

Amir



Shell Oil Products US

September 30, 2003

Mr. Bennett K. Horenstein
c/o Ms. Deirdre Mena
East Bay Municipal Utilities District – Mail Slot 702
Environmental Services Division
PO Box 24055
Oakland, California 94623-1055

PO 2223

Alameda County
OCT 03 2003
Environmental Health

Subject: Shell-branded Service Station
540 Hegenberger Road
Oakland, California
Semi-Annual Self-Monitoring Report: March 19 – August 31, 2003
EBMUD Discharge Permit No. 5051753-1

Dear Mr. Horenstein:

During the current reporting period, the groundwater treatment and extraction system at the subject site operated in compliance with the conditions specified in the above-referenced East Bay Municipal Utilities District Wastewater Discharge Permit.

I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based upon my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

Karen Petryna

Karen Petryna
Sr. Environmental Engineer
Shell Oil Products US

P.O. Box 7869 Burbank, CA 91510-7869

Phone (559) 645-9306 Facsimile (559) 645-5643

C A M B R I A

September 30, 2003

Mr. Bennett K. Horenstein
Source Control Manager
c/o Ms. Deirdre Mena
East Bay Municipal Utilities District – Mail Slot 702
Environmental Services Division
PO Box 24055
Oakland, California 94623-1055

Alameda County
OCT 05 2003
Environmental Health

Re: **Semi-Annual Self-Monitoring Report: March 19 – August 31, 2003**
Shell-branded Service Station
540 Hegenberger Road
Oakland, California
EBMUD Discharge Permit # 5051753-1
Cambria Project # 245-0414-004



Dear Mr. Horenstein:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US, Cambria Environmental Technology, Inc. (Cambria), is providing this *Semi-Annual Self-Monitoring Report: March 19 – August 31, 2003* for the groundwater extraction (GWE) system operating at the subject site, under the authorization of East Bay Municipal Utility District (EBMUD) wastewater discharge permit # 5051753-1.

SITE BACKGROUND

The site is a Shell-branded service station located on Hegenberger Road, between Edes Avenue and the Highway 880 northbound on-ramp, in Oakland, California (Figure 1). Currently, the site consists of a station building, four underground storage tanks, six dispensers, and a drive-through car wash facility (Figure 2). The area surrounding the site is primarily of commercial use.

GWE SYSTEM MONITORING SUMMARY

Cambria
Environmental
Technology, Inc.

5900 Hollis Street
Suite A
Emeryville, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

GWE System Design: Groundwater is extracted from two 2-inch diameter monitoring wells (MW-1 and MW-3), one 4-inch diameter monitoring well (MW-5), and one 4-inch diameter tank backfill well (BW-B). Two particle filters in parallel, and then a series of three 2,000-pound aqueous-phase carbon

vessels treat the combined groundwater stream. Treated groundwater is then discharged to the sanitary sewer.

GWE System Startup: The GWE system was started on April 28, 2003.

GWE System Sampling: Samples are collected prior to the first carbon vessel (influent), between the first and second carbon vessels (midfluent 1), between the second and third carbon vessels (midfluent 2), and after the third carbon vessel (effluent). Cambria collected startup samples on April 28, 2003 and semi-annual permit compliance samples on August 5, 2003. The startup and semi-annual effluent sample were analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, ethylbenzene, toluene, and xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by EPA method 8260B, and oil and grease by EPA method 1664. Results of the analyses were in compliance with the discharge limits.

Additionally, samples were collected to monitor system performance on May 12, May 27, June 9, June 23, July 8, July 25, and August 19, 2003. Table 1 summarizes system analytical data for the primary constituents of concern. Certified laboratory analytical reports are provided as Attachment A.

GWE System Flow Monitoring: As of August 19, 2003, the GWE system treated and discharged approximately 113,405 gallons of groundwater. The average system flow rate during operation (based on the hour meter readings) was approximately 0.77 gallons per minute. Table 2 summarizes extraction/discharge totals and contaminant mass removal.

GWE System Operation: Cambria has established a routine operation and maintenance schedule for this system. Site visits are conducted twice per month to collect operational and monitoring data. Permit compliance samples will be collected semi-annually as specified by the permit. Cambria may collect additional system samples if deemed appropriate. The GWE system operated as expected during the reporting period, and no operational changes were made to the system.

CLOSING

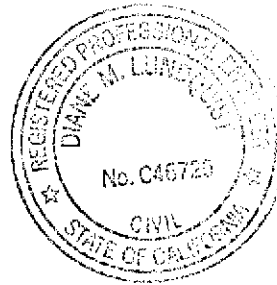
Please call Diane Lundquist at (510) 420-3334 if you have any questions or require additional information.

Sincerely,
Cambria Environmental Technology, Inc.



Cynthia Vasko
Senior Staff Engineer

Diane Lundquist, P.E.
Principal Engineer



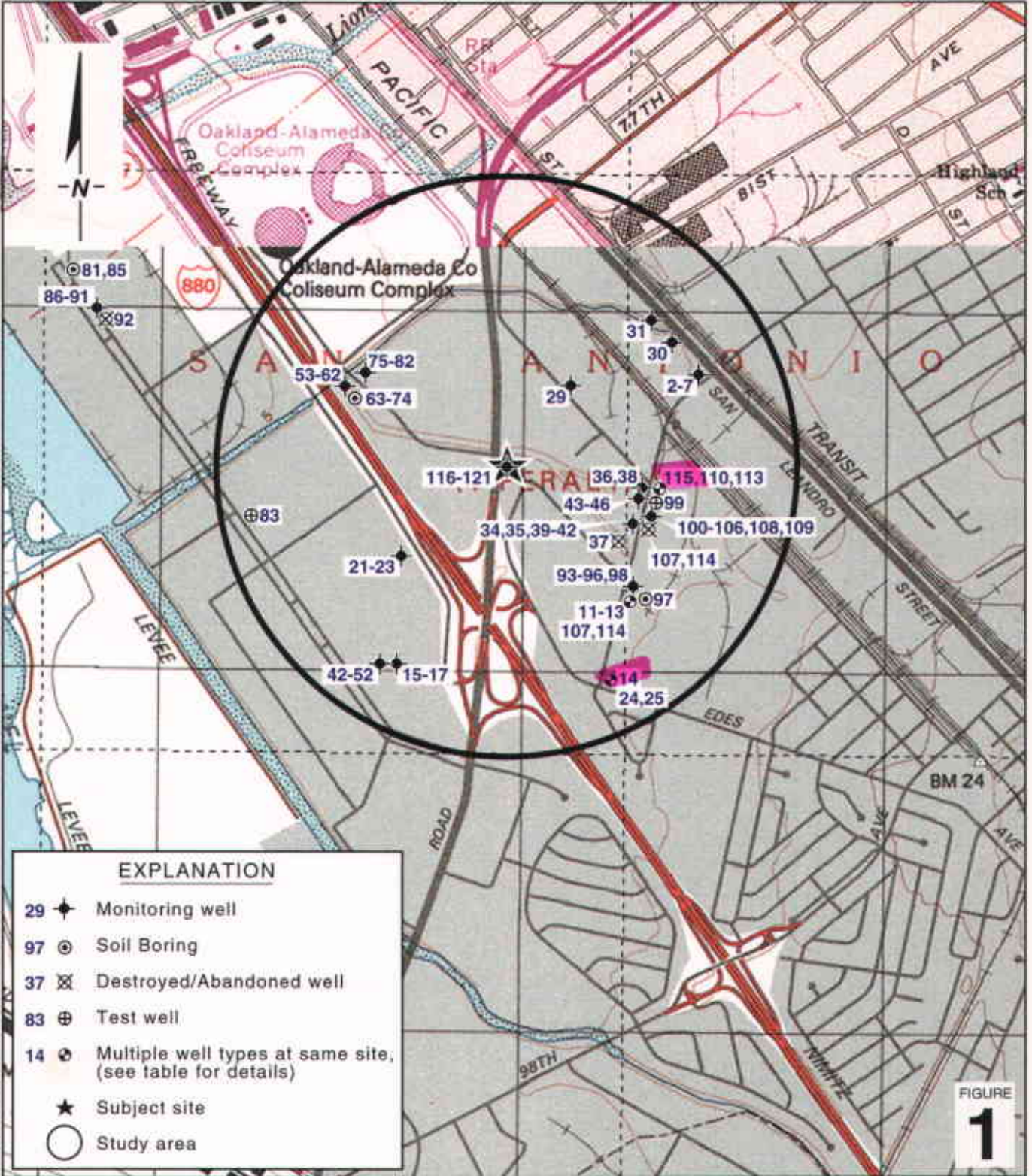
Figures: 1 - Vicinity/Area Well Survey Map
 2 - Groundwater Extraction and Treatment System Layout AsBuilt

Tables: 1 - Groundwater Extraction - System Analytical Data
 2 - Groundwater Extraction - Operation and Mass Removal Data

Attachment: A - Certified Laboratory Analytical Reports

cc: Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, CA 91510-7869

G:\Oakland 540 Hegenberger\Remediation\EBMUD PERMIT\Self-monitoring Reports\Sep03\0414 EBMUD self-monitoring 09.30.03.doc



EXPLANATION

- 29 ◆ Monitoring well
- 97 ⊙ Soil Boring
- 37 ⊗ Destroyed/Abandoned well
- 83 ⊕ Test well
- 14 ⊙⊗ Multiple well types at same site, (see table for details)
- ★ Subject site
- Study area

FIGURE 1



0 1/8 1/4 1/2 1
SCALE 1:1/4 MILES

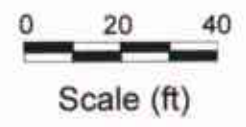
Shell-branded Service Station
 540 Hegenberger Road
 Oakland, California
 Incident #98995752



Area Well Survey
 (1/2-Mile Radius)

EXPLANATION

- MW-1 ◆ Monitoring well location
- T-1 ◆ Tank backfill well location
- Trench/Electrical Service
- Trench/Remediation Pipe
- Trench/Discharge Pipe
- - - Existing Sanitary Sewer (SS)
-  Denotes Standard Detail Number Drawing Number
-  Cross-section Indicator & Detail Designator



HEGENBERGER RD

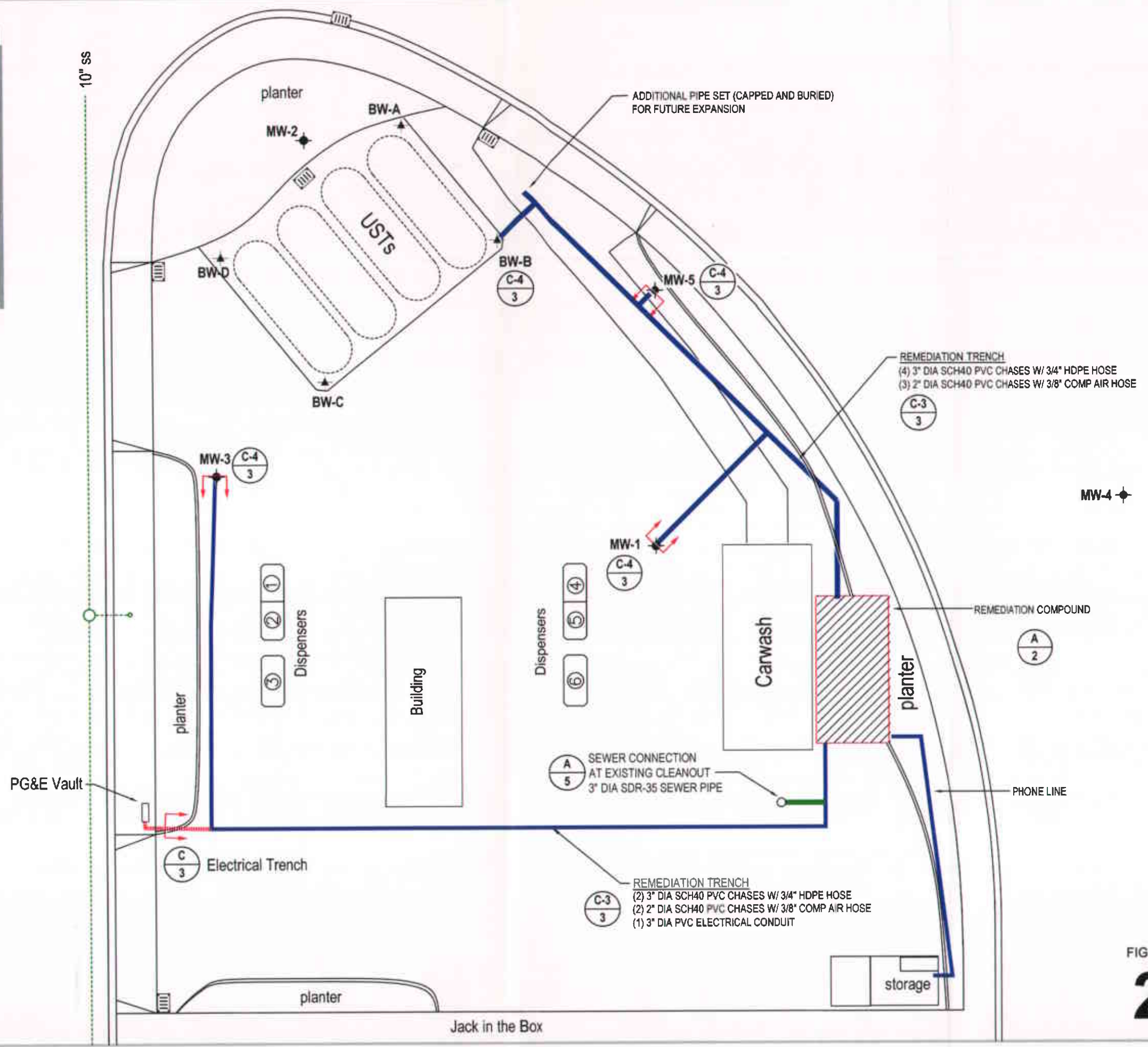


FIGURE
2

Groundwater Extraction and
Treatment System Layout AsBuilt



C A M B R I A

Shell-branded Service Station
540 Hegenberger Road
Oakland, California
Incident # 98995752

Table 1: Groundwater Extraction - System Analytical Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger, Oakland, California

Sample Date (mm/dd/yyyy)	Influent			Midfluent 1			Midfluent 2			Effluent		
	TPHg Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc. (ppb)	TPHg Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc. (ppb)	TPHg Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc. (ppb)	TPHg Conc. (ppb)	Benzene Conc. (ppb)	MTBE Conc. (ppb)
04/28/2003	<1,000	<10	2,700	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
05/12/2003	<10,000	<100	21,000	51 ^a	<0.50	<0.50	140 ^a	<0.50	<0.50	99 ^a	<0.50	<0.50
05/27/2003	<10,000	<100	29,000	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
06/09/2003	<25,000	<250	20,000	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
06/23/2003	<500	<5.0	1,300	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
07/08/2003	<1,000	<10	2,000	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
07/25/2003	<500	<50	16,000	<50	<0.50	<0.50	<50	<0.50	<0.50	<50	<0.50	<0.50
08/05/2003	<5,000	<50	11,000	<50	<0.50	<5.0	<50	<0.50	<5.0	<50	<0.50	<5.0
08/19/2003	<10,000	<100	13,000	<50	<0.50	<5.0	<50	<0.50	<5.0	<50	<0.50	<5.0

Abbreviations & Notes:

TPHg = Total purgeable hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

Conc. = Concentration

ppb = parts per billion, equivalent to µg/l

TPHg, benzene, and MTBE analyzed by EPA Method 8260B

a = Hydrocarbons reported in the gasoline range do not match the laboratory gasoline standard.

Table 2: Groundwater Extraction - Operation and Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road , Oakland, California

Site Visit (mm/dd/yy)	Hour Meter (hours)	Flow Meter Reading (gal)	Period			TPHg			Benzene			MTBE		
			Period Volume (gal)	Operational Flow Rate (gpm)	Cumulative Volume (gal)	TPHg Conc. (ppb)	Period Removal (pounds)	Cumulative Removal (pounds)	Benzene Conc. (ppb)	Period Removal (pounds)	Cumulative Removal (pounds)	MTBE Conc. (ppb)	Period Removal (pounds)	Cumulative Removal (pounds)
04/28/2003	3.3	840	0	0.00	0	<1,000	0.000	0.000	<10	0.000	0.000	2,700	0.000	0.000
05/02/2003	101.3	6,680	5,840	1.0	5,840		0.024	0.024		0.000	0.000		0.132	0.132
05/12/2003	341.2	23,885	17,205	1.2	23,045	<10,000	0.718	0.742	<100	0.007	0.007	21,000	3.015	3.146
05/27/2003	699.9	45,085	21,200	1.0	44,245	<10,000	0.885	1.627	<100	0.009	0.016	29,000	5.130	8.277
06/09/2003	1011.8	58,453	13,368	0.7	57,613	<25,000	1.394	3.021	<250	0.014	0.030	20,000	2.231	10.507
06/23/2003	1347.2	67,082	8,629	0.4	66,242	<500	0.018	3.039	<5.0	0.000	0.030	1,300	0.094	10.601
07/08/2003	1706.9	80,092	13,010	0.6	79,252	<1,000	0.054	3.093	<10	0.001	0.031	2,000	0.217	10.818
07/25/2003	2113.6	97,580	17,488	0.7	96,740	<500	0.036	3.130	<50	0.004	0.035	16,000	2.335	13.153
08/05/2003	2136.0	98,536	956	0.7	97,696	<5,000	0.020	3.150	<50	0.000	0.035	11,000	0.088	13.241
08/19/2003	2473.8	114,245	15,709	0.8	113,405	<10,000	0.655	3.805	<100	0.007	0.041	13,000	1.704	14.945
Total Extracted Volume=			113,405	Total Pounds Removed:		3.81		Total Pounds Removed:		0.041		Total Pounds Removed:		14.9
Average Period Operational Flow Rate=			0.70	Total Gallons Removed:		0.62		Total Gallons Removed:		0.007		Total Gallons Removed:		2.42

Abbreviations & Notes:

TPHg = Total purgeable hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

Conc. = Concentration

ppb = Parts per billion, equivalent to µg/L

µg/L = Micrograms per liter

L = Liter gal = Gallon g = Gram

Mass removed based on the formula: volume extracted (gal) x Concentration (µg/L) x (g/10⁶µg) x (pound/453.6g) x (3.785 L/gal)

When constituents are not detected, the concentration is assumed to be equal to half the detection limit in subsequent calculations.

Volume removal data based on the formula: mass (pounds) x (density)⁻¹ (cc/g) x 453.6 (g/pound) x (L/1000 cc) * (gal/3.785 L)

Density inputs: TPHg = 0.73 g/cc, TPHd = 0.87 g/cc, MTBE = 0.74 g/cc

TPHg, BTEX, and MTBE analyzed by EPA Method 8260B

System started on 4/28/03 with 3.3hours and 880 gallons on flow meter.

ATTACHMENT A

Certified Laboratory Analytical Reports

Cambria Environmental Emeryville

May 02, 2003

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Kevin Dolan

Project#: 245-0414

Project: 98995752

Site: 540 Hegenberger Road, Oakland, CA

Dear Mr. Donan:

Attached is our report for your samples received on 04/29/2003 10:55


This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 06/13/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,



Tod Granicher
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Oil & Grease (Petroleum) by EPA 1664

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 245-0414

98995752

Received: 04/29/2003 10:55

Site: 540 Hegenberger Road, Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFF	04/28/2003 17:05	Water	4

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/01/2003 16:29

Oil & Grease (Petroleum) by EPA 1664

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 04/29/2003 10:55

Site: 540 Hegenberger Road, Oakland, CA

Prep(s): 1664	Test(s): 1664
Sample ID: EFF	Lab ID: 2003-04-0721 - 4
Sampled: 04/28/2003 17:05	Extracted: 4/30/2003 00:00
Matrix: Water	QC Batch#: 2003/04/30-02.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil and Grease (Petroleum)	ND	1.0	mg/L	1.00	04/30/2003	

Oil & Grease (Petroleum) by EPA 1664

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 04/29/2003 10:55

Site: 540 Hegenberger Road, Oakland, CA

Batch QC Report

Prep(s): 1664
Method Blank
MB: 2003/04/30-02.23-001

Water

Test(s): 1664
QC Batch # 2003/04/30-02.23
Date Extracted: 04/30/2003

Compound	Conc.	RL	Unit	Analyzed	Flag
Oil and Grease (Petroleum)	ND	1	mg/L	04/30/2003	

Oil & Grease (Petroleum) by EPA 1664

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 245-0414

98995752

Received: 04/29/2003 10:55

Site: 540 Hegenberger Road, Oakland, CA

Batch QC Report

Prep(s): 1664

Test(s): 1664

Laboratory Control Spike

Water

QC Batch # 2003/04/30-02.23

LCS 2003/04/30-02.23-002

Extracted: 04/30/2003

Analyzed: 04/30/2003

LCSD 2003/04/30-02.23-003

Extracted: 04/30/2003

Analyzed: 04/30/2003

Compound	Conc. mg/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Oil and Grease (Petroleum)	19.1	18.8	20.0	95.5	94.0	1.6	66-114	24		

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/01/2003 16:29

Page 4 of 4

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 245-0414

98995752

Received: 04/29/2003 10:55

Site: 540 Hegenberger Road, Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
INF	04/28/2003 17:20	Water	1
MID 1	04/28/2003 17:15	Water	2
MID 2	04/28/2003 17:10	Water	3
EFF	04/28/2003 17:05	Water	4

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/02/2003 10:14

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

 5900 Hollis Street, Ste. A
 Emeryville, CA 94608
 Phone: (510) 420-0700 Fax: (510) 420-9170

 Project: 245-0414
 98995752

Received: 04/29/2003 10:55

Site: 540 Hegenberger Road, Oakland, CA

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: INF	Lab ID: 2003-04-0721 - 1
Sampled: 04/28/2003 17:20	Extracted: 5/1/2003 19:51
Matrix: Water	QC Batch#: 2003/05/01-01.65

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/L	20.00	05/01/2003 19:51	
Benzene	ND	10	ug/L	20.00	05/01/2003 19:51	
Toluene	ND	10	ug/L	20.00	05/01/2003 19:51	
Ethylbenzene	ND	10	ug/L	20.00	05/01/2003 19:51	
Total xylenes	ND	20	ug/L	20.00	05/01/2003 19:51	
Methyl tert-butyl ether (MTBE)	2700	10	ug/L	20.00	05/01/2003 19:51	
Surrogates(s)						
1,2-Dichloroethane-d4	100.4	76-114	%	20.00	05/01/2003 19:51	
Toluene-d8	95.4	88-110	%	20.00	05/01/2003 19:51	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 04/29/2003 10:55

Site: 540 Hegenberger Road, Oakland, CA

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MID 1	Lab ID: 2003-04-0721 - 2
Sampled: 04/28/2003 17:15	Extracted: 5/1/2003 13:01
Matrix: Water	QC Batch#: 2003/05/01-01.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/01/2003 13:01	
Benzene	ND	0.50	ug/L	1.00	05/01/2003 13:01	
Toluene	ND	0.50	ug/L	1.00	05/01/2003 13:01	
Ethylbenzene	ND	0.50	ug/L	1.00	05/01/2003 13:01	
Total xylenes	ND	1.0	ug/L	1.00	05/01/2003 13:01	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	05/01/2003 13:01	
Surrogates(s)						
1,2-Dichloroethane-d4	100.2	76-114	%	1.00	05/01/2003 13:01	
Toluene-d8	95.3	88-110	%	1.00	05/01/2003 13:01	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 245-0414

98995752

Received: 04/29/2003 10:55

Site: 540 Hegenberger Road, Oakland, CA

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MID 2	Lab ID: 2003-04-0721 - 3
Sampled: 04/28/2003 17:10	Extracted: 5/1/2003 13:22
Matrix: Water	QC Batch#: 2003/05/01-01.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/01/2003 13:22	
Benzene	ND	0.50	ug/L	1.00	05/01/2003 13:22	
Toluene	ND	0.50	ug/L	1.00	05/01/2003 13:22	
Ethylbenzene	ND	0.50	ug/L	1.00	05/01/2003 13:22	
Total xylenes	ND	1.0	ug/L	1.00	05/01/2003 13:22	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	05/01/2003 13:22	
Surrogates(s)						
1,2-Dichloroethane-d4	96.1	76-114	%	1.00	05/01/2003 13:22	
Toluene-d8	97.5	88-110	%	1.00	05/01/2003 13:22	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/02/2003 10:14

Page 4 of 10

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 245-0414

98995752

Received: 04/29/2003 10:55

Site: 540 Hegenberger Road, Oakland, CA

Prep(s): 5030B

Test(s): 8260FAB

Sample ID: EFF

Lab ID: 2003-04-0721 - 4

Sampled: 04/28/2003 17:05

Extracted: 5/1/2003 19:29

Matrix: Water

QC Batch#: 2003/05/01-01.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/01/2003 19:29	
Benzene	ND	0.50	ug/L	1.00	05/01/2003 19:29	
Toluene	ND	0.50	ug/L	1.00	05/01/2003 19:29	
Ethylbenzene	ND	0.50	ug/L	1.00	05/01/2003 19:29	
Total xylenes	ND	1.0	ug/L	1.00	05/01/2003 19:29	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	05/01/2003 19:29	
Surrogates(s)						
1,2-Dichloroethane-d4	99.1	76-114	%	1.00	05/01/2003 19:29	
Toluene-d8	98.0	88-110	%	1.00	05/01/2003 19:29	

Severn Trent Laboratories, Inc.

05/02/2003 10:14

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 04/29/2003 10:55

Site: 540 Hegenberger Road, Oakland, CA

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2003/05/01-01.64-003

Water

Test(s): 8260FAB

QC Batch # 2003/05/01-01.64

Date Extracted: 05/01/2003 11:06

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/01/2003 11:06	
Benzene	ND	0.5	ug/L	05/01/2003 11:06	
Toluene	ND	0.5	ug/L	05/01/2003 11:06	
Ethylbenzene	ND	0.5	ug/L	05/01/2003 11:06	
Total xylenes	ND	1.0	ug/L	05/01/2003 11:06	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/01/2003 11:06	
Surrogates(s)					
1,2-Dichloroethane-d4	109.4	76-114	%	05/01/2003 11:06	
Toluene-d8	98.0	88-110	%	05/01/2003 11:06	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 04/29/2003 10:55

Site: 540 Hegenberger Road, Oakland, CA

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2003/05/01-01.65-003

Water

Test(s): 8260FAB

QC Batch # 2003/05/01-01.65

Date Extracted: 05/01/2003 09:41

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/01/2003 09:41	
Benzene	ND	0.5	ug/L	05/01/2003 09:41	
Toluene	ND	0.5	ug/L	05/01/2003 09:41	
Ethylbenzene	ND	0.5	ug/L	05/01/2003 09:41	
Total xylenes	ND	1.0	ug/L	05/01/2003 09:41	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/01/2003 09:41	
Surrogates(s)					
1,2-Dichloroethane-d4	95.2	76-114	%	05/01/2003 09:41	
Toluene-d8	91.8	88-110	%	05/01/2003 09:41	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/02/2003 10:14

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 04/29/2003 10:55

Site: 540 Hegenberger Road, Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2003/05/01-01.64

LCS 2003/05/01-01.64-002

Extracted: 05/01/2003

Analyzed: 05/01/2003 10:22

LCSD 2003/05/01-01.64-001

Extracted: 05/01/2003

Analyzed: 05/01/2003 10:44

Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	22.9	22.1	25.0	91.6	88.4	3.6	69-129	20		
Toluene	23.2	22.4	25.0	92.8	89.6	3.5	70-130	20		
Methyl tert-butyl ether (MTBE)	24.4	25.3	25.0	97.6	101.2	3.6	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	496	501	500	99.2	100.2		76-114	0		
Toluene-d8	490	470	500	98.0	94.0		88-110	0		

Severn Trent Laboratories, Inc.

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05/02/2003 10:14

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 04/29/2003 10:55

Site: 540 Hegenberger Road, Oakland, CA

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2003/05/01-01.65

LCS 2003/05/01-01.65-002

Extracted: 05/01/2003

Analyzed: 05/01/2003 08:57

LCSD 2003/05/01-01.65-001

Extracted: 05/01/2003

Analyzed: 05/01/2003 09:19

Compound	Conc. ug/L		Exp. Conc.	Recovery		RPD %	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	23.7	22.8	25.0	94.8	91.2	3.9	69-129	20		
Toluene	23.5	22.2	25.0	94.0	88.8	5.7	70-130	20		
Methyl tert-butyl ether (MTBE)	30.1	30.6	25.0	120.4	122.4	1.6	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	473	477	500	94.6	95.4		76-114	0		
Toluene-d8	483	469	500	96.6	93.8		88-110	0		

Severn Trent Laboratories, Inc.

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05/02/2003 10:14

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 245-0414
98995752

Received: 04/29/2003 10:55

Site: 540 Hegenberger Road, Oakland, CA

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

STL San Francisco

Sample Receipt Checklist

Submission #: 2003- 04-0721

Checklist completed by: (initials) NK Date: 04/29/03

Courier name: STL San Francisco Client _____

Custody seals intact on shipping container/samples

Yes ___ No ___ Not Present

Chain of custody present?

Yes No ___

Chain of custody signed when relinquished and received?

Yes No ___

Chain of custody agrees with sample labels?

Yes No ___

Samples in proper container/bottle?

Yes No ___

Sample containers intact?

Yes No ___

Sufficient sample volume for indicated test?

Yes No ___

All samples received within holding time?

Yes No ___

Container/Temp Blank temperature in compliance ($4^{\circ}C \pm 2$)?

Temp: 2.0°C Yes No ___

Water - VOA vials have zero headspace?

No VOA vials submitted ___ Yes No ___

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small - O), M (medium - O) or L (large - O))

Water - pH acceptable upon receipt? Yes No checked amber NK 4/29/03

pH adjusted- Preservative used: HNO₃ HCl H₂SO₄ NaOH ZnOAc

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: _____ / _____ /03

Client contacted: Yes No

Summary of discussion:

Corrective Action (per PM/Client):

Address: 1220 Quarry Lane

City, State, Zip Pleasanton, CA, 94566
 ph: (925) 464-1919
 fx: (925) 464-1999

Shell Project Manager to be invoiced:

SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 CRMP HOUSTON

KAREN PETRYNA

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 5 2

SAP or CRMT NUMBER (TS/CRMT)

DATE: 4/28/03

PAGE: 7 of 7

CAMPILING COMPANY: **CAMBRIA ENVIRONMENTAL TECH.** LOG CODE: **CETO** SITE ADDRESS (Street and City): **540 Hegenberger Road, Oakland, CA** GLOBAL ID NO:

ADDRESS: **5900 HOLLIS STREET, EMERYVILLE, CA - 94608** EOP DELIVERABLE TO (Superiority Party or Designee): _____ FINDER NO.: _____ E-MAIL: _____ CONSTRUCTION PROJECT NO.: **245-0414**

PROJECT CONTACT (Name and Title): **KEVIN DOLAN** SAMPLER NAME (ID) (Print): _____ LAB USE ONLY

TELEPHONE: **(510)420-3318** FAX: **(510)420-9170** EMAIL: **KDOLAN@CAMBRIA-ENV.COM** **KEVIN DOLAN**

TURNAROUND TIME (BUSINESS DAYS):
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - RWQCB REPORT FORMAT UST AGENCY: _____

GLMS MTEB CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EPOIS IS NOT NEEDED

First Sample Event 4/28/03
 FLOW TOTAL = **1050**

LAB USE ONLY	Field Sample Identification				REQUESTED ANALYSIS														FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes						
	DATE	TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (4021B - 5ppb RL)	M-TBE (4260B - 0.5ppb RL)	Oxygenates (E) by (4260B)	Ethanol (4260B)	Methanol	EOB & 1,2-DCA (4260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatics (4021B)	TPH (418, 1)	Vapor VOCs BTEX / MTBE (TO-15)	VOCs - Full List (4260B)	Vapor TPH (ASTM 3416m)		Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-)	DGHC (EPA 1464-SGT)	TPH - Diesel, Extractable (4045m)	MTEB (4260B) Confirmation, See Note	TEMPERATURE ON RECEIPT C
	4/28	5:20	AQ	4	X	X	X																		(4) VOAS W/ HCL
		5:15	AQ	4	X	X	X																		(4) VOAS W/ HCL
		5:10	AQ	4	X	X	X																		(4) VOAS W/ HCL
		5:05	AQ	5	X	X	X														X				(4) VOAS W/ HCL
																									(1) L. Amber W/ HCL

Requested by (Signature): *Kevin Dolan* Received by (Signature): *IN Secure Location* Date: **4/28/03** Time: **7:00PM**

Requested by (Signature): _____ Received by (Signature): _____ Date: **4/29/03 10:55** Time: _____

Requested by (Signature): *A. Morozov* Received by (Signature): *Norwah STL-SF* Date: **4-29-03 1701** Time: **1701**

Cambria Environmental Emeryville

May 28, 2003

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Attn.: Kevin Dolan
Project#: 245-0414
Project: 98995752
Site: 540 Hegenberger Road Oakland

Dear Mr. Dolan:

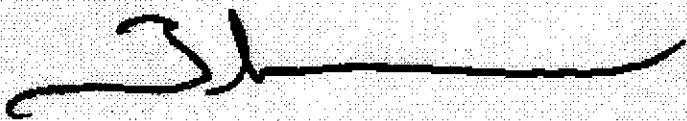
Attached is our report for your samples received on 05/13/2003 11:23
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after
06/27/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,
please call me at (925) 484-1919.

You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,



Tod Granicher
Project Manager

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3318 Fax: (510) 420-9170Project: 245-0414
98995752

Received: 05/13/2003 11:23

Site: 540 Hegenberger Road Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
INF	05/12/2003 02:45	Water	1
MID 1	05/12/2003 02:40	Water	2
MID 2	05/12/2003 02:35	Water	3
EFF	05/12/2003 02:30	Water	4

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3318 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 05/13/2003 11:23

Site: 540 Hegenberger Road Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: INF	Lab ID: 2003-05-0355 - 1
Sampled: 05/12/2003 02:45	Extracted: 5/22/2003 11:55
Matrix: Water	QC Batch#: 2003/05/22-1C.65
Analysis Flag: o (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	10000	ug/L	200.00	05/22/2003 11:55	
Benzene	ND	100	ug/L	200.00	05/22/2003 11:55	
Toluene	ND	100	ug/L	200.00	05/22/2003 11:55	
Ethylbenzene	ND	100	ug/L	200.00	05/22/2003 11:55	
Total xylenes	ND	200	ug/L	200.00	05/22/2003 11:55	
tert-Butyl alcohol (TBA)	3500	1000	ug/L	200.00	05/22/2003 11:55	
Methyl tert-butyl ether (MTBE)	21000	100	ug/L	200.00	05/22/2003 11:55	
Surrogates(s)						
1,2-Dichloroethane-d4	105.0	76-130	%	200.00	05/22/2003 11:55	
Toluene-d8	104.2	78-115	%	200.00	05/22/2003 11:55	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3318 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 05/13/2003 11:23

Site: 540 Hegenberger Road Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MID 1	Lab ID:	2003-05-0355 - 2
Sampled:	05/12/2003 02:40	Extracted:	5/21/2003 18:14
Matrix:	Water	QC Batch#:	2003/05/21-1a.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	51	50	ug/L	1.00	05/21/2003 18:14	g
Benzene	ND	0.50	ug/L	1.00	05/21/2003 18:14	
Toluene	ND	0.50	ug/L	1.00	05/21/2003 18:14	
Ethylbenzene	ND	0.50	ug/L	1.00	05/21/2003 18:14	
Total xylenes	ND	1.0	ug/L	1.00	05/21/2003 18:14	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	05/21/2003 18:14	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	05/21/2003 18:14	
Surrogates(s)						
1,2-Dichloroethane-d4	111.5	76-130	%	1.00	05/21/2003 18:14	
Toluene-d8	98.3	78-115	%	1.00	05/21/2003 18:14	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3318 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 05/13/2003 11:23

Site: 540 Hegenberger Road Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MID 2	Lab ID:	2003-05-0355 - 3
Sampled:	05/12/2003 02:35	Extracted:	5/21/2003 18:37
Matrix:	Water	QC Batch#:	2003/05/21-1a.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	140	50	ug/L	1.00	05/21/2003 18:37	g
Benzene	ND	0.50	ug/L	1.00	05/21/2003 18:37	
Toluene	ND	0.50	ug/L	1.00	05/21/2003 18:37	
Ethylbenzene	ND	0.50	ug/L	1.00	05/21/2003 18:37	
Total xylenes	ND	1.0	ug/L	1.00	05/21/2003 18:37	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	05/21/2003 18:37	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	05/21/2003 18:37	
Surrogates(s)						
1,2-Dichloroethane-d4	115.0	76-130	%	1.00	05/21/2003 18:37	
Toluene-d8	99.3	78-115	%	1.00	05/21/2003 18:37	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/28/2003 08:26

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3318 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 05/13/2003 11:23

Site: 540 Hegenberger Road Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: EFF	Lab ID: 2003-05-0355-4
Sampled: 05/12/2003 02:30	Extracted: 5/21/2003 18:59
Matrix: Water	QC Batch#: 2003/05/21-1a.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	99	50	ug/L	1.00	05/21/2003 18:59	g
Benzene	ND	0.50	ug/L	1.00	05/21/2003 18:59	
Toluene	ND	0.50	ug/L	1.00	05/21/2003 18:59	
Ethylbenzene	ND	0.50	ug/L	1.00	05/21/2003 18:59	
Total xylenes	ND	1.0	ug/L	1.00	05/21/2003 18:59	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	05/21/2003 18:59	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	05/21/2003 18:59	
Surrogates(s)						
1,2-Dichloroethane-d4	113.6	76-130	%	1.00	05/21/2003 18:59	
Toluene-d8	100.0	78-115	%	1.00	05/21/2003 18:59	

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/28/2003 08:26

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3318 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 05/13/2003 11:23

Site: 540 Hegenberger Road Oakland

Batch QC Report		
Prep(s): 5030B		Test(s): 8260FAB
Method Blank	Water	QC Batch # 2003/05/21-1a.64
MB: 2003/05/21-1a.64-003		Date Extracted: 05/21/2003 11:18

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/21/2003 11:18	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	05/21/2003 11:18	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/21/2003 11:18	
Benzene	ND	0.5	ug/L	05/21/2003 11:18	
Toluene	ND	0.5	ug/L	05/21/2003 11:18	
Ethylbenzene	ND	0.5	ug/L	05/21/2003 11:18	
Total xylenes	ND	1.0	ug/L	05/21/2003 11:18	
Surrogates(s)					
1,2-Dichloroethane-d4	101.8	76-130	%	05/21/2003 11:18	
Toluene-d8	99.4	78-115	%	05/21/2003 11:18	

Severn Trent Laboratories, Inc.

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Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/28/2003 08:26

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3318 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 05/13/2003 11:23

Site: 540 Hegenberger Road Oakland

Batch QC Report					
Prep(s): 5030B		Water		Test(s): 8260FAB	
Method Blank				QC Batch # 2003/05/22-1C.65	
MB: 2003/05/22-1C.65-002				Date Extracted: 05/22/2003 10:04	
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	05/22/2003 10:04	
Benzene	ND	0.5	ug/L	05/22/2003 10:04	
Toluene	ND	0.5	ug/L	05/22/2003 10:04	
Ethylbenzene	ND	0.5	ug/L	05/22/2003 10:04	
Total xylenes	ND	1.0	ug/L	05/22/2003 10:04	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	05/22/2003 10:04	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	05/22/2003 10:04	
Surrogates(s)					
1,2-Dichloroethane-d4	101.4	76-130	%	05/22/2003 10:04	
Toluene-d8	100.4	78-115	%	05/22/2003 10:04	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3318 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 05/13/2003 11:23

Site: 540 Hegenberger Road Oakland

Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike			Water			QC Batch # 2003/05/21-1a.64				
LCS	2003/05/21-1a.64-002		Extracted: 05/21/2003			Analyzed: 05/21/2003 10:34				
LCSD	2003/05/21-1a.64-001		Extracted: 05/21/2003			Analyzed: 05/21/2003 10:56				
Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	27.1	25.9	25	108.4	103.6	4.5	65-165	20		
Benzene	25.1	24.6	25	100.4	98.4	2.0	69-129	20		
Toluene	24.9	24.1	25	99.6	96.4	3.3	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	519	511	500	103.8	102.2		76-130			
Toluene-d8	504	503	500	100.8	100.6		78-115			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Emeryville, CA 94608
Phone: (510) 420-3318 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 05/13/2003 11:23

Site: 540 Hegenberger Road Oakland

Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike				Water			QC Batch # 2003/05/22-1C.65			
LCS	2003/05/22-1C.65-003			Extracted: 05/22/2003			Analyzed: 05/22/2003 09:20			
LCSD	2003/05/22-1C.65-001			Extracted: 05/22/2003			Analyzed: 05/22/2003 09:42			
Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	26.6	26.6	25	106.4	106.4	0.0	69-129	20		
Toluene	25.6	26.0	25	102.4	104.0	1.6	70-130	20		
Methyl tert-butyl ether (MTBE)	35.4	34.7	25	141.6	138.8	2.0	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	491	509	500	98.2	101.8		76-130			
Toluene-d8	498	508	500	99.6	101.6		78-115			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

05/28/2003 08:26

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3318 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 05/13/2003 11:23

Site: 540 Hegenberger Road Oakland

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

SHELL Chain Of Custody Record

74179

Address: 1220 Quarry Lane

City, State, Zip: Pleasanton, CA, 94566
 ph: (925) 484-1819
 fx: (925) 484-1066

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

KAREN PETRYNA

2003-05-0355

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 5 2

SAP or CRMT NUMBER (TS/CRMT)

DATE: 5-12-03

PAGE: 1 of 1

SAMPLING COMPANY: CAMBRIA ENVIRONMENTAL TECH. LOG CODE: CETO

SITE ADDRESS (Street and City): 540 Hegenberger Road, Oakland, CA

GLOBAL ID NO.:

ADDRESS: 6900 HOLLIS STREET, EMERYVILLE, CA - 94608

CONTRACT PROJECT NO.: 245-0414

PROJECT CONTACT (Name, Title, or POC Report to): KEVIN DOLAN

TELEPHONE: (510) 420-3318 FAX: (510) 420-9170 EMAIL: KDOLAN@CAMBRIA-ENV.COM

SAMPLER NAME(S) (Print): VARTAN HAWEDADIAN

LAB USE ONLY:

TURNAROUND TIME (BUSINESS DAYS): 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

REQUESTED ANALYSIS

LA-RWQCB REPORT FORMAT UST AGENCY

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF SDO IS NOT NEEDED

FLOW TOTAL = 23885.0

LAB USE ONLY	Field Sample Identification				NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (6031B - Spill RL)	MTBE (6280B - 0.5ppb RL)	TBA (6280B)	Oxygenates (S) by (6280B)	Methanol	EDB & 1,2-DCA (6280B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatics (6921B)	TRPH (416-1)	Vapor VOCs BTEX / MTBE (10-15)	VOCs Full List (6260B)	Vapor TPH (ASTM 3416m)	Vapor Piked Gases (ASTM D1946)	Test for Disposal (45-)	DCHC (EPA 1664-6CT)	TPH - Diesel, Extractable (6045m)	MTBE (6280B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes 21°C TEMPERATURE ON RECEIPT °C
	DATE	TIME	MATRIX																						
	INF	5-12	2:45	AQ	4	X	X	X	X																(4) VOAS W/ HCL
	MID 1	↓	2:40	AQ	4	X	X	X	X																(4) VOAS W/ HCL
	MID 2	↓	2:35	AQ	4	X	X	X	X																(4) VOAS W/ HCL
	EFF	↓	2:30	AQ	4	X	X	X	X																(4) VOAS W/ HCL

Retrieved by (Signature): <i>Vartan Hawedadian</i>	Received by (Signature): <i>Secured Location</i>	Date: 5-12-03	Time: 5:00 pm
Retrieved by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 5-13-03	Time: 11:23
Retrieved by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 5/13/03	Time: 17:18

Cambria Environmental Emeryville

June 10, 2003

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Kevin Dolan

Project#: 245-0414

Project: 98995752

Site: 540 Hegenberger Road, Oakland

Dear Mr. Dolan:

Attached is our report for your samples received on 05/28/2003 11:45


This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 07/12/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,



Tod Granicher
Project Manager

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3318 Fax: (510) 420-9170Project: 245-0414
98995752

Received: 05/28/2003 11:45

Site: 540 Hegenberger Road, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
INF	05/27/2003 14:30	Water	1
MID 1	05/27/2003 14:25	Water	2
MID 2	05/27/2003 14:20	Water	3
EFF	05/27/2003 14:15	Water	4

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566
Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/10/2003 12:24

Page 1 of 10

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3318 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 05/28/2003 11:45

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: INF	Lab ID: 2003-05-0759-1
Sampled: 05/27/2003 14:30	Extracted: 6/5/2003 13:37
Matrix: Water	QC Batch#: 2003/06/05-1d.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	10000	ug/L	200.00	06/05/2003 13:37	
Benzene	ND	100	ug/L	200.00	06/05/2003 13:37	
Toluene	ND	100	ug/L	200.00	06/05/2003 13:37	
Ethylbenzene	ND	100	ug/L	200.00	06/05/2003 13:37	
Total xylenes	ND	200	ug/L	200.00	06/05/2003 13:37	
tert-Butyl alcohol (TBA)	1400	1000	ug/L	200.00	06/05/2003 13:37	
Methyl tert-butyl ether (MTBE)	29000	100	ug/L	200.00	06/05/2003 13:37	
Surrogates(s)						
1,2-Dichloroethane-d4	100.7	76-130	%	200.00	06/05/2003 13:37	
Toluene-d8	100.8	78-115	%	200.00	06/05/2003 13:37	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566
Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/10/2003 12:24

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3318 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 05/28/2003 11:45

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MID 1	Lab ID: 2003-05-0759 - 2
Sampled: 05/27/2003 14:25	Extracted: 6/5/2003 13:15
Matrix: Water	QC Batch#: 2003/06/05-1d.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/05/2003 13:15	
Benzene	ND	0.50	ug/L	1.00	06/05/2003 13:15	
Toluene	ND	0.50	ug/L	1.00	06/05/2003 13:15	
Ethylbenzene	ND	0.50	ug/L	1.00	06/05/2003 13:15	
Total xylenes	ND	1.0	ug/L	1.00	06/05/2003 13:15	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	06/05/2003 13:15	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	06/05/2003 13:15	
Surrogates(s)						
1,2-Dichloroethane-d4	96.3	76-130	%	1.00	06/05/2003 13:15	
Toluene-d8	96.1	78-115	%	1.00	06/05/2003 13:15	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3318 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 05/28/2003 11:45

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MID 2	Lab ID: 2003-05-0759 - 3
Sampled: 05/27/2003 14:20	Extracted: 6/4/2003 15:24
Matrix: Water	QC Batch#: 2003/06/04-1d.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/04/2003 15:24	
Benzene	ND	0.50	ug/L	1.00	06/04/2003 15:24	
Toluene	ND	0.50	ug/L	1.00	06/04/2003 15:24	
Ethylbenzene	ND	0.50	ug/L	1.00	06/04/2003 15:24	
Total xylenes	ND	1.0	ug/L	1.00	06/04/2003 15:24	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	06/04/2003 15:24	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	06/04/2003 15:24	
Surrogates(s)						
1,2-Dichloroethane-d4	108.3	76-130	%	1.00	06/04/2003 15:24	
Toluene-d8	99.9	78-115	%	1.00	06/04/2003 15:24	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566
Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/10/2003 12:24

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3318 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 05/28/2003 11:45

Site: 540 Hegenberger Road, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	EFF	Lab ID:	2003-05-0759 - 4
Sampled:	05/27/2003 14:15	Extracted:	6/4/2003 15:46
Matrix:	Water	QC Batch#:	2003/06/04-1d.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/04/2003 15:46	
Benzene	ND	0.50	ug/L	1.00	06/04/2003 15:46	
Toluene	ND	0.50	ug/L	1.00	06/04/2003 15:46	
Ethylbenzene	ND	0.50	ug/L	1.00	06/04/2003 15:46	
Total xylenes	ND	1.0	ug/L	1.00	06/04/2003 15:46	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	06/04/2003 15:46	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	06/04/2003 15:46	
Surrogates(s)						
1,2-Dichloroethane-d4	100.0	76-130	%	1.00	06/04/2003 15:46	
Toluene-d8	99.6	78-115	%	1.00	06/04/2003 15:46	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3318 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 05/28/2003 11:45

Site: 540 Hegenberger Road, Oakland

Batch QC Report		
Prep(s): 5030B		Test(s): 8260FAB
Method Blank	Water	QC Batch # 2003/06/04-1d.65
MB: 2003/06/04-1d.65-001		Date Extracted: 06/04/2003 11:13

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/04/2003 11:13	
Gasoline	ND	50	ug/L	06/04/2003 11:13	
Benzene	ND	0.5	ug/L	06/04/2003 11:13	
Toluene	ND	0.5	ug/L	06/04/2003 11:13	
Ethylbenzene	ND	0.5	ug/L	06/04/2003 11:13	
Total xylenes	ND	1.0	ug/L	06/04/2003 11:13	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	06/04/2003 11:13	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/04/2003 11:13	
Surrogates(s)					
1,2-Dichloroethane-d4	91.2	76-130	%	06/04/2003 11:13	
Toluene-d8	98.3	78-115	%	06/04/2003 11:13	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3318 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 05/28/2003 11:45

Site: 540 Hegenberger Road, Oakland

Batch QC Report					
Prep(s): 5030B				Test(s): 8260FAB	
Method Blank		Water		QC Batch # 2003/06/05-1d.65	
MB: 2003/06/05-1d.65-003				Date Extracted: 06/05/2003 11:18	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/05/2003 11:18	
Benzene	ND	0.5	ug/L	06/05/2003 11:18	
Toluene	ND	0.5	ug/L	06/05/2003 11:18	
Ethylbenzene	ND	0.5	ug/L	06/05/2003 11:18	
Total xylenes	ND	1.0	ug/L	06/05/2003 11:18	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	06/05/2003 11:18	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/05/2003 11:18	
Surrogates(s)					
1,2-Dichloroethane-d4	90.2	76-130	%	06/05/2003 11:18	
Toluene-d8	99.8	78-115	%	06/05/2003 11:18	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3318 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 05/28/2003 11:45

Site: 540 Hegenberger Road, Oakland

Batch QC Report										
Prep(s): 5030B					Test(s): 8260FAB					
Laboratory Control Spike			Water			QC Batch # 2003/06/04-1d.65				
LCS	2003/06/04-1d.65-002		Extracted: 06/04/2003			Analyzed: 06/04/2003 10:29				
LCSD	2003/06/04-1d.65-003		Extracted: 06/04/2003			Analyzed: 06/04/2003 10:51				
Compound	Conc. ug/L		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	25.3	24.8	25	101.2	99.2	2.0	69-129	20		
Toluene	24.7	25.2	25	98.8	100.8	2.0	70-130	20		
Methyl tert-butyl ether (MTBE)	32.3	28.6	25	129.2	114.4	12.2	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	478	437	500	95.6	87.4		76-130			
Toluene-d8	501	497	500	100.2	99.4		78-115			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566
Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/10/2003 12:24

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3318 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 05/28/2003 11:45

Site: 540 Hegenberger Road, Oakland

Batch QC Report					
Prep(s): 5030B			Test(s): 8260FAB		
Laboratory Control Spike		Water		QC Batch # 2003/06/05-1d.65	
LCS	2003/06/05-1d.65-002	Extracted: 06/05/2003		Analyzed: 06/05/2003 10:34	
LCSD	2003/06/05-1d.65-001	Extracted: 06/05/2003		Analyzed: 06/05/2003 10:56	

Compound	Conc. ug/L		Exp. Conc.	Recovery		RPD	Ctrl. Limits %			Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS	LCSD
Benzene	25.5	24.9	25	102.0	99.6	2.4	69-129	20			
Toluene	24.7	25.0	25	98.8	100.0	1.2	70-130	20			
Methyl tert-butyl ether (MTBE)	31.6	29.0	25	126.4	116.0	8.6	65-165	20			
Surrogates(s)											
1,2-Dichloroethane-d4	457	444	500	91.4	88.8		76-130				
Toluene-d8	488	500	500	97.6	100.0		78-115				

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Kevin Dolan

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3318 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 05/28/2003 11:45

Site: 540 Hegenberger Road, Oakland

Batch QC Report			
Prep(s):	5030B	Test(s):	8260FAB
Matrix Spike (MS / MSD)		Water	QC Batch # 2003/06/04-1d.65
Matrix Spike		Lab ID:	2003-05-0759 - 004
MS:	2003/06/04-1d.65-004	Extracted:	06/04/2003
		Analyzed:	06/04/2003 16:08
		Dilution:	1.00
MSD:	2003/06/04-1d.65-005	Extracted:	06/04/2003
		Analyzed:	06/04/2003 16:31
		Dilution:	1.00

Compound	Conc. ug/L		Spk Level	Recovery			Limits %		Flags		
	MS	MSD		Sample	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	25.3	25.1	ND	25	101.2	100.4	0.8	69-129	20		
Toluene	25.5	24.7	ND	25	102.0	98.8	3.2	70-130	20		
Methyl tert-butyl ether	32.7	31.9	ND	25	130.8	127.6	2.5	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	474	496		500	94.8	99.2		76-130			
Toluene-d8	505	501		500	101.0	100.2		78-115			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/10/2003 12:24

Address: 1720 Quarry Lane

City, State, Zip: Fremont, CA, 94506
 PH: (925) 484-1819
 FX: (925) 484-1099

Shell Project Manager to be invoiced:

SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 CRMT HOUSTON

KAREN PETRYNA

2003-05-0759

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 5 2

SAP or CRMT NUMBER (ITS/CRMT)

DATE 5-27-03

PAGE 1 of 1

SAMPLING COMPANY: CAMERA ENVIRONMENTAL TECH.		LOG CODE: CE10	SITE ADDRESS (Street and City): 540 Hegenberger Road, Oakland, CA		GLOBAL ID NO.:																					
ADDRESS: 5900 HOLLIS STREET, EMERYVILLE, CA - 94808		EPA DELIVERABLE CO (Preparation Fee/Duplicate)		PHONE NO.:	CONSULTANT PROJECT NO.:																					
PROJECT CONTACT (Name/Title/Phone/Fax/Email): KEVIN DOLAN		SAMPLER NAME(S) (P/N): URBAN HOEDANIAN		LAB USE ONLY:																						
TELEPHONE: (510) 420-3318	FAX: (510) 420-6170	EMAIL: KDOLAN@CAMERA-ENV.COM		245-0414																						
TURNAROUND TIME (BUSINESS DAYS): <input checked="" type="checkbox"/> 10 DAYS <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS		REQUESTED ANALYSIS																								
<input type="checkbox"/> LA - RWQS REPORT FORMAT <input type="checkbox"/> UST AGENCY:		FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes 3.02																								
GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____		SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED <input type="checkbox"/>																								
FLOW TOTAL = 45085.0		TEMPERATURE ON RECEIPT (C)																								
LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	NO. OF CPNT.	TPH - Gas, Purgeable		MTBE (EPA 821B - 5ppb RL)	MTBE (EPA 821B - 5ppb RL)	TBA (EPA 821B)	Oxygenates (5) by (EPA 821B)	Methanol	EDB & 1,2-DCA (EPA 821B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (EPA 821B)	TPH (EPA 821B)	Vapor VOCs (EPA 821B)	VOCs Full List (EPA 821B)	Vapor TPH (ASTM D1846)	Vapor Field Gases - (ASTM D1846)	Test for Disposal (4B)	GC/MS (EPA 821B)	TPH - Diesel, Extractable (EPA 821B)	MTBE (EPA 821B) Confirmation, See Note	
	DATE	TIME	TPH	BTEX																						
	INF	5-27	2:30	AQ	4	X	X	X	X																	(4) VOAS W/ HCL
	MID 1	↓	2:35	AQ	4	X	X	X	X																	(4) VOAS W/ HCL
	MID 2	↓	2:30	AQ	4	X	X	X	X																	(4) VOAS W/ HCL
	EFF	↓	2:15	AQ	4	X	X	X	X																	(4) VOAS W/ HCL
Witnessed by (Signature): <i>Urtan Hoedanian</i>		Received by (Signature): <i>Secured Location</i>		Date:	5-27-03		Time:	4:00 pm																		
Witnessed by (Signature): <i>[Signature]</i>		Received by (Signature): <i>[Signature]</i>		Date:	5/28/03		Time:	1145																		
Requested by (Signature): <i>[Signature]</i>		Received by (Signature): <i>[Signature]</i>		Date:	5/28/03		Time:	1458																		

Cambria Environmental Emeryville

June 23, 2003

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Erick Ziekler

Project#: 245-0414

Project: 98995752

Site: 540 Hegenberger Road, Oakland

Attached is our report for your samples received on 06/10/2003 11:36


This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 07/25/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,



Tod Granicher
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Erick Ziekler

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 06/10/2003 11:36

Site: 540 Hegenberger Road, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
INF	06/09/2003 02:45	Water	1
MID 1	06/09/2003 02:40	Water	2
MID 2	06/09/2003 02:35	Water	3
EFF	06/09/2003 02:30	Water	4

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Erick Ziekler

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Emeryville, CA 94608
Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 06/10/2003 11:36

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: INF	Lab ID: 2003-06-0326 - 1
Sampled: 06/09/2003 02:45	Extracted: 6/22/2003 10:28
Matrix: Water	QC Batch#: 2003/06/22-1e.64
Analysis Flag: 0 (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	25000	ug/L	500.00	06/22/2003 10:28	
Benzene	ND	250	ug/L	500.00	06/22/2003 10:28	
Toluene	ND	250	ug/L	500.00	06/22/2003 10:28	
Ethylbenzene	ND	250	ug/L	500.00	06/22/2003 10:28	
Total xylenes	ND	500	ug/L	500.00	06/22/2003 10:28	
tert-Butyl alcohol (TBA)	4000	2500	ug/L	500.00	06/22/2003 10:28	
Methyl tert-butyl ether (MTBE)	20000	250	ug/L	500.00	06/22/2003 10:28	
Surrogates(s)						
1,2-Dichloroethane-d4	101.3	76-130	%	500.00	06/22/2003 10:28	
Toluene-d8	100.1	78-115	%	500.00	06/22/2003 10:28	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 06/10/2003 11:36

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MID 1	Lab ID: 2003-06-0326 - 2
Sampled: 06/09/2003 02:40	Extracted: 6/20/2003 18:53
Matrix: Water	QC Batch#: 2003/06/20-1d-62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/20/2003 18:53	
Benzene	ND	0.50	ug/L	1.00	06/20/2003 18:53	
Toluene	ND	0.50	ug/L	1.00	06/20/2003 18:53	
Ethylbenzene	ND	0.50	ug/L	1.00	06/20/2003 18:53	
Total xylenes	ND	1.0	ug/L	1.00	06/20/2003 18:53	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	06/20/2003 18:53	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	06/20/2003 18:53	
Surrogates(s)						
1,2-Dichloroethane-d4	88.3	76-130	%	1.00	06/20/2003 18:53	
Toluene-d8	99.1	78-115	%	1.00	06/20/2003 18:53	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 06/10/2003 11:36

Site: 540 Hegenberger Road, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MID 2	Lab ID:	2003-06-0326-3
Sampled:	06/09/2003 02:35	Extracted:	6/20/2003 19:15
Matrix:	Water	QC Batch#:	2003/06/20-1d.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/20/2003 19:15	
Benzene	ND	0.50	ug/L	1.00	06/20/2003 19:15	
Toluene	ND	0.50	ug/L	1.00	06/20/2003 19:15	
Ethylbenzene	ND	0.50	ug/L	1.00	06/20/2003 19:15	
Total xylenes	ND	1.0	ug/L	1.00	06/20/2003 19:15	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	06/20/2003 19:15	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	06/20/2003 19:15	
Surrogates(s)						
1,2-Dichloroethane-d4	93.2	76-130	%	1.00	06/20/2003 19:15	
Toluene-d8	96.2	78-115	%	1.00	06/20/2003 19:15	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Erick Ziekler

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Emeryville, CA 94608

Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 06/10/2003 11:36

Site: 540 Hegenberger Road, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	EFF	Lab ID:	2003-06-0326 - 4
Sampled:	06/09/2003 02:30	Extracted:	6/20/2003 20:44
Matrix:	Water	QC Batch#:	2003/06/20-2b 62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	06/20/2003 20:44	
Benzene	ND	0.50	ug/L	1.00	06/20/2003 20:44	
Toluene	ND	0.50	ug/L	1.00	06/20/2003 20:44	
Ethylbenzene	ND	0.50	ug/L	1.00	06/20/2003 20:44	
Total xylenes	ND	1.0	ug/L	1.00	06/20/2003 20:44	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	06/20/2003 20:44	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	06/20/2003 20:44	
Surrogates(s)						
1,2-Dichloroethane-d4	93.6	76-130	%	1.00	06/20/2003 20:44	
Toluene-d8	102.8	78-115	%	1.00	06/20/2003 20:44	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 06/10/2003 11:36

Site: 540 Hegenberger Road, Oakland

Batch QC Report		
Prep(s): 5030B		Test(s): 8260FAB
Method Blank	Water	QC Batch # 2003/06/20-1d.62
MB: 2003/06/20-1d.62-049		Date Extracted: 06/20/2003 10:00

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/20/2003 10:00	
Benzene	ND	0.5	ug/L	06/20/2003 10:00	
Toluene	ND	0.5	ug/L	06/20/2003 10:00	
Ethylbenzene	ND	0.5	ug/L	06/20/2003 10:00	
Total xylenes	ND	1.0	ug/L	06/20/2003 10:00	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	06/20/2003 10:00	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/20/2003 10:00	
Surrogates(s)					
1,2-Dichloroethane-d4	96.6	76-130	%	06/20/2003 10:00	
Toluene-d8	100.0	78-115	%	06/20/2003 10:00	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Erick Ziekler

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Emeryville, CA 94608
Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 06/10/2003 11:36

Site: 540 Hegenberger Road, Oakland

Batch QC Report					
Prep(s): 5030B				Test(s): 8260FAB	
Method Blank		Water		QC Batch # 2003/06/20-2b.62	
MB: 2003/06/20-2b.62-022				Date Extracted: 06/20/2003 20:22	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/20/2003 20:22	
Gasoline	ND	50	ug/L	06/20/2003 20:22	
Benzene	ND	0.5	ug/L	06/20/2003 20:22	
Toluene	ND	0.5	ug/L	06/20/2003 20:22	
Ethylbenzene	ND	0.5	ug/L	06/20/2003 20:22	
Total xylenes	ND	1.0	ug/L	06/20/2003 20:22	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	06/20/2003 20:22	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/20/2003 20:22	
Surrogates(s)					
1,2-Dichloroethane-d4	97.0	76-130	%	06/20/2003 20:22	
Toluene-d8	99.9	78-115	%	06/20/2003 20:22	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 06/10/2003 11:36

Site: 540 Hegenberger Road, Oakland

Batch QC Report					
Prep(s): 5030B				Test(s): 8260FAB	
Method Blank		Water		QC Batch # 2003/06/22-1e.64	
MB: 2003/06/22-1e.64-043				Date Extracted: 06/22/2003 10:06	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	06/22/2003 10:06	
Benzene	ND	0.5	ug/L	06/22/2003 10:06	
Toluene	ND	0.5	ug/L	06/22/2003 10:06	
Ethylbenzene	ND	0.5	ug/L	06/22/2003 10:06	
Total xylenes	ND	1.0	ug/L	06/22/2003 10:06	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	06/22/2003 10:06	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	06/22/2003 10:06	
Surrogates(s)					
1,2-Dichloroethane-d4	103.6	76-130	%	06/22/2003 10:06	
Toluene-d8	101.2	78-115	%	06/22/2003 10:06	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 245-0414

98995752

Received: 06/10/2003 11:36

Site: 540 Hegenberger Road, Oakland

Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike				Water			QC Batch # 2003/06/20-1d.62			
LCS	2003/06/20-1d.62-047			Extracted: 06/20/2003			Analyzed: 06/20/2003 09:16			
LCSD	2003/06/20-1d.62-048			Extracted: 06/20/2003			Analyzed: 06/20/2003 09:38			
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	23.5	25.1	25	94.0	100.4	6.6	69-129	20		
Toluene	23.6	24.5	25	94.4	98.0	3.7	70-130	20		
Methyl tert-butyl ether (MTBE)	26.5	25.3	25	106.0	101.2	4.6	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	478	459	500	95.6	91.8		76-130			
Toluene-d8	488	509	500	97.6	101.8		78-115			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/23/2003 16:21

Page 9 of 12

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Erick Ziekler

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 06/10/2003 11:36

Site: 540 Hegenberger Road, Oakland

Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike				Water			QC Batch # 2003/06/20-2b.62			
LCS	2003/06/20-2b.62-037			Extracted: 06/20/2003			Analyzed: 06/20/2003 19:37			
LCSD	2003/06/20-2b.62-059			Extracted: 06/20/2003			Analyzed: 06/20/2003 19:59			
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	24.8	24.8	25	99.2	99.2	0.0	69-129	20		
Toluene	24.3	24.2	25	97.2	96.8	0.4	70-130	20		
Methyl tert-butyl ether (MTBE)	24.0	27.9	25	96.0	111.6	15.0	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	458	509	500	91.6	101.8		76-130			
Toluene-d8	498	509	500	99.6	101.8		78-115			

Severn Trent Laboratories, Inc.

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06/23/2003 16:21

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Erick Ziekler

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Emeryville, CA 94608
Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 06/10/2003 11:36

Site: 540 Hegenberger Road, Oakland

Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike				Water			QC Batch # 2003/06/22-1e.64			
LCS	2003/06/22-1e.64-042			Extracted: 06/22/2003			Analyzed: 06/22/2003 09:22			
LCSD	2003/06/22-1e.64-001			Extracted: 06/22/2003			Analyzed: 06/22/2003 09:44			
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	23.7	23.7	25	94.8	94.8	0.0	69-129	20		
Toluene	24.1	24.3	25	96.4	97.2	0.8	70-130	20		
Methyl tert-butyl ether (MTBE)	28.5	27.1	25	114.0	108.4	5.0	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	524	520	500	104.8	104.0		76-130			
Toluene-d8	489	512	500	97.8	102.4		78-115			

Sewern Trent Laboratories, Inc.

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06/23/2003 16:21

Page 11 of 12

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Project: 245-0414

98995752

Received: 06/10/2003 11:36

Site: 540 Hegenberger Road, Oakland

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

06/23/2003 16:21

Address: 1229 Quarry Lane

City, State, Zip: Pleasanton, CA, 94566
 Ph: (925) 484-1515
 FX: (925) 484-1098

Shell Project Manager to be involved:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- OPERATIONS

KAREN PETRYNA

2003-06-0326

INCIDENT NUMBER (SEE ONLY)

9 8 9 9 5 7 5 2

SAP or CRAT NUMBER (TS/CRMT)

DATE: 6-9-03

PAGE: 1 of 1

SAMPLING COMPANY: CAMBRIA ENVIRONMENTAL TECH.		LOG CODE: CETO	SITE ADDRESS (Street and City): 540 Hegenberger Road, Oakland, CA		GLOBAL ID NO.:
ADDRESS: 6900 HOLLIS STREET, EMERYVILLE, CA - 94608		EPA DELIVERABLE TO (Not Applicable Party or Design):		PHONE NO.:	CONSULTANT PROJECT NO.:
PROJECT CONTACT (Name, Title or POC Report to): ERIC ZICKLER		SAMPLER NUMBER (PW-): 0ARTAN HANEDAVIAN		EMAIL:	245-0414
TELEPHONE: 510-420-3308	FAX: (510)420-9170	EMAIL: EZICKLER@CAMBRIA-ENVY.COM		LAB USE ONLY	

TURNAROUND TIME (BUSINESS DAYS)
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - RWQCB REPORT FORMAT UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED

FLOW TOTAL = 58453.0

LAB USE ONLY	Field Sample Identification				REQUESTED ANALYSIS														FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes						
	DATE	TIME	MATRIX	NO. OF CONT.	TPH - Oils - Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	TBA (8150B)	Oxybenzates (5) by (8260B)	Methanol	EDB & 1,2-DCA (8150B)	EPA 504E Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (70-15)	VOCs - Full List (8260B)	Vapor TPH (ASTM 3415m)		Vapor Pixed Gases (ASTM D1356)	Test for Disposal (48-)	padc (EPA 1631-507)	TPH - Diesel, Extractable (8015m)	MTBE (8260E) Confirmation; See Note	TEMPERATURE ON RECEIPT C°
	6-9	2:45	AQ	4	X	X	X	X																	(4) VOAS W/ HCL
		2:40	AQ	4	X	X	X	X																	(4) VOAS W/ HCL
		2:35	AQ	4	X	X	X	X																	(4) VOAS W/ HCL
		1:30	AQ	4	X	X	X	X																	(4) VOAS W/ HCL

Requested by: (Signature) <i>Artan Hanedavian</i>	Received by: (Signature) <i>Ground Location</i>	Date: 6-9-03	Time: 3:45 pm.
Requested by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 6/10/03	Time: 11:36
Requested by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 6/10/03	Time: 1814

Cambria Environmental Emeryville

September 10, 2003

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Cynthia Vasko

Project#: 245-0414-003

Project: 98995752

Site: 540 Hegenberger Road, Oakland

Dear Ms. Vasko:

Attached is our report for your samples received on 08/19/2003 15:30

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 10/03/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,



Tod Granicher
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414-003

98995752

Received: 08/19/2003 15:30

Site: 540 Hegenberger Road, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
INF	08/19/2003 10:15	Water	1
MID 1	08/19/2003 10:10	Water	2
MID 2	08/19/2003 10:05	Water	3
EFF	08/19/2003 10:00	Water	4

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414-003
98995752

Received: 08/19/2003 15:30

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B Test(s): 8260FAB
Sample ID: INF Lab ID: 2003-08-0588 - 1
Sampled: 08/19/2003 10:15 Extracted: 8/29/2003 23:01
Matrix: Water QC Batch#: 2003/08/29-2A.65
Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	10000	ug/L	200.00	08/29/2003 23:01	
Benzene	ND	100	ug/L	200.00	08/29/2003 23:01	
Toluene	ND	100	ug/L	200.00	08/29/2003 23:01	
Ethylbenzene	ND	100	ug/L	200.00	08/29/2003 23:01	
Total xylenes	ND	200	ug/L	200.00	08/29/2003 23:01	
Methyl tert-butyl ether (MTBE)	13000	1000	ug/L	200.00	08/29/2003 23:01	
Surrogate(s)						
1,2-Dichloroethane-d4	95.2	76-130	%	200.00	08/29/2003 23:01	
Toluene-d8	101.5	78-115	%	200.00	08/29/2003 23:01	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414-003

98995752

Received: 08/19/2003 15:30

Site: 540 Hegenberger Road, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MID 1	Lab ID:	2003-08-0588 - 2
Sampled:	08/19/2003 10:10	Extracted:	8/29/2003 23:23
Matrix:	Water	QC Batch#:	2003/08/29-2A.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/29/2003 23:23	
Benzene	ND	0.50	ug/L	1.00	08/29/2003 23:23	
Toluene	ND	0.50	ug/L	1.00	08/29/2003 23:23	
Ethylbenzene	ND	0.50	ug/L	1.00	08/29/2003 23:23	
Total xylenes	ND	1.0	ug/L	1.00	08/29/2003 23:23	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	08/29/2003 23:23	
Surrogate(s)						
1,2-Dichloroethane-d4	91.1	76-130	%	1.00	08/29/2003 23:23	
Toluene-d8	102.5	78-115	%	1.00	08/29/2003 23:23	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/10/2003 09:30

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414-003
98995752

Received: 08/19/2003 15:30

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B Test(s): 8260FAB
Sample ID: **MID 2** Lab ID: 2003-08-0588 - 3
Sampled: 08/19/2003 10:05 Extracted: 8/29/2003 23:45
Matrix: Water QC Batch#: 2003/08/29-2A.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/29/2003 23:45	
Benzene	ND	0.50	ug/L	1.00	08/29/2003 23:45	
Toluene	ND	0.50	ug/L	1.00	08/29/2003 23:45	
Ethylbenzene	ND	0.50	ug/L	1.00	08/29/2003 23:45	
Total xylenes	ND	1.0	ug/L	1.00	08/29/2003 23:45	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	08/29/2003 23:45	
Surrogate(s)						
1,2-Dichloroethane-d4	93.2	76-130	%	1.00	08/29/2003 23:45	
Toluene-d8	103.0	78-115	%	1.00	08/29/2003 23:45	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414-003

98995752

Received: 08/19/2003 15:30

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: EFF	Lab ID: 2003-08-0588 - 4
Sampled: 08/19/2003 10:00	Extracted: 8/30/2003 00:08
Matrix: Water	QC Batch#: 2003/08/29-2A.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/30/2003 00:08	
Benzene	ND	0.50	ug/L	1.00	08/30/2003 00:08	
Toluene	ND	0.50	ug/L	1.00	08/30/2003 00:08	
Ethylbenzene	ND	0.50	ug/L	1.00	08/30/2003 00:08	
Total xylenes	ND	1.0	ug/L	1.00	08/30/2003 00:08	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	08/30/2003 00:08	
Surrogate(s)						
1,2-Dichloroethane-d4	99.4	76-130	%	1.00	08/30/2003 00:08	
Toluene-d8	104.2	78-115	%	1.00	08/30/2003 00:08	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Project: 245-0414-003
98995752

Received: 08/19/2003 15:30

Site: 540 Hegenberger Road, Oakland

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2003/08/29-2A.65-016

Water

Test(s): 8260FAB

QC Batch # 2003/08/29-2A.65

Date Extracted: 08/29/2003 22:16

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	08/29/2003 22:16	
Benzene	ND	0.5	ug/L	08/29/2003 22:16	
Toluene	ND	0.5	ug/L	08/29/2003 22:16	
Ethylbenzene	ND	0.5	ug/L	08/29/2003 22:16	
Total xylenes	ND	1.0	ug/L	08/29/2003 22:16	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	08/29/2003 22:16	
Surrogates(s)					
1,2-Dichloroethane-d4	88.0	76-130	%	08/29/2003 22:16	
Toluene-d8	101.3	78-115	%	08/29/2003 22:16	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414-003
98995752

Received: 08/19/2003 15:30

Site: 540 Hegenberger Road, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2003/08/29-2A.65

LCS 2003/08/29-2A.65-031

Extracted: 08/29/2003

Analyzed: 08/29/2003 21:31

LCSD 2003/08/29-2A.65-054

Extracted: 08/29/2003

Analyzed: 08/29/2003 21:54

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	25.4	25.8	25	101.6	103.2	1.6	69-129	20		
Toluene	26.1	26.1	25	104.4	104.4	0.0	70-130	20		
Methyl tert-butyl ether (MTBE)	22.4	21.6	25	89.6	86.4	3.6	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	458	445	500	91.6	89.0		76-130			
Toluene-d8	528	524	500	105.6	104.8		78-115			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/10/2003 09:30

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414-003

98995752

Received: 08/19/2003 15:30

Site: 540 Hegenberger Road, Oakland

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

STL San Francisco

Sample Receipt Checklist

Submission #: 2003- 08 - 0588

Checklist completed by: (Initials) CR Date: 08 20 /03

Courier name: STL San Francisco Client _____

Custody seals intact on shipping container/samples Yes _____ No _____ Not Present

Chain of custody present? Yes No _____

Chain of custody signed when relinquished and received? Yes No _____

Chain of custody agrees with sample labels? Yes No _____

Samples in proper container/bottle? Yes No _____

Sample containers intact? Yes No _____

Sufficient sample volume for indicated test? Yes No _____

All samples received within holding time? Yes No _____

Container/Temp Blank temperature in compliance ($4^{\circ}C \pm 2$)? Temp 2.8 °C Yes No _____

Ice Present Yes No _____

Water - VOA vials have zero headspace? No VOA vials submitted _____ Yes No _____

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small - O), M (medium - O) or L (large - O)

Water - pH acceptable upon receipt? Yes No

pH adjusted- Preservative used: HNO₃ HCl H₂SO₄ NaOH ZnOAc - Lot #(s) _____

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments: _____

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (Initials) _____ Date: _____ / _____ /03

Client contacted: Yes No

Summary of discussion: _____

Corrective Action (per PM/Client): _____

2003-08-0588

SHELL Chain Of Custody Record

77103

STL-San Francisco

1220 Quarry Lane
Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

Shell Project Manager to be Invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Kiron Polyma

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 5 2

DATE: 8-19-03

SAP or CRMT NUMBER (TS/CRMT)

PAGE: 1 of 1

SAMPLING COMPANY: Cambridge Environmental Technology, Inc.	LOG CODE: CETS	SITE ADDRESS (Street and City): 540 Hegenberger Road, Oakland, CA	GLOBAL ID NO.: N/A
--	--------------------------	---	------------------------------

ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608	FOR DELIVERABLE TO (Responsible Party of Damages): N/A	PHONE NO.: N/A	INSURANCE PROJECT NO.: 245-0414-003
--	--	--------------------------	---

PROJECT CONTACT (Name and/or POC, Report to): Cynthia Vasko	SAMPLE NUMBER (P/N): VARJAN HANEDANIAN	LAB USE ONLY:
---	--	---------------

TURNAROUND TIME (BUSINESS DAYS): <input checked="" type="checkbox"/> 20 DAYS <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS	REQUESTED ANALYSIS
---	---------------------------

<input type="checkbox"/> LA - RVOCR REPORT FORMAT <input type="checkbox"/> LIST AGENCY: _____ GCMS MFLB CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____ SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF BLD IS NOT NEEDED <input checked="" type="checkbox"/> Flow Totalizer: <u>114245.0</u> Hour Meter: <u>2473.4</u>	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <tr> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH - Purgeable</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH - Extractable (801bm)</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">MTBE (5 ppb DL)</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">TBA</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">5 Oxygenates</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">1,1 DCA and EDB</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Ethanol</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Methanol</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">VOCs by 4260B</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Semi-Volatiles by 8270C</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Lead + Total <input type="checkbox"/> SLC <input type="checkbox"/> TSP</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">LUFTS <input type="checkbox"/> Total <input type="checkbox"/> SLC <input type="checkbox"/> TSP</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">CAM17 <input type="checkbox"/> Total <input type="checkbox"/> SLC <input type="checkbox"/> TSP</th> <th style="writing-mode: vertical-rl; transform: rotate(180deg);">Test for Disposal</th> </tr> </table>	TPH - Purgeable	TPH - Extractable (801bm)	BTEX	MTBE (5 ppb DL)	TBA	5 Oxygenates	1,1 DCA and EDB	Ethanol	Methanol	VOCs by 4260B	Semi-Volatiles by 8270C	Lead + Total <input type="checkbox"/> SLC <input type="checkbox"/> TSP	LUFTS <input type="checkbox"/> Total <input type="checkbox"/> SLC <input type="checkbox"/> TSP	CAM17 <input type="checkbox"/> Total <input type="checkbox"/> SLC <input type="checkbox"/> TSP	Test for Disposal	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes <u>2.8</u> TEMPERATURE ON RECEIPT °C
TPH - Purgeable	TPH - Extractable (801bm)	BTEX	MTBE (5 ppb DL)	TBA	5 Oxygenates	1,1 DCA and EDB	Ethanol	Methanol	VOCs by 4260B	Semi-Volatiles by 8270C	Lead + Total <input type="checkbox"/> SLC <input type="checkbox"/> TSP	LUFTS <input type="checkbox"/> Total <input type="checkbox"/> SLC <input type="checkbox"/> TSP	CAM17 <input type="checkbox"/> Total <input type="checkbox"/> SLC <input type="checkbox"/> TSP	Test for Disposal			

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (801bm)	BTEX	MTBE (5 ppb DL)	TBA	5 Oxygenates	1,1 DCA and EDB	Ethanol	Methanol	VOCs by 4260B	Semi-Volatiles by 8270C	Lead + Total <input type="checkbox"/> SLC <input type="checkbox"/> TSP	LUFTS <input type="checkbox"/> Total <input type="checkbox"/> SLC <input type="checkbox"/> TSP	CAM17 <input type="checkbox"/> Total <input type="checkbox"/> SLC <input type="checkbox"/> TSP	Test for Disposal	TEMPERATURE ON RECEIPT °C	
		DATE	TIME																			
	INF	8-19	10:15	AQ	5	X		X	X													VOAs w/HCI
	MID 1		10:10	AQ	5	X		X	X													VOAs w/HCI
	MID 2		10:05	AQ	5	X		X	X													VOAs w/HCI
	EFF		10:00	AQ	5	X		X	X													VOAs w/HCI

Noted by: (Signature) <i>Varjan Hanedanian</i>	Retrieved by: (Signature) <i>Secured Location</i>	Date: <u>8-19-03</u>	Time: <u>12:00 PM</u>
Noted by: (Signature) <i>[Signature]</i>	Retrieved by: (Signature) <i>[Signature]</i>	Date: <u>8/19/03</u>	Time: <u>1530</u>
Noted by: (Signature) <i>[Signature]</i>	Retrieved by: (Signature) <i>[Signature]</i>	Date: <u>8/19/03</u>	Time: <u>1745</u>

C&G Group (714) 938-0102

Cambria Environmental Emeryville

August 19, 2003

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Cynthia Vasko

Project#: 245-0414

Project: 98995752

Site: 540 Hegenberger Road, Oakland

Dear Ms. Vasko:

Attached is our report for your samples received on 08/05/2003 15:20

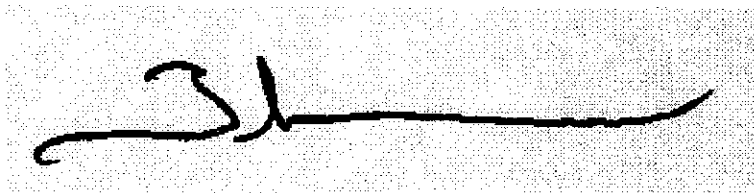
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 09/19/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,



Tod Granicher
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 08/05/2003 15:20

Site: 540 Hegenberger Road, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
INF	08/05/2003 10:45	Water	1
MID 1	08/05/2003 10:40	Water	2
MID 2	08/05/2003 10:35	Water	3
EFF	08/05/2003 10:30	Water	4

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

08/18/2003 15:27

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 08/05/2003 15:20

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: INF	Lab ID: 2003-08-0117 - 1
Sampled: 08/05/2003 10:45	Extracted: 8/16/2003 00:09
Matrix: Water	QC Batch#: 2003/08/15-2A.65
Analysis Flag: o (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	5000	ug/L	100.00	08/16/2003 00:09	
Benzene	ND	50	ug/L	100.00	08/16/2003 00:09	
Toluene	ND	50	ug/L	100.00	08/16/2003 00:09	
Ethylbenzene	ND	50	ug/L	100.00	08/16/2003 00:09	
Total xylenes	ND	100	ug/L	100.00	08/16/2003 00:09	
Methyl tert-butyl ether (MTBE)	11000	500	ug/L	100.00	08/16/2003 00:09	
Surrogates(s)						
1,2-Dichloroethane-d4	100.8	76-130	%	100.00	08/16/2003 00:09	
Toluene-d8	102.3	78-115	%	100.00	08/16/2003 00:09	

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

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Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 08/05/2003 15:20

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MID 1	Lab ID: 2003-08-0117 - 2
Sampled: 08/05/2003 10:40	Extracted: 8/16/2003 00:31
Matrix: Water	QC Batch#: 2003/08/15-2A.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/16/2003 00:31	
Benzene	ND	0.50	ug/L	1.00	08/16/2003 00:31	
Toluene	ND	0.50	ug/L	1.00	08/16/2003 00:31	
Ethylbenzene	ND	0.50	ug/L	1.00	08/16/2003 00:31	
Total xylenes	ND	1.0	ug/L	1.00	08/16/2003 00:31	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	08/16/2003 00:31	
Surrogates(s)						
1,2-Dichloroethane-d4	91.8	76-130	%	1.00	08/16/2003 00:31	
Toluene-d8	107.0	78-115	%	1.00	08/16/2003 00:31	

Gas/BTEX/MTBE by 8260B (C6-C12)

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Project: 245-0414
98995752

Received: 08/05/2003 15:20

Site: 540 Hegenberger Road, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MID 2	Lab ID:	2003-08-0117 - 3
Sampled:	08/05/2003 10:35	Extracted:	8/16/2003 00:54
Matrix:	Water	QC Batch#:	2003/08/15-2A.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/16/2003 00:54	
Benzene	ND	0.50	ug/L	1.00	08/16/2003 00:54	
Toluene	ND	0.50	ug/L	1.00	08/16/2003 00:54	
Ethylbenzene	ND	0.50	ug/L	1.00	08/16/2003 00:54	
Total xylenes	ND	1.0	ug/L	1.00	08/16/2003 00:54	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	08/16/2003 00:54	
Surrogates(s)						
1,2-Dichloroethane-d4	96.7	76-130	%	1.00	08/16/2003 00:54	
Toluene-d8	104.4	78-115	%	1.00	08/16/2003 00:54	

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08/18/2003 15:27

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Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 08/05/2003 15:20

Site: 540 Hegenberger Road, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	EFF	Lab ID:	2003-08-0117 - 4
Sampled:	08/05/2003 10:30	Extracted:	8/16/2003 01:16
Matrix:	Water	QC Batch#:	2003/08/15-2A.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/16/2003 01:16	
Benzene	ND	0.50	ug/L	1.00	08/16/2003 01:16	
Toluene	ND	0.50	ug/L	1.00	08/16/2003 01:16	
Ethylbenzene	ND	0.50	ug/L	1.00	08/16/2003 01:16	
Total xylenes	ND	1.0	ug/L	1.00	08/16/2003 01:16	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	1.00	08/16/2003 01:16	
Surrogates(s)						
1,2-Dichloroethane-d4	93.8	76-130	%	1.00	08/16/2003 01:16	
Toluene-d8	105.1	78-115	%	1.00	08/16/2003 01:16	

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98995752

Received: 08/05/2003 15:20

Site: 540 Hegenberger Road, Oakland

Batch QC Report					
Prep(s): 5030B				Test(s): 8260FAB	
Method Blank		Water		QC Batch # 2003/08/15-2A.65	
MB: 2003/08/15-2A.65-032				Date Extracted: 08/15/2003 21:32	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	08/15/2003 21:32	
Benzene	ND	0.5	ug/L	08/15/2003 21:32	
Toluene	ND	0.5	ug/L	08/15/2003 21:32	
Ethylbenzene	ND	0.5	ug/L	08/15/2003 21:32	
Total xylenes	ND	1.0	ug/L	08/15/2003 21:32	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	08/15/2003 21:32	
Surrogates(s)					
1,2-Dichloroethane-d4	87.2	76-130	%	08/15/2003 21:32	
Toluene-d8	103.7	78-115	%	08/15/2003 21:32	

Gas/BTEX/MTBE by 8260B (C6-C12)

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Project: 245-0414
98995752

Received: 08/05/2003 15:20

Site: 540 Hegenberger Road, Oakland

Batch QC Report										
Prep(s): 5030B					Test(s): 8260FAB					
Laboratory Control Spike			Water			QC Batch # 2003/08/15-2A.65				
LCS	2003/08/15-2A.65-047		Extracted: 08/15/2003			Analyzed: 08/15/2003 20:49				
LCSD	2003/08/15-2A.65-009		Extracted: 08/15/2003			Analyzed: 08/15/2003 21:09				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	26.7	32.0	25	106.8	128.0	18.1	69-129	20		
Toluene	26.3	31.0	25	105.2	124.0	16.4	70-130	20		
Methyl tert-butyl ether (MTBE)	21.5	24.3	25	86.0	97.2	12.2	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	457	444	500	91.4	88.8		76-130			
Toluene-d8	504	532	500	100.8	106.4		78-115			

Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 08/05/2003 15:20

Site: 540 Hegenberger Road, Oakland

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

08/18/2003 15:27

Oil & Grease (Petroleum) by EPA 1664

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 08/05/2003 15:20

Site: 540 Hegenberger Road, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
EFF	08/05/2003 10:30	Water	4

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

08/19/2003 12:11

Oil & Grease (Petroleum) by EPA 1664

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 08/05/2003 15:20

Site: 540 Hegenberger Road, Oakland

Prep(s): 1664	Test(s): 1664
Sample ID: EFF	Lab ID: 2003-08-0117 - 4
Sampled: 08/05/2003 10:30	Extracted: 8/18/2003 00:00
Matrix: Water	QC Batch#: 2003/08/18-01.23

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Oil and Grease (Petroleum)	ND	1.0	mg/L	1.00	08/18/2003	

Oil & Grease (Petroleum) by EPA 1664

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

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Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 08/05/2003 15:20

Site: 540 Hegenberger Road, Oakland

Batch QC Report					
Prep(s): 1664		Water		Test(s): 1664	
Method Blank				QC Batch # 2003/08/18-01.23	
MB: 2003/08/18-01.23-001				Date Extracted: 08/18/2003	
Compound	Conc.	RL	Unit	Analyzed	Flag
Oil & Grease (total)	ND	1	mg/L	08/18/2003	

Oil & Grease (Petroleum) by EPA 1664

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

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Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 08/05/2003 15:20

Site: 540 Hegenberger Road, Oakland

Batch QC Report										
Prep(s): 1664						Test(s): 1664				
Laboratory Control Spike				Water			QC Batch # 2003/08/18-01-23			
LCS	2003/08/18-01-23-002			Extracted: 08/18/2003			Analyzed: 08/18/2003			
LCSD	2003/08/18-01-23-003			Extracted: 08/18/2003			Analyzed: 08/18/2003			
Compound	Conc. mg/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Oil and Grease (Petroleum)	16.6	16.9	20.0	83.0	84.5	1.8	66-114	24		

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

08/19/2003 12:11

Address: 1220 Quarry Lane

City, State, Zip: Pleasanton, CA, 94566
 ph: (925) 484-1919
 fx: (925) 484-1096

Shell Project Manager to be invoiced:

SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 CITY HOUSING

KAREN PETRYNA

INCIDENT NUMBER (9&E ONLY)

9 8 9 9 5 7 5 2

DATE: 8-5-03

SAP or CRMT NUMBER (ITS/CRMT)

PAGE: 1 of 1

SAMPLING COMPANY: CAMBRIA ENVIRONMENTAL TECH. LOG CODE: CETO SITE ADDRESS (Street and City): 540 Hegenberger Road, Oakland, CA GLOBAL ID NO.

ADDRESS: 5900 HOLLIS STREET, EMERYVILLE, CA - 94609 RDP (DELEGABLE TO Responsible Party or Designee): PHONE NO: EMAIL: CONSULTANT PROJECT NO: 245-0414

PROJECT CONTACT (Person or POC Name): Cynthia Decker SAMPLER NAME(S) (Perk): VARTAN HANEDARIAN LAB USE ONLY

TELEPHONE: (510) 420-3344 FAX: (510) 420-9170 E-MAIL: CDecker@CAMBRIA-ENV.COM

TURNAROUND TIME (BUSINESS DAYS): 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - RWQCE REPORT FORMAT UST AGENCY

GC/MS MTBE CONFIRMATION: HIGHEST HIGHEST per BORING ALL

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED

FLOW TOTAL =

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification				REQUESTED ANALYSIS													FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes 6.0°C							
	DATE	TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	TBA (8250E)	Oxygenates (5) by (8260B)	Methanol	EDB & 1,2-DCA (8280B)	EPA 303a: Extraction for Volatiles	VOCs: Halogenated/Aromatic (8011B)	TRRH (418.1)	Vapor VOCs: BTEX/ MTBE (10-15)	VOCs: Full List (8260B)		Vapor: TPH (ASTM 3418m)	Vapor: Fixed Gases: (ASTM D1948)	Test for: Disposal (48-	OSHS (BTA 1801-SGT)	TPH - Diesel, Extractable (8015m)	MTBE (8260B): Confirmation, See Note	TEMPERATURE ON RECEIPT °C
	8/5	10:05	AQ	4	X	X	X																		(4) VOAS w/ HCL
		10:10	AQ	4	X	X	X																		(4) VOAS w/ HCL
		10:35	AQ	4	X	X	X																		(4) VOAS w/ HCL
		10:30	AQ	4	X	X	X																		(4) VOAS w/ HCL
		10:30	AQ	1																	X				(1) 1-L Amber w/HCL

Requested by (Signature): Vartan Hanedarian Received by (Signature): Denise Harrington / STL-SF Date: 8/5/03 Time: 1520

Cambria Environmental Emeryville

August 04, 2003

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Cynthia Vasko

Project#: 245-0414

Project: 98995752

Site: 540 Hegenberger Road, Oakland, CA

Dear Ms. Vasko:

Attached is our report for your samples received on 07/25/2003 12:50

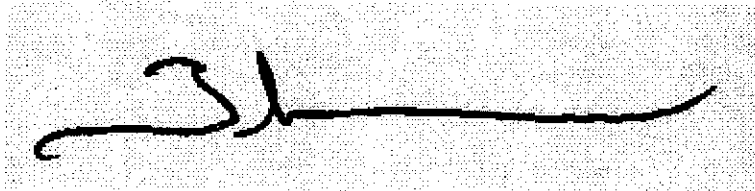
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 09/08/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,



Tod Granicher
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 07/25/2003 12:50

Site: 540 Hegenberger Road, Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
INF	07/25/2003 12:15	Water	1
MID 1	07/25/2003 12:10	Water	2
MID 2	07/25/2003 12:05	Water	3
EFF	07/25/2003 12:00	Water	4

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/31/2003 16:13

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 07/25/2003 12:50

Site: 540 Hegenberger Road, Oakland, CA

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: INF	Lab ID: 2003-07-0787 - 1
Sampled: 07/25/2003 12:15	Extracted: 7/31/2003 03:57
Matrix: Water	QC Batch#: 2003/07/30-2D.65
Analysis Flag: o (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	5000	ug/L	100.00	07/31/2003 03:57	
Benzene	ND	50	ug/L	100.00	07/31/2003 03:57	
Toluene	ND	50	ug/L	100.00	07/31/2003 03:57	
Ethylbenzene	ND	50	ug/L	100.00	07/31/2003 03:57	
Total xylenes	ND	100	ug/L	100.00	07/31/2003 03:57	
tert-Butyl alcohol (TBA)	6400	500	ug/L	100.00	07/31/2003 03:57	
Methyl tert-butyl ether (MTBE)	16000	50	ug/L	100.00	07/31/2003 03:57	
Surrogates(s)						
1,2-Dichloroethane-d4	114.1	76-130	%	100.00	07/31/2003 03:57	
Toluene-d8	106.0	78-115	%	100.00	07/31/2003 03:57	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566
Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/31/2003 16:13

Page 2 of 11

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 07/25/2003 12:50

Site: 540 Hegenberger Road, Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MID 1	Lab ID:	2003-07-0787 - 2
Sampled:	07/25/2003 12:10	Extracted:	7/31/2003 04:19
Matrix:	Water	QC Batch#:	2003/07/30-2D.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/31/2003 04:19	
Benzene	ND	0.50	ug/L	1.00	07/31/2003 04:19	
Toluene	ND	0.50	ug/L	1.00	07/31/2003 04:19	
Ethylbenzene	ND	0.50	ug/L	1.00	07/31/2003 04:19	
Total xylenes	ND	1.0	ug/L	1.00	07/31/2003 04:19	
tert-Butyl alcohol (TBA)	370	5.0	ug/L	1.00	07/31/2003 04:19	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/31/2003 04:19	
Surrogates(s)						
1,2-Dichloroethane-d4	105.4	76-130	%	1.00	07/31/2003 04:19	
Toluene-d8	103.1	78-115	%	1.00	07/31/2003 04:19	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 07/25/2003 12:50

Site: 540 Hegenberger Road, Oakland, CA

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MID 2	Lab ID:	2003-07-0787 - 3
Sampled:	07/25/2003 12:05	Extracted:	7/31/2003 04:41
Matrix:	Water	QC Batch#:	2003/07/30-2D.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/31/2003 04:41	
Benzene	ND	0.50	ug/L	1.00	07/31/2003 04:41	
Toluene	ND	0.50	ug/L	1.00	07/31/2003 04:41	
Ethylbenzene	ND	0.50	ug/L	1.00	07/31/2003 04:41	
Total xylenes	ND	1.0	ug/L	1.00	07/31/2003 04:41	
tert-Butyl alcohol (TBA)	5.6	5.0	ug/L	1.00	07/31/2003 04:41	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/31/2003 04:41	
Surrogates(s)						
1,2-Dichloroethane-d4	105.4	76-130	%	1.00	07/31/2003 04:41	
Toluene-d8	100.7	78-115	%	1.00	07/31/2003 04:41	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 07/25/2003 12:50

Site: 540 Hegenberger Road, Oakland, CA

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: EFF	Lab ID: 2003-07-0787 - 4
Sampled: 07/25/2003 12:00	Extracted: 7/31/2003 11:42
Matrix: Water	QC Batch#: 2003/07/31-1C.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/31/2003 11:42	
Benzene	ND	0.50	ug/L	1.00	07/31/2003 11:42	
Toluene	ND	0.50	ug/L	1.00	07/31/2003 11:42	
Ethylbenzene	ND	0.50	ug/L	1.00	07/31/2003 11:42	
Total xylenes	ND	1.0	ug/L	1.00	07/31/2003 11:42	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	07/31/2003 11:42	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/31/2003 11:42	
Surrogates(s)						
1,2-Dichloroethane-d4	116.4	76-130	%	1.00	07/31/2003 11:42	
Toluene-d8	104.8	78-115	%	1.00	07/31/2003 11:42	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 07/25/2003 12:50

Site: 540 Hegenberger Road, Oakland, CA

Batch QC Report			
Prep(s): 5030B			Test(s): 8260FAB
Method Blank	Water		QC Batch # 2003/07/30-2D.65
MB: 2003/07/30-2D.65-044			Date Extracted: 07/30/2003 22:44

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/30/2003 22:44	
Benzene	ND	0.5	ug/L	07/30/2003 22:44	
Toluene	ND	0.5	ug/L	07/30/2003 22:44	
Ethylbenzene	ND	0.5	ug/L	07/30/2003 22:44	
Total xylenes	ND	1.0	ug/L	07/30/2003 22:44	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/30/2003 22:44	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/30/2003 22:44	
Surrogates(s)					
1,2-Dichloroethane-d4	91.4	76-130	%	07/30/2003 22:44	
Toluene-d8	103.4	78-115	%	07/30/2003 22:44	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Emeryville, CA 94608
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Project: 245-0414
98995752

Received: 07/25/2003 12:50

Site: 540 Hegenberger Road, Oakland, CA

Batch QC Report					
Prep(s): 5030B		Water		Test(s): 8260FAB	
Method Blank				QC Batch # 2003/07/31-1C.64	
MB: 2003/07/31-1C.64-008				Date Extracted: 07/31/2003 10:08	
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/31/2003 10:08	
Benzene	ND	0.5	ug/L	07/31/2003 10:08	
Toluene	ND	0.5	ug/L	07/31/2003 10:08	
Ethylbenzene	ND	0.5	ug/L	07/31/2003 10:08	
Total xylenes	ND	1.0	ug/L	07/31/2003 10:08	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/31/2003 10:08	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/31/2003 10:08	
Surrogates(s)					
1,2-Dichloroethane-d4	101.2	76-130	%	07/31/2003 10:08	
Toluene-d8	98.5	78-115	%	07/31/2003 10:08	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

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Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 07/25/2003 12:50

Site: 540 Hegenberger Road, Oakland, CA

Batch QC Report			
Prep(s): 5030B		Test(s): 8260FAB	
Laboratory Control Spike		Water	
QC Batch # 2003/07/30-2D.65			
LCS	2003/07/30-2D.65-059	Extracted: 07/30/2003	Analyzed: 07/30/2003 22:21
LCSD	2003/07/30-2D.65-059	Extracted: 07/30/2003	Analyzed: 07/30/2003 22:21

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	20.4	□	25	81.6	□	□	69-129	20		□,□
Toluene	21.2	□	25	84.8	□	□	70-130	20		□,□
Methyl tert-butyl ether (MTBE)	18.2	□	25	72.8	□	□	65-165	20		□,□
Surrogates(s)										
1,2-Dichloroethane-d4	497	□	500	99.4	□	□	76-130			□,□
Toluene-d8	524	□	500	104.8	□	□	78-115			□,□

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/31/2003 16:13

Page 8 of 11

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 07/25/2003 12:50

Site: 540 Hegenberger Road, Oakland, CA

Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike			Water			QC Batch # 2003/07/31-1C.64				
LCS	2003/07/31-1C.64-024		Extracted: 07/31/2003			Analyzed: 07/31/2003 09:24				
LCSD	2003/07/31-1C.64-046		Extracted: 07/31/2003			Analyzed: 07/31/2003 09:46				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	23.0	22.6	25	92.0	90.4	1.8	69-129	20		
Toluene	24.6	24.4	25	98.4	97.6	0.8	70-130	20		
Methyl tert-butyl ether (MTBE)	25.4	24.5	25	101.6	98.0	3.6	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	511	507	500	102.2	101.4		76-130			
Toluene-d8	503	498	500	100.6	99.6		78-115			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

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Emeryville, CA 94608
Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 07/25/2003 12:50

Site: 540 Hegenberger Road, Oakland, CA

Batch QC Report			
Prep(s):	5030B		Test(s): 8260FAB
Matrix Spike (MS / MSD)		Water	QC Batch # 2003/07/30-2D.65
EFF >> MS			Lab ID: 2003-07-0749-001
MS: 2003/07/30-2D.65-058		Extracted: 07/31/2003	Analyzed: 07/31/2003 00:58
			Dilution: 1.00
MSD: 2003/07/30-2D.65-060		Extracted: 07/31/2003	Analyzed: 07/31/2003 01:21
			Dilution: 1.00

Compound	Conc. ug/L		Spk.Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	24.8	23.8	ND	25	99.2	95.2	4.1	69-129	20		
Toluene	24.3	24.8	ND	25	97.2	99.2	2.0	70-130	20		
Methyl tert-butyl ether	21.9	21.7	ND	25	87.6	86.8	0.9	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	504	491		500	100.7	98.2		76-130			
Toluene-d8	528	525		500	105.5	105.0		78-115			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/31/2003 16:13

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Cynthia Vasko

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3344 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 07/25/2003 12:50

Site: 540 Hegenberger Road, Oakland, CA

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Address: 1220 Quarry Lane

City, State, Zip: Pleasanton, CA, 94566
 ph. (925) 464-1919
 fx. (925) 464-1090

Shell Project Manager to be Invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- OILFIELD SERVICES

KAREN PETRYNA

2003-07-0787

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 5 2

DATE: 7-25-03

SAP or CRMT NUMBER (TS/CRMT)

PAGE: 1 of 1

SAMPLING COMPANY: CAMBRIA ENVIRONMENTAL TECH. LOG CODE: CETO SITE ADDRESS (50' x 50' GRID): 540 Hegenberger Road, Oakland, CA GLOBAL ID NO.:

ADDRESS: 5900 HOLLIS STREET, EMERYVILLE, CA - 94608 ERF DELIVERABLE TO (Responsible Party or Designer): PHONE NO.: E-MAIL: CONSULTANT PROJECT NO.: 245-0414

PROJECT CONTACT (Mechanism or PER Report to): Cynthia Vasco TELEPHONE: 510-420-3344 FAX: (510)420-8170 E-MAIL: C.Vasco@CAMBRIA-ENV.COM

TURNAROUND TIME (BUSINESS DAYS): 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LAB USE ONLY: REQUESTED ANALYSIS

LA - RWQCB REPORT FORMAT USE AGENCY: FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

OCAMS MTBE CONFIRMATION: HIGHEST HIGHEST per BORING ALL SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDO IS NOT NEEDED

FLOW TOTAL = 97580.0

LAB USE ONLY	Field Sample Identification				REQUESTED ANALYSIS														FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes						
	DATE	TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (R0219 - 5ppb RL)	MTBE (R2608 - 0.5ppb RL)	TBA (R2603)	Oxygenates (S) by (R2608)	Methanol	EDB & 1,2-DCA (R2608)	EPA 8035 Extraction for Volatiles	VOCs: Halogenated/Aromatic (R021B)	TRPH (418-1)	Vapor VOCs: BTEX/MTBE (TO-15)	VOCs: Full List (R2608)	Vapor: TPH (ASTM 4416m)		Vapor: Fixed Gases (ASTM D1646)	Test for Disposal (48-)	CHCl (EPA 1664-SDT)	TPH - Dissol. Extractable (8015m)	MTBE (8005) Confirmation. See Note	
	7-25	12:15	AQ	4	X	X	X	X																	(4) VOAS W/ HCL
		12:10	AQ	4	X	X	X	X																	(4) VOAS W/ HCL
		12:05	AQ	4	X	X	X	X																	(4) VOAS W/ HCL
		12:00	AQ	4	X	X	X	X																	(4) VOAS W/ HCL

Retrieved by (Signature): [Signatures] Received by (Signature): [Signatures] Date: 7/25/03 Time: 12:50

Retrieved by (Signature): [Signatures] Received by (Signature): [Signatures] Date: 7/25/03 Time: 1:07

Cambria Environmental Emeryville

July 20, 2003

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Erick Ziekler

Project#: 245-0414

Project: 98995752

Site: 540 Hegenberger Road, Oakland

Attached is our report for your samples received on 07/09/2003 12:15


This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 08/23/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,



Tod Granicher
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Erick Ziekler

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 07/09/2003 12:15

Site: 540 Hegenberger Road, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
INF	07/08/2003 01:45	Water	1
MID 1	07/08/2003 01:40	Water	2
MID 2	07/08/2003 01:35	Water	3
EFF	07/08/2003 01:30	Water	4

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/18/2003 13:23

Page 1 of 8

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Erick Ziekler

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 07/09/2003 12:15

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: INF	Lab ID: 2003-07-0286 - 1
Sampled: 07/08/2003 01:45	Extracted: 7/17/2003 19:41
Matrix: Water	QC Batch#: 2003/07/17-1C.64
Analysis Flag: o (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1000	ug/L	20.00	07/17/2003 19:41	
Benzene	ND	10	ug/L	20.00	07/17/2003 19:41	
Toluene	ND	10	ug/L	20.00	07/17/2003 19:41	
Ethylbenzene	ND	10	ug/L	20.00	07/17/2003 19:41	
Total xylenes	ND	20	ug/L	20.00	07/17/2003 19:41	
tert-Butyl alcohol (TBA)	3300	100	ug/L	20.00	07/17/2003 19:41	
Methyl tert-butyl ether (MTBE)	2000	10	ug/L	20.00	07/17/2003 19:41	
Surrogates(s)						
1,2-Dichloroethane-d4	120.5	76-130	%	20.00	07/17/2003 19:41	
Toluene-d8	103.9	78-115	%	20.00	07/17/2003 19:41	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Erick Ziekler

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 07/09/2003 12:15

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MID 1	Lab ID: 2003-07-0286 - 2
Sampled: 07/08/2003 01:40	Extracted: 7/17/2003 20:04
Matrix: Water	QC Batch#: 2003/07/17-1C.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/17/2003 20:04	
Benzene	ND	0.50	ug/L	1.00	07/17/2003 20:04	
Toluene	ND	0.50	ug/L	1.00	07/17/2003 20:04	
Ethylbenzene	ND	0.50	ug/L	1.00	07/17/2003 20:04	
Total xylenes	ND	1.0	ug/L	1.00	07/17/2003 20:04	
tert-Butyl alcohol (TBA)	32	5.0	ug/L	1.00	07/17/2003 20:04	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/17/2003 20:04	
Surrogates(s)						
1,2-Dichloroethane-d4	110.6	76-130	%	1.00	07/17/2003 20:04	
Toluene-d8	99.6	78-115	%	1.00	07/17/2003 20:04	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/18/2003 13:23

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Erick Ziekler

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 07/09/2003 12:15

Site: 540 Hegenberger Road, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MID 2	Lab ID: 2003-07-0286 - 3
Sampled: 07/08/2003 01:35	Extracted: 7/17/2003 20:26
Matrix: Water	QC Batch#: 2003/07/17-1C.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/17/2003 20:26	
Benzene	ND	0.50	ug/L	1.00	07/17/2003 20:26	
Toluene	ND	0.50	ug/L	1.00	07/17/2003 20:26	
Ethylbenzene	ND	0.50	ug/L	1.00	07/17/2003 20:26	
Total xylenes	ND	1.0	ug/L	1.00	07/17/2003 20:26	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	07/17/2003 20:26	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/17/2003 20:26	
Surrogates(s)						
1,2-Dichloroethane-d4	109.7	76-130	%	1.00	07/17/2003 20:26	
Toluene-d8	104.0	78-115	%	1.00	07/17/2003 20:26	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Erick Ziekler

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 07/09/2003 12:15

Site: 540 Hegenberger Road, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	EFF	Lab ID:	2003-07-0286 - 4
Sampled:	07/08/2003 01:30	Extracted:	7/17/2003 20:48
Matrix:	Water	QC Batch#:	2003/07/17-1C.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/17/2003 20:48	
Benzene	ND	0.50	ug/L	1.00	07/17/2003 20:48	
Toluene	ND	0.50	ug/L	1.00	07/17/2003 20:48	
Ethylbenzene	ND	0.50	ug/L	1.00	07/17/2003 20:48	
Total xylenes	ND	1.0	ug/L	1.00	07/17/2003 20:48	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	07/17/2003 20:48	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/17/2003 20:48	
Surrogates(s)						
1,2-Dichloroethane-d4	111.4	76-130	%	1.00	07/17/2003 20:48	
Toluene-d8	103.1	78-115	%	1.00	07/17/2003 20:48	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/18/2003 13:23

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Erick Ziekler

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 07/09/2003 12:15

Site: 540 Hegenberger Road, Oakland

Batch QC Report					
Prep(s): 5030B				Test(s): 8260FAB	
Method Blank		Water		QC Batch # 2003/07/17-1C.64	
MB: 2003/07/17-1C.64-003				Date Extracted: 07/17/2003 11:03	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/17/2003 11:03	
Benzene	ND	0.5	ug/L	07/17/2003 11:03	
Toluene	ND	0.5	ug/L	07/17/2003 11:03	
Ethylbenzene	ND	0.5	ug/L	07/17/2003 11:03	
Total xylenes	ND	1.0	ug/L	07/17/2003 11:03	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/17/2003 11:03	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/17/2003 11:03	
Surrogates(s)					
1,2-Dichloroethane-d4	102.0	76-130	%	07/17/2003 11:03	
Toluene-d8	101.8	78-115	%	07/17/2003 11:03	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Erick Ziekler

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 07/09/2003 12:15

Site: 540 Hegenberger Road, Oakland

Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike				Water			QC Batch # 2003/07/17-1C.64			
LCS	2003/07/17-1C.64-018			Extracted: 07/17/2003			Analyzed: 07/17/2003 10:18			
LCSD	2003/07/17-1C.64-041			Extracted: 07/17/2003			Analyzed: 07/17/2003 10:41			
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	26.1	22.2	25	104.4	88.8	16.1	69-129	20		
Toluene	27.5	24.7	25	110.0	98.8	10.7	70-130	20		
Methyl tert-butyl ether (MTBE)	29.4	24.4	25	117.6	97.6	18.6	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	522	511	500	104.4	102.2		76-130			
Toluene-d8	506	501	500	101.2	100.2		78-115			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Emeryville, CA 94608

Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 07/09/2003 12:15

Site: 540 Hegenberger Road, Oakland

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Address: 1220 Quarry Lane
 City, State, Zip: Pleasanton, CA 94566
 ph: (925) 484-1818
 FX: (925) 484-1096

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

KAREN PETRYNA

2003-07-0286

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 5 2

SAP or CRMT NUMBER (TS/CHMIT)

DATE: 7-8-03

PAGE: 1 of 1

SAMPLING COMPANY: CAMBRIA ENVIRONMENTAL TECH. LDD CODE: CETO SITE ADDRESS (Street and City): 540 Hegenberger Road, Oakland, CA GLOBAL ID NO.:

ADDRESS: 5900 HOLLIS STREET, EMERYVILLE, CA - 94608 EDP BILLING TO (Responsible Party or Division): PROJECT NO.: EMAIL: CONSULTANT PROJECT NO.: 245-0414

PROJECT CONTACT (Name, Title or POC, Report to): ERIC ZICKLER SAMPLER MARK(S) (PS#): CAS USE ONLY:

TELEPHONE: 510-420-3308 FAX: (510)420-9170 EMAIL: EZICKLER@CAMBRIA-ENV.COM

SAMPLER MARK(S) (PS#): VARTAN HADEDANIAN CAS USE ONLY:

TURNAROUND TIME (BUSINESS DAYS):
 10 DAYS 3 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

REQUESTED ANALYSIS

LA - RWQCB REPORT FORMAT LIST AGENCY:

CCMS MTBE CONFIRMATION: HIGHEST _____ HIGHEST PER BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED:

TPH - Gas, Purgeable	BTEX	MTBE (R021B - 5ppb RL)	MTBE (R020B - 0.5ppb RL)	TBA (R020B)	Oxygenates (S) by (R250B)	Methanol	EDB & 1,2-DCA (R250B)	EPA 5035 Extraction for Volatiles	VOCS: Halogenated/Aromatic (R021B)	TRPH (41B-1)	Vapor VOCs: STEK / MTBE (TO-15)	VOCs: Full List (R250B)	Vapor TPH (ASTM 3415m)	Vapor Fixed Gases: (ASTM D1994)	Test for Disposal (48-)	SOH2 (EPA 464-SGT)	TPH - Diesel, Extractable (R015m)	MTBE (R020B) Confirmation, See Note
----------------------	------	------------------------	--------------------------	-------------	---------------------------	----------	-----------------------	-----------------------------------	------------------------------------	--------------	---------------------------------	-------------------------	------------------------	---------------------------------	-------------------------	--------------------	-----------------------------------	-------------------------------------

FIELD NOTES:
 Container/Preservative or PID Readings or Laboratory Notes:
 4.2°C
 cooler rec'd sealed - DSH

FLOW TOTAL = 90092.0

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (R021B - 5ppb RL)	MTBE (R020B - 0.5ppb RL)	TBA (R020B)	Oxygenates (S) by (R250B)	Methanol	EDB & 1,2-DCA (R250B)	EPA 5035 Extraction for Volatiles	VOCS: Halogenated/Aromatic (R021B)	TRPH (41B-1)	Vapor VOCs: STEK / MTBE (TO-15)	VOCs: Full List (R250B)	Vapor TPH (ASTM 3415m)	Vapor Fixed Gases: (ASTM D1994)	Test for Disposal (48-)	SOH2 (EPA 464-SGT)	TPH - Diesel, Extractable (R015m)	MTBE (R020B) Confirmation, See Note	TEMPERATURE ON RECEIPT °C	
		DATE	TIME																						(4) VOAS W/ HCL	
	INF	7-8	1:45	AQ	4	X	X	X	X																	
	MID 1		1:40	AQ	4	X	X	X	X																	
	MID 2		1:35	AQ	4	X	X	X	X																	
	EFF		1:30	AQ	4	X	X	X	X																	

Received by (Signature): <i>Vartan Hadedanian</i>	Received by (Signature): <i>Secured Location</i>	Date: 7-8-03	Time: 3:00 pm
Received by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 7/09/03	Time: 12:15 pm
Received by (Signature): <i>[Signature]</i>	Received by (Signature): <i>Denise Hamilton</i>	Date: 7/09/03	Time: 1650

Cambria Environmental Emeryville

July 07, 2003

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Erick Ziekler

Project#: 245-0414

Project: 98995752

Site: 540 hegenberger Road, Oakland

Attached is our report for your samples received on 06/24/2003 10:48


This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 08/08/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,



Tod Granicher
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Erick Ziekler

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 06/24/2003 10:48

Site: 540 hegenberger Road, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
INF	06/23/2003 02:00	Water	1
MID 1	06/23/2003 01:55	Water	2
MID 2	06/23/2003 01:50	Water	3
EFF	06/23/2003 01:45	Water	4

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/07/2003 12:08

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Erick Ziekler

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 06/24/2003 10:48

Site: 540 hegenberger Road, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: INF	Lab ID: 2003-06-0745 - 1
Sampled: 06/23/2003 02:00	Extracted: 7/5/2003 15:18
Matrix: Water	QC Batch#: 2003/07/05-1c.65
Analysis Flag: o (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	500	ug/L	10.00	07/05/2003 15:18	
Benzene	ND	5.0	ug/L	10.00	07/05/2003 15:18	
Toluene	ND	5.0	ug/L	10.00	07/05/2003 15:18	
Ethylbenzene	ND	5.0	ug/L	10.00	07/05/2003 15:18	
Total xylenes	ND	10	ug/L	10.00	07/05/2003 15:18	
tert-Butyl alcohol (TBA)	2300	50	ug/L	10.00	07/05/2003 15:18	
Methyl tert-butyl ether (MTBE)	1300	5.0	ug/L	10.00	07/05/2003 15:18	
Surrogates(s)						
1,2-Dichloroethane-d4	89.2	76-130	%	10.00	07/05/2003 15:18	
Toluene-d8	105.1	78-115	%	10.00	07/05/2003 15:18	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Erick Ziekler

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 06/24/2003 10:48

Site: 540 hegenberger Road, Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MID 1	Lab ID: 2003-06-0745 - 2
Sampled: 06/23/2003 01:55	Extracted: 7/5/2003 15:40
Matrix: Water	QC Batch#: 2003/07/05-1c.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/05/2003 15:40	
Benzene	ND	0.50	ug/L	1.00	07/05/2003 15:40	
Toluene	ND	0.50	ug/L	1.00	07/05/2003 15:40	
Ethylbenzene	ND	0.50	ug/L	1.00	07/05/2003 15:40	
Total xylenes	ND	1.0	ug/L	1.00	07/05/2003 15:40	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	07/05/2003 15:40	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/05/2003 15:40	
Surrogates(s)						
1,2-Dichloroethane-d4	93.6	76-130	%	1.00	07/05/2003 15:40	
Toluene-d8	98.7	78-115	%	1.00	07/05/2003 15:40	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Erick Ziekler

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 06/24/2003 10:48

Site: 540 hegenberger Road, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MID 2	Lab ID:	2003-06-0745 - 3
Sampled:	06/23/2003 01:50	Extracted:	7/5/2003 16:03
Matrix:	Water	QC Batch#:	2003/07/05-1c.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/05/2003 16:03	
Benzene	ND	0.50	ug/L	1.00	07/05/2003 16:03	
Toluene	ND	0.50	ug/L	1.00	07/05/2003 16:03	
Ethylbenzene	ND	0.50	ug/L	1.00	07/05/2003 16:03	
Total xylenes	ND	1.0	ug/L	1.00	07/05/2003 16:03	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	07/05/2003 16:03	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/05/2003 16:03	
Surrogates(s)						
1,2-Dichloroethane-d4	95.0	76-130	%	1.00	07/05/2003 16:03	
Toluene-d8	98.5	78-115	%	1.00	07/05/2003 16:03	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566
Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/07/2003 12:08

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Emeryville, CA 94608

Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 06/24/2003 10:48

Site: 540 hegenberger Road, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	EFF	Lab ID:	2003-06-0745 - 4
Sampled:	06/23/2003 01:45	Extracted:	7/5/2003 16:25
Matrix:	Water	QC Batch#:	2003/07/05-1c.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/05/2003 16:25	
Benzene	ND	0.50	ug/L	1.00	07/05/2003 16:25	
Toluene	ND	0.50	ug/L	1.00	07/05/2003 16:25	
Ethylbenzene	ND	0.50	ug/L	1.00	07/05/2003 16:25	
Total xylenes	ND	1.0	ug/L	1.00	07/05/2003 16:25	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	07/05/2003 16:25	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/05/2003 16:25	
Surrogates(s)						
1,2-Dichloroethane-d4	86.9	76-130	%	1.00	07/05/2003 16:25	
Toluene-d8	101.8	78-115	%	1.00	07/05/2003 16:25	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/07/2003 12:08

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Erick Ziekler

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 06/24/2003 10:48

Site: 540 hegenberger Road, Oakland

Batch QC Report			
Prep(s): 5030B			Test(s): 8260FAB
Method Blank	Water		QC Batch # 2003/07/05-1c.65
MB: 2003/07/05-1c.65-027			Date Extracted: 07/05/2003 10:27

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/05/2003 10:27	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/05/2003 10:27	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/05/2003 10:27	
Benzene	ND	0.5	ug/L	07/05/2003 10:27	
Toluene	ND	0.5	ug/L	07/05/2003 10:27	
Ethylbenzene	ND	0.5	ug/L	07/05/2003 10:27	
Total xylenes	ND	1.0	ug/L	07/05/2003 10:27	
Surrogates(s)					
1,2-Dichloroethane-d4	87.6	76-130	%	07/05/2003 10:27	
Toluene-d8	98.5	78-115	%	07/05/2003 10:27	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Project: 245-0414
98995752

Received: 06/24/2003 10:48

Site: 540 hegenberger Road, Oakland

Batch QC Report					
Prep(s): 5030B			Test(s): 8260FAB		
Laboratory Control Spike		Water		QC Batch # 2003/07/05-1c.65	
LCS	2003/07/05-1c.65-043	Extracted: 07/05/2003		Analyzed: 07/05/2003 09:43	
LCSD	2003/07/05-1c.65-005	Extracted: 07/05/2003		Analyzed: 07/05/2003 10:05	

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	20.1	19.5	25	80.4	78.0	3.0	65-165	20		
Benzene	23.4	25.9	25	93.6	103.6	10.1	69-129	20		
Toluene	23.3	24.5	25	93.2	98.0	5.0	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	449	440	500	89.8	88.0		76-130			
Toluene-d8	495	498	500	99.0	99.6		78-115			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Emeryville, CA 94608
Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414
98995752

Received: 06/24/2003 10:48

Site: 540 hegenberger Road, Oakland

Batch QC Report			
Prep(s):	5030B	Test(s):	8260FAB
Matrix Spike (MS / MSD)		Water	QC Batch # 2003/07/05-1c.65
EFF: >> MS		Lab ID:	2003-06-0745-004
MS: 2003/07/05-1c.65-048		Extracted: 07/05/2003	Analyzed: 07/05/2003 16:48
			Dilution: 1.00
MSD: 2003/07/05-1c.65-010		Extracted: 07/05/2003	Analyzed: 07/05/2003 17:10
			Dilution: 1.00

Compound	Conc. ug/L		Spk.Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS
Benzene	25.5	24.7	ND	25	102.0	98.8	3.2	69-129	20		
Toluene	24.2	25.9	ND	25	96.8	103.6	6.8	70-130	20		
Methyl tert-butyl ether	21.7	21.3	ND	25	86.8	85.2	1.9	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	460	450		500	92.1	90.1		76-130			
Toluene-d8	509	520		500	101.9	103.9		78-115			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Erick Ziekler

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3308 Fax: (510) 420-9170

Project: 245-0414

98995752

Received: 06/24/2003 10:48

Site: 540 hegenberger Road, Oakland

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/07/2003 12:08

Address: 1220 Quarry Lane

City, State, Zip: Pleasanton, CA, 94568
 ph: (925) 484-1919
 fx: (925) 484-1096

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CHART COLLECTION

KAREN PETRYNA

2003-06-0745

INCIDENT NUMBER (SEE ONLY)
 9 8 9 9 5 7 5 2
 SAP OF CRMT NUMBER (TS/CRMT)

DATE: 6-23-03
 PAGE: 1 of 1

CLIENT COMPANY: CAMBRIA ENVIRONMENTAL TECH. LOG CODE: CETO
 ADDRESS: 5900 HOLLIS STREET, EMERYVILLE, CA - 94609
 PROJECT CONTACT (Name, Title or REF. Report #): ERIC ZICKLER
 TELEPHONE: 510-420-3309 FAX: (510)420-9170 EMAIL: EZICKLER@CAMBRIA-ENV.COM
 TURNAROUND TIME (BUSINESS DAYS): 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS
 LA - RWQCB REPORT FORMAT UST AGENCY:
 GC/MS MTBE CONFIRMATION: HIGHEST HIGHEST PER BORING ALL
 SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED

SITE ADDRESS (Street and City): 540 Hegenberger Road, Oakland, CA
 GLOBAL ID NO.:
 EFF DELIVERABLE TO: (Responsible Party or Designer):
 PHONE NO.:
 EMAIL:
 CONSULTANT PROJECT NO.: 245-0414

SAMPLER NAME (ID#): CARTAN HAWEDANIAN
 LAB USE ONLY:

LAB USE ONLY:

FLOW TOTAL = 67082.0

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable		MTBE (80219 - 5ppb RL)	MTBE (82608 - 0.5ppb RL)	TBA (82608)	Oxygenates (5) by (82608)	Methanol	EDB & 1,2-DCA (82608)	EPA 8081 Extraction for Volatiles	VOCs Halogenated (Aromatic) (80219)	TPH (418.1)	Vapor/VOCs BTEX (MTBE (TD-19)	VOCs - Full List (82608)	Vapor TPH (ASTM D1916m)	Vapor Fixed Gases: (ASTM D1916)	Test for Disposal (48-	DOHC (EPA 1664-837)	TPH - Diesel, Extractable (8015m)	MTBE (82608) Concentration, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes 2.0 °C TEMPERATURE ON RECEIPT
	DATE	TIME	TPH	BTEX																						
	INF		6-23	2:00	AQ	4	X	X	X	X																(4) VOAS W/ HCL
	MID 1			1:55	AQ	4	X	X	X	X																(4) VOAS W/ HCL
	MID 2			1:50	AQ	4	X	X	X	X																(4) VOAS W/ HCL
	EFF			1:45	AQ	4	X	X	X	X																(4) VOAS W/ HCL

Requested by (Signature): [Signature] Received by (Signature): Secured Location Date: 6-23-03 Time: 4:00 pm
 Rechecked by (Signature): [Signature] Received by (Signature): [Signature] Date: 6/29/03 Time: 10:48
 Rechecked by (Signature): [Signature] Received by (Signature): [Signature] Date: 6/24/03 Time: 17:28