

R02441

# C A M B R I A

July 16, 2004

Mr. Keith L. Matthews  
Hazardous Materials Inspector  
Office of Emergency Services  
City of Oakland, Fire Services Agency  
1605 Martin Luther King, Jr. Way  
Oakland, California 94612

**Re: Product Dispenser and Piping Replacement Report**  
Shell-branded Service Station  
9750 Golf Links Road  
Oakland, California  
Incident # 98995744  
Cambria Project # 246-0735



Alameda County  
JUL 21 2004  
Environmental Health

Dear Mr. Matthews:

Cambria Environmental Technology, Inc. (Cambria) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) to document the product dispenser and piping replacement activities at the referenced site. Cambria performed inspections and sampling during the upgrades of four fuel dispenser islands and removal/replacement of associated product piping in April 2004. The work complied with the City of Oakland's Fire Services Agency (COFSA) and the San Francisco Bay Regional Water Quality Control Board guidelines.

## SITE DESCRIPTION

**Site Description:** This operating Shell-branded service station is located at the intersection of Golf Links Road and Mountain Boulevard in Oakland, California (Figure 1). Residential and commercial properties surround the site. Highway 580 runs near the northern boundary of the site. Three gasoline underground storage tanks (USTs), associated piping, four dispenser islands and a station building exist at the site (Figure 2).

## SAMPLING ACTIVITIES AND SAMPLE ANALYSES

**Dispenser and Product Piping Sampling:** Sampling beneath the four dispensers was conducted on April 15, 2004 under the supervision of Hernan Gomez of the COFSA and the sampling beneath the piping was conducted on April 23, 2004 under the supervision of Keith Matthews, COFSA. Based on the conversation between Jason Gerke of Cambria and Hernan Gomez on April 15, 2004, one soil sample was to be collected beneath each dispenser island within two feet of native soil. Based on the conversation between Stewart Dalie of Cambria and Keith Matthews

Cambria  
Environmental  
Technology, Inc.

270 Perkins Street  
P. O. Box 259  
Sonoma, CA 95476  
Tel (707) 935-4850  
Fax (707) 935-6649

# C A M B R I A

on April 23, 2004, one sample was to be collected beneath each 90-degree elbow of the product piping within two feet of native soil. Pursuant to these instructions, a total of eight soil samples were collected between 4.5 and 5.0 feet below grade (fbg). The sample locations are depicted on Figure 2.

Cambria's standard procedures for dispenser and piping sampling are presented as Appendix A.

**Chemical Analyses:** All of the soil samples were transported under chain of custody control to STL San Francisco, a California certified laboratory for chemical analyses. As requested by the COFSA, samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by EPA Method 8260B.

## SOIL ANALYTICAL RESULTS

TPHg was detected in five of eight soil samples collected ranging in concentration from 4.7 parts per million (ppm) in sample D-4-4.5 to 3,200 ppm in sample P-1-5. MTBE was detected in three soil samples ranging in concentration from 0.013 ppm in sample D-4-4.5 to 0.060 ppm in sample D-1-4.5. Benzene was not detected in any of the soil samples collected.

Soil analytical results are summarized in Table 1 and TPHg, benzene, and MTBE data are presented on Figure 2. The certified analytical reports are included in Appendix B.

## UNAUTHORIZED RELEASE REPORTING

Since the subject site is already under the oversight of the Alameda County Health Care Services Agency (Fuel Leak Case No. RO0002441) and since historical sampling of the dispenser areas indicated petroleum impact, the April 2004 results do not constitute a new release. Therefore, an unauthorized release report was not filed.

## SOIL DISPOSAL

**Stockpiled Soil:** Soil generated during field activities was stored onsite, covered with plastic, sampled, and profiled for disposal. On May 5, 2004, Manley and Sons Trucking, Inc. of Sacramento, California transported 41 tons of soil to Allied Waste Industries' Forward Landfill in Manteca, California for disposal. The stockpile analytical report and the soil disposal confirmation are included in Appendix C.

# CAMBRIA

## CLOSING

If you have any questions regarding the contents of this report, please call Ana Friel at (707) 442-2700.

Sincerely,  
**Cambria Environmental Technology, Inc.**



Jason Gerke  
Senior Staff Scientist



Ana Friel, R.G.  
Senior Project Geologist  
RG # 6452

## Attachments

- Table 1.      Soil Analytical Results
- Figure 1.     Site Vicinity Map with Area Well Survey
- Figure 2.     Site Map
- Appendix A.   Cambria's Standard Procedures for Dispenser and Piping Sample Collection
- Appendix B.   Certified Analytical Reports
- Appendix C.   Stockpile Analytical Report and Soil Disposal Confirmation

cc:      Mr. Jim Martin, Construction Engineer, Shell Oil Products US, 20945 S. Wilmington Avenue, Carson, CA 90810

         Ms. Karen Petryna, Environmental Engineer, Shell Oil Products US, 20945 S. Wilmington Avenue, Carson, CA 90810

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

# CAMBRIA

**Table 1. Soil Analytical Results, Shell-branded Service Station, 9750 Golf Links Road, Oakland, California**

Sample	Depth (fbg)	Date Sampled	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)
D-1-4.5	4.5	4/15/2004	<b>6.1</b>	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.060</b>
D-2-4.5	4.5	4/15/2004	<1.0	<0.0050	<0.0050	<b>0.021</b>	<b>0.010</b>	<b>0.035</b>
D-3-4.5	4.5	4/15/2004	<b>380</b>	<0.50	<0.50	<0.50	<0.50	<0.50
D-4-4.5	4.5	4/15/2004	<b>4.7</b>	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.013</b>
P-1-5	5	4/23/2004	<b>3200</b>	<1.0	<b>1.1</b>	<1.0	<b>160</b>	<1.0
P-2-5	5	4/23/2004	<b>710</b>	<0.50	<0.50	<b>0.97</b>	<b>1.8</b>	<0.50
P-3-5	5	4/23/2004	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
P-4-5	5	4/23/2004	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Abbreviations and Notes:

fbg = Feet below grade

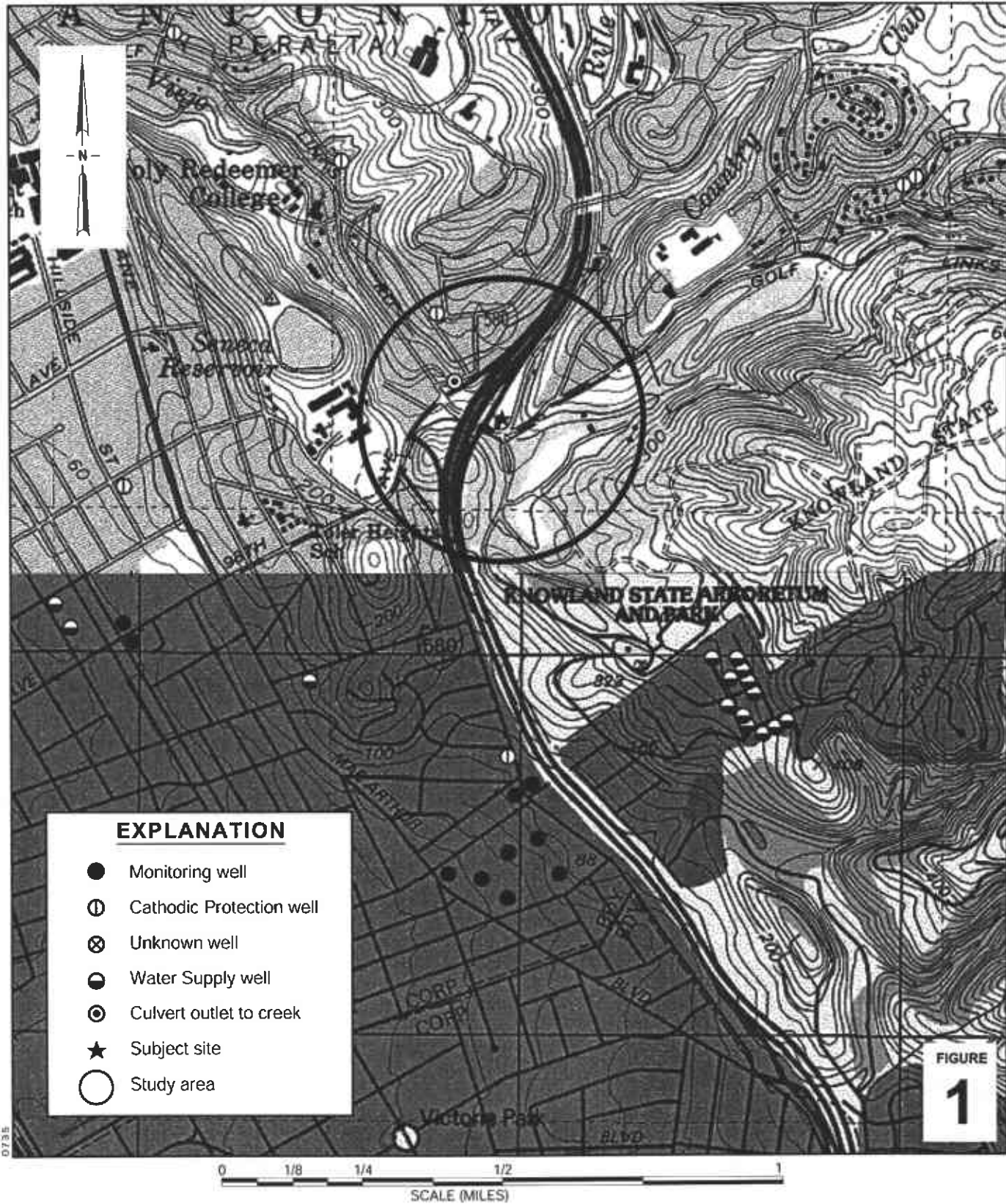
mg/kg = milligrams per kilogram (parts per million)

<x = Not detected at detection limit x

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 88260b

Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B

MTBE = methyl tertiary butyl ether analyzed by EPA Method 8260B



**EXPLANATION**

- Monitoring well
- ⓪ Cathodic Protection well
- ⊗ Unknown well
- Water Supply well
- ⊙ Culvert outlet to creek
- ★ Subject site
- Study area

FIGURE  
**1**

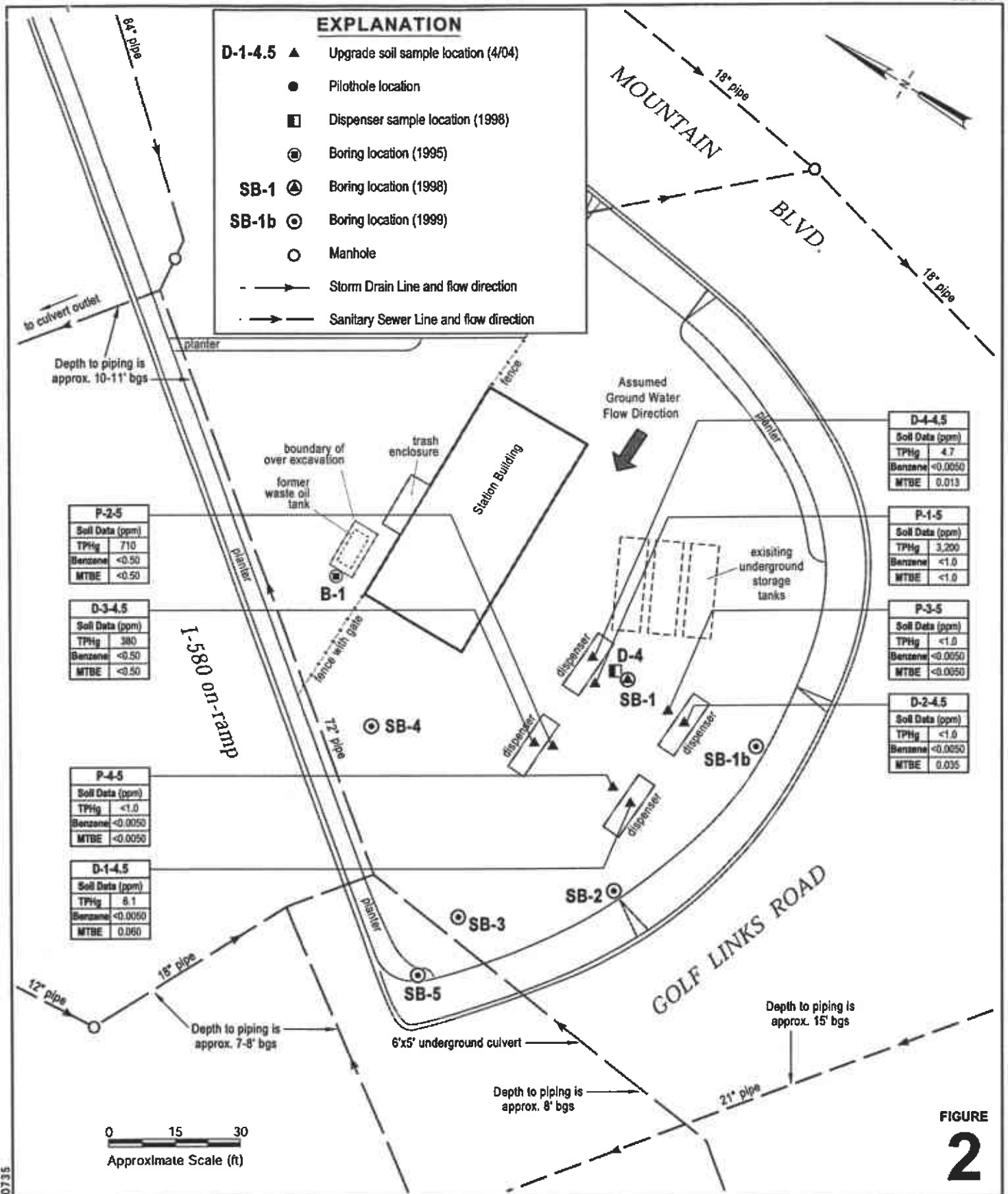
0 1/8 1/4 1/2 1  
SCALE (MILES)

**Shell-branded Service Station**  
9750 Golf Links Road  
Oakland, California



C A M B R I A

**Site Vicinity Map with  
Area Well Survey**  
(1/4-Mile Radius)



**FIGURE 2**

**Shell-branded Service Station**

9750 Golf Links Road  
Oakland, California



**CAMBRIA**

**Site Map**

## **Appendix A**

### **Cambria's Standard Procedures for Dispenser and Piping Sample Activities**

# CAMBRIA

## **STANDARD PIPING AND DISPENSER REMOVAL SAMPLING PROCEDURES**

Cambria Environmental Technology, Inc. (Cambria) has developed standard operating procedures for collecting soil samples during petroleum dispenser and piping removal. These procedures ensure that the samples are collected, handled, and documented in compliance with California Administration Code Title 23: Waters; Chapter 3: Water Resources Control Board; Subchapter 16: Underground Storage Tank Regulations (Title 23). Cambria's sampling procedures are based on guidelines contained in the California State Regional Water Quality Control Board Tri-Regional Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites dated August 10, 1990.

### **Piping and Dispenser Removal Sampling**

The objective of sample collection during routine dispenser and piping removals is to determine whether hydrocarbons or other stored chemicals have leaked to the subsurface. We collect one soil sample from the native soil beneath each dispenser unit, at each piping elbow, and at every 20 ft of product piping, as applicable.

The soil samples are collected in steam cleaned brass or steel tubes from either a driven split-spoon type sampler or the bucket of a backhoe. When a backhoe is used, approximately three inches of soil are scraped from the surface and the tube is driven into the exposed soil.

Upon removal from the split-spoon sampler or the backhoe, the samples are trimmed flush, capped with Teflon sheets and plastic end caps, labeled, logged and refrigerated for delivery under chain of custody to a State certified analytic laboratory.



**Appendix B**  
**Certified Analytical Reports**

**Cambria Environmental Emeryville**

May 10, 2004

5900 Hollis Street, Ste. A  
Emeryville, CA 94608

Attn.: Ana Friel

Project#: 216-0735

Project: 135683

Site: 9750 Golf Links Road, Oakland

Attached is our report for your samples received on 04/23/2004 13:00

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 06/07/2004 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: [vvancil@stl-inc.com](mailto:vvancil@stl-inc.com)

Sincerely,



Vincent Vancil  
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](http://www.stl-inc.com) \* CA DHS ELAP# 2496

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

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 216-0735  
135683

Received: 04/23/2004 13:00

Site: 9750 Golf Links Road, Oakland

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
P-3-5'	04/23/2004 11:30	Soil	3
P-4-5'	04/23/2004 11:45	Soil	4

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

Cambria Environmental Emeryville

Attn.: Ana Friel

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

Project: 216-0735  
135683

Received: 04/23/2004 13:00

Site: 9750 Golf Links Road, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	P-3-5	Lab ID:	2004-04-0775 - 3
Sampled:	04/23/2004 11:30	Extracted:	5/7/2004 10:16
Matrix:	Soil	QC Batch#:	2004/05/07-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	05/07/2004 10:16	
Benzene	ND	0.0050	mg/Kg	1.00	05/07/2004 10:16	
Toluene	ND	0.0050	mg/Kg	1.00	05/07/2004 10:16	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/07/2004 10:16	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/07/2004 10:16	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	05/07/2004 10:16	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	112.3	70-121	%	1.00	05/07/2004 10:16	
Toluene-d8	96.8	81-117	%	1.00	05/07/2004 10:16	

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

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 216-0735  
135683

Received: 04/23/2004 13:00

Site: 9750 Golf Links Road, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	P-4-5	Lab ID:	2004-04-0775-4
Sampled:	04/23/2004 11:45	Extracted:	5/7/2004 10:38
Matrix:	Soil	QC Batch#:	2004/05/07-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	05/07/2004 10:38	
Benzene	ND	0.0050	mg/Kg	1.00	05/07/2004 10:38	
Toluene	ND	0.0050	mg/Kg	1.00	05/07/2004 10:38	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	05/07/2004 10:38	
Total xylenes	ND	0.0050	mg/Kg	1.00	05/07/2004 10:38	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	05/07/2004 10:38	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	99.3	70-121	%	1.00	05/07/2004 10:38	
Toluene-d8	103.8	81-117	%	1.00	05/07/2004 10:38	

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

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

Project: 216-0735  
135683

Received: 04/23/2004 13:00

Site: 9750 Golf Links Road, Oakland

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank		Soil		QC Batch # 2004/05/07-1B.62	
MB: 2004/05/07-1B.62-056				Date Extracted: 05/07/2004 08:56	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.000	mg/Kg	05/07/2004 08:56	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	05/07/2004 08:56	
Benzene	ND	0.0050	mg/Kg	05/07/2004 08:56	
Toluene	ND	0.0050	mg/Kg	05/07/2004 08:56	
Ethyl benzene	ND	0.0050	mg/Kg	05/07/2004 08:56	
Total xylenes	ND	0.0050	mg/Kg	05/07/2004 08:56	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	117.0	70-121	%	05/07/2004 08:56	
Toluene-d8	99.0	81-117	%	05/07/2004 08:56	

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

Cambria Environmental Emeryville

Attn.: Ana Friel

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

Project: 216-0735  
135683

Received: 04/23/2004 13:00

Site: 9750 Golf Links Road, Oakland

Batch QC Report									
Prep(s): 503DB					Test(s): 8260B				
Laboratory Control Spike			Soil		QC Batch # 2004/05/07-1B.62				
LCS	2004/05/07-1B.62-012		Extracted: 05/07/2004		Analyzed: 05/07/2004 08:12				
LCSD	2004/05/07-1B.62-034		Extracted: 05/07/2004		Analyzed: 05/07/2004 08:34				

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0558	0.0613	0.05	111.6	122.6	9.4	65-165	20		
Benzene	0.0507	0.0539	0.05	101.4	107.8	6.1	69-129	20		
Toluene	0.0500	0.0543	0.05	100.0	108.6	8.2	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	572	586	500	114.4	117.2		70-121			
Toluene-d8	466	501	500	93.2	100.2		81-117			

**Gas/BTEXFuel Oxygenates by 8260B (High Level)**

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 216-0735  
135683

Received: 04/23/2004 13:00

Site: 9750 Golf Links Road, Oakland

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
P-1-5`	04/23/2004 11:00	Soil	1
P-2-5`	04/23/2004 11:15	Soil	2



**Gas/BTEXFuel Oxygenates by 8260B (High Level)**

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 216-0735

135683

Received: 04/23/2004 13:00

Site: 9750 Golf Links Road, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	P-1-5	Lab ID:	2004-04-0775-1
Sampled:	04/23/2004 11:00	Extracted:	5/7/2004 19:43
Matrix:	Soil	QC Batch#:	2004/05/07-3A.69
Analysis Flag: o ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	3200	100	mg/Kg	2.00	05/07/2004 19:43	
Benzene	ND	1.0	mg/Kg	2.00	05/07/2004 19:43	
Toluene	1.1	1.0	mg/Kg	2.00	05/07/2004 19:43	
Ethyl benzene	ND	1.0	mg/Kg	2.00	05/07/2004 19:43	
Total xylenes	160	1.0	mg/Kg	2.00	05/07/2004 19:43	
Methyl tert-butyl ether (MTBE)	ND	1.0	mg/Kg	2.00	05/07/2004 19:43	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	NA	70-121	%	2.00	05/07/2004 19:43	sd
Toluene-d8	NA	81-117	%	2.00	05/07/2004 19:43	sd

**Gas/BTEXFuel Oxygenates by 8260B (High Level)**

Cambria Environmental Emeryville

Attn.: Ana Friel

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

Project: 216-0735  
135683

Received: 04/23/2004 13:00

Site: 9750 Golf Links Road, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	P-2-5	Lab ID:	2004-04-0775 - 2
Sampled:	04/23/2004 11:15	Extracted:	05/07/2004 20:05
Matrix:	Soil	QC Batch#:	2004/05/07-3A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	710	50	mg/Kg	1.00	05/07/2004 20:05	
Benzene	ND	0.50	mg/Kg	1.00	05/07/2004 20:05	
Toluene	ND	0.50	mg/Kg	1.00	05/07/2004 20:05	
Ethyl benzene	0.97	0.50	mg/Kg	1.00	05/07/2004 20:05	
Total xylenes	1.8	0.50	mg/Kg	1.00	05/07/2004 20:05	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	1.00	05/07/2004 20:05	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	97.5	70-121	%	1.00	05/07/2004 20:05	
Toluene-d8	94.6	81-117	%	1.00	05/07/2004 20:05	

**Gas/BTEXFuel Oxygenates by 8260B (High Level)**

Cambria Environmental Emeryville

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Emeryville, CA 94608

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

Project: 216-0735  
135683

Received: 04/23/2004 13:00

Site: 9750 Golf Links Road, Oakland

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank		Soil		QC Batch # 2004/05/07-3A.69	
MB: 2004/05/07-3A.69-000				Date Extracted: 05/07/2004 19:00	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	mg/Kg	05/07/2004 19:00	
Benzene	ND	0.50	mg/Kg	05/07/2004 19:00	
Toluene	ND	0.50	mg/Kg	05/07/2004 19:00	
Ethyl benzene	ND	0.50	mg/Kg	05/07/2004 19:00	
Total xylenes	ND	0.50	mg/Kg	05/07/2004 19:00	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	05/07/2004 19:00	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	93.5	70-121	%	05/07/2004 19:00	
Toluene-d8	100.2	81-117	%	05/07/2004 19:00	

**Gas/BTEX Fuel Oxygenates by 8260B (High Level)**

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 216-0735  
135683

Received: 04/23/2004 13:00

Site: 9750 Golf Links Road, Oakland

Batch QC Report					
Prep(s): 5030B			Test(s): 8260B		
Laboratory Control Spike		Soil		QC Batch # 2004/05/07-3A.69	
LCS	2004/05/07-3A.69-024	Extracted:	05/07/2004	Analyzed:	05/07/2004 18:24
LCSD	2004/05/07-3A.69-042	Extracted:	05/07/2004	Analyzed:	05/07/2004 18:42

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	9.13	9.57	10	91.3	95.7	4.7	69-129	20		
Toluene	9.68	10.3	10	96.8	103.0	6.2	70-130	20		
Methyl tert-butyl ether (MTBE)	9.91	9.33	10	99.1	93.3	6.0	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	220	204	250	88.0	81.6		70-121			
Toluene-d8	246	245	250	98.4	98.0		81-117			

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

05/10/2004 17:50

**Gas/BTEXFuel Oxygenates by 8260B (High Level)**

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 216-0735  
135683

Received: 04/23/2004 13:00

Site: 9750 Golf Links Road, Oakland

Legend and Notes

**Analysis Flag**

o

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

**Result Flag**

sd

Surrogate recovery not reportable due to required dilution.

STL-San Francisco

# SHELL Chain Of Custody Record

85161

1220 Quarry Lane

Pleasanton, CA 94568

(925) 484-1919 (925) 484-1099 fax

Shell Project Manager to be Invoiced:

- SOILS & ENGINEERING
- TECHNICAL SERVICES
- OIL & GAS

Perry Parada

## 2004-04-0775

INVOICE NUMBER (SAE ONLY)

SAP CLIENT NUMBER (SAP CRM)

1 3 5 6 8 3

DATE: 4/23/04

PAGE: 1 of 1

SAMPLING COMPANY: CAMBRIA ENVIRONMENTAL TECHNOLOGY INC		ADDRESS: 9750 Golf Links Road, Oakland	PHONE NO:	GLOBAL UNIT:
ADDRESS: 5600 HOLLIS ST, Suite A, Emeryville, CA 94608		EMAIL: shelloakland@cambria-env.com	CONSULTANT PROJECT NO: 218-0735	
PROJECT CONTACT (Name & Title): Ana Friel		CONTACT NAME: Jason Gerke		
TELEPHONE: 707-442-2700	FAX: 707-442-2700	EMAIL: afriel@cambria-env.com		

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

LA - RIVOC REPORT FORMAT  LIST AGENCY:

COMMITTEE CONFIRMATION: HIGHEST: \_\_\_\_\_ HIGHEST per BORING: \_\_\_\_\_ ALL \_\_\_\_\_

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

cc: Report to Jason Gerke at jgerke@cambria-env.com

REQUESTED ANALYSIS												FIELD NOTES: Contains/Preservative or PID Readings for Laboratory Notes  4 of  TEMPERATURE ON RECEIPT: 010 12.0			
TPH - Fluorimetric	TPH - Extractable (distill)	BTEX	MTBE	TBA	S-Occupant	1,2 DCA and EDB	Ethanol	Methanol	VOCs by Azeotig	Semi-volatiles by 4290C	Lead <input type="checkbox"/> Total <input type="checkbox"/> Pb/C <input type="checkbox"/> Total		Asbestos <input type="checkbox"/> Total <input type="checkbox"/> Pb/C <input type="checkbox"/> Total	CM17 <input type="checkbox"/> Total <input type="checkbox"/> Pb/C <input type="checkbox"/> Total	Test for Disposal (See Attached)

Field Sample Identification	SAMPLING		MATRIX	NO. OF GOVT.	TPH - Fluorimetric	TPH - Extractable (distill)	BTEX	MTBE	TBA	S-Occupant	1,2 DCA and EDB	Ethanol	Methanol	VOCs by Azeotig	Semi-volatiles by 4290C	Lead <input type="checkbox"/> Total <input type="checkbox"/> Pb/C <input type="checkbox"/> Total	Asbestos <input type="checkbox"/> Total <input type="checkbox"/> Pb/C <input type="checkbox"/> Total	CM17 <input type="checkbox"/> Total <input type="checkbox"/> Pb/C <input type="checkbox"/> Total	Test for Disposal (See Attached)	TIME	
	DATE	TIME																			
P-1-5'	4/23/04	11:00	Soil	1	X		XX														
P-2-5'		11:15																			
P-3-5'		11:30																			
P-4-5'		11:45																			

Prepared by (Signature): <i>[Signature]</i>	Reviewed by (Signature): <i>[Signature]</i>	Date: 4/23/04	Time: 4:00 pm
Prepared by (Signature): <i>[Signature]</i>	Reviewed by (Signature): <i>[Signature]</i>	Date: 4/23/04	Time: 13:00
Prepared by (Signature): <i>[Signature]</i>	Reviewed by (Signature): <i>[Signature]</i>	Date: 4/23/04	Time: 17:15

Circle Kover: (714) 944-8742

**Cambria Environmental Emeryville**

April 30, 2004

5900 Hollis Street, Ste. A  
Emeryville, CA 94608

Attn.: Ana Friel

Project#: 216-0735

Site: 9750 Golf Links Road, Oakland

Attached is our report for your samples received on 04/21/2004 18:45

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 06/05/2004 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: [vwancil@stl-inc.com](mailto:vwancil@stl-inc.com)

Sincerely,



Vincent Vancil  
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](http://www.stl-inc.com) \* CA DHS ELAP# 2496

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

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 216-0735

Received: 04/21/2004 18:45

Site: 9750 Golf Links Road, Oakland

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
D-1-4.5	04/15/2004 09:45	Soil	1
D-2-4.5	04/15/2004 09:53	Soil	2
D-4-4.5	04/15/2004 10:30	Soil	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

04/30/2004 12:07



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

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 216-0735

Received: 04/21/2004 18:45

Site: 9750 Golf Links Road, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	D-1-4.5	Lab ID:	2004-04-0681-1
Sampled:	04/15/2004 09:45	Extracted:	4/28/2004 14:10
Matrix:	Soil	QC Batch#:	2004/04/28-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	6.1	1.0	mg/Kg	1.00	04/28/2004 14:10	g
Benzene	ND	0.0050	mg/Kg	1.00	04/28/2004 14:10	
Toluene	ND	0.0050	mg/Kg	1.00	04/28/2004 14:10	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/28/2004 14:10	
Total xylenes	ND	0.0050	mg/Kg	1.00	04/28/2004 14:10	
Methyl tert-butyl ether (MTBE)	0.060	0.0050	mg/Kg	1.00	04/28/2004 14:10	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	104.3	70-121	%	1.00	04/28/2004 14:10	
Toluene-d8	88.1	81-117	%	1.00	04/28/2004 14:10	

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

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 216-0735

Received: 04/21/2004 18:45

Site: 9750 Golf Links Road, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	D-2-4-5	Lab ID:	2004-04-0681-2
Sampled:	04/16/2004 09:53	Extracted:	4/28/2004 14:32
Matrix:	Soil	QC Batch#:	2004/04/28-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/28/2004 14:32	
Benzene	ND	0.0050	mg/Kg	1.00	04/28/2004 14:32	
Toluene	ND	0.0050	mg/Kg	1.00	04/28/2004 14:32	
Ethyl benzene	0.021	0.0050	mg/Kg	1.00	04/28/2004 14:32	
Total xylenes	0.010	0.0050	mg/Kg	1.00	04/28/2004 14:32	
Methyl tert-butyl ether (MTBE)	0.035	0.0050	mg/Kg	1.00	04/28/2004 14:32	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	101.4	70-121	%	1.00	04/28/2004 14:32	
Toluene-d8	98.0	81-117	%	1.00	04/28/2004 14:32	

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

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A  
Emeryville, CA 94608  
Phone: (510) 420-0700 Fax: (510) 420-9170  
Project: 216-0735

Received: 04/21/2004 18:45

Site: 9750 Golf Links Road, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	D-4-4.5	Lab ID:	2004-04-0681-4
Sampled:	04/15/2004 10:30	Extracted:	4/28/2004 20:57
Matrix:	Soil	QC Batch#:	2004/04/28-2C 62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	4.7	1.0	mg/Kg	1.00	04/28/2004 20:57	g
Benzene	ND	0.0050	mg/Kg	1.00	04/28/2004 20:57	
Toluene	ND	0.0050	mg/Kg	1.00	04/28/2004 20:57	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/28/2004 20:57	
Total xylenes	ND	0.0050	mg/Kg	1.00	04/28/2004 20:57	
Methyl tert-butyl ether (MTBE)	0.013	0.0050	mg/Kg	1.00	04/28/2004 20:57	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	100.5	70-121	%	1.00	04/28/2004 20:57	
Toluene-d8	92.7	81-117	%	1.00	04/28/2004 20:57	

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

Cambria Environmental Emeryville

Attn.: Ana Friel

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

Project: 216-0735

Received: 04/21/2004 18:45

Site: 9750 Golf Links Road, Oakland

Batch QC Report					
Prep(s): 5030B		Soil		Test(s): 8260B	
Method Blank				QC Batch # 2004/04/28-1B.62	
MB: 2004/04/28-1B.62-058				Date Extracted: 04/28/2004 09:58	
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.000	mg/Kg	04/28/2004 09:58	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	04/28/2004 09:58	
Benzene	ND	0.0050	mg/Kg	04/28/2004 09:58	
Toluene	ND	0.0050	mg/Kg	04/28/2004 09:58	
Ethyl benzene	ND	0.0050	mg/Kg	04/28/2004 09:58	
Total xylenes	ND	0.0050	mg/Kg	04/28/2004 09:58	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	116.6	70-121	%	04/28/2004 09:58	
Toluene-d8	94.4	81-117	%	04/28/2004 09:58	

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

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 216-0735

Received: 04/21/2004 18:45

Site: 9750 Golf Links Road, Oakland

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank		Soil		QC Batch # 2004/04/28-2C.62	
MB: 2004/04/28-2C.62-034				Date Extracted: 04/28/2004 18:34	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.000	mg/Kg	04/28/2004 18:34	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	04/28/2004 18:34	
Benzene	ND	0.0050	mg/Kg	04/28/2004 18:34	
Toluene	ND	0.0050	mg/Kg	04/28/2004 18:34	
Ethyl benzene	ND	0.0050	mg/Kg	04/28/2004 18:34	
Total xylenes	ND	0.0050	mg/Kg	04/28/2004 18:34	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	110.3	70-121	%	04/28/2004 18:34	
Toluene-d8	89.5	81-117	%	04/28/2004 18:34	

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

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 216-0735

Received: 04/21/2004 18:45

Site: 9750 Golf Links Road, Oakland

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Soil			QC Batch # 2004/04/28-1B.62			
LCS	2004/04/28-1B.62-014		Extracted: 04/28/2004			Analyzed: 04/28/2004 09:14			
LCSD	2004/04/28-1B.62-036		Extracted: 04/28/2004			Analyzed: 04/28/2004 09:36			

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0601	0.0682	0.05	120.2	136.4	12.6	65-165	20		
Benzene	0.0467	0.0502	0.05	93.4	100.4	7.2	69-129	20		
Toluene	0.0507	0.0527	0.05	101.4	105.4	3.9	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	527	587	500	105.4	117.4		70-121			
Toluene-d8	473	503	500	94.6	100.6		81-117			

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

04/30/2004 12:07

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

Cambria Environmental Emeryville  
Attn.: Ana Friel

5900 Hollis Street, Ste. A  
Emeryville, CA 94608  
Phone: (510) 420-0700 Fax: (510) 420-9170  
Project: 216-0735

Received: 04/21/2004 18:45

Site: 9750 Golf Links Road, Oakland

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Laboratory Control Spike	Soil	QC Batch # 2004/04/28-2C.62	
LCS 2004/04/28-2C.62-049	Extracted: 04/28/2004	Analyzed: 04/28/2004 17:49	
LCSD 2004/04/28-2C.62-012	Extracted: 04/28/2004	Analyzed: 04/28/2004 18:12	

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0523	0.0554	0.05	104.6	110.8	5.8	65-165	20		
Benzene	0.0437	0.0458	0.05	87.4	91.6	4.7	69-129	20		
Toluene	0.0497	0.0473	0.05	99.4	94.6	4.9	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	505	513	500	101.0	102.6		70-121			
Toluene-d8	468	473	500	93.6	94.6		81-117			

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

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 216-0735

Received: 04/21/2004 18:45

Site: 9750 Golf Links Road, Oakland

Legend and Notes

**Result Flag**

g

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



**Gas/BTEXFuel Oxygenates by 8260B (High Level)**

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 216-0735

Received: 04/21/2004 18:45

Site: 9750 Golf Links Road, Oakland

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
D-3-4.5	04/15/2004 10:10	Soil	3

**Gas/BTEXFuel Oxygenates by 8260B (High Level)**

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 216-0735

Received: 04/21/2004 18:45

Site: 9750 Golf Links Road, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	D-3-4.5	Lab ID:	2004-04-0681 - 3
Sampled:	04/15/2004 10:10	Extracted:	4/28/2004 11:00
Matrix:	Soil	QC Batch#:	2004/04/28-3A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	380	50	mg/Kg	1.00	04/28/2004 21:06	g
Benzene	ND	0.50	mg/Kg	1.00	04/28/2004 21:06	
Toluene	ND	0.50	mg/Kg	1.00	04/28/2004 21:06	
Ethyl benzene	ND	0.50	mg/Kg	1.00	04/28/2004 21:06	
Total xylenes	ND	0.50	mg/Kg	1.00	04/28/2004 21:06	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	1.00	04/28/2004 21:06	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	94.4	70-121	%	1.00	04/28/2004 21:06	
Toluene-d8	98.5	81-117	%	1.00	04/28/2004 21:06	

**Gas/BTEXFuel Oxygenates by 8260B (High Level)**

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 216-0735

Received: 04/21/2004 18:45

Site: 9750 Golf Links Road, Oakland

Batch QC Report					
Prep(s): 5030E				Test(s): 8260B	
Method Blank		Soil		QC Batch # 2004/04/28-3A.66	
MB: 2004/04/28-3A.66-037				Date Extracted: 04/28/2004 16:37	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	mg/Kg	04/28/2004 16:37	
Benzene	ND	0.50	mg/Kg	04/28/2004 16:37	
Toluene	ND	0.50	mg/Kg	04/28/2004 16:37	
Ethyl benzene	ND	0.50	mg/Kg	04/28/2004 16:37	
Total xylenes	ND	0.50	mg/Kg	04/28/2004 16:37	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	04/28/2004 16:37	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	92.0	70-121	%	04/28/2004 16:37	
Toluene-d8	96.3	81-117	%	04/28/2004 16:37	

**Gas/BTEXFuel Oxygenates by 8260B (High Level)**

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 216-0735

Received: 04/21/2004 18:45

Site: 9750 Golf Links Road, Oakland

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Soil			QC Batch # 2004/04/28-3A.66			
LCS	2004/04/28-3A.66-049		Extracted: 04/28/2004			Analyzed: 04/28/2004 16:49			
LCSD	2004/04/28-3A.66-013		Extracted: 04/28/2004			Analyzed: 04/28/2004 16:13			

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	9.78	9.89	10.00	97.8	98.9	1.1	69-129	20		
Toluene	9.92	9.22	10.00	99.2	92.2	7.3	70-130	20		
Methyl tert-butyl ether (MTBE)	8.61	8.85	10.00	86.1	88.5	2.7	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	221	213	250	88.4	85.2		70-121			
Toluene-d8	244	235	250	97.6	94.0		81-117			

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

04/30/2004 12:02

**Gas/BTEXFuel Oxygenates by 8260B (High Level)**

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 216-0735

Received: 04/21/2004 18:45

Site: 9750 Golf Links Road, Oakland

Legend and Notes

**Result Flag**

g

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

1220 Quarry Lane  
Pleasanton, CA 94586

(925) 484-1819 (925) 484-1096 fax

Shell Project Manager to be involved:

- SCIENCE & ENGINEERING Perry Penida
- TECHNICAL SERVICES
- OILY INDUSTRIES

**2004-04-0681**

INCIDENT NUMBER (EOL ONLY)							
TAG NUMBER (EOL ONLY)							

DATE: 4/15/04

PAGE: 1 of 1

**SAMPLING COMPANY: CAMBRIA ENVIRONMENTAL TECHNOLOGY INC**  
**ADDRESS:**  
 5900 HOLLIS ST, Suite A, Emeryville, CA 94608  
**REQUEST:** Diesel Fuel (Sampling & POC) (see log)  
**Analyst:**  
 Angela Friel  
**TELEPHONE:** 707-442-2700 **FAX:** 707-442-2700 **EMAIL:** afriel@cambria-env.com

**SITE ADDRESS (See Permit and Chain of Custody):**  
 9750 Golf Links Road, Oakland  
**HOW DELIVERABLE TO BUSINESS (Permit #):**  
 shelloakland@cambria-env.com  
**PHONE NO.:** **FAX:** **CONSULTANT PROJECT NO.:** 216-0785  
**SAMPLER NAME (Permit #):**  
 Jason Gerke

**TURNAROUND TIME (BUSINESS DAYS):**  
 3 DAYS  5 DAYS  72 HOURS  48 HOURS  24 HOURS  LESS THAN 24 HOURS  
 LA - ENVOIR REPORT FORMAT  LIST AGENCY  
**GDMS MISE CONFIRMATION:** HIGHEST \_\_\_\_\_ HIGHEST per BOPMS \_\_\_\_\_ ALL \_\_\_\_\_  
**SPECIAL INSTRUCTIONS OR NOTES:** CHECK BOX IF EOL IS NOT NEEDED   
 cc: Report to Jason Gerke at jgerke@cambria-env.com

**REQUESTED ANALYSIS:**

TPH - Purgeable	TPH - Extractable (Bentley)	STEX	MTEB	TBA	8 Oxygenation	1,2 DCA and EDB	Stannol	Methanol	VOCs by 30406	Semi-Volatiles by 3070C	Landfill by 30406	Limits to test 0 limits to test	CAATY 0 raw 0 MTO 0 TOU	Test for Disposal (See Attached)	YAME	<b>FIELD NOTES:</b> Contains Preservative or PID Readings or Laboratory Notes  TEMPERATURE ON RECEIPT OF: 3.0
-----------------	-----------------------------	------	------	-----	---------------	-----------------	---------	----------	---------------	-------------------------	-------------------	---------------------------------	-------------------------	----------------------------------	------	--

Field Sample Identification	SAMPLING		MTRK	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (Bentley)	STEX	MTEB	TBA	8 Oxygenation	1,2 DCA and EDB	Stannol	Methanol	VOCs by 30406	Semi-Volatiles by 3070C	Landfill by 30406	Limits to test 0 limits to test	CAATY 0 raw 0 MTO 0 TOU	Test for Disposal (See Attached)	YAME			
	DATE	TIME																					
D-1-4.5	4/15/04	NS	Soil	1	X		Y																
D-2-4.5		953		1	X		Y																
D-3-4.5		1010		1	Y		Y																
D-4-4.5		1030		1	X		Y																

**Requested by (Signature):** *[Signature]* **Requested by (Print Name):** *[Signature]*  
**Requested by (Signature):** *[Signature]* **Requested by (Print Name):** *[Signature]*  
**Requested by (Signature):** *[Signature]* **Requested by (Print Name):** *[Signature]*  
**Date:** 4/21/04 18:15 **Date:** 4-21-04 **Date:** 4/21/04 18:05

## **Appendix C**

### **Stockpile Analytical Report and Soil Disposal Confirmation**



**FAXED**  
5-25-04

Hazardous Waste Hauler (Registration #2843)

8896 Elder Creek Rd. • Sacramento, CA 95828 • FAX (916) 381-1573

### Disposal Confirmation

Request for Transportation Received: 04/30/04

### Consultant Information

Company: Cambria Environmental  
Contact: Jason Gerke  
Phone: 510-420-3320  
Fax: 510-420-9170

### Site Information

Station #: N/A  
Street Address: 9750 Golflinks Rd.  
City, State, ZIP: Oakland, CA

Customer: Shell Oil Company RESA-0023-LDC  
RIPR #: 34521  
SAP # / Location: 135683  
Incident #: \_\_\_\_\_  
Location / WIC #: N/A  
Environmental Engineer: Bill Merchant

Material Description: Contaminated Soil  
Estimated Quantity: \_\_\_\_\_  
Service Requested Date: \_\_\_\_\_

Disposal Facility: Forward Landfill  
Contact: Joe Griffith  
Phone: 800 204-4242  
Approval #: 4443  
Date of Disposal: 05/05/04  
Actual Tonnage: 41

Transporter: Manley & Sons Trucking, Inc.  
Contact: Lora Cardenas  
Phone: 916 381-6864  
Fax: 916 381-1573  
Invoice: \_\_\_\_\_  
Date of Invoice: \_\_\_\_\_



**Cambria Environmental Emeryville**

April 29, 2004

5900 Hollis Street, Ste. A  
Emeryville, CA 94608

Attn.: Ana Friel

Project#: 216-0735

Project: CRMT # 135683

Site: 9750 Golf Links Road, Oakland

Attached is our report for your samples received on 04/21/2004 16:30

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 06/05/2004 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: [vvancil@stl-inc.com](mailto:vvancil@stl-inc.com)

Sincerely,



Vincent Vancil  
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](http://www.stl-inc.com) \* CA DHS ELAP# 2496

**Total Lead**

Cambria Environmental Emeryville  
Attn.: Ana Friel

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

Project: 216-0735  
CRMT # 135683

Received: 04/21/2004 16:30

Site: 9750 Golf Links Road, Oakland

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SP-1	04/15/2004 09:00	Soil	1

**Total Lead**

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Project: 216-0735

CRMT # 135683

Received: 04/21/2004 16:30

Site: 9750 Golf Links Road, Oakland

Prep(s):	3050B	Test(s):	6010B
Sample ID:	SP-1	Lab ID:	2004-04-0658-1
Sampled:	04/15/2004 09:00	Extracted:	4/24/2004 13:58
Matrix:	Soil	QC Batch#:	2004/04/24-02.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	7.2	1.0	mg/Kg	1.00	04/26/2004 10:43	

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

04/26/2004 15:59

Page 2 of 4

**Total Lead**

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

Project: 216-0735

CRMT # 135683

Received: 04/21/2004 16:30

Site: 9750 Golf Links Road, Oakland

Batch QC Report					
Prep(s): 3050B		Soil		Test(s): 6010B	
Method Blank				QC Batch # 2004/04/24-02.15	
MB: 2004/04/24-02.15-041				Date Extracted: 04/24/2004 13:58	
Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	04/26/2004 10:32	

**Total Lead**

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Project: 216-0735  
CRMT # 135683

Received: 04/21/2004 16:30

Site: 9750 Golf Links Road, Oakland

Batch QC Report									
Prep(s): 3050B					Test(s): 8010B				
Laboratory Control Spike			Soil			QC Batch # 2004/04/24-02.15			
LCS	2004/04/24-02.15-042		Extracted: 04/24/2004			Analyzed: 04/26/2004 10:36			
LCSD	2004/04/24-02.15-043		Extracted: 04/24/2004			Analyzed: 04/26/2004 10:40			

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	91.6	95.2	100.0	91.6	95.2	3.9	80-120	20		

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

Cambria Environmental Emeryville

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

Project: 216-0735

CRMT # 135683

Received: 04/21/2004 16:30

Site: 9750 Golf Links Road, Oakland

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SP-1	04/15/2004 09:00	Soil	1

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

Cambria Environmental Emeryville

Attn.: Ana Friel

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

Project: 216-0735  
CRMT # 135683

Received: 04/21/2004 16:30

Site: 9750 Golf Links Road, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SP-1	Lab ID:	2004-04-0658-1
Sampled:	04/15/2004 09:00	Extracted:	4/29/2004 13:49
Matrix:	Soil	QC Batch#:	2004/04/29-01.82
Analysis Flag: 0 ( See Legend and Note Section )			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	27	5.0	mg/Kg	4.95	04/29/2004 13:49	
Benzene	ND	0.025	mg/Kg	4.95	04/29/2004 13:49	
Toluene	ND	0.025	mg/Kg	4.95	04/29/2004 13:49	
Ethyl benzene	0.057	0.025	mg/Kg	4.95	04/29/2004 13:49	
Total xylenes	0.74	0.025	mg/Kg	4.95	04/29/2004 13:49	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	95.2	70-121	%	4.95	04/29/2004 13:49	
Toluene-d8	89.6	81-117	%	4.95	04/29/2004 13:49	

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

Cambria Environmental Emeryville

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Emeryville, CA 94608

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Project: 216-0735

CRMT # 135683

Received: 04/21/2004 16:30

Site: 9750 Golf Links Road, Oakland

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank		Soil		QC Batch # 2004/04/29-01.62	
MB: 2004/04/29-01.62-059				Date Extracted: 04/29/2004 08:59	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	04/29/2004 08:59	
Benzene	ND	0.0050	mg/Kg	04/29/2004 08:59	
Toluene	ND	0.0050	mg/Kg	04/29/2004 08:59	
Ethyl benzene	ND	0.0050	mg/Kg	04/29/2004 08:59	
Total xylenes	ND	0.0050	mg/Kg	04/29/2004 08:59	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	94.8	70-121	%	04/29/2004 08:59	
Toluene-d8	94.0	81-117	%	04/29/2004 08:59	



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

Cambria Environmental Emeryville

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Project: 216-0735  
CRMT # 135683

Received: 04/21/2004 16:30

Site: 9750 Golf Links Road, Oakland

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Soil			QC Batch # 2004/04/29-01.62			
LCS	2004/04/29-01.62-015		Extracted: 04/29/2004		Analyzed: 04/29/2004 08:15				
LCSD	2004/04/29-01.62-037		Extracted: 04/29/2004		Analyzed: 04/29/2004 08:37				

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	47.9	43.1	50.0	95.8	86.2	10.5	69-129	20		
Toluene	53.1	46.1	50.0	106.2	92.2	14.1	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	506	462	500	101.2	92.4		70-121			
Toluene-d8	486	440	500	97.2	88.0		81-117			

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

Cambria Environmental Emeryville

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

Project: 216-0735

CRMT # 135683

Received: 04/21/2004 16:30

Site: 9750 Golf Links Road, Oakland

Legend and Notes

**Analysis Flag**

o

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

# SHELL Chain Of Custody Record

85061

STL-San Francisco

1220 Quarry Lane  
Pleasanton, CA 94566

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

Shell Project Manager to be involved:

- GEOTECHNICAL ENGINEERING
- TECHNICAL SERVICES
- COST ACCOUNTING

Pony Penida

## 2004-04-0658

INCIDENT NUMBER (CAL ONLY)

SAP ID/FORMT NUMBER (SACRM/D)

1 3 5 6 8 3

DATE: 4/15/04

PAGE: 1 of 2

ANALYST COMPANY: CAMBRIA ENVIRONMENTAL TECHNOLOGY INC  
 ADDRESS: 5800 HOLLIS ST, Suite A, Emeryville, CA 94808  
 ANALYST: Ana Frial  
 PHONE: 707-442-2700 FAX: 707-442-2700  
 EMAIL: afrial@cambria-env.com  
 PROJECT CONTACT (Name and Phone):  
 ANALYST NAME (PWS): Jason Gerka  
 SITE ADDRESS (Street and City): 9750 Golf Links Road, Oakland  
 PHONE NO.: EMAIL:  
 COMPANY PROJECT NO.: 218-0735

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

LA - RAOUL REPORT FORMAT  LIST AGENCY

GCMS MS/MS CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per SOP/MS ALL \_\_\_\_\_

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

\* SEE attached for analytical requirements.  
\* Composite SP-1A through SP-1D.

cc: Report to Jason Gerka at jgerka@cambria-env.com

### REQUESTED ANALYSIS

TPH - Petroleum	TPH - Extractable (EOT) (m)	BTEX	MTEB	TBA	6 Organics	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8290B	Semi-Volatiles by 8270C	Lead	CADMT	Test for Disposal (See Attachment)	TRACE
													X	
													X	
													X	
													X	

FIELD NOTES:  
Container/Preservative  
or PID Readings  
or Laboratory Notes

TEMPERATURE ON RECEIPT OF  
3.0

Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.
	DATE	TIME		
SP-1A	4/15/04	900	Soil	1
SP-1B	↓	902	↓	1
SP-1C	↓	905	↓	1
SP-1D	↓	901	↓	1

Requested by: *Jason Gerka* (Signature)  
 Received by: *[Signature]* (Signature)  
 Date: 4/21/04 / 1845  
 Date: 4-21-04 Time: 16:30

CMC Group, Inc. 2004-04-0658