropene	ND		1.8		ug/m3			03/24/13 12:56	1
trans-1,3-Dichloropropene	ND		1.8		ug/m3			03/24/13 12:56	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m3			03/24/13 12:56	1
Ethylbenzene	ND		1.7		ug/m3			03/24/13 12:56	1
4-Ethyltoluene	ND		2.0		ug/m3			03/24/13 12:56	1
Hexachlorobutadiene	ND		8.5		ug/m3			03/24/13 12:56	1
2-Hexanone	ND		3.3		ug/m3			03/24/13 12:56	1
Methylene chloride	ND		1.4		ug/m3			03/24/13 12:56	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m3			03/24/13 12:56	1
Styrene	ND		1.7		ug/m3			03/24/13 12:56	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			03/24/13 12:56	1
Tetrachloroethene	ND		2.7		ug/m3			03/24/13 12:56	1
Toluene	ND		1.5		ug/m3			03/24/13 12:56	1
1,2,4-Trichlorobenzene	ND		19		ug/m3			03/24/13 12:56	1

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 340-4386/8

Client Sample ID: Method Blank

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 4386

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.6		ug/m3			03/24/13 12:56	1
1,1,2-Trichloroethane	ND		2.2		ug/m3			03/24/13 12:56	1
Trichloroethene	ND		2.1		ug/m3			03/24/13 12:56	1
Trichlorofluoromethane	ND		2.2		ug/m3			03/24/13 12:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m3			03/24/13 12:56	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			03/24/13 12:56	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			03/24/13 12:56	1
Vinyl acetate	ND		2.8		ug/m3			03/24/13 12:56	1
Vinyl chloride	ND		1.0		ug/m3			03/24/13 12:56	1
Methyl-t-Butyl Ether (MTBE)	ND		2.9		ug/m3			03/24/13 12:56	1
Xylenes, Total	ND		1.7		ug/m3			03/24/13 12:56	1
Tert-amyl-methyl ether (TAME)	ND		4.2		ug/m3			03/24/13 12:56	1
Ethyl-t-butyl ether (ETBE)	ND		4.2		ug/m3			03/24/13 12:56	1
Isopropyl Ether (DIPE)	ND		4.2		ug/m3			03/24/13 12:56	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	104		70 - 130		03/24/13 12:56	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		03/24/13 12:56	1
Toluene-d8 (Surr)	102		70 - 130		03/24/13 12:56	1

Lab Sample ID: LCS 340-4386/4

Client Sample ID: Lab Control Sample

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 4386

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
tert-Butyl alcohol (TBA)	0.0500	0.0497		ppm v/v		99	70 - 130
Tert-amyl-methyl ether (TAME)	0.0100	0.0108		ppm v/v		108	70 - 130
Ethyl-t-butyl ether (ETBE)	0.0100	0.00948		ppm v/v		95	70 - 130
Isopropyl Ether (DIPE)	0.0100	0.00986		ppm v/v		99	70 - 130

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
tert-Butyl alcohol (TBA)	150	151		ug/m3		99	70 - 130
Tert-amyl-methyl ether (TAME)	42	45.1		ug/m3		108	70 - 130
Ethyl-t-butyl ether (ETBE)	42	39.6		ug/m3		95	70 - 130
Isopropyl Ether (DIPE)	42	41.2		ug/m3		99	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	103		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCS 340-4386/6

Client Sample ID: Lab Control Sample

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 4386

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Acetone	0.0100	0.0110		ppm v/v		110	70 - 130
Benzene	0.0106	0.0115		ppm v/v		108	70 - 130

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 340-4386/6

Matrix: Air

Analysis Batch: 4386

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec. Limits
	Added	Result	Qualifier				
Benzyl chloride	0.0110	0.0133		ppm v/v		121	70 - 130
Bromodichloromethane	0.0109	0.0133		ppm v/v		122	70 - 130
Bromoform	0.0108	0.0123		ppm v/v		114	70 - 130
Bromomethane	0.0100	0.0133	*	ppm v/v		133	70 - 130
2-Butanone (MEK)	0.0108	0.00990		ppm v/v		92	70 - 130
Carbon disulfide	0.0100	0.0104		ppm v/v		104	70 - 130
Carbon tetrachloride	0.0108	0.0102		ppm v/v		94	70 - 130
Chlorobenzene	0.0110	0.0112		ppm v/v		102	70 - 130
Dibromochloromethane	0.0110	0.0123		ppm v/v		112	70 - 130
Chloroethane	0.0100	0.0135	*	ppm v/v		135	70 - 130
Chloroform	0.0100	0.00972		ppm v/v		97	70 - 130
Chloromethane	0.0100	0.0123		ppm v/v		123	70 - 130
1,2-Dibromoethane (EDB)	0.0108	0.0113		ppm v/v		105	70 - 130
1,2-Dichlorobenzene	0.0109	0.0110		ppm v/v		101	70 - 130
1,3-Dichlorobenzene	0.0110	0.0111		ppm v/v		101	70 - 130
1,4-Dichlorobenzene	0.0109	0.0110		ppm v/v		101	70 - 130
Dichlorodifluoromethane	0.0100	0.0104		ppm v/v		104	70 - 130
1,1-Dichloroethane	0.0100	0.00989		ppm v/v		99	70 - 130
1,2-Dichloroethane	0.0108	0.0134		ppm v/v		124	70 - 130
1,1-Dichloroethene	0.0100	0.00987		ppm v/v		99	70 - 130
cis-1,2-Dichloroethene	0.0106	0.00965		ppm v/v		91	70 - 130
trans-1,2-Dichloroethene	0.0100	0.00938		ppm v/v		94	70 - 130
1,2-Dichloropropane	0.0108	0.0123		ppm v/v		114	70 - 130
cis-1,3-Dichloropropene	0.0100	0.0125		ppm v/v		125	70 - 130
trans-1,3-Dichloropropene	0.0110	0.0123		ppm v/v		112	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.0100	0.0133	*	ppm v/v		133	70 - 130
Ethylbenzene	0.0109	0.0117		ppm v/v		107	70 - 130
4-Ethyltoluene	0.0108	0.0115		ppm v/v		107	70 - 130
Hexachlorobutadiene	0.0110	0.0106		ppm v/v		96	70 - 130
2-Hexanone	0.0110	0.0116		ppm v/v		106	70 - 130
Methylene chloride	0.0110	0.0109		ppm v/v		99	70 - 130
4-Methyl-2-pentanone (MIBK)	0.0108	0.0123		ppm v/v		114	70 - 130
Styrene	0.0110	0.0120		ppm v/v		109	70 - 130
1,1,2,2-Tetrachloroethane	0.0110	0.0124		ppm v/v		113	70 - 130
Tetrachloroethene	0.0100	0.00951		ppm v/v		95	70 - 130
Toluene	0.0109	0.0118		ppm v/v		109	70 - 130
1,2,4-Trichlorobenzene	0.0110	0.0107		ppm v/v		97	70 - 130
1,1,1-Trichloroethane	0.0100	0.00957		ppm v/v		96	70 - 130
1,1,2-Trichloroethane	0.0109	0.0117		ppm v/v		108	70 - 130
Trichloroethene	0.0109	0.0111		ppm v/v		102	70 - 130
Trichlorofluoromethane	0.0100	0.00976		ppm v/v		98	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0100	0.00808		ppm v/v		81	70 - 130
1,2,4-Trimethylbenzene	0.0108	0.0113		ppm v/v		105	70 - 130
1,3,5-Trimethylbenzene	0.0110	0.0115		ppm v/v		105	70 - 130
Vinyl acetate	0.0110	0.0116		ppm v/v		105	70 - 130
Vinyl chloride	0.0100	0.0127		ppm v/v		127	70 - 130
m,p-Xylene	0.0216	0.0247		ppm v/v		114	70 - 130

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 340-4386/6

Matrix: Air

Analysis Batch: 4386

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
o-Xylene	0.0110	0.0122		ppm v/v		111	70 - 130
Methyl-t-Butyl Ether (MTBE)	0.0107	0.0103		ppm v/v		96	70 - 130
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	24	26.1		ug/m3		110	70 - 130
Benzene	34	36.6		ug/m3		108	70 - 130
Benzyl chloride	57	69.0		ug/m3		121	70 - 130
Bromodichloromethane	73	88.9		ug/m3		122	70 - 130
Bromoform	110	128		ug/m3		114	70 - 130
Bromomethane	39	51.5	*	ug/m3		133	70 - 130
2-Butanone (MEK)	32	29.2		ug/m3		92	70 - 130
Carbon disulfide	31	32.4		ug/m3		104	70 - 130
Carbon tetrachloride	68	64.1		ug/m3		94	70 - 130
Chlorobenzene	51	51.6		ug/m3		102	70 - 130
Dibromochloromethane	94	105		ug/m3		112	70 - 130
Chloroethane	26	35.6	*	ug/m3		135	70 - 130
Chloroform	49	47.5		ug/m3		97	70 - 130
Chloromethane	21	25.4		ug/m3		123	70 - 130
1,2-Dibromoethane (EDB)	83	87.0		ug/m3		105	70 - 130
1,2-Dichlorobenzene	66	66.3		ug/m3		101	70 - 130
1,3-Dichlorobenzene	66	66.9		ug/m3		101	70 - 130
1,4-Dichlorobenzene	66	66.4		ug/m3		101	70 - 130
Dichlorodifluoromethane	49	51.3		ug/m3		104	70 - 130
1,1-Dichloroethane	40	40.0		ug/m3		99	70 - 130
1,2-Dichloroethane	44	54.1		ug/m3		124	70 - 130
1,1-Dichloroethene	40	39.1		ug/m3		99	70 - 130
cis-1,2-Dichloroethene	42	38.3		ug/m3		91	70 - 130
trans-1,2-Dichloroethene	40	37.2		ug/m3		94	70 - 130
1,2-Dichloropropane	50	56.7		ug/m3		114	70 - 130
cis-1,3-Dichloropropene	45	56.7		ug/m3		125	70 - 130
trans-1,3-Dichloropropene	50	55.7		ug/m3		112	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	70	92.7	*	ug/m3		133	70 - 130
Ethylbenzene	47	50.7		ug/m3		107	70 - 130
4-Ethyltoluene	53	56.7		ug/m3		107	70 - 130
Hexachlorobutadiene	120	113		ug/m3		96	70 - 130
2-Hexanone	45	47.6		ug/m3		106	70 - 130
Methylene chloride	38	38.0		ug/m3		99	70 - 130
4-Methyl-2-pentanone (MIBK)	44	50.5		ug/m3		114	70 - 130
Styrene	47	50.9		ug/m3		109	70 - 130
1,1,2,2-Tetrachloroethane	76	85.3		ug/m3		113	70 - 130
Tetrachloroethene	68	64.5		ug/m3		95	70 - 130
Toluene	41	44.6		ug/m3		109	70 - 130
1,2,4-Trichlorobenzene	82	79.3		ug/m3		97	70 - 130
1,1,1-Trichloroethane	55	52.2		ug/m3		96	70 - 130
1,1,2-Trichloroethane	59	64.0		ug/m3		108	70 - 130
Trichloroethene	59	59.7		ug/m3		102	70 - 130
Trichlorofluoromethane	56	54.9		ug/m3		98	70 - 130

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 340-4386/6

Matrix: Air

Analysis Batch: 4386

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	77	61.9		ug/m3		81	70 - 130
1,2,4-Trimethylbenzene	53	55.6		ug/m3		105	70 - 130
1,3,5-Trimethylbenzene	54	56.7		ug/m3		105	70 - 130
Vinyl acetate	39	40.8		ug/m3		105	70 - 130
Vinyl chloride	26	32.6		ug/m3		127	70 - 130
m,p-Xylene	94	107		ug/m3		114	70 - 130
o-Xylene	48	53.0		ug/m3		111	70 - 130
Methyl-t-Butyl Ether (MTBE)	39	37.0		ug/m3		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Lab Sample ID: LCSD 340-4386/5

Matrix: Air

Analysis Batch: 4386

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
tert-Butyl alcohol (TBA)	0.0500	0.0506		ppm v/v		101	70 - 130	2	25
Tert-amyl-methyl ether (TAME)	0.0100	0.0111		ppm v/v		111	70 - 130	3	25
Ethyl-t-butyl ether (ETBE)	0.0100	0.00962		ppm v/v		96	70 - 130	1	25
Isopropyl Ether (DIPE)	0.0100	0.0100		ppm v/v		100	70 - 130	2	25

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
tert-Butyl alcohol (TBA)	150	154		ug/m3		101	70 - 130	2	25
Tert-amyl-methyl ether (TAME)	42	46.3		ug/m3		111	70 - 130	3	25
Ethyl-t-butyl ether (ETBE)	42	40.2		ug/m3		96	70 - 130	1	25
Isopropyl Ether (DIPE)	42	41.8		ug/m3		100	70 - 130	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Lab Sample ID: LCSD 340-4386/7

Matrix: Air

Analysis Batch: 4386

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	0.0100	0.0111		ppm v/v		111	70 - 130	1	25
Benzene	0.0106	0.0115		ppm v/v		109	70 - 130	0	25
Benzyl chloride	0.0110	0.0135		ppm v/v		122	70 - 130	1	25
Bromodichloromethane	0.0109	0.0134		ppm v/v		123	70 - 130	1	25
Bromoform	0.0108	0.0125		ppm v/v		116	70 - 130	1	25
Bromomethane	0.0100	0.0129		ppm v/v		129	70 - 130	3	25
2-Butanone (MEK)	0.0108	0.00980		ppm v/v		91	70 - 130	1	25

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 340-4386/7

Matrix: Air

Analysis Batch: 4386

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		
Carbon disulfide	0.0100	0.0105		ppm v/v		105	70 - 130	1	25
Carbon tetrachloride	0.0108	0.0103		ppm v/v		96	70 - 130	1	25
Chlorobenzene	0.0110	0.0112		ppm v/v		102	70 - 130	1	25
Dibromochloromethane	0.0110	0.0123		ppm v/v		112	70 - 130	0	25
Chloroethane	0.0100	0.0132	*	ppm v/v		132	70 - 130	2	25
Chloroform	0.0100	0.00989		ppm v/v		99	70 - 130	2	25
Chloromethane	0.0100	0.0125		ppm v/v		125	70 - 130	2	25
1,2-Dibromoethane (EDB)	0.0108	0.0113		ppm v/v		105	70 - 130	0	25
1,2-Dichlorobenzene	0.0109	0.0112		ppm v/v		102	70 - 130	1	25
1,3-Dichlorobenzene	0.0110	0.0113		ppm v/v		103	70 - 130	1	25
1,4-Dichlorobenzene	0.0109	0.0112		ppm v/v		103	70 - 130	2	25
Dichlorodifluoromethane	0.0100	0.0111		ppm v/v		111	70 - 130	6	25
1,1-Dichloroethane	0.0100	0.0100		ppm v/v		100	70 - 130	1	25
1,2-Dichloroethane	0.0108	0.0133		ppm v/v		123	70 - 130	1	25
1,1-Dichloroethene	0.0100	0.0100		ppm v/v		100	70 - 130	1	25
cis-1,2-Dichloroethene	0.0106	0.00980		ppm v/v		92	70 - 130	1	25
trans-1,2-Dichloroethene	0.0100	0.00961		ppm v/v		96	70 - 130	2	25
1,2-Dichloropropane	0.0108	0.0121		ppm v/v		112	70 - 130	2	25
cis-1,3-Dichloropropene	0.0100	0.0124		ppm v/v		124	70 - 130	1	25
trans-1,3-Dichloropropene	0.0110	0.0122		ppm v/v		111	70 - 130	0	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.0100	0.0133	*	ppm v/v		133	70 - 130	0	25
Ethylbenzene	0.0109	0.0116		ppm v/v		107	70 - 130	0	25
4-Ethyltoluene	0.0108	0.0114		ppm v/v		106	70 - 130	1	25
Hexachlorobutadiene	0.0110	0.0113		ppm v/v		102	70 - 130	6	25
2-Hexanone	0.0110	0.0117		ppm v/v		106	70 - 130	1	25
Methylene chloride	0.0110	0.0109		ppm v/v		99	70 - 130	0	25
4-Methyl-2-pentanone (MIBK)	0.0108	0.0122		ppm v/v		113	70 - 130	1	25
Styrene	0.0110	0.0121		ppm v/v		110	70 - 130	1	25
1,1,2,2-Tetrachloroethane	0.0110	0.0123		ppm v/v		112	70 - 130	1	25
Tetrachloroethene	0.0100	0.00954		ppm v/v		95	70 - 130	0	25
Toluene	0.0109	0.0118		ppm v/v		108	70 - 130	1	25
1,2,4-Trichlorobenzene	0.0110	0.0116		ppm v/v		106	70 - 130	8	25
1,1,1-Trichloroethane	0.0100	0.00972		ppm v/v		97	70 - 130	1	25
1,1,2-Trichloroethane	0.0109	0.0117		ppm v/v		107	70 - 130	0	25
Trichloroethene	0.0109	0.0112		ppm v/v		103	70 - 130	1	25
Trichlorofluoromethane	0.0100	0.0102		ppm v/v		102	70 - 130	5	25
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0100	0.00850		ppm v/v		85	70 - 130	5	25
1,2,4-Trimethylbenzene	0.0108	0.0115		ppm v/v		106	70 - 130	1	25
1,3,5-Trimethylbenzene	0.0110	0.0117		ppm v/v		106	70 - 130	1	25
Vinyl acetate	0.0110	0.0117		ppm v/v		107	70 - 130	1	25
Vinyl chloride	0.0100	0.0130		ppm v/v		130	70 - 130	2	25
m,p-Xylene	0.0216	0.0247		ppm v/v		114	70 - 130	0	25
o-Xylene	0.0110	0.0121		ppm v/v		110	70 - 130	0	25
Methyl-t-Butyl Ether (MTBE)	0.0107	0.0104		ppm v/v		97	70 - 130	1	25
Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
Analyte	Added	Result	Qualifier				Limits		
Acetone	24	26.3		ug/m3		111	70 - 130	1	25

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 340-4386/7

Matrix: Air

Analysis Batch: 4386

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
Benzene	34	36.8		ug/m3		109	70 - 130	0	25
Benzyl chloride	57	69.7		ug/m3		122	70 - 130	1	25
Bromodichloromethane	73	90.1		ug/m3		123	70 - 130	1	25
Bromoform	110	130		ug/m3		116	70 - 130	1	25
Bromomethane	39	50.2		ug/m3		129	70 - 130	3	25
2-Butanone (MEK)	32	28.9		ug/m3		91	70 - 130	1	25
Carbon disulfide	31	32.8		ug/m3		105	70 - 130	1	25
Carbon tetrachloride	68	64.9		ug/m3		96	70 - 130	1	25
Chlorobenzene	51	51.3		ug/m3		102	70 - 130	1	25
Dibromochloromethane	94	105		ug/m3		112	70 - 130	0	25
Chloroethane	26	34.8	*	ug/m3		132	70 - 130	2	25
Chloroform	49	48.3		ug/m3		99	70 - 130	2	25
Chloromethane	21	25.8		ug/m3		125	70 - 130	2	25
1,2-Dibromoethane (EDB)	83	87.2		ug/m3		105	70 - 130	0	25
1,2-Dichlorobenzene	66	67.1		ug/m3		102	70 - 130	1	25
1,3-Dichlorobenzene	66	67.9		ug/m3		103	70 - 130	1	25
1,4-Dichlorobenzene	66	67.4		ug/m3		103	70 - 130	2	25
Dichlorodifluoromethane	49	54.7		ug/m3		111	70 - 130	6	25
1,1-Dichloroethane	40	40.6		ug/m3		100	70 - 130	1	25
1,2-Dichloroethane	44	53.8		ug/m3		123	70 - 130	1	25
1,1-Dichloroethene	40	39.7		ug/m3		100	70 - 130	1	25
cis-1,2-Dichloroethene	42	38.8		ug/m3		92	70 - 130	1	25
trans-1,2-Dichloroethene	40	38.1		ug/m3		96	70 - 130	2	25
1,2-Dichloropropane	50	55.8		ug/m3		112	70 - 130	2	25
cis-1,3-Dichloropropene	45	56.2		ug/m3		124	70 - 130	1	25
trans-1,3-Dichloropropene	50	55.6		ug/m3		111	70 - 130	0	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	70	92.8	*	ug/m3		133	70 - 130	0	25
Ethylbenzene	47	50.5		ug/m3		107	70 - 130	0	25
4-Ethyltoluene	53	56.2		ug/m3		106	70 - 130	1	25
Hexachlorobutadiene	120	120		ug/m3		102	70 - 130	6	25
2-Hexanone	45	47.8		ug/m3		106	70 - 130	1	25
Methylene chloride	38	38.0		ug/m3		99	70 - 130	0	25
4-Methyl-2-pentanone (MIBK)	44	50.1		ug/m3		113	70 - 130	1	25
Styrene	47	51.4		ug/m3		110	70 - 130	1	25
1,1,2,2-Tetrachloroethane	76	84.8		ug/m3		112	70 - 130	1	25
Tetrachloroethene	68	64.7		ug/m3		95	70 - 130	0	25
Toluene	41	44.3		ug/m3		108	70 - 130	1	25
1,2,4-Trichlorobenzene	82	86.2		ug/m3		106	70 - 130	8	25
1,1,1-Trichloroethane	55	53.0		ug/m3		97	70 - 130	1	25
1,1,2-Trichloroethane	59	63.9		ug/m3		107	70 - 130	0	25
Trichloroethene	59	60.3		ug/m3		103	70 - 130	1	25
Trichlorofluoromethane	56	57.5		ug/m3		102	70 - 130	5	25
1,1,2-Trichloro-1,2,2-trifluoroethane	77	65.1		ug/m3		85	70 - 130	5	25
1,2,4-Trimethylbenzene	53	56.4		ug/m3		106	70 - 130	1	25
1,3,5-Trimethylbenzene	54	57.3		ug/m3		106	70 - 130	1	25
Vinyl acetate	39	41.3		ug/m3		107	70 - 130	1	25
Vinyl chloride	26	33.2		ug/m3		130	70 - 130	2	25

TestAmerica Irvine

QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.
 Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 340-4386/7
 Matrix: Air
 Analysis Batch: 4386

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
m,p-Xylene	94	107		ug/m3		114	70 - 130	0		25
o-Xylene	48	52.7		ug/m3		110	70 - 130	0		25
Methyl-t-Butyl Ether (MTBE)	39	37.3		ug/m3		97	70 - 130	1		25

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
Toluene-d8 (Surr)	104		70 - 130

Method: TO3 - Volatile Organic Compounds in Ambient Air, Cryogenic Pre-Conc Techniques (GC)

Lab Sample ID: MB 340-4340/5
 Matrix: Air
 Analysis Batch: 4340

Client Sample ID: Method Blank
 Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: LCS 340-4340/3
 Matrix: Air
 Analysis Batch: 4340

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	RPD
TPH (as Gasoline)	31.8	29.7		ppm v/v		93	80 - 131	

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	RPD
TPH (as Gasoline)	130000	121000		ug/m3		93	80 - 131	

Lab Sample ID: LCSD 340-4340/4
 Matrix: Air
 Analysis Batch: 4340

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
TPH (as Gasoline)	31.8	29.7		ppm v/v		93	80 - 131	0		20

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
TPH (as Gasoline)	130000	121000		ug/m3		93	80 - 131	0		20

TestAmerica Irvine

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Air - GC/MS VOA

Analysis Batch: 4386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-41118-1	Air-1A	Total/NA	Air	TO-15	
440-41118-2	Air-2A	Total/NA	Air	TO-15	
440-41118-3	Air-3A	Total/NA	Air	TO-15	
LCS 340-4386/4	Lab Control Sample	Total/NA	Air	TO-15	
LCS 340-4386/6	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 340-4386/5	Lab Control Sample Dup	Total/NA	Air	TO-15	
LCSD 340-4386/7	Lab Control Sample Dup	Total/NA	Air	TO-15	
MB 340-4386/8	Method Blank	Total/NA	Air	TO-15	

Air - GC VOA

Analysis Batch: 4340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-41118-1	Air-1A	Total/NA	Air	TO3	
440-41118-2	Air-2A	Total/NA	Air	TO3	
440-41118-3	Air-3A	Total/NA	Air	TO3	
LCS 340-4340/3	Lab Control Sample	Total/NA	Air	TO3	
LCSD 340-4340/4	Lab Control Sample Dup	Total/NA	Air	TO3	
MB 340-4340/5	Method Blank	Total/NA	Air	TO3	

Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits

Air - GC VOA

Qualifier	Qualifier Description
LW	Quantitated against gasoline

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 540 Hegenberger Rd., Oakland

TestAmerica Job ID: 440-41118-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-13
Arizona	State Program	9	AZ0671	10-13-13
California	LA Cty Sanitation Districts	9	10256	01-31-14
California	NELAP	9	1108CA	01-31-14
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	03-28-13 *
Hawaii	State Program	9	N/A	01-31-14
Nevada	State Program	9	CA015312007A	07-31-13
New Mexico	State Program	6	N/A	01-31-14
Northern Mariana Islands	State Program	9	MP0002	01-31-14
Oregon	NELAP	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14
USEPA UCMR	Federal	1	CA01531	01-31-15

Laboratory: TestAmerica Costa Mesa

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0727	02-09-14
Florida	NELAP	4	E87652	06-30-13
L-A-B	DoD ELAP		L2273	11-09-13
Louisiana	NELAP	6	01948	06-30-13
Oregon	NELAP	10	CA200013	07-19-13
Utah	NELAP	8	CA000032012-1	06-30-13
Washington	State Program	10	C579	11-29-13

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Irvine

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information		Project Manager: <u>Peter Schaefer</u>		L of L COCs	
Company: <u>Conestoga-Rovers & Assoc.</u>		Phone: <u>(510) 420-3319</u>		Samples Collected By: <u>Jessica Radon</u>	
Address: <u>5900 Hollis St, Ste A</u>		Email: <u>pschaefer@croworld.com</u>			
City/State/Zip: <u>Emeryville, CA 94608</u>		Site Contact: <u>Jessica Radon</u>			
Phone: <u>(510) 420-0700</u>		LAB Contact: <u>Philip Sanelle</u>			
FAX: <u>(510) 420-9170</u>		Analysis Turnaround Time			
Project Name: <u>Shellbranded Service Station</u>		Standard (Specify) <u>5 day</u>			
Site: <u>540 Hegenberger Rd, Oakland</u>		Rush (Specify) _____			
PO# <u>240414</u>					

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SV-1	3-11-13	12:04	3-12-13 11:04	28	0		34001239	X	X							X				
SV-2	3-11-13	12:07	3-12-13 11:05	30	0		34001445	X	X							X				
SV-3	3-11-13	12:10	3-12-13 11:06	30	1		34001177	X	X							X				

Temperature (Fahrenheit)	
Interior	Ambient
Start	
Stop	
Pressure (inches of Hg)	
Interior	Ambient
Start	
Stop	

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date/Time:	Samples Received by:
<u>Jessica Radon</u>		<u>Shawn Taylor</u> 3-13-13 11:10
Samples Relinquished by:	Date/Time:	Received by:
<u>Jessica Radon</u>	3-12-13 15:00	<u>Shawn Taylor</u> 3/14/13 10:30
Relinquished by:	Date/Time:	Received by:
<u>Shawn Taylor</u>	3-15-13 16:00	<u>Shawn Taylor</u> 3/14/13 10:30

Lab Use Only: Shipper Name: Shawn Taylor 3-15-13 10:00 Opened by: Rec. Shawn Taylor 3/15/13 10:00

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-41118-1

Login Number: 41118

List Source: TestAmerica Irvine

List Number: 1

Creator: Morales, Sergio

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 440-41118-1

Login Number: 41118

List Number: 1

Creator: Morales, Sergio

List Source: TestAmerica Costa Mesa

List Creation: 03/18/13 01:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

CANISTER QC CERTIFICATION

TestAmerica
THE CENTER FOR ENVIRONMENTAL TESTING

Certification Type: T0-15

Date Cleaned/Batch A022013B 340-6329

Date of QC 02-22-13

Data File Number WP02215(MSL)

CANISTER ID NUMBERS

*34001151
1654
1660
1162
1332
↓ 0256

34001445
1239
0177
0391
1616
↓ 1617

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "Certification Type" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

[Signature]
Reviewed By:

02-22-13
Date:

N:\CO\DOCS\TestAmerica\DOCS\Can QC Cert 20070712.doc

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-6329-1
 SDG No.: _____
 Client Sample ID: 34001151 Lab Sample ID: 340-6329-1
 Matrix: Air Lab File ID: MB02215.D
 Analysis Method: TO-15 Date Collected: 02/20/2013 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 02/22/2013 07:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: See SOP ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 4135 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		1.2	0.60
107-02-8	Acrolein	ND		2.5	0.70
107-13-1	Acrylonitrile	ND		2.0	0.40
107-05-1	Allyl chloride	ND		0.80	0.40
71-43-2	Benzene	ND		0.40	0.20
100-44-7	Benzyl chloride	ND		0.80	0.20
75-27-4	Bromodichloromethane	ND		0.30	0.15
75-25-2	Bromoform	ND		0.80	0.20
74-83-9	Bromomethane	ND		0.80	0.20
106-99-0	1,3-Butadiene	ND		0.80	0.20
106-97-8	n-Butane	ND		0.50	0.20
78-93-3	2-Butanone (MEK)	ND		0.80	0.40
75-65-0	tert-Butyl alcohol (TBA)	ND		5.0	1.5
104-51-8	n-Butylbenzene	ND		0.80	0.20
135-98-8	sec-Butylbenzene	ND		0.50	0.20
98-06-6	tert-Butylbenzene	ND		0.80	0.20
75-15-0	Carbon disulfide	ND		0.80	0.20
56-23-5	Carbon tetrachloride	ND		0.80	0.20
75-00-3	Chloroethane	ND		1.5	0.70
108-90-7	Chlorobenzene	ND		0.30	0.10
75-45-6	Chlorodifluoromethane	ND		0.80	0.20
67-66-3	Chloroform	ND		0.30	0.10
74-87-3	Chloromethane	ND		0.80	0.40
95-49-8	2-Chlorotoluene	ND		0.80	0.20
110-82-7	Cyclohexane	ND		0.50	0.20
124-48-1	Dibromochloromethane	ND		0.40	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.20
74-95-3	Dibromomethane	ND		0.40	0.20
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40	0.15
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.15
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.15
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.15
107-06-2	1,2-Dichloroethane	ND		0.80	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-6329-1
 SDG No.: _____
 Client Sample ID: 34001151 Lab Sample ID: 340-6329-1
 Matrix: Air Lab File ID: MB02215.D
 Analysis Method: TO-15 Date Collected: 02/20/2013 00:00
 Sample wt/vol: 250(mL) Date Analyzed: 02/22/2013 07:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: See SOP ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 4135 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.20
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.20
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.20
78-87-5	1,2-Dichloropropane	ND		0.40	0.15
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.15
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.15
123-91-1	1,4-Dioxane	ND		0.80	0.40
141-78-6	Ethyl acetate	ND		0.30	0.15
100-41-4	Ethylbenzene	ND		0.40	0.15
622-96-8	4-Ethyltoluene	ND		0.40	0.15
142-82-5	n-Heptane	ND		0.80	0.20
87-68-3	Hexachlorobutadiene	ND		0.80	0.20
110-54-3	n-Hexane	ND		0.80	0.20
591-78-6	2-Hexanone	ND		0.80	0.20
98-82-8	Isopropylbenzene	ND		0.80	0.20
99-87-6	4-Isopropyltoluene	ND		0.80	0.20
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.20
80-62-6	Methyl methacrylate	ND		0.80	0.40
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.15
75-09-2	Methylene chloride	ND		0.40	0.20
98-83-9	alpha-Methylstyrene	ND		0.40	0.15
91-20-3	Naphthalene	ND		2.0	0.70
111-65-9	n-Octane	ND		0.40	0.15
109-66-0	n-Pentane	ND		1.0	0.40
115-07-1	Propylene	ND	*	0.80	0.40
103-65-1	n-Propylbenzene	ND		0.80	0.20
100-42-5	Styrene	ND		0.40	0.15
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.10
127-18-4	Tetrachloroethene	ND		0.40	0.15
109-99-9	Tetrahydrofuran	ND		2.0	0.40
108-88-3	Toluene	ND		0.40	0.15
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40	0.20
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	0.70
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.15
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-6329-1
 SDG No.: _____
 Client Sample ID: 34001151 Lab Sample ID: 340-6329-1
 Matrix: Air Lab File ID: MB02215.D
 Analysis Method: TO-15 Date Collected: 02/20/2013 00:00
 Sample wt/vol: 250(mL) Date Analyzed: 02/22/2013 07:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: See SOP ID: _____
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 4135 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.40	0.15
75-69-4	Trichlorofluoromethane	ND		0.40	0.15
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.20
95-63-6	1,2,4-Trimethylbenzene	ND		0.80	0.20
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.15
540-84-1	2,2,4-Trimethylpentane	ND		0.50	0.20
108-05-4	Vinyl acetate	ND		0.80	0.20
593-60-2	Vinyl bromide	ND		0.80	0.40
75-01-4	Vinyl chloride	ND		0.40	0.15
179601-23-1	m,p-Xylene	ND		0.80	0.20
95-47-6	o-Xylene	ND		0.40	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		70-130
2037-26-5	Toluene-d8 (Surr)	94		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File: \\Lachrom\chromdata\MSC\20130221-2814.b\MB02215.D

Lims ID: 340-6329-A-1 Client ID: 34001151
 Inject. Date: 22-Feb-2013 07:02:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 340-6329-A-1
 Misc. Info.: 340-0002814-031
 Operator: DLK Instrument ID: MSC
 Purge Vol: 250.000 mL ALS Bottle#: 3
 Lims Batch ID: 4135 Lims Sample ID: 31
 Detector: MS SCAN

Method: \\Lachrom\chromdata\MSC\20130221-2814.b\TO-15_MSC.m
 Method Label: TO-15/TO-14A
 Last Update: 22-Feb-2013 11:43:31 Calib Date: 16-Feb-2013 19:39:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Lachrom\chromdata\MSC\20130216-2778.b\IC02169.D
 Limit Group: TO-15-TO-15_MOD_ICAL
 Integrator: RTE ID Type: Deconvolution ID
 Column Type: RTX-Volatiles Column Dia: 0.32 mm
 Process Host: XAWRK033

First Level Reviewer: kammererd Date: 22-Feb-2013 11:43:31

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
36 Acetone	43	7.362	7.343	0.019	54	1121	0.0558	
* 64 Chlorobromomethane (IS)	49	11.188	11.188	0.0	87	54927	4.00	
\$ 69 1,2-Dichloroethane-d4 (Surr)	65	12.000	12.000	0.0	95	75348	3.83	
* 77 1,4-Difluorobenzene	114	12.620	12.620	0.0	94	168431	4.00	
\$ 88 Toluene-d8 (Surr)	98	14.809	14.809	0.0	98	151668	3.76	
* 98 Chlorobenzene-d5 (IS)	117	16.874	16.874	0.0	87	142400	4.00	
\$ 111 4-Bromofluorobenzene (Surr)	95	18.511	18.511	0.0	91	92138	3.70	

TestAmerica Costa Mesa

Data File: \\Lachrom\chromdata\MSC\20130221-2814.b\MB02215.D

Injection Date: 22-Feb-2013 07:02:30

Limit Group: TO-15-TO-15_MOD_ICAL

Client ID: 34001151

Instrument ID: MSC

Lims Batch ID: 4135

Lims Sample ID: 31

Operator ID: DLK

Purge Vol: 250.000 mL

Column Type: RTX-Volatiles

Column Dia: 0.32 mm

Y Scaling:

