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

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

Re: Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California
SAP Code 129449
Incident No. 97093397
ACHCSA Case No. RO#0145

Dear Mr. Wickham:

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

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

Sincerely,

Denis L. Brown
Project Manager

CONESTOGA-ROVERS
& ASSOCIATES

19449 Riverside Drive, Suite 230, Sonoma, California 95476
Telephone: 707-935-4850 Facsimile: 707-935-6649
www.CRAworld.com

June 11, 2008

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

Re: **Soil Vapor Monitoring Report – Second Quarter 2008**
Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California
SAP Code 129449
Incident No. 97093397
ACHCSA Case No: RO#0145

Dear Mr. Wickham:

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) in accordance with the quarterly reporting requirements of 23 CCR 2652d.

If you have any questions regarding the contents of this document, please call Ana Friel at (707) 268-3812.

Sincerely,

Conestoga-Rovers & Associates

Ana Friel, PG
Project Manager

cc: Denis Brown, Shell
Rodney & Janet Kwan, property owners
Scott Merillat, 664 27th Street, Oakland, 94612
Monique Oatis, 670 27th Street, Oakland, CA 94612
Jack Chang, 559 9th Avenue, San Francisco, California 94118-3716

CONESTOGA-ROVERS
& ASSOCIATES

SOIL VAPOR MONITORING REPORT – SECOND QUARTER 2008

Site Address	2703 Martin Luther King, Jr Way, Oakland
Site Use	Former Shell Service Station
Shell Project Manager	Denis Brown
Consultant and Contact Person	CRA, Ana Friel
Lead Agency and Contact	ACHCSA, Jerry Wickham
Agency Case No.	0145
Shell SAP Code	129449
Shell Incident No.	97093397
Date of Most Recent Agency Correspondence	May 8, 2008 – electronic

Current Quarter's Activities

1. CRA sampled onsite vapor probe VP-6, and offsite soil vapor probes VP-7 and VP-8 on April 17, 2008. Each probe contains two screen intervals at 2.5 to 2.75 feet below grade (fbg) and 4.5 to 4.75 fbg, identified on chain-of-custody and laboratory reports as being at 3 and 5 fbg, respectively.
2. CRA prepared a vicinity map (Figure 1) and a site plan (Figure 2), and tabulated the analytical data. The laboratory analytical report is included in Attachment A.
3. CRA submitted a Remedial Action Plan (May 28, 2008), as requested in the February 28, 2008 Alameda County Health Care Services Agency (ACHCSA) letter to Shell.

Current Quarter's Findings

1. BTEX concentrations in soil vapor in offsite soil vapor probes VP-7 and VP-8 are below the November 2007 San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for a residential scenario.
2. The detection limits for total petroleum hydrocarbons as gasoline (TPHg) in the soil vapor samples collected from offsite soil vapor probes VP-7 and VP-9 exceed the November 2007 updated ESL for a residential scenario. The residential ESL for TPHg was updated to 10,000 micrograms per cubic meter ($\mu g/m^3$) from 26,000 $\mu g/m^3$.

3. Gasoline consituent concentrations in the soil vapor sample collected from the shallow screen interval in onsite soil vapor probe VP-6 do not exceed ESLs for a commercial scenario, and gasoline constituent concentrations were lower than those detected during May 2007.

Proposed Activities for Next Quarter

1. CRA will sample offsite soil vapor probes VP-7 and VP-8 during the first month of the quarter, with a subsequent report to be submitted 30 days following the end of the quarter.
2. The analytical labatory is evaluating methodology for achieving reporting limits below the new ESL.

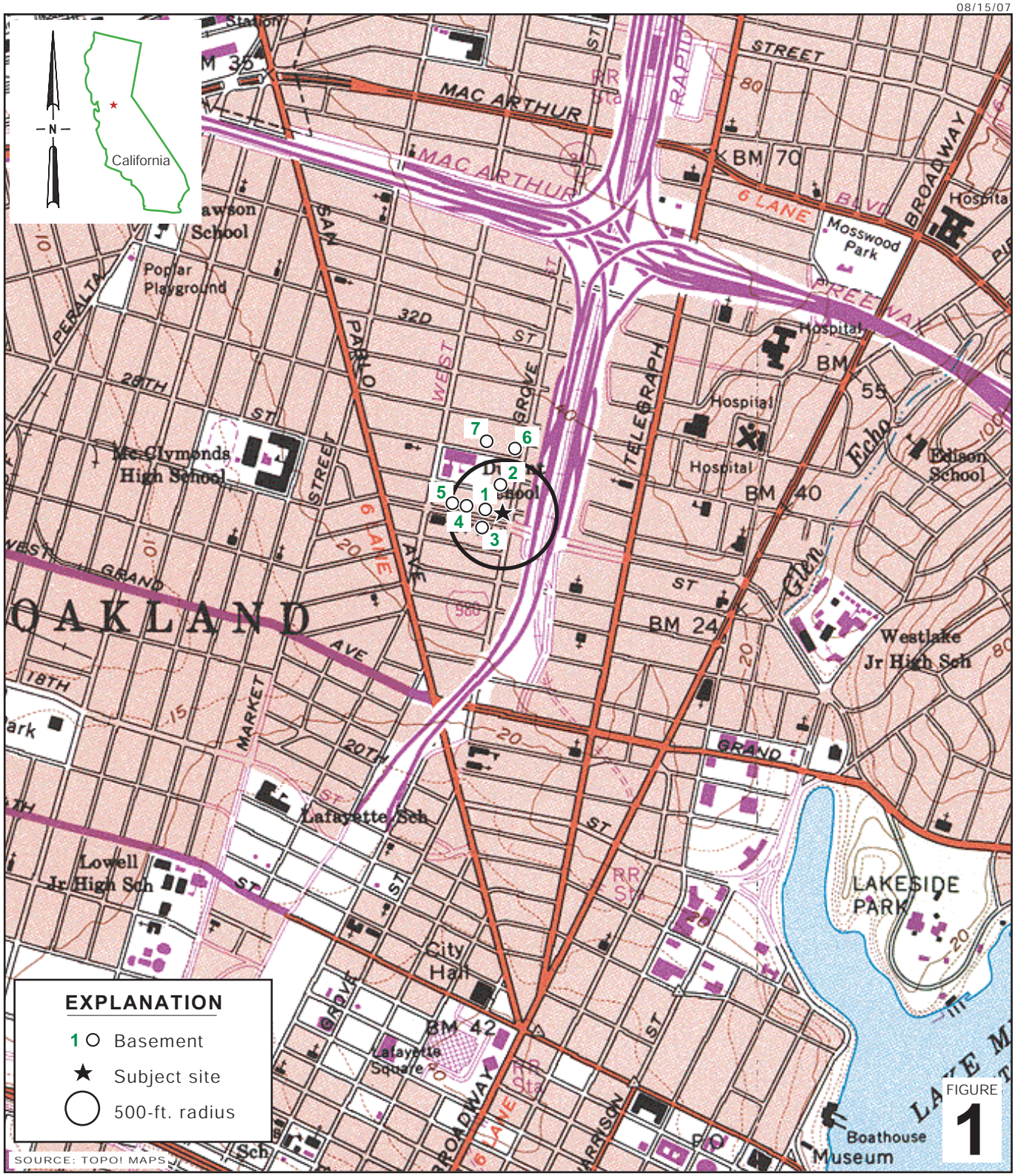
Figures: 1 - Vicinity Map
2 - Site Plan

Table: 1 - Soil Vapor Analytical Data

Attachments: A - Analytical Report

I:\Sonoma.Shell\Oakland 2703 Martin Luther King Jr Way\QVMRs-Vapor\2008\2Q08\Text CRA 2703 MLK Oakland 1Q08 vapor.doc

08/15/07



I:\SONOMA SHELL\OAKLAND 2703 MARTIN LUTHER KING\GRAPHICS\VICINITY.AI

FIGURE 1

0 1/8 1/4 1/2 1

SCALE (MILES)

Former Shell Service Station
2703 Martin Luther King Jr. Way
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

08/17/07

28TH STREET

Residential 679 28th St.
Residential 673 28th St.
Residential 669 28th St.
Residential 663 28th St.
Vacant Lot 2727-29 Martin Luther King
Residential 665 28th St.
Residential 2719-23 Martin Luther King
Former Shell Station 2703 Martin Luther King
carport
BUILDING
TRENCH
Former Vent Lines
Former USTs
Former Dispensers
Wooden Carport
A.G. W/O AST
DRIVEWAY
Residential 670 27th St.
Residential 688 27th St.
Residential 664 27th St.
MARTIN LUTHER KING JR. WAY
27TH STREET
median

CPT-10
CPT-9
CPT-8
MW-14
VP-7
CPT-7
CPT-6
VP-6
GP-7
GP-6
MW-7
MW-8
GP-5
VP-1
B-23
B-13
VP-5
VP-8
CPT-3
MW-5
GP-8
B-5
GP-9
B-17
TP1-N
GP-10
TP3-W
VP-4
VP-2
GP-4
B-1
TP4-E
B-9*
B-6*
B-19
B-7*
CPT-2
CPT-4
TP2-S
B-3
CPT-5
MW-6
GP-3
V-1
B-18
V-2
VP-3
MW-4
GP-2
B-2
CPT-1
B-10
GP-1
MW-12
MW-1
B-8*
MW-2
MW-3
B-4

EXPLANATION

VP-7	Vapor probe location (5-6/07)
CPT-6	CPT boring location (5-6/07)
CPT-8	Attempted CPT boring location (5-6/07)
CPT-1	CPT boring location (10/06)
VP-1	Vapor probe location (1/06)
V-1	Soil vapor well location (7/96)
MW-1	Monitoring well location (7/96-2/06)
B-23	Soil boring location (1/06)
GP-1	Soil boring location (8/05)
B-20	Soil boring location (4/02)
B-17	Soil boring location (11/00)
B-10	Soil boring location (7/96)
TP3-W	UST excavation samples (3/96)
B-1	Soil boring location (5/95)
*	Not surveyed
TP1-N	UST excavation samples (10/94)

N

0 20 40 80

Scale (ft)

Basemap from Virgil Chavez Land Surveying and Alameda County Assessors Parcel Map

I:\SONOMA.SHELL\OAKLAND 2703 MARTIN LUTHER KING JR WAY\GRAPHICS\EXT SITE PLAN.DWG

Site Plan

CONESTOGA-ROVERS & ASSOCIATES

Former Shell Service Station
2703 Martin Luther King Jr Way
Oakland, California

FIGURE
2

Table 1. Soil Vapor Analytical Data, Former Shell Service Station, 2703 Martin Luther King Jr. Way, Oakland, California

Sample ID	Sample Depth (fbg)	Date Sampled	TPHg ($\mu g/m^3$)	B ($\mu g/m^3$)	T ($\mu g/m^3$)	E ($\mu g/m^3$)	X ($\mu g/m^3$)	Isobutane ($\mu g/m^3$)	Butane ($\mu g/m^3$)	Propane ($\mu g/m^3$)
VP-1-3	3	30-May-07	**5,500,000**	**<510**	690	<690	<2,090	--	--	--
VP-1-5	5	30-May-07	Unable to sample; water in probe							
VP-2-3	3	30-May-07	Unable to sample; water in probe							
VP-2-5	5	30-May-07	Unable to sample; water in probe							
VP-3-3	3	30-May-07	Unable to sample; water in probe							
VP-3-5	5	30-May-07	**31,000,000**	**760**	<75	<86	<256	--	--	--
VP-4-3	3	30-May-07	**800,000**	<79	240	<110	<320	--	--	--
VP-4-5	5	30-May-07	**680,000**	<66	170	<90	<270	--	--	--
VP-5-3	3	30-May-07	Unable to sample; water in probe							
VP-5-5	5	30-May-07	Unable to sample; water in probe							
VP-6-3	3	30-May-07	**3,500,000**	110	320	<55	160	--	--	--
VP-6-3	**3**	**17-Apr-08**	<17,000	<2.3	<2.8	<3.2	<9.6	ND	ND	ND
VP-6-5	5	30-May-07	**1,900,000**	<100	410	<140	<420	--	--	--
VP-6-5	**5**	**17-Apr-08**	**14,000,000**	3.6	<2.6	<3.0	<9.0	**66.8**	ND	ND
Ambient (at site)		30-May-07	<19,000	16	16	<3.1	<9.2	--	--	--
VP-7-3	3	12-Jun-07	**<21,000**	23	7,000	110	241	--	--	--
VP-7-3	3	30-Oct-07	**<19,000**	<2.7	9.6	<3.6	<17.6	657.3	16.6	ND
VP-7-3	3	18-Jan-08	**23,000**	4.3	23	3.4	13.8	ND	ND	ND
VP-7-3	**3**	**17-Apr-08**	**<16,000**	<2.2	6.1	<3.0	<9.1	**648.95**	ND	ND
VP-7-3-DUP	**3**	**17-Apr-08**	**<16,000**	<2.2	7.1	<3.0	<9.0	**144.53**	ND	ND
VP-7-5	5	12-Jun-07	**<21,000**	23	2,100	110	230	--	--	--
VP-7-5	5	30-Oct-07	**<18,000**	<2.5	15	<3.4	<16.4	402.4	ND	ND
VP-7-5	5	18-Jan-08	**<20,000**	<2.8	7.9	<3.8	<11.3	105.5	ND	ND
VP-7-5-DUP	5	18-Jan-08	**<19,000**	<2.6	7.6	<3.6	<10.8	66.6	ND	ND
VP-7-5	**5**	**17-Apr-08**	**<15,000**	<2.2	7.8	<2.9	<8.8	220.83	25.2	ND
VP-8-3	3	12-Jun-07	**<23,000**	20	9,300	120	267	--	--	--

Table 1. Soil Vapor Analytical Data, Former Shell Service Station, 2703 Martin Luther King Jr. Way, Oakland, California

Sample ID	Sample Depth (fbg)	Date Sampled	TPHg ($\mu g/m^3$)	B ($\mu g/m^3$)	T ($\mu g/m^3$)	E ($\mu g/m^3$)	X ($\mu g/m^3$)	Isobutane ($\mu g/m^3$)	Butane ($\mu g/m^3$)	Propane ($\mu g/m^3$)
VP-8-3	3	30-Oct-07	**<24,000**	<3.4	34	<4.6	<22.6	395.1	7.8	ND
VP-8-3-DUP	3	30-Oct-07	**<18,000**	<2.6	6.5	<3.5	<17.5	366.6	ND	ND
VP-8-3	3	18-Jan-08	**<18,000**	<2.6	7.2	<3.5	<10.4	128.6	ND	ND
VP-8-3	**3**	**17-Apr-08**	**<16,000**	<2.3	7.1	<3.1	<9.3	666.54	57.29	ND
VP-8-5	5	12-Jun-07	**<22,000**	33	11,000	120	278	--	--	--
VP-8-5	5	30-Oct-07	**<19,000**	<2.6	8.5	<3.6	<17.6	468.3	5.9	ND
VP-8-5	5	18-Jan-08	**<19,000**	<2.6	5.7	<3.5	<10.5	ND	ND	ND
VP-8-5	**5**	**17-Apr-08**	**<17,000**	11	<1.9	<3.2	<9.6	59.43	9.98	ND
Environmental Screening Levels SFBRWQCB, November 2007		**Commercial**	**29,000**	**280**	**180,000**	**580,000**	**58,000**	**--**	**--**	**--**
		Residential	**10,000**	**84**	**63,000**	**210,000**	**21,000**	**--**	**--**	**--**

Abbreviations and Notes:

Results in **bold** exceed Environmental Screening Level

fbg = Feet below grade

$\mu g/m^3$ = micrograms per cubic meter

<x = Not detected at reporting limit x

ND = Not detected

TPHg = Total petroleum hydrocarbons as gasoline by Modified EPA Method TO-3 GC/FID

BTEX = Benzene, tolunene, ethylbenzene, and xylenes by Modified EPA Method TO-15

Isobutane, butane, and propane by TPA Method TO-15

Attachment A

Analytical Report

Calscience Environmental Laboratories, Inc.

April 23, 2008

Jacquelyn England
Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Subject: **Calscience Work Order No.: 08-04-1746**
Client Reference: 2703 Martin Luther King Jr. Way, Oakland, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 4/19/2008 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Calscience Environmental
Laboratories, Inc.
Jessie Kim
Project Manager

Calscience Environmental Laboratories, Inc.

ACCREDITED IN ACCORDANCE WITH nelac

EPA TO-15 Tentatively Identified Compound (TIC)

	Isobutane (CAS Number 75-28-5)		Butane (CAS Number 106-97-8)		Propane (CAS Number 74-98-6)	
Client Sample ID:	**Estimated Conc. (ug/m3)**	**RT (min)**	**Estimated Conc. (ug/m3)**	**RT (min)**	**Estimated Conc. (ug/m3)**	**RT (min)**
VP-6-3'	ND	NA	ND	NA	ND	NA
VP-6-5'	66.8	3.93	ND	NA	ND	NA
VP-7-3'	648.95	3.93	ND	NA	ND	NA
VP-7-3' DUP	144.53	3.94	ND	NA	ND	NA
VP-7-5'	220.83	3.94	25.2	4.19	ND	NA
VP-8-3'	666.54	3.93	57.29	4.19	ND	NA
VP-8-5'	59.43	3.94	9.98	4.19	ND	NA
TRIP BLANK	ND	NA	ND	NA	ND	NA

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received: 04/19/08
Work Order No: 08-04-1746
Preparation: N/A
Method: EPA TO-3M

Project: 2703 Martin Luther King Jr. Way, Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VP-6-3'	**08-04-1746-1-A**	**04/17/08 12:37**	**Air**	**GC 13**	**N/A**	**04/19/08 12:37**	**080419L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	17000	1.47		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VP-6-5'	**08-04-1746-2-A**	**04/17/08 13:10**	**Air**	**GC 13**	**N/A**	**04/19/08 14:23**	**080419L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	14000000	130000	11.1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VP-7-3'	**08-04-1746-3-A**	**04/17/08 11:06**	**Air**	**GC 13**	**N/A**	**04/19/08 13:17**	**080419L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	16000	1.4		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VP-7-3' DUP	**08-04-1746-4-A**	**04/17/08 11:14**	**Air**	**GC 13**	**N/A**	**04/19/08 13:29**	**080419L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	16000	1.39		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VP-7-5'	**08-04-1746-5-A**	**04/17/08 11:37**	**Air**	**GC 13**	**N/A**	**04/19/08 13:39**	**080419L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	15000	1.35		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VP-8-3'	**08-04-1746-6-A**	**04/17/08 09:52**	**Air**	**GC 13**	**N/A**	**04/19/08 13:50**	**080419L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	16000	1.42		ug/m3

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received: 04/19/08
19449 Riverside Drive, Suite 230	Work Order No: 08-04-1746
Sonoma, CA 95476-6955	Preparation: N/A
	Method: EPA TO-3M

Project: 2703 Martin Luther King Jr. Way, Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VP-8-5'	**08-04-1746-7-A**	**04/17/08 10:17**	**Air**	**GC 13**	**N/A**	**04/19/08 14:02**	**080419L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	17000	1.47		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TRIP BLANK	**08-04-1746-8-A**	**04/17/08 00:00**	**Air**	**GC 13**	**N/A**	**04/19/08 14:11**	**080419L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	11000	1		ug/m3

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**098-01-005-1,270**	**N/A**	**Air**	**GC 13**	**N/A**	**04/19/08 08:33**	**080419L01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	11000	1		ug/m3

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates		Date Received:	04/19/08
19449 Riverside Drive, Suite 230		Work Order No:	08-04-1746
Sonoma, CA 95476-6955		Preparation:	N/A
		Method:	EPA TO-15
		Units:	ug/m3

Project: 2703 Martin Luther King Jr. Way, Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VP-6-3'	**08-04-1746-1-A**	**04/17/08 12:37**	**Air**	**GC/MS AA**	**N/A**	**04/20/08 22:00**	**080420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	2.3	1.47		p/m-Xylene	ND	6.4	1.47	
Toluene	ND	2.8	1.47		o-Xylene	ND	3.2	1.47	
Ethylbenzene	ND	3.2	1.47		Methyl-t-Butyl Ether (MTBE)	ND	11	1.47	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	85	57-129			1,2-Dichloroethane-d4	98	47-137		
Toluene-d8	94	78-156							

VP-6-5'	08-04-1746-2-A	04/17/08 13:10	Air	GC/MS AA	N/A	04/20/08 22:51	080420L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	3.6	2.2	1.39		p/m-Xylene	ND	6.0	1.39	
Toluene	ND	2.6	1.39		o-Xylene	ND	3.0	1.39	
Ethylbenzene	ND	3.0	1.39		Methyl-t-Butyl Ether (MTBE)	ND	10	1.39	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	91	57-129			1,2-Dichloroethane-d4	103	47-137		
Toluene-d8	97	78-156							

VP-7-3'	08-04-1746-3-A	04/17/08 11:06	Air	GC/MS AA	N/A	04/21/08 23:46	080421L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	2.2	1.4		p/m-Xylene	ND	6.1	1.4	
Toluene	6.1	2.6	1.4		o-Xylene	ND	3.0	1.4	
Ethylbenzene	ND	3.0	1.4		Methyl-t-Butyl Ether (MTBE)	ND	10	1.4	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	85	57-129			1,2-Dichloroethane-d4	105	47-137		
Toluene-d8	93	78-156							

VP-7-3' DUP	08-04-1746-4-A	04/17/08 11:14	Air	GC/MS AA	N/A	04/22/08 00:35	080421L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	2.2	1.39		p/m-Xylene	ND	6.0	1.39	
Toluene	7.1	2.6	1.39		o-Xylene	ND	3.0	1.39	
Ethylbenzene	ND	3.0	1.39		Methyl-t-Butyl Ether (MTBE)	ND	10	1.39	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	89	57-129			1,2-Dichloroethane-d4	109	47-137		
Toluene-d8	97	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	04/19/08
19449 Riverside Drive, Suite 230	Work Order No:	08-04-1746
Sonoma, CA 95476-6955	Preparation:	N/A
	Method:	EPA TO-15
	Units:	ug/m3

Project: 2703 Martin Luther King Jr. Way, Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
VP-7-5'	**08-04-1746-5-A**	**04/17/08 11:37**	**Air**	**GC/MS AA**	**N/A**	**04/22/08 01:25**	**080421L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	2.2	1.35		p/m-Xylene	ND	5.9	1.35	
Toluene	7.8	2.5	1.35		o-Xylene	ND	2.9	1.35	
Ethylbenzene	ND	2.9	1.35		Methyl-t-Butyl Ether (MTBE)	ND	9.7	1.35	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	87	57-129			1,2-Dichloroethane-d4	107	47-137		
Toluene-d8	97	78-156							

VP-8-3'	**08-04-1746-6-A**	**04/17/08 09:52**	**Air**	**GC/MS AA**	**N/A**	**04/22/08 02:16**	**080421L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	2.3	1.42		p/m-Xylene	ND	6.2	1.42	
Toluene	7.1	2.7	1.42		o-Xylene	ND	3.1	1.42	
Ethylbenzene	ND	3.1	1.42		Methyl-t-Butyl Ether (MTBE)	ND	10	1.42	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	86	57-129			1,2-Dichloroethane-d4	107	47-137		
Toluene-d8	97	78-156							

VP-8-5'	**08-04-1746-7-A**	**04/17/08 10:17**	**Air**	**GC/MS AA**	**N/A**	**04/22/08 03:07**	**080421L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	2.3	1.47		p/m-Xylene	ND	6.4	1.47	
Toluene	11	2.8	1.47		o-Xylene	ND	3.2	1.47	
Ethylbenzene	ND	3.2	1.47		Methyl-t-Butyl Ether (MTBE)	ND	11	1.47	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	90	57-129			1,2-Dichloroethane-d4	107	47-137		
Toluene-d8	100	78-156							

TRIP BLANK	**08-04-1746-8-A**	**04/17/08 00:00**	**Air**	**GC/MS AA**	**N/A**	**04/21/08 15:34**	**080421L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		p/m-Xylene	ND	4.3	1	
Toluene	ND	1.9	1		o-Xylene	ND	2.2	1	
Ethylbenzene	ND	2.2	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	83	57-129			1,2-Dichloroethane-d4	107	47-137		
Toluene-d8	94	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Conestoga-Rovers & Associates	Date Received:	04/19/08
19449 Riverside Drive, Suite 230	Work Order No:	08-04-1746
Sonoma, CA 95476-6955	Preparation:	N/A
	Method:	EPA TO-15
	Units:	ug/m3

Project: 2703 Martin Luther King Jr. Way, Oakland, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-09-002-7,065**	**N/A**	**Air**	**GC/MS AA**	**N/A**	**04/20/08 12:02**	**080420L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		p/m-Xylene	ND	4.3	1	
Toluene	ND	1.9	1		o-Xylene	ND	2.2	1	
Ethylbenzene	ND	2.2	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	102	57-129			1,2-Dichloroethane-d4	105	47-137		
Toluene-d8	101	78-156							

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**097-09-002-7,067**	**N/A**	**Air**	**GC/MS AA**	**N/A**	**04/21/08 14:44**	**080421L01**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	1.6	1		p/m-Xylene	ND	4.3	1	
Toluene	ND	1.9	1		o-Xylene	ND	2.2	1	
Ethylbenzene	ND	2.2	1		Methyl-t-Butyl Ether (MTBE)	ND	7.2	1	
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
1,4-Bromofluorobenzene	84	57-129			1,2-Dichloroethane-d4	106	47-137		
Toluene-d8	96	78-156							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

Conestoga-Rovers & Associates	Date Received:	04/19/08
19449 Riverside Drive, Suite 230	Work Order No:	08-04-1746
Sonoma, CA 95476-6955	Preparation:	N/A
	Method:	EPA TO-3M

Project: 2703 Martin Luther King Jr. Way, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
VP-6-5'	**Air**	**GC 13**	**N/A**	**04/19/08**	**080419D01**

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
TPH as Gasoline	14000000	14000000	5	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates	Date Received:	N/A
19449 Riverside Drive, Suite 230	Work Order No:	08-04-1746
Sonoma, CA 95476-6955	Preparation:	N/A
	Method:	EPA TO-15

Project: 2703 Martin Luther King Jr. Way, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-09-002-7,065	**Air**	**GC/MS AA**	**N/A**	**04/20/08**	**080420L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	122	122	60-156	0	0-40	
Toluene	120	120	56-146	1	0-43	
Ethylbenzene	120	120	52-154	0	0-38	
p/m-Xylene	111	112	42-156	1	0-41	
o-Xylene	117	117	52-148	0	0-38	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Conestoga-Rovers & Associates
19449 Riverside Drive, Suite 230
Sonoma, CA 95476-6955

Date Received:	N/A
Work Order No:	08-04-1746
Preparation:	N/A
Method:	EPA TO-15

Project: 2703 Martin Luther King Jr. Way, Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-09-002-7,067	**Air**	**GC/MS AA**	**N/A**	**04/21/08**	**080421L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	100	60-156	1	0-40	
Toluene	114	111	56-146	2	0-43	
Ethylbenzene	114	112	52-154	2	0-38	
p/m-Xylene	107	106	42-156	2	0-41	
o-Xylene	112	111	52-148	1	0-38	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 08-04-1746

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☑ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☐ TEST AMERICA (_____)
- ☐ OTHER (_____)

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

Print Bill To Contact Name: Denis Brown
PO #:
INCIDENT # (ENV SERVICES): 97093397
SAP #:
☐ CHECK IF NO INCIDENT # APPLIES
DATE: 4-17-08
PAGE: 1 of 1

SAMPLING COMPANY: Conestoga-Rovers & Associates
LOG CODE: CRAW
SITE ADDRESS: Street and City: 2703 Martin Luther King Jr. Way, Oakland, CA
State:
GLOBAL ID NO.: T0600101876
ADDRESS: 19449 Riverside Drive, Suite 230, Sonoma, California 95476
EDF DELIVERABLE TO (Name, Company, Office Location): Felicia Ballard, CRA, Sonoma
PHONE NO.: 707-935-4850
E-MAIL: sonomaedf@craworld.com
CONSULTANT PROJECT NO.: 240781-2008-9
PROJECT CONTACT (Hardcopy or PDF Report to): Jacquelyn England
TELEPHONE: 707-933-0370
FAX: 707-935-6649
E-MAIL: jengland@craworld.com
SAMPLER NAME(S) (Print): Scott Lewis
LAB USE ONLY: 04-1746

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

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

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

Please report results in µg/m3

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH -GRO, Purgeable (8260B)	TPH -DRO, Extractable (8015M)	TPHg (8015M)	BTEX (5260B)	BTEX + MTBE (8260B)	BTEX + MTBE + TBA (8260B)	BTEX + 5 OXYs (MTBE, TBA, DIPE, TAME, ETBE) 8260B	Full VOC list (8260B)	Single Compound: (8260B)	1,2-DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)	TPHg (TO-3)	BTEX (TO-15)	MTBE (TO-15)	Isobutane, butane, propane (TO-15, GC/MS)			TEMPERATURE ON RECEIPT C° / Container PID Readings or Laboratory Notes
1	VP-6-3'	4/17/08	1237	Vapor						1														X	X	X	X			Container I.D. No.: LC104
2	VP-6-5'	4/17/08	1310	Vapor						1														X	X	X	X			Container I.D. No.: LC368
3	VP-7-3'	4/17/08	1106	Vapor						1														X	X	X	X			Container I.D. No.: LC002
4	VP-7-3' DUP	4/17/08	1114	Vapor						1														X	X	X	X			Container I.D. No.: LC328
5	VP-7-5'	4/17/08	1137	Vapor						1														X	X	X	X			Container I.D. No.: LC252
6	VP-8-3'	4/17/08	0952	Vapor						1														X	X	X	X			Container I.D. No.: LC213
7	VP-8-5'	4/17/08	1017	Vapor						1														X	X	X	X			Container I.D. No.: LC288
8	Trip Blank	~~4/17/08~~		Vapor						1														X	X	X	X			

Relinquished by: (Signature) Scott Lewis — Received by: (Signature) Sonoma Office — Date: 4-17-08 — Time: 1600

Relinquished by: (Signature) Sonoma Office — Received by: (Signature) Tom O'Malley CEC — Date: 4-18-08 — Time: 0946

Relinquished by: (Signature) Tom O'Malley TO GSO 1730 4-18-08 — Received by: (Signature) CEC — Date: 4/19/08 — Time: 9:50

GSO # 5049384881

05/2/06 Revision

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 08 - 04 - 1746

Cooler ~~0~~ of ~~0~~ (Box)

SAMPLE RECEIPT FORM

CLIENT: CRA **DATE:** 4/19/08

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
_____ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.
_____ °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
_____ °C IR thermometer.
✓ Ambient temperature. (sama)

Initial: HH

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: HH

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace			✓
Tedlar bag(s) free of condensation			✓

Initial: HH

COMMENTS: