

# RECEIVED

By dehloptoxic at 7:56 am, Mar 06, 2007

### Denis L. Brown

### Shell Oil Products US

HSE – Environmental Service 20945 S. Wilmington Avenu Carson, CA 90810-103' Tel (707) 865 025 Fax (707) 865 254 Email denis.1.brown@shell.com

Mr. Barney Chan Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94205-6577

Re: Former Shell Service Station

461 8<sup>th</sup> Street
Oakland, California
SAP Code: 129453
Incident No. 97093399
ACHCSA Case No. 0343

Dear Mr. Chan:

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

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

Sincerely,

Denis L. Brown Project Manager

March 2, 2007

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

Re: Site Investigation Report

Former Shell Service Station 461 8<sup>th</sup> Street
Oakland, California
Incident No. 97093399
SAP Code 129453
ACHCSA File:RO000343

Dear Mr. Chan:

Cambria Environmental Technology, Inc. (Cambria) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) to document the recent site investigation activities at the above referenced site. The purpose of the investigation was to perform a thorough soil and groundwater investigation beneath former fueling equipment and around the site, since the property is slated for construction soon. The goal was to identify onsite soil and/or groundwater impacts that would explain the impact at offsite downgradient well, S-6. Cambria followed the scope of work and procedures presented in our June 7, 2006 Subsurface Investigation Work Plan, which was approved by the Alameda County Health Care Services Agency (ACHCSA) in their August 29, 2006 letter to Shell.

### **EXECUTIVE SUMMARY**

- All 14 proposed borings were completed at the approximate locations indicated in the work plan.
- Impacted vadose zone soils were identified in B-12 and, to a lesser extent in B-13, B-14, and B-19. Benzene concentrations in vadose zone soils at B-12 exceed the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Soil Environmental Screening Levels (ESLs) for Evaluation of Potential Vapor Intrusion Concerns (Table E-1b) beginning at 10 feet below grade (fbg).

Cambria Environmental Technology, Inc.

19449 Riverside Drive Suite 230 Sonoma, CA 95476 Tel (707) 935-4850 Fax (707) 935-6649



• The grab groundwater samples from each boring (except B-20) indicate impact to groundwater beneath and downgradient (southwest) of the former dispenser islands. Benzene concentrations from nine of the borings are at or above the SFBRWQCB Groundwater ESL for Evaluation of Potential Vapor Intrusion Concerns (Table E-1a) for residential land use with high permeability soils and eight of the grab groundwater samples exceed the benzene ESL for commercial land use with high permeability soil.

### SITE DESCRIPTION AND BACKGROUND



The site is currently a paved parking lot located at the southwest corner of the intersection of 8<sup>th</sup> Street and Broadway in Oakland, California (Figures 1 and 2). The property was leased by American Oil Company from at least 1965 until 1972 when the lease was assigned to Shell Oil Products Company (Shell). A Shell service station operated on the property from 1972 to 1980. The underground storage tanks (USTs) associated with the former Shell service station were removed after Shell terminated operations at the site in May 1980. The subject site is currently used for paid public parking, but is scheduled for re-development.

A summary of previous work performed at the site and additional background information is contained in Attachment A.

### INVESTIGATION RESULTS

Permit:

A drilling permit was obtained from Alameda County Public

Works (Attachment B).

**Drilling Dates:** 

Air knife clearance to 5 feet below grade (fbg) occurred

December 7 & 8, 2006. Completion of the borings occurred

December 11 to 13, 2006.

Drilling Company:

Gregg Drilling and Testing, Inc.

Personnel:

Geologist Matthias Kennerknecht directed the drilling activities

under the supervision of California Professional Geologist Ana

Friel.

Drilling Method:

Geoprobe.

Number of Borings: Fourteen soil borings (B-10 through B-23) were drilled during

this investigation. The boring specifications and soil types encountered are described on the boring logs contained in Attachment C. The boring locations are shown on Figure 2 and

Figure 3.

**Boring Depths:** Ranged between 26 – 29 fbg.

Groundwater Depths: Groundwater was first encountered 23.8 to 25.8 fbg.

Soil Disposal:

Two drums of waste were generated through these field activities. The waste characterization analytical results and disposal confirmation documentation are included in

Attachment D.

#### **FINDINGS**

**Soil:** The soil chemical analytical data are summarized in Table 1 and TPHg and benzene analytical results are presented on Figure 3. Laboratory analytical reports are presented in Attachment E.

*Groundwater:* The groundwater chemical analytical data are summarized in Table 2 and TPHg and benzene analytical results for the groundwater samples are presented on Figure 3. Laboratory analytical reports are presented in Attachment E.

### **DISCUSSION**

Based on the extensive sampling performed recently at this site, it appears that a release of product from near the former dispenser/product piping areas resulted in significant impact to groundwater. Given the sandy nature of the subsurface soils, the impact to soil does not appear to be horizontally extensive. From the borings reported in this investigation, vadose zone impacted soils exist primarily at B-12, and to a lesser extent at B-13, B-14, and B-19. Fuel oxygenates are not present in any of the soil samples with the exception of 0.05 to 0.083 milligrams per kilogram (mg/kg) of tert butyl alcohol at 15 and 20 fbg in B-13 and at 14 fbg in B-14. Lead scavengers (1,2-Dichloroethane [1,2-DCA] and ethylene dibromide [EDB]) were not reported in any soil samples.

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Groundwater impact was reported in every grab groundwater sample except B-20. The highest concentrations of TPHg and BTEX were reported beneath the dispensers and product piping, and directly downgradient (southwest) thereof. The maximum concentration of TPHg was reported in the grab sample from B-22 at 960,000 micrograms per liter ( $\mu$ g/l) and the maximum concentration of benzene was reported in B-10 at 24,000  $\mu$ g/l. None of the five fuel oxygenates were reported in any of the grab groundwater samples. 1,2-DCA was reported in 9 of the 14 water samples at concentrations ranging from 3.0 to 410  $\mu$ g/l, and EDB was reported in one of the 14 water samples (B-12) at a concentration of 52  $\mu$ g/l.



### **CONCLUSIONS**

Based on the results from this investigation, it appears that the groundwater beneath the subject site is more impacted by petroleum than the onsite monitoring well data suggests (particularly S-9). It is possible that the de-watering activities during the installation of the BART tunnel drew impacted groundwater from the site to the south. Free product has not been observed in S-6 since January 2004. Monitoring well S-5 has not been sampled since July 2005 because it was recognized as being in a confined space (inside the storm drain manhole), and neither Blaine Tech (the sampling technicians), nor Cambria perform confined space entry work.

Although the March 27, 2006 Subsurface Investigation report prepared for the property owner by Treadwell & Rollo, Inc. concluded ..."that BTEX in soil gas does not represent a significant risk for indoor air vapor intrusion", the benzene detection limit for each of their samples was elevated and none of the soil vapor samples were analyzed for TPHg. Given the concentrations of TPHg and benzene in the groundwater beneath this site, additional vapor assessment or design of a vapor barrier or mitigation system may be prudent prior to, or in conjunction with, the upcoming site development plans.

### **RECOMMENDATIONS**

Based on the findings and conclusions, the following recommendations are provided:

- Delineate the vertical extent of groundwater impact beneath the site;
- Assess soil gas vapors to evaluate potential development issues;

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- Install a monitoring well near boring B-22 for monitoring and possible groundwater extraction;
- Install a monitoring well along 7<sup>th</sup> Street, downgradient of the site to replace monitoring well S-5 which is no longer accessible due to the issue of confined space entry;
- Delineate the horizontal extent of impact downgradient of impacted well S-6, as requested by the ACEH.



Cambria recommends that a meeting be scheduled with the ACHCSA, Shell, and Cambria to discuss these results and to develop an agreeable scope of work prior to preparing a work plan. Cambria suggests that the property owner and/or developer be included in the meeting to provide specific information about the planned development, schedule, and options for coordinating efforts at this site.

### **CLOSING**

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

Sincerely,

Cambria Environmental Technology, Inc.



Associate Geologist



Figures:

1 - Vicinity Map

2 - Site Plan

3 - Soil and Grab Groundwater Chemical Concentration Map

Tables:

1 - Soil Analytical Data

2 – Grab Groundwater Analytical Data

Attachments:

A - Site History B - Permits

C - Boring Logs

D - Waste Disposal Documentation E - Certified Analytical Reports



cc: Denis Brown, Shell Oil Products US

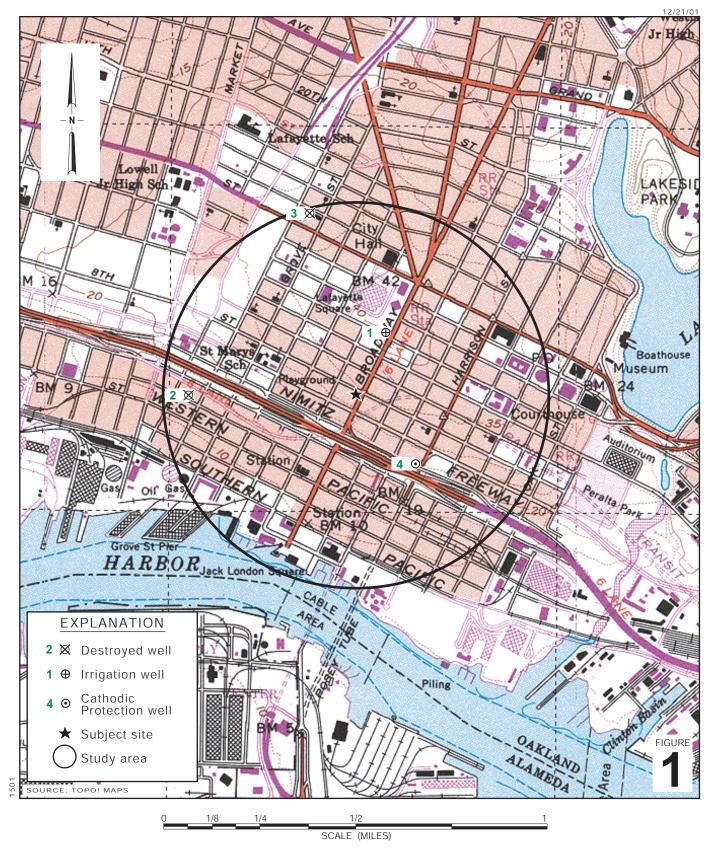
A.F. Evans Company (Property Owners), c/o Greg Lunkes

R. Casteel & Co.

Leroy Griffin, City of Oakland Fire Prevention Bureau

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Former Shell Service Station

461 8th Street Oakland, California



**Vicinity Map** 

1/2 Mile Radius

Site Plan

Former Shell Service Station

461 8th Street Oakland, California

Former Shell Service Station 461 8th Street Oakland, California

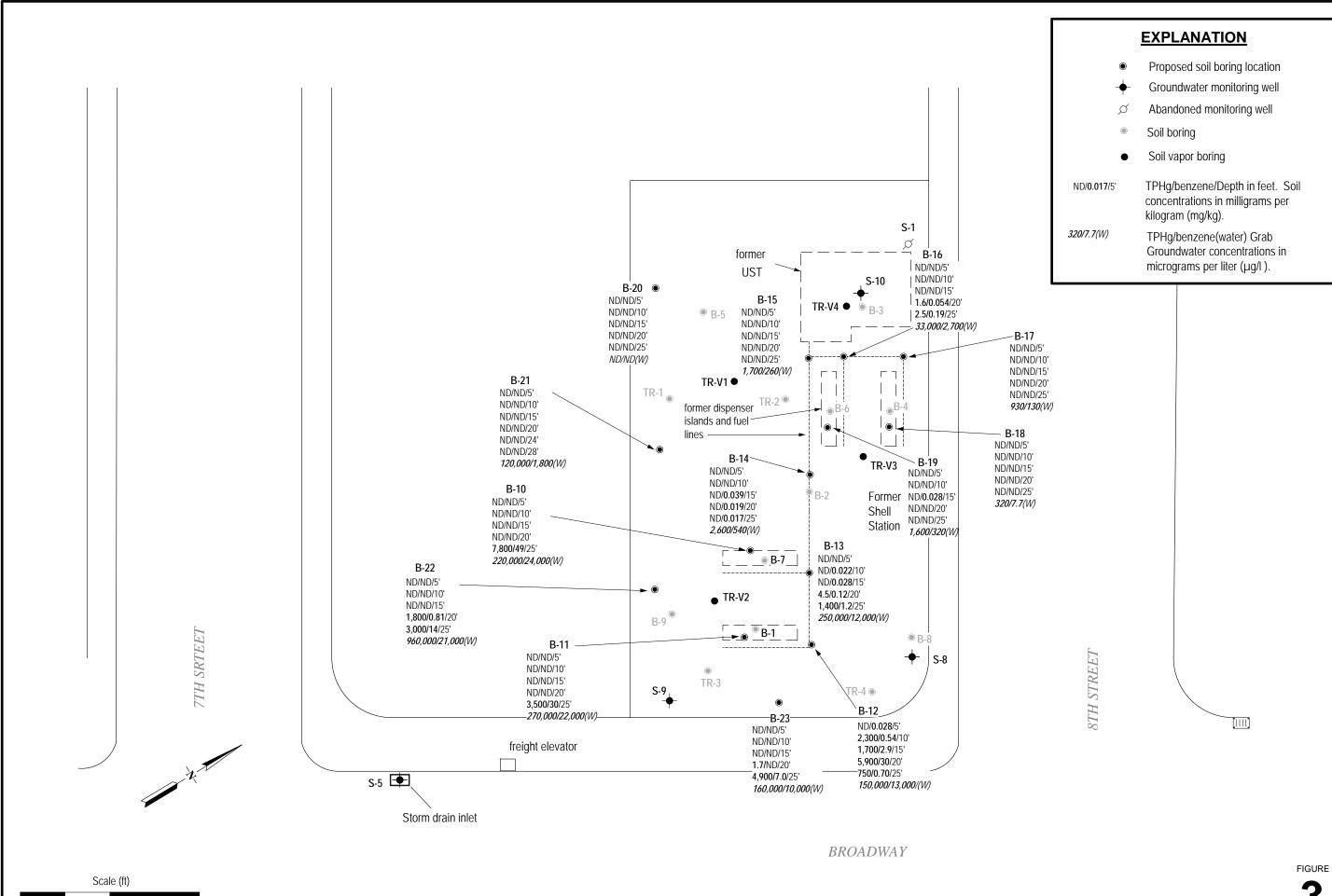


Table 1. Soil Analytical Data, Former Shell-branded Service Station, 461 8th Street, Oakland, California

Sample ID	Sample	Depth	TPHg	В	T	Е	X	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
	Date	(fbg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
B-10-5	12/13/2006	5	<1.0	< 0.0050	<0.0050	< 0.0050	< 0.010	<0.0050	<0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-10-10	12/13/2006	10	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-10-15	12/13/2006	15	<1.0	< 0.0050	< 0.0050	< 0.0050	<0.010	< 0.0050	<0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-10-20	12/13/2006	20	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	<0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-10-25	12/13/2006	25	7,800	49	290	160	800	<0.50	<2.0	<2.0	<2.0	<5.0	<0.50	<0.50
B-11-5	12/13/2006	5	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	<0.0050
B-11-10	12/13/2006	10	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-11-15	12/13/2006	15	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-11-20	12/13/2006	20	<1.0	<0.0050	< 0.0050	< 0.0050	<0.010	<0.0050	<0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-11-25	12/13/2006	25	3,500	30	200	97	510	<0.50	<2.0	<2.0	<2.0	<5.0	<0.50	<0.50
B-12-5	12/11/2006	5	<1.0	0.028	0.018	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	<0.0050
B-12-10	12/11/2006	10	2,300	0.54	7.5	< 0.50	180	< 0.50	<2.0	<2.0	<2.0	<5.0	< 0.50	< 0.50
B-12-15	12/11/2006	15	1,700	2.9	35	22	190	< 0.50	<2.0	<2.0	<2.0	<5.0	< 0.50	< 0.50
B-12-20	12/11/2006	20	5,900	30	250	100	570	< 0.50	<2.0	<2.0	<2.0	<5.0	< 0.50	< 0.50
B-12-25	12/11/2006	25	750	0.70	8.3	13	73	<0.12	<0.50	<0.50	<0.50	<1.2	<0.12	<0.12
B-13-5	12/11/2006	5	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	<0.0050
B-13-10	12/11/2006	10	<1.0	0.022	< 0.0050	< 0.0050	< 0.010	< 0.0050	<0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-13-15	12/11/2006	15	<1.0	0.028	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	0.053	< 0.0050	< 0.0050
B-13-20	12/11/2006	20	4,5	0.12	0.18	0.070	0.54	< 0.0050	< 0.010	< 0.0050	< 0.0050	0.083	< 0.0050	< 0.0050
B-13-25	12/11/2006	25	1,400	1.2	19	17	97	<0.12	<0.50	<0.50	<0.50	<1.2	<0.12	<0.12
B-14-5	12/11/2006	5	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	<0.0050
B-14-10	12/11/2006	10	<2.0	< 0.010	< 0.010	< 0.010	< 0.020	< 0.010	< 0.020	< 0.010	< 0.010	< 0.10	< 0.010	< 0.010
B-14-15	12/11/2006	15	<1.0	0.039	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	0.050	< 0.0050	< 0.0050
B-14-20	12/11/2006	20	<2.0	0.019	< 0.010	< 0.010	< 0.020	< 0.010	< 0.020	< 0.010	< 0.010	< 0.10	< 0.010	< 0.010
B-14-25	12/11/2006	25	<2.0	0.017	<0.010	0.016	0.023	<0.010	<0.020	<0.010	<0.010	<0.10	<0.010	<0.010
B-15-5	12/12/2006	5	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	<0.0050
B-15-10	12/12/2006	10	<1.0	< 0.0050	< 0.0050	<0.0050	<0.010	< 0.0050	< 0.010	< 0.0050	<0.0050	<0.050	< 0.0050	< 0.0050
B-15-15	12/12/2006	15	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	< 0.0050	<0.0050	< 0.050	< 0.0050	< 0.0050
B-15-20	12/12/2006	20	<1.0	< 0.0050	< 0.0050	<0.0050	< 0.010	< 0.0050	< 0.010	< 0.0050	<0.0050	< 0.050	< 0.0050	< 0.0050
B-15-25	12/12/2006	25	<1.0	<0.0050	<0.0050	<0.0050	<0.010	< 0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	<0.0050
B-16-5	12/12/2006	5	<1.0	<0.0050	<0.0050	<0.0050	< 0.010	<0.0050	<0.010	<0.0050	<0.0050	< 0.050	<0.0050	<0.0050
B-16-10	12/12/2006	10	<1.0	< 0.0050	<0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	<0.0050	<0.0050	<0.050	< 0.0050	< 0.0050
B-16-15	12/12/2006	15	<1.0	< 0.0050	<0.0050	<0.0050	< 0.010	< 0.0050	< 0.010	< 0.0050	<0.0050	< 0.050	<0.0050	<0.0050

Table 1. Soil Analytical Data, Former Shell-branded Service Station, 461 8th Street, Oakland, California

Sample ID	Sample	Depth	TPHg	В	T	Е	Х	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
	Date	(fbg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
B-16-20	12/12/2006	20	1.6	0.054	0.11	0.043	0.26	<0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	<0.0050
B-16-25	12/12/2006	25	2.5	0.19	0.17	0.12	0.54	<0.0050	<0.010	<0.0050	< 0.0050	<0.050	<0.0050	<0.0050
B-17-5	12/12/2006	5	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	<0.0050
B-17-10	12/12/2006	10	<1.0	< 0.0050	< 0.0050	<0.0050	< 0.010	< 0.0050	<0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-17-15	12/12/2006	15	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-17-20	12/12/2006	20	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	<0.050	< 0.0050	< 0.0050
B-17-25	12/12/2006	25	<1.0	<0.0050	<0.0050	<0.0050	<0.010	< 0.0050	<0.010	<0.0050	< 0.0050	<0.050	<0.0050	< 0.0050
B-18-5	12/12/2006	5	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	< 0.0050
B-18-10	12/12/2006	10	<1.0	< 0.0050	<0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	< 0.0050	<0.0050	<0.050	< 0.0050	< 0.0050
B-18-15	12/12/2006	15	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-18-20	12/12/2006	20	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-18-25	12/12/2006	25	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	<0.0050
B-19-5	12/12/2006	5	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	<0.0050
B-19-10	12/12/2006	10	<1.0	< 0.0050	< 0.0050	< 0.0050	<0.010	<0.0050	< 0.010	< 0.0050	<0.0050	< 0.050	< 0.0050	< 0.0050
B-19-15	12/12/2006	15	<1.0	0.028	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-19-20	12/12/2006	20	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-19-25	12/12/2006	25	<1.0	<0.0050	<0.0050	<0.0050	<0.010	< 0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	<0.0050
B-20-5	12/11/2006	5	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	< 0.050	<0.0050	<0.0050
B-20-10	12/11/2006	10	<1.0	< 0.0050	< 0.0050	< 0.0050	<0.010	<0.0050	< 0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-20-15	12/11/2006	15	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-20-20	12/11/2006	20	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	<0.0050	< 0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-20-25	12/11/2006	25	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	<0.0050
B-21-5	12/11/2006	5	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.050	< 0.0050	<0.0050
B-21-10	12/11/2006	10	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	<0.0050	<0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-21-15	12/11/2006	15	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-21-20	12/11/2006	20	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-21-24	12/11/2006	24	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	<0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-21-28	12/11/2006	28	<1.0	<0.0050	0.0087	0.011	0.060	<0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	< 0.0050
B-22-5	12/13/2006	5	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	< 0.050	<0.0050	<0.0050
B-22-10	12/13/2006	10	<1.0	<0.0050	<0.0050	<0.0050	<0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-22-15	12/13/2006	15	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-22-20	12/13/2006	20	1,800	0.81	10	26	180	< 0.50	<2.0	<2.0	<2.0	<5.0	< 0.50	< 0.50
B-22-25	12/13/2006	25	3,000	14	140	85	470	< 0.50	<2.0	<2.0	<2.0	<5.0	< 0.50	< 0.50

Table 1. Soil Analytical Data, Former Shell-branded Service Station, 461 8th Street, Oakland, California

Sample ID	Sample	Depth	TPHg	В	T	Е	X	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
	Date	(fbg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
B-23-5	12/12/2006	5	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	<0.0050
B-23-10	12/12/2006	10	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-23-15	12/12/2006	15	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-23-20	12/12/2006	20	1.7	< 0.0050	0.0053	0.010	0.075	< 0.0050	<0.010	< 0.0050	< 0.0050	< 0.050	< 0.0050	< 0.0050
B-23-25	12/12/2006	25	4,900	7.0	78	60	450	< 0.25	<1.0	<1.0	<1.0	<2.5	< 0.25	< 0.25

#### Notes and Abbreviations:

mg/kg = Milligrams per kilogram

All constituents analyzed by GCMS/8260B

TPHg = Total petroleum hydrocarbons as gasoline

BTEX = Benzene, toluene, ethylbenzene, xylenes

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

TBA = Tertiary butyl alcohol

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane

NA = Not analyzed

 $\leq x =$ Not detected at or below reporting limits

Table 2. Grab Groundwater Analytical Data, Former Shell-branded Service Station, 461 8th Street, Oakland, California

Sample ID	Sample	TPHg	В	T	E	x	MTBE	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB
	Date	(μg/l)	(μg/l)	(μg/l)	(μg/l)	(µg/l)	(μg/l)	(μg/l)	(µg/l)	(μg/l)	(μg/l)	(μg/l)	(μg/l)
B-10-W	12/13/2006	220,000	24,000	65,000	4,400	28,000	<50	<200	<200	<200	<500	83	<50
B-11-W	12/13/2006	270,000	22,000	38,000	4,800	30,000	<50	<200	<200	<200	<500	270	<50
B-12-W	12/11/2006	150,000	13,000	18,000	2,800	16,000	<50	<200	<200	<200	<500	<50	52
B-13-W	12/11/2006	250,000	12,000	26,000	2,900	20,000	<12	<50	<50	<50	<120	<12	<12
B-14-W	12/11/2006	2,600	540	18	140	210	<0.50	<200	<200	<200	<500	<50	<5.0
B-15-W	12/12/2006	1,700	260	9.9	180	13	<0.50	<2.0	<2.0	<2.0	<5.0	32	<0.50
B-16-W	12/12/2006	33,000	2,700	1,600	1,500	5,400	<5.0	<20	<20	<20	<50	110	<5.0
B-17-W	12/12/2006	930	130	3.2	86	74	<0.50	<2.0	<2.0	<2.0	<5.0	9.1	<0.50
B-18-W	12/12/2006	320	7.7	0.54	1.2	7.9	<0.50	<2.0	<2.0	<2.0	<5.0	3.0	<0.50
B-19-W	12/12/2006	1,600	320	1.9	110	6.0	<0.50	<2.0	<2.0	<2.0	<5.0	23	<0.50
B-20-W	12/11/2006	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<2.0	<2.0	<2.0	<5.0	<0.50	<0.50
B-21-W	12/11/2006	120,000	1,800	5,600	3,700	19,000	<25	<100	<100	<100	<250	<25	<25
B-22-W	12/13/2006	960,000	21,000	68,000	8,400	81,000	<50	<200	<200	<200	<500	79	<50
B-23-W	12/12/2006	160,000	10,000	15,000	3,300	18,000	<50	<200	<200	<200	<500	410	<50

#### Notes and Abbreviations:

μg/l = Micrograms per liter

All constituents analyzed by GCMS/8260B

TPHg = Total petroleum hydrocarbons as gasoline

BTEX = Benzene, toluene, ethylbenzene, xylenes

MTBE = Methyl tertiary butyl ether

DIPE = Di-isopropyl ether

ETBE = Ethyl tertiary butyl ether

TAME = Tertiary amyl methyl ether

TBA = Tertiary butyl alcohol

1,2-DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane

NA = Not analyzed

<x = Not detected at or below reporting limits

# Attachment A Site History

### Site Background

Former Shell Service Station 461 8th Street Oakland, California

During January 1979, separate phase hydrocarbons (SPH) were reported in a Bay Area Rapid Transit (BART) tunnel under the intersection of 7<sup>th</sup> Street and Broadway. Product line testing at the site indicated a pressure leak, and the product lines were replaced in January 1979. The USTs were also tested for tightness and passed. According to the *Bart Recovery Project Log* (chronological list of events – 1/10/79 through 12/3/81) and a 1981 Groundwater Technology, Inc. *Considerations on Infiltration of Gasoline into BART KE Line* report, one observation well is reported to have been drilled to a depth of 25 feet concurrent with piping replacement with no reports of contamination. Separate-phase product samples taken from the BART tube in January 1979 and in May 1981 reported the product as Shell Regular. Approximately 2,600 gallons (48 55-gallon drums) of a gasoline-and-water mixture are reported to have been removed from the BART tunnel between October 1979 and April 1980. The Shell station discontinued operation in May 1980, and all existing improvements, tanks, and associated piping were removed at that time. It is unknown whether a UST and piping removal report exists; to date, it has not been located.

Seven monitoring wells (L-1 through L-7) were installed during 1981. Based on recommendations following this investigation, a recovery well was installed in the vicinity of well L-6 (now re-named S-6) in 1982. According to a September 14, 1993 GeoStrategies Inc. (GSI) Work Plan, groundwater extraction from the recovery well began in February 1982 and continued until August 1982, when the system was shut down because the effluent discharge exceeded permitted discharge levels. Wells L-1 through L-3 were destroyed during construction of the BART tunnels in the mid-1980's and are no longer accessible. Records of the well destructions are not available. Wells L-4, L-5 and L-6 were renamed S-4, S-5 and S-6 (Figure 2). Gettler-Ryan Inc. began gauging wells S-4 through S-6 in 1986 and collecting groundwater samples for analysis in 1988. A November 2, 1993 Work Plan for Soil and Groundwater Sampling prepared by Enviros, Inc. (Enviros) indicates that groundwater was extracted from wells S-5 and S-6 by bailing or by a vacuum truck beginning in October 1988.

Information collected by GSI and reported in a June 30, 1993 *Phase I Preliminary Site Assessment* identified seven sites with known UST leaks within a ¼-mile radius of the site. One of the seven sites identified is the Oakland Police Department site, which was noted in the *Bart Recovery Project Log* to have replaced leaking USTs in October 1979 and to have accepted

product deliveries by a local Shell gasoline distributor. During a review of available regulatory files, GSI noted a permit to repair the product lines and dispensers at the Oakland Police Department parking lot taken out in 1984 by Egan and Paradiso Company, but no additional information was available. It appears that no environmental investigation has been conducted for this site.

During July 1994, nine soil borings (B-1 through B-9) were installed in the vicinity of the former pump islands and the former USTs at the site. Investigation activities are described in an August 16, 1994 Enviros *Site Investigation Report*. The maximum total petroleum hydrocarbons as gasoline (TPHg) and benzene concentrations reported in soil samples were 15 milligrams per kilogram (mg/Kg) and 0.24 mg/Kg, respectively, collected near the former pump islands. No TPHg or benzene was reported in the area of the former piping or the former UST locations.

During December 1994, onsite monitoring wells S-8, S-9 and S-10 were installed in similar locations as the previously destroyed wells L-2, L-3 and L-1, respectively. Investigation activities are described in a February 14, 1995 Enviros *Site Investigation Report and Quarterly Monitoring Report – First Quarter 1995*. Except for 0.014 mg/Kg benzene in a sample from S-8 at 21.5 fbg, no TPHg or benzene was reported in soil samples collected from wells S-8 and S-9. Except for 760 mg/Kg TPHg and 0.0032 mg/Kg benzene reported in the sample from S-10 at 11.5 fbg, no TPHg or benzene was reported in soil samples collected from well S-10.

During October 2003, one soil boring (HA-1) was installed within 7<sup>th</sup> Street south of the site. Three additional offsite soil borings, one in Broadway near well S-5, one northwest of Broadway within 6<sup>th</sup> Street, and one near the eastern corner of Broadway and 6<sup>th</sup> Street, were attempted. However, subsurface obstructions and utility corridors were encountered, and the borings could not be completed. No TPHg, benzene, or methyl tertiary butyl ether (MTBE) was detected in soil samples collected from boring HA-1. No TPHg or benzene, and 6.3 micrograms per liter (µg/L) MTBE were detected in a grab groundwater sample collected from boring HA-1. Investigation activities are described in Cambria's December 16, 2003 Subsurface Investigation Report.

During May 2004, Treadwell & Rollo, Inc. (T&R) of Oakland, California installed four soil borings (TR-1 through TR-4) onsite to collect soil and soil vapor samples. No TPHg or volatile organic compounds (VOCs) were detected in soil samples, and no benzene, toluene, ethylbenzene, or xylenes (BTEX) were detected in soil vapor samples collected. Investigation results are summarized in T&R's March 27, 2006 Subsurface Investigation report.

1501 2

# Attachment B Permit

### Alameda County Public Works Agency - Water Resources Well Permit



Application Id:

Site Location:

**Applicant:** 

Project Start Date:

**Property Owner:** 

399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax: (510)782-1939

Application Approved on: 10/06/2006 By jamesy

Permit Numbers: W2006-0886

Permits Valid from 11/09/2006 to 11/16/2006

City of Project Site: Oakland

Completion Date: 11/16/2006

Phone: --

Phone: 510-420-3308

Cambria Environmental Technology - Matthias

Kennerknecht

11/09/2006

1160002139034

5900 Hollis St. #A, Emeryville, CA 94608

A. F. Evans 1000 Broadway #300, Oakland, CA 94507

461 8th St., Oakland, CA 94607

**Client:** \*\* same as Property Owner \*

**Total Due:** 

Receipt Number: WR2006-0460 **Total Amount Paid:** 

Payer Name : Cambria Paid By: CHECK

### **Works Requesting Permits:**

Borehole(s) for Investigation-Contamination Study - 14 Boreholes

Driller: Gregg Drilling - Lic #: 485165 - Method: DP Work Total: \$200.00

#### **Specifications**

Permit	Issued Dt	Expire Dt	#	Hole Diam	Max Depth
Number			Boreholes		
W2006-	10/06/2006	02/07/2007	14	2.00 in.	25.00 ft
0886					

### **Specific Work Permit Conditions**

- 1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site.
- 2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
- Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to. properly damage, personal injury and wrongful death.
- 4. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
- 5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
- 6. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

# Attachment C Boring Logs



# **BORING/WELL LOG**

Cambria Environmental Technology, Inc. 5900 Hollis Street, Suite A Emeryville, CA 94608 Telephone: 510-420-0700 Fax: 510-420-9170

CLIENT NAME _	Shell Oil Products US	BORING/WELL NAME B-10	·,
JOB/SITE NAME	Former Shell Brand Station	DRILLING STARTED 13-Dec-06	
LOCATION	461 8th Street Oakland	DRILLING COMPLETED 13-Dec-06	
PROJECT NUMBER_	248-1501-008	WELL DEVELOPMENT DATE (YIELD) N	NA .
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATIONN	lot Surveyed
DRILLING METHOD	Geo Probe	TOP OF CASING ELEVATION NA	·
BORING DIAMETER	2"	SCREENED INTERVAL NA NA	
LOGGED BY	Matthias Kennerknecht	DEPTH TO WATER (First Encountered)	24.4 ft ∑
REVIEWED BY	A. Friel PG	DEPTH TO WATER (Static)	NA Y
DEMARKS			

REVIEWED BY	<u>A.</u>	Friel	PG _			DEPTH TO WATER (Static)	-	NA		Ā
REMARKS	····									
PID (ppm) BLOW COUNTS	SAMPLE ID	EXTENT	(fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	F	DEPTH (fbg)	WEL	L DIAGRAM
0 5	B-10-10		5	SM		ASPHALT Silty SAND With Gravel (SM); light brown; moist; 40%silt, 40% fine-grained sand; 20% coarse gravel.  Silty SAND (SM); light brown; moist; 20% silt, 80% fine-grained sand.	0	5.0		
67	B-10-13		-20-	SM		@ 16 fbg; grey green.	ӯ			
363	B-10-25 B-10-W		-25			@ 25 fbg; wet; grab gw sample with bailer		26.0		Bottom of Boring @ 26 ft



**BORING/WELL LOG** 

Cambria Environmental Technology, Inc. 5900 Hollis Street, Suite A Emeryville, CA 94608 Telephone: 510-420-9700 Fax: 510-420-9170

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME B-11
JOB/SITE NAME _	Former Shell Brand Station	DRILLING STARTED 13-Dec-06
LOCATION	461 8th Street Oakland	DRILLING COMPLETED 13-Dec-06
PROJECT NUMBER_	248-1501-008	WELL DEVELOPMENT DATE (YIELD) NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION Not Surveyed
DRILLING METHOD_	Geo Probe	TOP OF CASING ELEVATION NA
BORING DIAMETER_	2"	SCREENED INTERVAL NA
LOGGED BY	Matthias Kennerknecht	DEPTH TO WATER (First Encountered) 24.4 ft
REVIEWED BY	A. Friel PG	DEPTH TO WATER (Static)  NA
DEMARKO		

PID (ppm)	BLOW	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0	,	B-11-5			SM		ASPHALT Silty SAND With Gravel (SM); light brown; moist; 20% silt, 40% fine-grained sand, 40% coarse gravel.  @ 3 fbg; 20% silt, 65% sand, 15% gravel.  Silty SAND (SM); light brown; moist; 20% silt, 80% fine-grained sand.	_0.5 _5.0	
5		B-11-10		 10- 					
13		B-11-15		- 15 	SM				
39		B-11-20		20 					
583		B-11-25 B-11-W		 25 			@ 24 fbg; wet; grab gw sample with bailer.	26.0	Bottom of Boring @ 26 ft



Cambria Environmental Technology, Inc. 5900 Hollis Street, Suite A Emeryville, CA 94608

# **BORING/WELL LOG**

Telephone: 510-420-0700 Fax: 510-420-9170

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME B-12
JOB/SITE NAME	Former Shell Brand Station	DRILLING STARTED 11-Dec-06
LOCATION	461 8th Street Oakland	DRILLING COMPLETED 11-Dec-06
PROJECT NUMBER_	248-1501-008	WELL DEVELOPMENT DATE (YIELD) NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION Not Surveyed
DRILLING METHOD_	Geo Probe	TOP OF CASING ELEVATION NA
BORING DIAMETER	2"	SCREENED INTERVAL NA
LOGGED BY	Matthias Kennerknecht	DEPTH TO WATER (First Encountered) 24.5 ft $\underline{\underline{\nabla}}$
REVIEWED BY	A. Friel PG	DEPTH TO WATER (Static)  NA
	<del></del>	

REMARKS CONTACT DEPTH (fbg) PID (ppm) SAMPLE ID GRAPHIC LOG BLOW COUNTS U.S.C.S. DEPTH (fbg) EXTENT WELL DIAGRAM LITHOLOGIC DESCRIPTION ASPHALT Sandy SILT (ML); light brown; moist; 60% silt, 30% fine-grained sand, 10% coarse gravel. 0.5 ML 5.0 Silty SAND (SM); light brown; moist; 20% silt, 80% fine-grained sand. B-12-5 0 36 B-12-10 TRIAL (PID) 1/10CAMENVDC\SONOMA SHELL\OAKLAND 461 8TH\GINT\4681OAKLAND.GP.J DEFAULT.GDT 2/26/07 @ 13 fbg; grey green B-12-15 872 SM 960 B-12-20 560  $\bar{\Delta}$ B-12-25 B-12-W 360 @ 25 fbg wet; grab gw sample with bailer. 26.0 Bottom of Boring @ 26 ft PAGE 1 OF



Cambria Environmental Technology, Inc. 5900 Hollis Street, Suite A Emeryville, CA 94608 Telephone: 510-420-0700 Fax: 510-420-9170

## **BORING/WELL LOG**

**CLIENT NAME** Shell Oil Products US BORING/WELL NAME B-13 JOB/SITE NAME Former Shell Brand Station DRILLING STARTED 11-Dec-06 DRILLING COMPLETED 11-Dec-06 LOCATION 461 8th Street Oakland WELL DEVELOPMENT DATE (YIELD) NA PROJECT NUMBER 248-1501-008 DRILLER Gregg Drilling GROUND SURFACE ELEVATION Not Surveyed DRILLING METHOD Geo Probe TOP OF CASING ELEVATION NA BORING DIAMETER 2" SCREENED INTERVAL NA Matthias Kennerknecht **DEPTH TO WATER (First Encountered)** 24.2 ft LOGGED BY

REVIEWED BY A. Friel PG DEPTH TO WATER (Static) NA
REMARKS

PID (ppm)	BLOW	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WEL	L DIAGRAM
					ML		ASPHALT Sandy SILT (ML); light brown; moist; 60% silt, 30% fine-grained sand, 10% coarse gravel.	5.0		
0		B-13-5					Silty SAND (SM); light brown; moist; 20% silt, 80% fine-grained sand.			
18		B-13-10	XXXXXXXXX	10  						
50		B-13-15		—15— — -	SM		@ 17 fbg; grey green			
514		B-13-20		—20— — — —						
594		B-13-25 B-13-W		25			@ 24 fbg; wet; grab gw sample with bailer.	26.0		Bottom of Boring @ 26 ft



# **BORING/WELL LOG**

PAGE 1 OF 1

Cambria Environmental Technology, Inc. 5900 Hollis Street, Suite A Emeryville, CA 94608 Telephone: 510-420-0700 Fax: 510-420-9170

CLIENT			hell (	Oil Pro	ducts				-14 1 Dec 06			
JOB/SIT						<u> Statio</u>	<u>n</u>	DRILLING STARTED 11-Dec-06				
LOCATI	LOCATION 461 8th Street Oakland							DRILLING COMPLETED 11-Dec-06				
PROJECT NUMBER 248-1501-008							<u></u> .	_ WELL DEVELOPMENT DAT	E (YIELD <u>)</u>			
DRILLE	R		Grego	<u>Drillin</u>	g			_ GROUND SURFACE ELEVA	TION _	Not Sur	veyed	
DRILLIN	IG MET	HODG	Seo F	Probe				TOP OF CASING ELEVATION	N NA			
BORING	DIAME	TER 2	ıU					SCREENED INTERVAL	NA			
LOGGE			/latth	ias Ker	nerkn	echt		DEPTH TO WATER (First Er	ncountere	d) 24.8	ft	<u> </u>
	-	Δ	۰. Frie	el PG				DEPTH TO WATER (Static)		NA_		Ţ
REMAR	_	-										
				ng a <b>nd</b> and			a anner 1004 i mande en estada e a a produce en estado esta en entre sobre la proposição de compaños e estados	HINDLINGS STATE ST	***************************************	F. (g		
PID (ppm)	BLOW	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITH	IOLOGIC DESCRIPTION		CONTACT DEPTH (fbg)	WELL	. DIAGRAM
	<u> </u>								<del></del>	<del> </del>	— т	
							ASPHALT	Gravel (SM); light brown; moist; 4	10%	0.5		
Management							silt, 40% fine-grain	ed sand, 20% coarse gravel.	/0			
					C.L.4						İ	
					SM	[44]						
												# i
				<del>-</del> 5 -			0111 0 111 (011)	P. I. I. I		5.0	1	
0		B-14-5	$\times$				<u>Silty SAND (SM)</u> ; fine-grained sand;	light brown; moist; 20% silt, 80%			j	2- 
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11		B-14-25	$\times$	25-		14		dium plasticity; grab gw sample v	with ·	26.0		
		B-14-W		t :		1	bailer.			7		Bottom of
HE I					1	1						Boring @ 26 ft
TRIAL (PID) (VIOCAMENVDC(SONOMA SHELL)OAKLAND 46) 8THIGINT 4881 OAKLAND, GPJ DEFAULT, SDT 2/2800											•	
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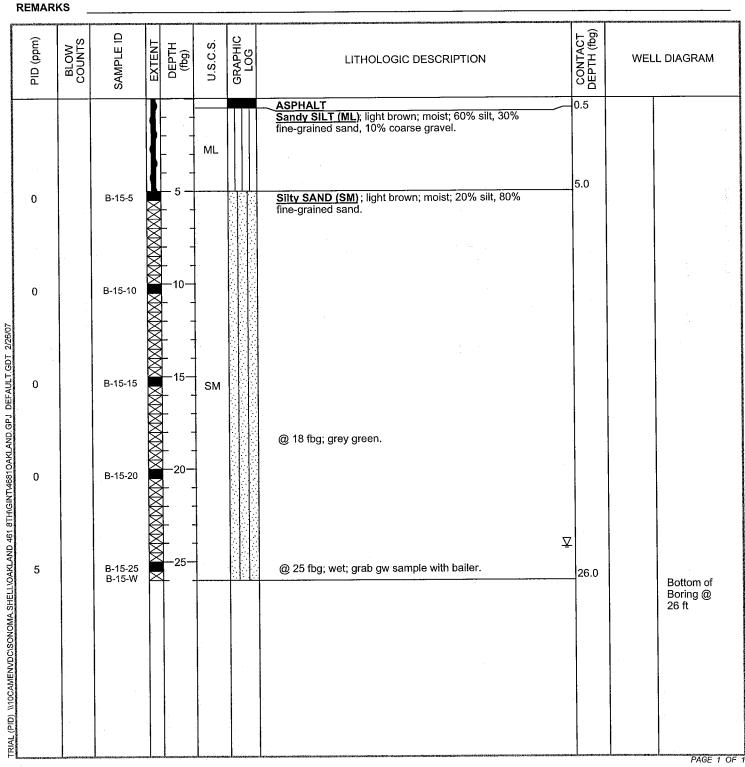


Cambria Environmental Technology, Inc. 5900 Hollis Street, Suite A Emeryville, CA 94608

**BORING/WELL LOG** 

5900 Hollis Street, Suite A Emeryville, CA 94608 Telephone: 510-420-0700 Fax: 510-420-9170

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	B-15		
JOB/SITE NAME	Former Shell Brand Station	DRILLING STARTED	12-Dec-06		
LOCATION	461 8th Street Oakland	DRILLING COMPLETED	12-Dec-06		
PROJECT NUMBER_	248-1501-008	WELL DEVELOPMENT DA	TE (YIELD) N	IA	
DRILLER	Gregg Drilling	<b>GROUND SURFACE ELEV</b>	ATION	lot Surveyed	
DRILLING METHOD	Geo Probe	TOP OF CASING ELEVATI	ON NA		
BORING DIAMETER	2"	SCREENED INTERVAL	NA		
LOGGED BY	Matthias Kennerknecht	DEPTH TO WATER (First B	Encountered)	24.2 ft	$\nabla$
REVIEWED BY	A. Friel PG	DEPTH TO WATER (Static	) _	NA	<u></u>





# Cambria Environmental Technology, Inc. 5900 Hollis Street, Suite A Emeryville, CA 94608 Telephone: 510-420-0700 Fax: 510-420-9170

## **BORING/WELL LOG**

**CLIENT NAME** Shell Oil Products US BORING/WELL NAME \_\_ B-16 **DRILLING STARTED** 12-Dec-06 **JOB/SITE NAME** Former Shell Brand Station DRILLING COMPLETED 12-Dec-06 LOCATION 461 8th Street Oakland WELL DEVELOPMENT DATE (YIELD) NA **PROJECT NUMBER** 248-1501-008 Not Surveyed **GROUND SURFACE ELEVATION** DRILLER Gregg Drilling TOP OF CASING ELEVATION NA Geo Probe DRILLING METHOD SCREENED INTERVAL \_\_\_ Matthias Kennerknecht DEPTH TO WATER (First Encountered) 24.2 ft A. Friel PG **DEPTH TO WATER (Static)** NA

BORING DIAMETER **LOGGED BY** REVIEWED BY **REMARKS** CONTACT DEPTH (fbg) PID (ppm) GRAPHIC LOG BLOW COUNTS EXTENT DEPTH (fbg) U.S.C.S. SAMPLE WELL DIAGRAM LITHOLOGIC DESCRIPTION **ASPHALT** 0.5 Silty SAND With Gravel (SM); light brown; moist; 20% silt, 50% coarse-grained sand, 30% coarse gravel. SM @ 4 fbg; 20% silt, 60% fine-grained sand, 20% coarse 5.0 <u>gravel.</u> 0 B-16-5 Silty SAND (SM); light brown; moist; 20% silt, 80% fine-grained sand. 5 B-16-10 TRIAL (PID) 1/10CAMENVDC/SONOMA, SHELL/OAKLAND 461 8TH/GINT/46810AKLAND.GPJ. DEFAULT.GDT. 2/26/07 B-16-15 0 SM @ 17 fbg; grey green B-16-20 20  $\nabla$ @ 24 fbg; wet; grab gw sample with bailer 220 B-16-25 26.0 B-16-W Bottom of Boring @ 26 ft PAGE 1 OF



Cambria Environmental Technology, Inc. 5900 Hollis Street, Suite A Emeryville, CA 94608 Telephone: 510-420-9700 Fax: 510-420-9170

**BORING/WELL LOG** 

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME B-17
JOB/SITE NAME	Former Shell Brand Station	DRILLING STARTED 12-Dec-06
LOCATION	461 8th Street Oakland	DRILLING COMPLETED 12-Dec-06
PROJECT NUMBER_	248-1501-008	WELL DEVELOPMENT DATE (YIELD) NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION Not Surveyed
DRILLING METHOD_	Geo Probe	TOP OF CASING ELEVATION NA
BORING DIAMETER	2"	SCREENED INTERVAL NA
LOGGED BY	Matthias Kennerknecht	DEPTH TO WATER (First Encountered) 23.8 ft
REVIEWED BY	A. Friel PG	DEPTH TO WATER (Static) NA
		· ,

PID (ppm)	BLOW	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	TOVENOO	DEPTH (fbg)	WEL	L DIAGRAM
					SM		ASPHALT Silty SAND With Gravel (SM); light brown, moist; 20% silt, 40% coarse-grained sand, 40% coarse gravel.		).5 3.0		7
					SM		BRICKS Silty SAND With Gravel (SM): light brown, moist: 20%		1.0		
0		B-17-5		— 5 <i>—</i>	SIVI		Silty SAND With Gravel (SM); light brown, moist; 20% silt, 40% coarse-grained sand, 40% coarse gravel.  Silty SAND (SM); light brown; moist; 20% silt, 80% fine-grained sand.	5	5.0		
			$\bigotimes$				fine-grained sand.				. *
											· .
_			$\bigotimes$	 10							
0		B-17-10	$\bigotimes$				•			,	·
			$\bigotimes$	_							
			$\mathbb{X}$								
0		B-17-15	X	<del>-</del> 15-	SM						
							0.47.0				
				-			@ 17 fbg; grey green.				
	-			 20-							
17		B-17-20	$\bigotimes$								
		·	Š	- -							
			$\bigotimes$				@ 24 fbg; wet; grab gw sample with bailer	立			
20		B-17-25 B-17-W	$\times$	—25— I				2	26.0		
		<i>D</i> 1,7 <b>11</b>									Bottom of Boring @
											26 ft
				:							
				-							



Cambria Environmental Technology, Inc. 5900 Hollis Street, Suite A

**BORING/WELL LOG** 

Emeryville, CA 94608 Telephone: 510-420-0700 Fax: 510-420-9170

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME _	B-18	
JOB/SITE NAME	Former Shell Brand Station	DRILLING STARTED _	12-Dec-06	· 
LOCATION	461 8th Street Oakland	DRILLING COMPLETED_	12-Dec-06	
PROJECT NUMBER	248-1501-008	WELL DEVELOPMENT D	ATE (YIELD) NA	
DRILLER	Gregg Drilling	<b>GROUND SURFACE ELE</b>	VATION Not	: Surveyed
DRILLING METHOD_	Geo Probe	TOP OF CASING ELEVA	TON NA	
BORING DIAMETER	2"	SCREENED INTERVAL	NA NA	
LOGGED BY	Matthias Kennerknecht	DEPTH TO WATER (First	Encountered) 2	24.4 ft $\underline{\nabla}$
REVIEWED BY	A. Friel PG	DEPTH TO WATER (Stati	c) <u> </u>	NA <u>¥</u>

REMARKS CONTACT DEPTH (fbg) SAMPLE ID GRAPHIC LOG PID (ppm) BLOW U.S.C.S. DEPTH (fbg) EXTENT LITHOLOGIC DESCRIPTION WELL DIAGRAM ASPHALT Silty SAND With Gravel (SM); light brown, moist; 20% silt, 40% coarse-grained sand, 40% coarse gravel. 0.5 SM 5.0 Silty SAND (SM); light brown; moist; 20% silt, 80% fine-grained sand. 0 B-18-5 0 B-18-10 B-18-15 0 SM @ 16 fbg; grey green. 5 B-18-20  $\nabla$ @24 fbg; wet; grab gw sample with bailer. B-18-25 3 26.0 B-18-W Bottom of Boring @ 26 ft PAGE 1 OF



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# **BORING/WELL LOG**

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME B-19
JOB/SITE NAME _	Former Shell Brand Station	DRILLING STARTED 12-Dec-06
LOCATION _	461 8th Street Oakland	DRILLING COMPLETED 12-Dec-06
PROJECT NUMBER_	248-1501-008	WELL DEVELOPMENT DATE (YIELD) NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION Not Surveyed
DRILLING METHOD_	Geo Probe	TOP OF CASING ELEVATION NA
BORING DIAMETER	2"	SCREENED INTERVAL NA
LOGGED BY	Matthias Kennerknecht	DEPTH TO WATER (First Encountered) 24.1 ft
REVIEWED BY	A. Friel PG	DEPTH TO WATER (Static) NA Y
DEMARKO		

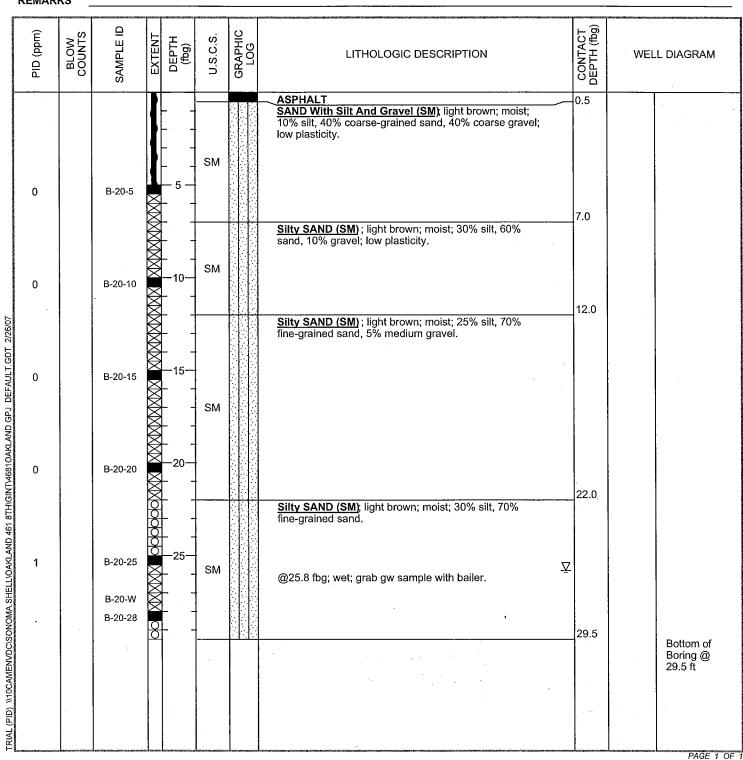
REMARKS CONTACT DEPTH (fbg) PID (ppm) SAMPLE ID GRAPHIC LOG BLOW EXTENT U.S.C.S. DEPTH (fbg) LITHOLOGIC DESCRIPTION WELL DIAGRAM ASPHALT Silty SAND With Gravel (SM); light brown, moist; 20% silt, 40% coarse-grained sand, 40% coarse gravel. 0.5 SM 5.0 Silty SAND (SM); light brown; moist; 20% silt, 80% fine-grained sand. 0 B-19-5 B-19-10 0 TRIAL (PID) 1110CAMENVDC/SONOMA SHELL\OAKLAND 461 8THIGINT\4681OAKLAND.GPJ DEFAULT.GDT 2/26/07 0 B-19-15 SM @ 16 fbg; grey green. B-19-20 30  $\nabla$ B-19-25 B-19-W 20 @25 fbg; wet; grab gw sample with bailer. 26.0 Bottom of Boring @ 26 ft PAGE 1 OF 1



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## **BORING/WELL LOG**

CLIENT NAME _	Shell Oil Products US	BORING/WELL NAME B-20
JOB/SITE NAME _	Former Shell Brand Station	DRILLING STARTED 11-Dec-06
LOCATION _	461 8th Street Oakland	DRILLING COMPLETED 11-Dec-06
PROJECT NUMBER_	248-1501-008	WELL DEVELOPMENT DATE (YIELD) NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION Not Surveyed
DRILLING METHOD_	Geo Probe	TOP OF CASING ELEVATION NA
BORING DIAMETER_	2"	SCREENED INTERVAL NA
LOGGED BY	Matthias Kennerknecht	DEPTH TO WATER (First Encountered) 25.8 ft
REVIEWED BY	A. Friel PG	DEPTH TO WATER (Static) NA
DEMADKS		· · · · · · · · · · · · · · · · · · ·





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# **BORING/WELL LOG**

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME B-21
JOB/SITE NAME	Former Shell Brand Station	DRILLING STARTED 11-Dec-06
LOCATION	461 8th Street Oakland	DRILLING COMPLETED 11-Dec-06
PROJECT NUMBER_	248-1501-008	WELL DEVELOPMENT DATE (YIELD) NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION Not Surveyed
DRILLING METHOD	Geo Probe	TOP OF CASING ELEVATION NA
BORING DIAMETER	2"	SCREENED INTERVAL NA
LOGGED BY	Matthias Kennerknecht	DEPTH TO WATER (First Encountered) 24.9 ft
REVIEWED BY	A. Friel PG	DEPTH TO WATER (Static)  NA
REMARKS		

PID (ppm)	BLOW	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	TOATIVOO	CONTACT DEPTH (fbg)	WEL	L DIAGRAM
					SM		ASPHALT Silty SAND With Gravel (SM); light brown; moist; 20% silt, 40% fine-grained sand, 40% coarse gravel.	ļ	1.0		
			H			1.17.1	BRICK		5.0		
0		B-21-5		<del> - 5 -</del>	sw		SAND (SW); red; 90% fine-grained sand, 10% gravel.		5.0		
0		B-21-10		   - 10	SM		Silty SAND (SM); light brown; dry; 20% silt, 70% fine-grained sand, 10% medium gravel.		12.0		
0		B-21-15		  - 15- 			Silty SAND (SM); light brown; dry; 20% silt, 80% fine-grained sand.				
0		B-21-20		—20— — - — -	SM		@ 21 fbg; moist.				
0		D 04 04		-			@ 23 fbg; green grey.				
350		B-21-24 B-21-W		—25— — -			Grab gw sample with bailer. @ 26 fbg; wet.	立			
480		B-21-28							29.5		Bottom of Boring @ 29.5 ft



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Telephone: 510-420-0700 Fax: 510-420-9170 **BORING/WELL LOG** 

CLIENT NAME _	Shell Oil Products US	BORING/WELL NAME B-22
JOB/SITE NAME	Former Shell Brand Station	DRILLING STARTED 13-Dec-06
LOCATION _	461 8th Street Oakland	DRILLING COMPLETED 13-Dec-06
PROJECT NUMBER_	248-1501-008	WELL DEVELOPMENT DATE (YIELD) NA
DRILLER _	Gregg Drilling	GROUND SURFACE ELEVATION Not Surveyed
DRILLING METHOD_	Geo Probe	TOP OF CASING ELEVATION NA
BORING DIAMETER_	2"	SCREENED INTERVAL NA
LOGGED BY	Matthias Kennerknecht	DEPTH TO WATER (First Encountered) 24.6 ft
REVIEWED BY	A. Friel PG	DEPTH TO WATER (Static)  NA

**REMARKS** CONTACT DEPTH (fbg) SAMPLE ID PID (ppm) GRAPHIC LOG BLOW COUNTS DEPTH (fbg) U.S.C.S. EXTENT LITHOLOGIC DESCRIPTION WELL DIAGRAM ASPHALT Sandy SILT (ML); green brown; moist; 30% clay, 40% 0.5 silt, 25% fine-grained sand, 5% coarse gravel. ML 4.0 Sandy SILT (ML); green brown; moist; 60% silt, 35% fine-grained silt, 5% coarse gravel. ML 5.0 B-22-5 0 Silty SAND (SM); green grey; moist; 20% silt, 80% fine-grained sand. B-22-10 0 TRIAL (PID) 1/10CAMENVDC/SONOMA SHELL\OAKLAND 461 8THIGINT\46810AKLAND.GPJ DEFAULT.GDT 2/26/07 B-22-15 0 SM @ 16 fbg; grey green. B-22-20 328  $\nabla$ @ 25 fbgt; wet; grab gw sample with bailer 280 B-22-25 26.0 B-22-W Bottom of Boring @ 26 ft PAGE 1 OF 1



Cambria Environmental Technology, Inc. 5900 Hollis Street, Suite A Emeryville, CA 94608

**BORING/WELL LOG** 

Telephone: 510-420-0700 Fax: 510-420-9170

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME _	B-23
JOB/SITE NAME	Former Shell Brand Station	DRILLING STARTED _	12-Dec-06
LOCATION	461 8th Street Oakland	DRILLING COMPLETED_	12-Dec-06
PROJECT NUMBER	248-1501-008	WELL DEVELOPMENT D	ATE (YIELD) NA
DRILLER	Gregg Drilling	GROUND SURFACE ELE	VATION Not Surveyed
DRILLING METHOD_	Geo Probe	TOP OF CASING ELEVA	TION NA
BORING DIAMETER_	2"	SCREENED INTERVAL	NA
LOGGED BY	Matthias Kennerknecht	DEPTH TO WATER (First	t Encountered) NA $\underline{\underline{\vee}}$
REVIEWED BY	A. Friel PG	DEPTH TO WATER (Stat	ic) NA 💆

**REMARKS** CONTACT DEPTH (fbg) SAMPLE ID GRAPHIC LOG PID (ppm) BLOW COUNTS EXTENT DEPTH (fbg) U.S.C.S. LITHOLOGIC DESCRIPTION WELL DIAGRAM ASPHALT
Silty SAND With Gravel (SM); light brown; damp; 20% 0.5 silt, 40% fine-grained sand, 40% coarse gravel. SM 4.0 Silty SAND With Gravel (SM); light brown; moist; 20% silt, 50% sand, 30% gravel.

Silty SAND (SM); light brown; moist; 20% silt, 80% fine-grained sand. SM 5.0 0 B-13-5 0 B-13-10 TRIAL (PID) 1/10CAMENVDC\SONOMA SHELL\OAKLAND 461 8TH\GINT\4681OAKLAND.GPJ DEFAULT.GDT 2/26/07 B-13-15 10 SM @ 17 fbg; grey green. B-13-20 160 B-13-25 @ 25 fbg; wet; grab gw sample with bailer 435 26.0 B-13 -W Bottom of Boring @ 26 ft PAGE 1 OF

# Attachment D Waste Disposal Manifest



# Hazardous Waste Hauler (Registration # 2843) P.O. Box 292547 \* Sacramento, CA 95829 \* FAX 916-381-1573

_	Disposal Confirmation	
Request for Transportatio	n Received: 12/08/2006	
	Consultant Information	
Company	Combrie	
Company: Contact:	Cambria	
Phone:	Matthias Kennerknecht	
Fax:	510-420-3308 510-420-9170	
1 da.	310-420-9170	
	Site Information	
PO #		•
Street Address:	461 8 <sup>th</sup> St.	
City, State, ZIP:	Oakland, Ca	
Customer:	Shell Oil Company	RESA-0023-LDC
RIPR#:	57421	NLOA-0023-LDC
SAP # / Location:	NA	
Incident #:	97093399	
Location / WIC #:	NA	
Environmental Engineer:	Denis Brown	
Material Descriptions	Call	
Material Description: Estimated Quantity:	Soil 2.55 coldmins	
	2-55 gal drums	
Service Requested Date:	12/14/2006 morning	
Disposal Facility:	Crosby & Overton	
Contact:	Derryl	
Phone:	800-827-6729	
Approval #:	62093	
Date of Disposal:	12/14/2006	
Actual Tonnage	2 drums	
Transporter:	Manley & Sons Trucking, Inc.	
Contact:	Jennifer Rogers	
Phone:	916 381-6864	
Fax:	916 381-1573	
Invoice:	200612-10	
Date of Invoice:	12/18/2006	•

# Attachment E Certified Analytical Reports



15 February, 2007

Ana Friel Cambria Env - 5900 Hollis, Emeryville (Shell) 5900 Hollis St., Ste. A Emeryville, CA 94608

RE: 461 8th St, Oakland Work Order: S612237

Enclosed are the results of analyses for samples received by the laboratory on 12/12/06 18:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Linda C. Laver For Sylvia Krenn

Amda C Haves

Project Manager

**Amended Report** 

CA ELAP Certificate # 2630





Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-20-5	S612237-01	Soil	12/11/06 07:20	12/12/06 18:50
B-20-10	S612237-02	Soil	12/11/06 07:25	12/12/06 18:50
B-20-15	S612237-03	Soil	12/11/06 07:30	12/12/06 18:50
B-20-20	S612237-04	Soil	12/11/06 07:37	12/12/06 18:50
B-20-25	S612237-05	Soil	12/11/06 08:00	12/12/06 18:50
B-20-28	S612237-06	Soil	12/11/06 08:15	12/12/06 18:50
B-20-W	S612237-07	Water	12/11/06 08:22	12/12/06 18:50
B-21-5	S612237-08	Soil	12/11/06 08:50	12/12/06 18:50
B-21-10	S612237-09	Soil	12/11/06 08:56	12/12/06 18:50
B-21-15	S612237-10	Soil	12/11/06 09:06	12/12/06 18:50
B-21-20	S612237-11	Soil	12/11/06 09:15	12/12/06 18:50
B-21-24	S612237-12	Soil	12/11/06 10:30	12/12/06 18:50
B-21-28	S612237-13	Soil	12/11/06 11:45	12/12/06 18:50
B-21-W	S612237-14	Water	12/11/06 12:00	12/12/06 18:50
B-12-5	S612237-15	Soil	12/11/06 12:26	12/12/06 18:50
B-12-10	S612237-16	Soil	12/11/06 12:30	12/12/06 18:50
B-12-15	S612237-17	Soil	12/11/06 12:35	12/12/06 18:50
B-12-20	S612237-18	Soil	12/11/06 12:55	12/12/06 18:50
B-12-25	S612237-19	Soil	12/11/06 13:03	12/12/06 18:50
B-13-5	S612237-20	Soil	12/11/06 13:25	12/12/06 18:50
B-13-10	S612237-21	Soil	12/11/06 13:30	12/12/06 18:50
B-13-15	S612237-22	Soil	12/11/06 13:35	12/12/06 18:50
B-13-20	S612237-23	Soil	12/11/06 13:40	12/12/06 18:50
B-13-25	S612237-24	Soil	12/11/06 14:00	12/12/06 18:50
B-13-W	S612237-25	Water	12/11/06 14:05	12/12/06 18:50
B-14-5	S612237-26	Soil	12/11/06 14:25	12/12/06 18:50
B-14-10	S612237-27	Soil	12/11/06 14:30	12/12/06 18:50
B-14-15	S612237-28	Soil	12/11/06 14:35	12/12/06 18:50
B-14-20	S612237-29	Soil	12/11/06 14:40	12/12/06 18:50

TestAmerica - Sacramento, CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.





Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-14-25	\$612237-30	Soil	12/11/06 14:45	12/12/06 18:50
B-14-W	S612237-31	Water	12/11/06 00:00	12/12/06 18:50
B-12-W	S612237-32	Water	12/11/06 13:15	12/12/06 18:50



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-20-5 (S612237-01) Soil	Sampled: 12/11/06 07:20	Received: 12/2	12/06 18:50	)					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120170	12/14/06	12/14/06	$GCMS \setminus 8260B$	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C	C4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		107 %	60-1	40	"	"	"	"	
Surrogate: Toluene-d8		111 %	60-14	40	"	"	"	"	
Surrogate: 4-BFB		112 %	60-14	40	"	"	"	"	
B-20-10 (S612237-02) Soil	Sampled: 12/11/06 07:25	Received: 12	/12/06 18:5	50					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120170	12/14/06	12/14/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C	C4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		98 %	60-1	40	"	"	"	"	
Surrogate: Toluene-d8		104 %	60-14	40	"	"	"	"	
Surrogate: 4-BFB		102 %	60-14	40	"	"	"	"	



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B-20-15 (S612237-03) Soil	Sampled: 12/11/06 07:30	Received: 12	/12/06 18:5	50					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120170	12/14/06	12/14/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (Ca	4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		99 %	60-1	40	"	"	"	"	
Surrogate: Toluene-d8		103 %	60-1	40	"	"	"	"	
Surrogate: 4-BFB		101 %	60-1	40	"	"	"	"	
B-20-20 (S612237-04) Soil	Sampled: 12/11/06 07:37	Received: 12	/12/06 18:5	50					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120170	12/14/06	12/14/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
11) Telles (total)		1.0	"		"	"	"	"	
Gasoline Range Organics (Ca	4-C12) ND	1.0							
	4-C12) ND	1.0	60-1-		"	"	"	"	
Gasoline Range Organics (Co	4-C12) ND		60-1- 60-1-	40	"	"	"	"	



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-20-25 (S612237-05) Soil S	ampled: 12/11/06 08:00	Received: 12	/12/06 18	:50					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120170	12/14/06	12/14/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4-0	C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		99 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		104 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		101 %	60-	140	"	"	"	"	
B-20-W (S612237-07) Water	Sampled: 12/11/06 08:2	22 Received:	12/12/06	18:50					
Tert-butyl alcohol	ND	5.0	ug/l	1	6120213	12/19/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	1.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-0	C12) ND	50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		117 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		95 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		110 %	60-	140	"	"	"	"	



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B-21-5 (S612237-08) Soil	Sampled: 12/11/06 08:50	Received: 12/	12/06 18:5	60					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120170	12/14/06	12/14/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (O	C4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		104 %	60-1	140	"	"	"	"	
Surrogate: Toluene-d8		101 %	60-1	140	"	"	"	"	
Surrogate: 4-BFB		107 %	60-1	140	"	"	"	"	
B-21-10 (S612237-09) Soil	Sampled: 12/11/06 08:50	Received: 12	2/12/06 18:	50					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120170	12/14/06	12/14/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (O	C4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		102 %	60-1	140	"	"	"	"	
Surrogate: Toluene-d8		106 %	60-1	140	"	"	"	"	
Surrogate: 4-BFB		102 %	60-1	140	"	"	"	"	



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-21-15 (S612237-10) Soil	Sampled: 12/11/06 09:06	Received: 12	/12/06 18:5	0					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120170	12/14/06	12/15/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4	4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		102 %	60-14	10	"	"	"	"	
Surrogate: Toluene-d8		105 %	60-14	10	"	"	"	"	
Surrogate: 4-BFB		102 %	60-14	10	"	"	"	"	
B-21-20 (S612237-11) Soil	Sampled: 12/11/06 09:15	Received: 12	/12/06 18:5	0					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120170	12/14/06	12/15/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4	4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		102 %	60-14	10	"	"	"	"	
Surrogate: Toluene-d8		102 %	60-14	10	"	"	"	"	
Surrogate: 4-BFB		101 %	60-14	10	"	"	"	"	



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B-21-24 (S612237-12) Soil	Sampled: 12/11/06 10:30	Received: 12	/12/06 18:	50					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120170	12/14/06	12/15/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4	-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		102 %	60-1	140	"	"	"	"	
Surrogate: Toluene-d8		104 %	60-1	140	"	"	"	"	
Surrogate: 4-BFB		101 %	60-1	140	"	"	"	"	
B-21-28 (S612237-13) Soil	Sampled: 12/11/06 11:45	Received: 12	/12/06 18:	50					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120170	12/14/06	12/15/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.011	0.0050	"	"	"	"	"	"	
Toluene	0.0087	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.060	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4	-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		100 %	60-1	140	"	"	"	"	
Surrogate: Toluene-d8		103 %	60-1	140	"	"	"	"	
Surrogate: 4-BFB		99 %	60-1	140	"	"	"	"	



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-21-W (S612237-14) Water S	Sampled: 12/11/06 12:00	Received:	12/12/06 1	8:50					
Tert-butyl alcohol	ND	250	ug/l	50	6120213	12/19/06	12/19/06	$GCMS \setminus 8260B$	
Methyl tert-butyl ether	ND	25	"	"	"	"	"	"	
Di-isopropyl ether	ND	100	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	100	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	100	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	25	"	"	"	"	"	"	
Benzene	1800	25	"	"	"	"	"	"	
Ethylbenzene	3700	25	"	"	"	"	"	"	
Toluene	5600	25	"	"	"	"	"	"	
Xylenes (total)	19000	50	"	"	"	"	"	"	
<b>Gasoline Range Organics (C4-C</b>	<b>C12</b> ) 120000	2500	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		116 %	60-14	40	"	"	"	"	
Surrogate: Toluene-d8		98 %	60-14	40	"	"	"	"	
Surrogate: 4-BFB		108 %	60-14	40	"	"	"	"	
B-12-5 (S612237-15) Soil Sam	pled: 12/11/06 12:26 Re	ceived: 12/1	12/06 18:50	)					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120170	12/14/06	12/15/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	0.028	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	0.018	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4-C1	2) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		100 %	60-14	40	"	"	"	"	
Surrogate: Toluene-d8		107 %	60-14	40	"	"	"	"	
Surrogate: 4-BFB		116 %	60-14	40	"	"	"	"	



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-12-10 (S612237-16) Soil	Sampled: 12/11/06 12:30	Received: 12	/12/06 18	3:50					
Tert-butyl alcohol	ND	5.0	mg/kg	1000	6120251	12/20/06 00:00	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	0.54	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Toluene	7.5	0.50	"	"	"	"	"	"	
Xylenes (total)	180	1.0	"	"	"	"	"	"	
<b>Gasoline Range Organics (C</b>	C4-C12) 2300	50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		104 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		103 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		103 %	60-	140	"	"	"	"	
B-12-15 (S612237-17) Soil	Sampled: 12/11/06 12:35	Received: 12	/12/06 18	3:50					
Tert-butyl alcohol	ND	5.0	mg/kg	1000	6120251	12/20/06 00:00	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	2.9	0.50	"	"	"	"	"	"	
Ethylbenzene	22	0.50	"	"	"	"	"	"	
Toluene	35	0.50	"	"	"	"	"	"	
Xylenes (total)	190	1.0	"	"	"	"	"	"	
Gasoline Range Organics (C	C4-C12) 1700	50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		102 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		104 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		108 %	60-	140	"	"	"	"	





Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

# Gasoline\BTEX\Oxygenates by GCMS\8260B TestAmerica - Sacramento, CA

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B-12-20 (S612237-18) Soil Sam	pled: 12/11/06 12:55	Received: 12	/12/06 18	:50					
Tert-butyl alcohol	ND	5.0	mg/kg	1000	6120251	12/20/06 00:00	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	30	0.50	"	"	"	"	"	"	
Ethylbenzene	100	0.50	"	"	"	"	"	"	
Xylenes (total)	570	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		100 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		111 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		112 %	60-	140	"	"	"	"	
B-12-20 (S612237-18RE1) Soil	Sampled: 12/11/06 12	:55 Received	d: 12/12/0	6 18:50					
Toluene	250	2.5	mg/kg	5000	6120251	12/20/06 00:00	12/22/06	GCMS \ 8260B	
<b>Gasoline Range Organics (C4-C1</b>	2) 5900	250	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		115 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		97 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		108 %	60-	140	"	"	"	"	
B-12-25 (S612237-19) Soil Sam	pled: 12/11/06 13:03	Received: 12	/12/06 18	:50					
Tert-butyl alcohol	ND	1.2	mg/kg	250	6120251	12/20/06 00:00	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.12	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.12	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.12	"	"	"	"	"	"	
Benzene	0.70	0.12	"	"	"	"	"	"	
Ethylbenzene	13	0.12	"	"	"	"	"	"	
Toluene	8.3	0.12	"	"	"	"	"	"	
Xylenes (total)	73	0.25	"	"	"	"	"	"	
Gasoline Range Organics (C4-C1	2) 750	12	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		111 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		104 %	60-	140	"	"	"	"	

TestAmerica - Sacramento, CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-12-25 (S612237-19) Soil	Sampled: 12/11/06 13:03	Received: 12	2/12/06 18:5	60					
Surrogate: 4-BFB		107 %	60-14	40	6120251	12/20/06 00:00	12/20/06	<i>GCMS</i> \ 8260B	
B-13-5 (S612237-20) Soil	Sampled: 12/11/06 13:25	Received: 12/	12/06 18:50	)					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120170	12/15/06	12/15/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C	C4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		99 %	60-14	<i>40</i>	"	"	"	"	
Surrogate: Toluene-d8		109 %	60-14	40	"	"	"	"	
Surrogate: 4-BFB		107 %	60-14	40	"	"	"	"	
B-13-10 (S612237-21) Soil	Sampled: 12/11/06 13:30	Received: 12	2/12/06 18:5	<b>50</b>					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120170	12/14/06	12/15/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	0.022	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C	C4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		103 %	60-14	<i>40</i>	"	"	"	"	
Surrogate: Toluene-d8		102 %	60-14	<i>40</i>	"	"	"	"	
Surrogate: 4-BFB		101 %	60-14	40	"	"	"	"	



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-13-15 (S612237-22) Soil S	ampled: 12/11/06 13:35	Received: 12	/12/06 18::	50					
Tert-butyl alcohol	0.053	0.050	mg/kg	1	6120170	12/14/06	12/15/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	0.028	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4-0	C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		104 %	60-1	40	"	"	"	"	
Surrogate: Toluene-d8		103 %	60-1	40	"	"	"	"	
Surrogate: 4-BFB		99 %	60-1	40	"	"	"	"	
B-13-20 (S612237-23) Soil S	ampled: 12/11/06 13:40	Received: 12	/12/06 18:	50					
Tert-butyl alcohol	0.083	0.050	mg/kg	1	6120170	12/14/06	12/15/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	0.010	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	0.12	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.070	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.54	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4	I-C12) 4.5	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		106 %	60-1	40	"	"	"	"	
Surrogate: Toluene-d8		101 %	60-1	40	"	"	"	"	
Surrogate: 4-BFB		102 %	60-1	40	"	"	"	"	



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B-13-20 (S612237-23RE1) Soil	Sampled: 12/11/06 13:40	Received	l: 12/12/0	6 18:50					
Toluene	0.18	0.025	mg/kg	5	6120170	12/15/06	12/15/06	GCMS \ 8260B	
Surrogate: 1,2-DCA-d4		96 %	60	140	"	"	"	"	
Surrogate: Toluene-d8		105 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		101 %	60-	140	"	"	"	"	
B-13-25 (S612237-24) Soil San	npled: 12/11/06 14:00 Red	eived: 12	/12/06 18	:50					
Tert-butyl alcohol	ND	1.2	mg/kg	250	6120251	12/20/06 00:00	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.12	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.12	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.12	"	"	"	"	"	"	
Benzene	1.2	0.12	"	"	"	"	"	"	
Ethylbenzene	17	0.12	"	"	"	"	"	"	
Toluene	19	0.12	"	"	"	"	"	"	
Xylenes (total)	97	0.25	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		104 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		107 %	60	140	"	"	"	"	
Surrogate: 4-BFB		115 %	60	140	"	"	"	"	
B-13-25 (S612237-24RE1) Soil	Sampled: 12/11/06 14:00	Received	l: 12/12/0	6 18:50					
Gasoline Range Organics (C4-C	C12) 1400	50	mg/kg	1000	6120251	12/20/06 00:00	12/22/06	GCMS \ 8260B	
Surrogate: 1,2-DCA-d4		113 %	60	140	"	"	"	"	
Surrogate: Toluene-d8		96 %	60	140	"	"	"	"	
Surrogate: 4-BFB		110 %	60-	140	"	"	"	"	



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

### Gasoline\BTEX\Oxygenates by GCMS\8260B TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B-13-W (S612237-25) Water	Sampled: 12/11/06 14:05	Received:	12/12/06	18:50					
Tert-butyl alcohol	ND	120	ug/l	25	6120225	12/19/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	12	"	"	"	"	"	"	
Di-isopropyl ether	ND	50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	12	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	12	"	"	"	"	"	"	
Ethylbenzene	2900	12	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		113 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		99 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		112 %	60	140	"	"	"	"	
B-13-W (S612237-25RE1) Wa	ater Sampled: 12/11/06 14	4:05 Recei	ved: 12/12	2/06 18:50					
Benzene	12000	250	ug/l	500	6120225	12/20/06	12/20/06	GCMS \ 8260B	
Toluene	26000	250	"	"	"	"	"	"	
Xylenes (total)	20000	500	"	"	"	"	"	"	
Gasoline Range Organics (C4	I-C12) 250000	25000	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		109 %	60	140	"	"	"	"	
Surrogate: Toluene-d8		94 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		113 %	60-	140	"	"	"	"	
B-14-5 (S612237-26) Soil Sa	mpled: 12/11/06 14:25 Re	ceived: 12/1	12/06 18:5	50					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120170	12/14/06	12/15/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4-0	C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		107 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		105 %	60	140	"	"	"	"	

TestAmerica - Sacramento, CA

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Cambria Env - 5900 Hollis, Emeryville (Shell)
Project: 461 8th St, Oakland
S612237

5900 Hollis St., Ste. A
Project Number: 97093399
Project Manager: Ana Friel
02/15/07 09:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-14-10 (S612237-27) Soil	Sampled: 12/11/06 14:30	Received: 12	/12/06 18:5	0					
Tert-butyl alcohol	ND	0.10	mg/kg	1	6120183	12/14/06	12/15/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.020	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.010	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.010	"	"	"	"	"	"	
Benzene	ND	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.010	"	"	"	"	"	"	
Toluene	ND	0.010	"	"	"	"	"	"	
Xylenes (total)	ND	0.020	"	"	"	"	"	"	
Gasoline Range Organics (C4-	-C12) ND	2.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		107 %	60-14	10	"	"	"	"	
Surrogate: Toluene-d8		102 %	60-14	10	"	"	"	"	
Surrogate: 4-BFB		103 %	60-14	10	"	"	"	"	
B-14-15 (S612237-28) Soil	Sampled: 12/11/06 14:35	Received: 12	/12/06 18:5	0					
Tert-butyl alcohol	0.050	0.050	mg/kg	1	6120170	12/14/06	12/15/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	0.039	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4-	-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		100 %	60-14	10	"	"	"	"	
Surrogate: Toluene-d8		104 %	60-14	10	"	"	"	"	
Surrogate: 4-BFB		103 %	60-14	10	"	"	"	"	



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-14-20 (S612237-29) Soil	Sampled: 12/11/06 14:40	Received: 12	/12/06 18:5	0					
Tert-butyl alcohol	ND	0.10	mg/kg	1	6120183	12/14/06	12/15/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.020	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.010	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.010	"	"	"	"	"	"	
Benzene	0.019	0.010	"	"	"	"	"	"	
Ethylbenzene	ND	0.010	"	"	"	"	"	"	
Toluene	ND	0.010	"	"	"	"	"	"	
Xylenes (total)	ND	0.020	"	"	"	"	"	"	
Gasoline Range Organics (C4-	-C12) ND	2.0	"	"	"	"	"	II .	
Surrogate: 1,2-DCA-d4		101 %	60-14	10	"	"	"	11	
Surrogate: Toluene-d8		103 %	60-14	10	"	"	"	"	
Surrogate: 4-BFB		101 %	60-14	10	"	"	"	"	
B-14-25 (S612237-30) Soil	Sampled: 12/11/06 14:45	Received: 12	/12/06 18:5	0					
Tert-butyl alcohol	ND	0.10	mg/kg	1	6120183	12/14/06	12/15/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.020	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.010	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.010	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.010	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.010	"	"	"	"	"	"	
Benzene	0.017	0.010	"	"	"	"	"	"	
Ethylbenzene	0.016	0.010	"	"	"	"	"	"	
Toluene	ND	0.010	"	"	"	"	"	"	
Xylenes (total)	0.023	0.020	"	"	"	"	"	"	
Gasoline Range Organics (C4-	-C12) ND	2.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		100 %	60-14	10	"	"	"	"	
Surrogate: Toluene-d8		103 %	60-14	10	"	"	"	"	
Surrogate: 4-BFB		103 %	60-14	10	"	"	"	"	



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-14-W (S612237-31) Water	Sampled: 12/11/06 00:00	Received:	12/12/06	18:50					
Tert-butyl alcohol	ND	5.0	ug/l	1	6120225	12/19/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	140	0.50	"	"	"	"	"	"	
Toluene	18	0.50	"	"	"	"	"	"	
Xylenes (total)	210	1.0	"	"	"	"	"	"	
<b>Gasoline Range Organics (C4-</b>	-C12) 2600	50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		113 %	60-	-140	"	"	"	"	
Surrogate: Toluene-d8		96 %	60-	-140	"	"	"	"	
Surrogate: 4-BFB		112 %	60-	-140	"	"	"	"	
B-14-W (S612237-31RE1) Wat	ter Sampled: 12/11/06 0	0:00 Recei	ved: 12/1	2/06 18:50	1				
Benzene	540	5.0	ug/l	10	6120225	12/20/06	12/20/06	GCMS \ 8260B	
Surrogate: 1,2-DCA-d4		110 %	60-	-140	"	"	"	"	
Surrogate: Toluene-d8		97 %	60-	-140	"	"	"	"	
Surrogate: 4-BFB		110 %	60-	-140	"	"	"	"	
B-12-W (S612237-32) Water	Sampled: 12/11/06 13:15	Received:	12/12/06	18:50					
Tert-butyl alcohol	ND	500	ug/l	100	6120213	12/19/06	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	200	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	200	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	200	"	"	"	"	"	"	
1,2-Dichloroethane	ND	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	52	50	"	"	"	"	"	"	
Benzene	13000	50	"	"	"	"	"	"	
Ethylbenzene	2800	50	"	"	"	"	"	"	
Toluene	18000	50	"	"	"	"	"	"	
T7 1 (4 4 1)			"	"	"	"	"	"	
Xylenes (total)	16000	100							
Aylenes (total) Gasoline Range Organics (C4-		100 5000	"	"	"	"	"	"	
• •			"	-140	"	"	"	"	
Gasoline Range Organics (C4-		5000	60-					n "	



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 6120170 - EPA 5030B [P/T]	] / GCMS \ 8260]	В					
Blank (6120170-BLK1)				Prepared & Ana	alyzed: 12/14/	06	
Tert-butyl alcohol	ND	0.050	mg/kg				
Methyl tert-butyl ether	ND	0.0050	"				
Di-isopropyl ether	ND	0.010	"				
Ethyl tert-butyl ether	ND	0.0050	"				
Tert-amyl methyl ether	ND	0.0050	"				
1,2-Dichloroethane	ND	0.0050	"				
1,2-Dibromoethane (EDB)	ND	0.0050	"				
Benzene	ND	0.0050	"				
Ethylbenzene	ND	0.0050	"				
Toluene	ND	0.0050	"				
Xylenes (total)	ND	0.010	"				
Gasoline Range Organics (C4-C12)	ND	1.0	"				
Surrogate: 1,2-DCA-d4	0.0484		"	0.0500	97	60-140	
Surrogate: Toluene-d8	0.0527		"	0.0500	105	60-140	
Surrogate: 4-BFB	0.0497		"	0.0500	99	60-140	
Blank (6120170-BLK2)				Prepared & Ana	alyzed: 12/15/	06	
Fert-butyl alcohol	ND	0.050	mg/kg				
Methyl tert-butyl ether	ND	0.0050	"				
Di-isopropyl ether	ND	0.010	"				
Ethyl tert-butyl ether	ND	0.0050	"				
Tert-amyl methyl ether	ND	0.0050	"				
1,2-Dichloroethane	ND	0.0050	"				
1,2-Dibromoethane (EDB)	ND	0.0050	"				
Benzene	ND	0.0050	"				
Ethylbenzene	ND	0.0050	"				
Toluene	ND	0.0050	"				
Xylenes (total)	ND	0.010	"				
Gasoline Range Organics (C4-C12)	ND	1.0	"				
Surrogate: 1,2-DCA-d4	0.0494		"	0.0500	99	60-140	
Surrogate: Toluene-d8	0.0516		"	0.0500	103	60-140	
Surrogate: 4-BFB	0.0516		"	0.0500	103	60-140	

RPD



#### **Amended Report**

Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

# Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

Reporting

Spike

Source

%REC

		Reporting		Spike	Source		70 KEC		KrD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6120170 - EPA 5030B [P/T	] / GCMS \ 8260	В								
Laboratory Control Sample (6120170	)-BS1)			Prepared &	& Analyze	ed: 12/14/	06	_		
Methyl tert-butyl ether	0.0636	0.0050	mg/kg	0.104		61	60-140			
Γoluene	0.363	0.0050	"	0.376		97	70-130			
Gasoline Range Organics (C4-C12)	4.41	1.0	"	4.40		100	70-130			
Surrogate: 1,2-DCA-d4	0.0465		"	0.0500		93	60-140			
Surrogate: Toluene-d8	0.0512		"	0.0500		102	60-140			
Surrogate: 4-BFB	0.0496		"	0.0500		99	60-140			
Laboratory Control Sample (6120170	)-BS2)			Prepared &	& Analyze	ed: 12/14/	06			
Benzene	0.0378	0.0050	mg/kg	0.0400		94	70-130			
Surrogate: 1,2-DCA-d4	0.0511		"	0.0500		102	60-140			
Surrogate: Toluene-d8	0.0505		"	0.0500		101	60-140			
Surrogate: 4-BFB	0.0489		"	0.0500		98	60-140			
Laboratory Control Sample (6120170	<b>)-BS3</b> )			Prepared &	& Analyze	ed: 12/15/	06			
Methyl tert-butyl ether	0.0640	0.0050	mg/kg	0.104		62	60-140			
Γoluene	0.358	0.0050	"	0.376		95	70-130			
Gasoline Range Organics (C4-C12)	4.42	1.0	"	4.40		100	70-130			
Surrogate: 1,2-DCA-d4	0.0468		"	0.0500		94	60-140			
Surrogate: Toluene-d8	0.0508		"	0.0500		102	60-140			
Surrogate: 4-BFB	0.0507		"	0.0500		101	60-140			
Laboratory Control Sample (6120170	<b>-BS4</b> )			Prepared &	& Analyze	ed: 12/15/	06			
Benzene	0.0394	0.0050	mg/kg	0.0400		98	70-130			
Surrogate: 1,2-DCA-d4	0.0494		"	0.0500		99	60-140			
Surrogate: Toluene-d8	0.0503		"	0.0500		101	60-140			
Surrogate: 4-BFB	0.0487		"	0.0500		97	60-140			
Matrix Spike (6120170-MS1)	Source: S6	12237-02		Prepared:	12/14/06	Analyzed	1: 12/15/06			
Methyl tert-butyl ether	0.0703	0.0050	mg/kg	0.104	ND	68	60-140		<del>.</del>	
Benzene	0.0472	0.0050	"	0.0776	ND	61	60-140			
Γoluene	0.385	0.0050	"	0.376	ND	102	60-140			
Gasoline Range Organics (C4-C12)	4.45	1.0	"	4.40	ND	101	60-140			
Surrogate: 1,2-DCA-d4	0.0488		"	0.0500		98	60-140			
Surrogate: Toluene-d8	0.0509		"	0.0500		102	60-140			
Surrogate: 4-BFB	0.0497		"	0.0500		99	60-140			



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

# Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch 6120170 - EPA 5030B [P/T] / GCMS \ 8260B

Matrix Spike Dup (6120170-MSD1)	Source: S6	12237-02	Prepared: 12/14/06 Analyzed: 12/15/06						
Methyl tert-butyl ether	0.0701	0.0050	mg/kg	0.104	ND	67	60-140	0.3	25
Benzene	0.0478	0.0050	"	0.0776	ND	62	60-140	1	25
Toluene	0.374	0.0050	"	0.376	ND	99	60-140	3	25
Gasoline Range Organics (C4-C12)	4.48	1.0	"	4.40	ND	102	60-140	0.7	25
Surrogate: 1,2-DCA-d4	0.0502		"	0.0500		100	60-140		
Surrogate: Toluene-d8	0.0504		"	0.0500		101	60-140		
Surrogate: 4-BFB	0.0494		"	0.0500		99	60-140		

#### Batch 6120183 - EPA 5030B [P/T] / GCMS \ 8260B

Blank (6120183-BLK1)				Prepared & Anal	yzed: 12/14/0	06	
Tert-butyl alcohol	ND	0.10	mg/kg				
Methyl tert-butyl ether	ND	0.010	"				
Di-isopropyl ether	ND	0.020	"				
Ethyl tert-butyl ether	ND	0.010	"				
Tert-amyl methyl ether	ND	0.010	"				
1,2-Dichloroethane	ND	0.010	"				
1,2-Dibromoethane (EDB)	ND	0.010	"				
Benzene	ND	0.010	"				
Ethylbenzene	ND	0.010	"				
Toluene	ND	0.010	"				
Xylenes (total)	ND	0.020	"				
Gasoline Range Organics (C4-C12)	ND	2.0	"				
Surrogate: 1,2-DCA-d4	0.0484		"	0.0500	97	60-140	
Surrogate: Toluene-d8	0.0527		"	0.0500	105	60-140	
Surrogate: 4-BFB	0.0497		"	0.0500	99	60-140	



Cambria Env - 5900 Hollis, Emeryville (Shell)
Project: 461 8th St, Oakland
S612237

5900 Hollis St., Ste. A
Project Number: 97093399
Reported:
Emeryville CA, 94608
Project Manager: Ana Friel
02/15/07 09:50

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 6120183 -	EPA 5030B	[P/T] /	GCMS \	\ 8260B

Blank (6120183-BLK2)				Prepared & Analyzed: 12/15/06					
Tert-butyl alcohol	ND	0.10	mg/kg						
Methyl tert-butyl ether	ND	0.010	"						
Di-isopropyl ether	ND	0.020	"						
Ethyl tert-butyl ether	ND	0.010	"						
Tert-amyl methyl ether	ND	0.010	"						
1,2-Dichloroethane	ND	0.010	"						
1,2-Dibromoethane (EDB)	ND	0.010	"						
Benzene	ND	0.010	"						
Ethylbenzene	ND	0.010	"						
Toluene	ND	0.010	"						
Xylenes (total)	ND	0.020	"						
Gasoline Range Organics (C4-C12)	ND	2.0	"						
Surrogate: 1,2-DCA-d4	0.0494		"	0.0500	99	60-140			
Surrogate: Toluene-d8	0.0516		"	0.0500	103	60-140			
Surrogate: 4-BFB	0.0516		"	0.0500	103	60-140			
<b>Laboratory Control Sample (612018</b>	33-BS1)			Prepared & An	alyzed: 12/14/	06			
Methyl tert-butyl ether	0.0636	0.010	mg/kg	0.104	61	60-140			
Toluene	0.363	0.010	"	0.376	97	70-130			
Gasoline Range Organics (C4-C12)	4.41	2.0	"	4.40	100	70-130			
Surrogate: 1,2-DCA-d4	0.0465		"	0.0500	93	60-140			
Surrogate: Toluene-d8	0.0512		"	0.0500	102	60-140			
Surrogate: 4-BFB	0.0496		"	0.0500	99	60-140			
<b>Laboratory Control Sample (612018</b>	33-BS2)			Prepared & An	alyzed: 12/14/	06			
Benzene	0.0378	0.010	mg/kg	0.0400	94	70-130			
Surrogate: 1,2-DCA-d4	0.0511		"	0.0500	102	60-140			
Surrogate: Toluene-d8	0.0505		"	0.0500	101	60-140			
Surrogate: 4-BFB	0.0489		"	0.0500	98	60-140			



#### **Amended Report**

Cambria Env - 5900 Hollis, Emeryville (Shell) S612237 Project: 461 8th St, Oakland 5900 Hollis St., Ste. A Project Number: 97093399 Reported: Emeryville CA, 94608 Project Manager: Ana Friel 02/15/07 09:50

# Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6120183 - EPA 5030B [P/T] /	GCMS \ 8260	В								
Laboratory Control Sample (6120183-B	S3)			Prepared	& Analyze	d: 12/15/	06			
Methyl tert-butyl ether	0.0640	0.010	mg/kg	0.104		62	60-140			
Toluene	0.358	0.010	"	0.376		95	70-130			
Gasoline Range Organics (C4-C12)	4.42	2.0	"	4.40		100	70-130			
Surrogate: 1,2-DCA-d4	0.0468		"	0.0500		94	60-140			
Surrogate: Toluene-d8	0.0508		"	0.0500		102	60-140			
Surrogate: 4-BFB	0.0507		"	0.0500		101	60-140			
Laboratory Control Sample (6120183-B	S4)									
Benzene	0.0394	0.010	mg/kg	0.0400		98	70-130			
Surrogate: 1,2-DCA-d4	0.0494		"	0.0500		99	60-140			
Surrogate: Toluene-d8	0.0503		"	0.0500		101	60-140			
Surrogate: 4-BFB	0.0487		"	0.0500		97	60-140			
Matrix Spike (6120183-MS1)	Source: So	12237-27		Prepared	& Analyze					
Methyl tert-butyl ether	0.0766	0.010	mg/kg	0.104	ND	74	60-140			
Benzene	0.0512	0.010	"	0.0776	0.000760	65	60-140			
Toluene	0.408	0.010	"	0.376	ND	109	60-140			
Gasoline Range Organics (C4-C12)	4.63	2.0	"	4.40	ND	105	60-140			
Surrogate: 1,2-DCA-d4	0.0479		"	0.0500		96	60-140			
Surrogate: Toluene-d8	0.0501		"	0.0500		100	60-140			
Surrogate: 4-BFB	0.0502		"	0.0500		100	60-140			
Matrix Spike Dup (6120183-MSD1)	Source: So	612237-27		Prepared	& Analyze	d: 12/15/	06			
Methyl tert-butyl ether	0.0793	0.010	mg/kg	0.104	ND	76	60-140	3	25	
Benzene	0.0499	0.010	"	0.0776	0.000760	63	60-140	3	25	
Toluene	0.389	0.010	"	0.376	ND	103	60-140	5	25	
Gasoline Range Organics (C4-C12)	4.60	2.0	"	4.40	ND	105	60-140	0.7	25	
Surrogate: 1,2-DCA-d4	0.0497		"	0.0500		99	60-140			
Surrogate: Toluene-d8	0.0504		"	0.0500		101	60-140			
Surrogate: 4-BFB	0.0502		"	0.0500		100	60-140			



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

# Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

		Reporting		Spike	Source		%REC		RPD		İ
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	l

Blank (6120213-BLK1)				Prepared: 12/1	8/06 Analyze	1: 12/19/06	
Ethanol	ND	50	ug/l	•			
Tert-butyl alcohol	ND	5.0	"				
Methyl tert-butyl ether	ND	0.50	"				
Di-isopropyl ether	ND	2.0	"				
Ethyl tert-butyl ether	ND	2.0	"				
Tert-amyl methyl ether	ND	2.0	"				
1,2-Dichloroethane	ND	0.50	"				
1,2-Dibromoethane (EDB)	ND	0.50	"				
Benzene	ND	0.50	"				
Ethylbenzene	ND	0.50	"				
Toluene	ND	0.50	"				
Xylenes (total)	ND	1.0	"				
Gasoline Range Organics (C4-C12)	ND	50	"				
Surrogate: 1,2-DCA-d4	11.0		"	10.0	110	60-140	
Surrogate: Toluene-d8	10.1		"	10.0	101	60-140	
Surrogate: 4-BFB	10.6		"	10.0	106	60-140	
Blank (6120213-BLK2)				Prepared & An	alyzed: 12/19/	06	
Ethanol	ND	50	ug/l	•			
Tert-butyl alcohol	ND	5.0	"				
Methyl tert-butyl ether	ND	0.50	"				
Di-isopropyl ether	ND	2.0	"				
Ethyl tert-butyl ether	ND	2.0	"				
Tert-amyl methyl ether	ND	2.0	"				
1,2-Dichloroethane	ND	0.50	"				
1,2-Dibromoethane (EDB)	ND	0.50	"				
Benzene	ND	0.50	"				
Ethylbenzene	ND	0.50	"				
Toluene	ND	0.50	"				
Xylenes (total)	ND	1.0	"				
Gasoline Range Organics (C4-C12)	ND	50	"				
Surrogate: 1,2-DCA-d4	11.1		"	10.0	111	60-140	
Surrogate: Toluene-d8	9.63		"	10.0	96	60-140	
Surrogate: 4-BFB	11.4		"	10.0	114	60-140	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

RPD



#### **Amended Report**

Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

# Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

Reporting

Spike

Source

%REC

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes				
Batch 6120213 - EPA 5030B [P/T] /	GCMS \ 8260H	3												
<b>Laboratory Control Sample (6120213-I</b>	BS1)			Prepared:	12/18/06	Analyzed	: 12/19/06							
Methyl tert-butyl ether	33.4	0.50	ug/l	52.0		64	60-140							
Toluene	145	0.50	"	188		77	70-130							
Gasoline Range Organics (C4-C12)	2150	50	"	2200		98	70-130							
Surrogate: 1,2-DCA-d4	10.3		"	10.0		103	60-140							
Surrogate: Toluene-d8	10.2		"	10.0		102	60-140							
Surrogate: 4-BFB	11.2		"	10.0		112	60-140							
Laboratory Control Sample (6120213-I	BS2)													
Methyl tert-butyl ether	18.2	0.50	ug/l	20.0		91	60-140							
Benzene	17.7	0.50	"	20.0		88	70-130							
Toluene	18.2	0.50	"	20.0		91	70-130							
Surrogate: 1,2-DCA-d4	11.0		"	10.0		110	60-140							
Surrogate: Toluene-d8	10.1		"	10.0		101	60-140							
Surrogate: 4-BFB	10.7		"	10.0		107	60-140							
Laboratory Control Sample (6120213-I	BS3)			Prepared	& Analyze	ed: 12/19/	06							
Methyl tert-butyl ether	37.6	0.50	ug/l	52.0		72	60-140							
Toluene	146	0.50	"	188		78	70-130							
Gasoline Range Organics (C4-C12)	2250	50	"	2200		102	70-130							
Surrogate: 1,2-DCA-d4	10.8		"	10.0		108	60-140							
Surrogate: Toluene-d8	10.0		"	10.0		100	60-140							
Surrogate: 4-BFB	11.0		"	10.0		110	60-140							
Laboratory Control Sample (6120213-I	<b>BS4</b> )			Prepared	& Analyz	ed: 12/19/	06							
Methyl tert-butyl ether	20.9	0.50	ug/l	20.0		104	60-140							
Benzene	19.7	0.50	"	20.0		98	70-130							
Toluene	18.7	0.50	"	20.0		94	70-130							
Surrogate: 1,2-DCA-d4	11.3		"	10.0		113	60-140							
Surrogate: Toluene-d8	9.83		"	10.0		98	60-140							
Surrogate: 4-BFB	11.2		"	10.0		112	60-140							



Cambria Env - 5900 Hollis, Emeryville (Shell)
Project: 461 8th St, Oakland
S612237

5900 Hollis St., Ste. A
Project Number: 97093399
Reported:
Emeryville CA, 94608
Project Manager: Ana Friel
02/15/07 09:50

# Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch 6120213 - EPA 5030B [P/T] / GCMS \ 8260B

<b>Matrix Spike (6120213-MS1)</b>	<b>Source: S612239-03</b> Prepared & Analyzed: 12/19/06									
Methyl tert-butyl ether	35.7	0.50	ug/l	52.0	ND	69	60-140			
Benzene	22.0	0.50	"	38.8	ND	57	70-130			M8
Toluene	143	0.50	"	188	0.210	76	70-130			
Gasoline Range Organics (C4-C12)	2140	50	"	2200	29.7	96	60-140			
Surrogate: 1,2-DCA-d4	11.1		"	10.0		111	60-140			
Surrogate: Toluene-d8	9.93		"	10.0		99	60-140			
Surrogate: 4-BFB	10.8		"	10.0		108	60-140			
			Prepared & Analyzed: 12/19/06							
Matrix Spike Dup (6120213-MSD1)	Source: S61	2239-03		Prepared	& Analyze	d: 12/19/	06			
Matrix Spike Dup (6120213-MSD1)  Methyl tert-butyl ether	<b>Source: S61</b> 34.8	<b>2239-03</b> 0.50	ug/l	Prepared 52.0	& Analyze ND	ed: 12/19/ 67	60-140	3	25	
			ug/l					3 3	25 25	M8
Methyl tert-butyl ether	34.8	0.50	-	52.0	ND	67	60-140			M8
Methyl tert-butyl ether Benzene	34.8 21.4	0.50 0.50	"	52.0 38.8	ND ND	67 55	60-140 70-130	3	25	M8
Methyl tert-butyl ether Benzene Toluene	34.8 21.4 143	0.50 0.50 0.50	"	52.0 38.8 188	ND ND 0.210	67 55 76	60-140 70-130 70-130	3	25 25	M8
Methyl tert-butyl ether Benzene Toluene Gasoline Range Organics (C4-C12)	34.8 21.4 143 2150	0.50 0.50 0.50	" "	52.0 38.8 188 2200	ND ND 0.210	67 55 76 96	60-140 70-130 70-130 60-140	3	25 25	M8

#### Batch 6120225 - EPA 5030B [P/T] / GCMS \ 8260B

Blank (6120225-BLK1)				Prepared & Ar	nalyzed: 12/19/	06	
Ethanol	ND	50	ug/l				
Tert-butyl alcohol	ND	5.0	"				
Methyl tert-butyl ether	ND	0.50	"				
Di-isopropyl ether	ND	2.0	"				
Ethyl tert-butyl ether	ND	2.0	"				
Tert-amyl methyl ether	ND	2.0	"				
1,2-Dichloroethane	ND	0.50	"				
1,2-Dibromoethane (EDB)	ND	0.50	"				
Benzene	ND	0.50	"				
Ethylbenzene	ND	0.50	"				
Toluene	ND	0.50	"				
Xylenes (total)	ND	1.0	"				
Gasoline Range Organics (C4-C12)	ND	50	"				
Surrogate: 1,2-DCA-d4	11.1		"	10.0	111	60-140	
Surrogate: Toluene-d8	9.63		"	10.0	96	60-140	
Surrogate: 4-BFB	11.4		"	10.0	114	60-140	

TestAmerica - Sacramento, CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	

Blank (6120225-BLK2)				Prepared & An	alyzed: 12/20/	06	
Ethanol	ND	50	ug/l	-	*		
Tert-butyl alcohol	ND	5.0	"				
Methyl tert-butyl ether	ND	0.50	"				
Di-isopropyl ether	ND	2.0	"				
Ethyl tert-butyl ether	ND	2.0	"				
Tert-amyl methyl ether	ND	2.0	"				
1,2-Dichloroethane	ND	0.50	"				
1,2-Dibromoethane (EDB)	ND	0.50	"				
Benzene	ND	0.50	"				
Ethylbenzene	ND	0.50	"				
Toluene	ND	0.50	"				
Xylenes (total)	ND	1.0	"				
Gasoline Range Organics (C4-C12)	ND	50	"				
Surrogate: 1,2-DCA-d4	10.8		"	10.0	108	60-140	
Surrogate: Toluene-d8	9.86		"	10.0	99	60-140	
Surrogate: 4-BFB	11.2		"	10.0	112	60-140	
Laboratory Control Sample (6120225-BS1)	)			Prepared & An	alyzed: 12/19/	06	
Methyl tert-butyl ether	37.6	0.50	ug/l	52.0	72	60-140	
Toluene	146	0.50	"	188	78	70-130	
Gasoline Range Organics (C4-C12)	2250	50	"	2200	102	70-130	
Surrogate: 1,2-DCA-d4	10.8		"	10.0	108	60-140	
Surrogate: Toluene-d8	10.0		"	10.0	100	60-140	
Surrogate: 4-BFB	11.0		"	10.0	110	60-140	
Laboratory Control Sample (6120225-BS2)	)			Prepared & An	alyzed: 12/19/	06	
Methyl tert-butyl ether	20.9	0.50	ug/l	20.0	104	60-140	
Benzene	19.7	0.50	"	20.0	98	70-130	
Toluene	18.7	0.50	"	20.0	94	70-130	
Surrogate: 1,2-DCA-d4	11.3		"	10.0	113	60-140	
Surrogate: Toluene-d8	9.83		"	10.0	98	60-140	
Surrogate: 4-BFB	11.2		"	10.0	112	60-140	



Cambria Env - 5900 Hollis, Emeryville (Shell)
Project: 461 8th St, Oakland
S612237

5900 Hollis St., Ste. A
Project Number: 97093399
Reported:
Project Manager: Ana Friel
02/15/07 09:50

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
			Omto	Level	Result	/URLE	Limito	шъ	Limit	110003
Batch 6120225 - EPA 5030B [P/T] / C		В				1 10/00/				
Laboratory Control Sample (6120225-BS	· · ·	0.70		Prepared	& Analyze					
Methyl tert-butyl ether	36.6	0.50	ug/l	52.0		70	60-140			
Toluene	149	0.50	"	188		79	70-130			
Gasoline Range Organics (C4-C12)	2200	50		2200		100	70-130			
Surrogate: 1,2-DCA-d4	11.0		"	10.0		110	60-140			
Surrogate: Toluene-d8	10.1		"	10.0		101	60-140			
Surrogate: 4-BFB	10.9		"	10.0		109	60-140			
Laboratory Control Sample (6120225-BS	S4)			Prepared	& Analyze	ed: 12/20/	06			
Methyl tert-butyl ether	20.6	0.50	ug/l	20.0		103	60-140			
Benzene	19.2	0.50	"	20.0		96	70-130			
Toluene	18.5	0.50	"	20.0		92	70-130			
Surrogate: 1,2-DCA-d4	11.5		"	10.0		115	60-140			
Surrogate: Toluene-d8	9.76		"	10.0		98	60-140			
Surrogate: 4-BFB	11.0		"	10.0		110	60-140			
Matrix Spike (6120225-MS1)	Source: So	612354-05		Prepared	& Analyze	ed: 12/20/	06			
Methyl tert-butyl ether	37.0	0.50	ug/l	52.0	ND	71	60-140			
Benzene	23.2	0.50	"	38.8	ND	60	70-130			M8
Toluene	148	0.50	"	188	ND	79	70-130			
Gasoline Range Organics (C4-C12)	2090	50	"	2200	26.4	94	60-140			
Surrogate: 1,2-DCA-d4	11.0		"	10.0		110	60-140			
Surrogate: Toluene-d8	10.1		"	10.0		101	60-140			
Surrogate: 4-BFB	10.7		"	10.0		107	60-140			
Matrix Spike Dup (6120225-MSD1)	Source: So	612354-05		Prepared	& Analyze	ed: 12/20/	06			
Methyl tert-butyl ether	36.6	0.50	ug/l	52.0	ND	70	60-140	1	25	
Benzene	22.1	0.50	"	38.8	ND	57	70-130	5	25	M
Toluene	142	0.50	"	188	ND	76	70-130	4	25	
Gasoline Range Organics (C4-C12)	2020	50	"	2200	26.4	91	60-140	3	25	
Surrogate: 1,2-DCA-d4	10.5		"	10.0		105	60-140			
Surrogate: Toluene-d8	9.84		"	10.0		98	60-140			
Surrogate: 4-BFB	10.8		"	10.0		108	60-140			



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 6120251	- EPA	5030B	[MeOH]	GCMS	8260B
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Blank (6120251-BLK1)				Prepared & Ana	alyzed: 12/20/	06	
Ethanol	ND	2.5	mg/kg	_			
Tert-butyl alcohol	ND	0.25	"				
Methyl tert-butyl ether	ND	0.025	"				
Di-isopropyl ether	ND	0.10	"				
Ethyl tert-butyl ether	ND	0.10	"				
Tert-amyl methyl ether	ND	0.10	"				
1,2-Dichloroethane	ND	0.025	"				
1,2-Dibromoethane (EDB)	ND	0.025	"				
Benzene	ND	0.025	"				
Ethylbenzene	ND	0.025	"				
Toluene	ND	0.025	"				
Xylenes (total)	ND	0.050	"				
Gasoline Range Organics (C4-C12)	ND	2.5	"				
Surrogate: 1,2-DCA-d4	0.0111		"	0.0100	111	60-140	
Surrogate: Toluene-d8	0.00960		"	0.0100	96	60-140	
Surrogate: 4-BFB	0.0113		"	0.0100	113	60-140	
Laboratory Control Sample (612025)	1-BS1)			Prepared & Ana	alyzed: 12/20/	06	
Methyl tert-butyl ether	0.0366	0.00050	mg/kg	0.0520	70	60-140	
Toluene	0.149	0.00050	"	0.188	79	70-130	
Gasoline Range Organics (C4-C12)	2.20	0.050	"	2.20	100	70-130	
Surrogate: 1,2-DCA-d4	0.0110		"	0.0100	110	60-140	
Surrogate: Toluene-d8	0.0101		"	0.0100	101	60-140	
Surrogate: 4-BFB	0.0109		"	0.0100	109	60-140	
Laboratory Control Sample (612025)	1-BS2)			Prepared & Ana	alyzed: 12/20/	06	
Methyl tert-butyl ether	0.0206	0.00050	mg/kg	0.0200	103	60-140	
Benzene	0.0192	0.00050	"	0.0200	96	70-130	
Toluene	0.0185	0.00050	"	0.0200	92	70-130	
Surrogate: 1,2-DCA-d4	0.0115		"	0.0100	115	60-140	
Surrogate: Toluene-d8	0.00976		"	0.0100	98	60-140	
Surrogate: 4-BFB	0.0110		"	0.0100	110	60-140	



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Laboratory Control Sample Dup (61)	20251-BSD1)	, I J													
Methyl tert-butyl ether	0.0349	0.00050	mg/kg	0.0520	67	60-140	5	25							
Toluene	0.147	0.00050	"	0.188	78	70-130	1	25							
Gasoline Range Organics (C4-C12)	2.13	0.050	"	2.20	97	70-130	3	25							
Surrogate: 1,2-DCA-d4	0.0109		"	0.0100	109	60-140									
Surrogate: Toluene-d8	0.0101		"	0.0100	101	60-140									
Surrogate: 4-BFB	0.0110		"	0.0100	110	60-140									
Laboratory Control Sample Dup (61)	20251-BSD2)			Prepared & Ana	alyzed: 12/20/	06									
Methyl tert-butyl ether	0.0202	0.00050	mg/kg	0.0200	101	60-140	2	25							
Benzene	0.0196	0.00050	"	0.0200	98	70-130	2	25							
Toluene	0.0185	0.00050	"	0.0200	92	70-130	0	25							
Surrogate: 1,2-DCA-d4	0.0117		"	0.0100	117	60-140									
Surrogate: Toluene-d8	0.00995		"	0.0100	100	60-140									
Surrogate: 4-BFB	0.0106		"	0.0100	106	60-140									





Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122375900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel02/15/07 09:50

#### **Notes and Definitions**

M8 The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

	B: TA - Irvine, California				SHELL Chain Of Custody Rec										y R	leco	ord								
	- Morgan Hill, California	NAME OF PER	SON TO BILL:	Carol (	Campag	na											4 1	INCI	DENT!	# (ES (	DNLY	<b>(</b> )	ini sidu	<del>, , , , , , , , , , , , , , , , , , , </del>	
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	68 3812	FAX: 707 268 8180	е-млк: afriel@cambria-																					50122	37
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	- RWQCB REPORT FORMA	ORT FORMAT UST AGENCY:																				T	T		
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LAB USE ONLY	Field Sample		SAMPLING	MATRIX	NO, OF	TPH g- Purg TPHd - Extre BTEX (8260) 5 Oxygenate (WTBE, TBA, [ Oil & Greese Chlorinated CDB & EDC Cam 5 Metal										ĺ	:	est fo	TEMPERATURE O	N RECEIPT Cº					
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		707 268 8180	afriel@cambri																					14 (16) 15 (16)			
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No na	utial lab reports, send final l	PDF report only				g- Purgeable (8260B)	Ext	8260	enat TBA,	Greese EPA 9070	atec	EDC	5 Metals	PCP,						İ				į			
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	707 268 8180	afriel@cambria																				F 1	100	ngpontant	i. 1970/2508.0
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					aple	Extractable		(826 PE, T	∢	ydor	8260	ວັ	PNAs (								'	Test for Disposal (see			
CC lab reports to acool@ca	ambria-env,.com;				Purgeable	ctrac	(E0B)	ates (	Greese EP	r pa	EDC 8.	5 Metals	Ţ.				ŀ		ŀ		;	isp.			
No partial lab reports, send final	PDF report only.	T	<del> </del>	·	<b>.</b>	1	(82	Oxygenates	9 G	rinat	જ	S Me	РСР						1			호	TEMBERAL	URE ON REC	FIDT CO
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LAB USE ONLY	Field Sample	Identification	SAMPLING DATE TIME	MATRIX	NO. OF CONT.	TPH	TPHd - Extractable (8015M)	BTEX (8260B)	5 Oxygenates ( (MTBE, TBA, DIPI	Oil & Greese EPA 9070	Chlorinated hydorcarbons 8260	EDB	Cam	PCB,										Test for Disposal		TËMPERATURE C	ON RECEIPT C*	
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5 January, 2007

Ana Friel Cambria Env - 5900 Hollis, Emeryville (Shell) 5900 Hollis St., Ste. A Emeryville, CA 94608

RE: 461 8th St, Oakland Work Order: S612289

Enclosed are the results of analyses for samples received by the laboratory on 12/13/06 14:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sylvia Krenn Project Manager

CA ELAP Certificate # 2630



#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-11-5	S612289-01	Soil	12/13/06 08:30	12/13/06 14:30
B-11-10	S612289-02	Soil	12/13/06 08:35	12/13/06 14:30
B-11-15	S612289-03	Soil	12/13/06 08:40	12/13/06 14:30
B-11-20	S612289-04	Soil	12/13/06 08:45	12/13/06 14:30
B-11-25	S612289-05	Soil	12/13/06 08:50	12/13/06 14:30
B-11-W	S612289-06	Water	12/13/06 09:00	12/13/06 14:30
B-10-5	S612289-07	Soil	12/13/06 09:40	12/13/06 14:30
B-10-10	S612289-08	Soil	12/13/06 09:45	12/13/06 14:30
B-10-15	S612289-09	Soil	12/13/06 09:50	12/13/06 14:30
B-10-20	S612289-10	Soil	12/13/06 09:55	12/13/06 14:30
B-10-25	S612289-11	Soil	12/13/06 10:00	12/13/06 14:30
B-10-W	S612289-12	Water	12/13/06 10:15	12/13/06 14:30
B-22-5	S612289-13	Soil	12/13/06 11:10	12/13/06 14:30
B-22-10	S612289-14	Soil	12/13/06 11:15	12/13/06 14:30
B-22-15	S612289-15	Soil	12/13/06 11:20	12/13/06 14:30
B-22-20	S612289-16	Soil	12/13/06 11:25	12/13/06 14:30
B-22-25	S612289-17	Soil	12/13/06 11:30	12/13/06 14:30
B-22-W	S612289-18	Water	12/13/06 11:45	12/13/06 14:30



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B-11-5 (S612289-01) Soil	Sampled: 12/13/06 08:30	Received: 12/	13/06 14:30						
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120211	12/19/06	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (Ca	4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		108 %	60-14	10	"	"	"	"	
Surrogate: Toluene-d8		108 %	60-14	10	"	"	"	"	
Surrogate: 4-BFB		115 %	60-14	10	"	"	"	"	
B-11-10 (S612289-02) Soil	Sampled: 12/13/06 08:35	Received: 12	2/13/06 14:3	0					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120211	12/19/06	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (Ca	4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		103 %	60-14	10	"	"	"	"	
Surrogate: Toluene-d8		106 %	60-14	10	"	"	"	"	
Surrogate: 4-BFB		107 %	60-14	10	"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-11-15 (S612289-03) Soil	Sampled: 12/13/06 08:40	Received: 12	/13/06 14:3	30					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120211	12/19/06	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (Co	4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		103 %	60-14	40	"	"	"	"	
Surrogate: Toluene-d8		104 %	60-14	40	"	"	"	"	
Surrogate: 4-BFB		106 %	60-14	40	"	"	"	"	
B-11-20 (S612289-04) Soil	Sampled: 12/13/06 08:45	Received: 12	/13/06 14:3	80					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120227	12/19/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (Co	4-C12) ND	1.0	"	"	"	"	"	n .	
Surrogate: 1,2-DCA-d4		108 %	60-14	40	"	"	"	"	
Surrogate: Toluene-d8		102 %	60-14	40	"	"	"	"	
Surrogate: 4-BFB		102 %	60-14	40	"	"	"	"	



### Gasoline\BTEX\Oxygenates by GCMS\8260B TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-11-25 (S612289-05) Soil	Sampled: 12/13/06 08:50	Received: 12	/13/06 14	:30					
Tert-butyl alcohol	ND	5.0	mg/kg	1000	6120251	12/20/06 00:00	12/21/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	30	0.50	"	"	"	"	"	"	
Ethylbenzene	97	0.50	"	"	"	"	"	"	
Toluene	200	0.50	"	"	"	"	"	"	
Xylenes (total)	510	1.0	"	"	"	"	"	II .	
Surrogate: 1,2-DCA-d4		102 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		111 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		109 %	60-	140	"	"	"	"	
B-11-25 (S612289-05RE1) S	oil Sampled: 12/13/06 08	3:50 Received	d: 12/13/0	6 14:30					
<b>Gasoline Range Organics (C</b>	C4-C12) 3500	250	mg/kg	5000	6120251	12/20/06 00:00	12/22/06	GCMS \ 8260B	
Surrogate: 1,2-DCA-d4		109 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		97 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		114 %	60	1.40	,,	"	,,		
		114 /0	60-	140				"	
B-11-W (S612289-06) Water	Sampled: 12/13/06 09:0						,,	"	
B-11-W (S612289-06) Water Tert-butyl alcohol	Sampled: 12/13/06 09:0				6120275	12/22/06	12/23/06	" GCMS \ 8260B	
		00 Received:	12/13/06	14:30					
Tert-butyl alcohol	ND	00 Received: 500	12/13/06 ug/l	14:30	6120275	12/22/06	12/23/06	GCMS \ 8260B	
Tert-butyl alcohol Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether	ND ND	500 500	12/13/06 ug/l	100	6120275	12/22/06	12/23/06	GCMS \ 8260B	
Tert-butyl alcohol Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether	ND ND ND	500 500 50 200	12/13/06 ug/l	100	6120275	12/22/06	12/23/06	GCMS \ 8260B	
Tert-butyl alcohol Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether 1,2-Dichloroethane	ND ND ND ND	500 500 50 200 200	12/13/06 ug/l "	100	6120275	12/22/06	12/23/06	GCMS \ 8260B	
Tert-butyl alcohol Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether 1,2-Dichloroethane 1,2-Dibromoethane (EDB)	ND ND ND ND ND	500 500 50 200 200 200	12/13/06 ug/l "	100	6120275	12/22/06	12/23/06	GCMS \ 8260B	
Tert-butyl alcohol Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether 1,2-Dichloroethane	ND ND ND ND ND 270 ND 4800	500 500 500 200 200 200 50 50 50	12/13/06 ug/l "	100	6120275	12/22/06	12/23/06	GCMS \ 8260B	
Tert-butyl alcohol Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Ethylbenzene Xylenes (total)	ND ND ND ND ND 270 ND 4800 30000	500 Received: 500 50 200 200 200 50 50 50 50 100	12/13/06 ug/l " " " " " " "	14:30	6120275	12/22/06	12/23/06	GCMS \ 8260B	
Tert-butyl alcohol Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Ethylbenzene	ND ND ND ND ND 270 ND 4800 30000	500 500 500 200 200 200 50 50 50	12/13/06 ug/l " " " "	14:30	6120275	12/22/06	12/23/06	GCMS \ 8260B	
Tert-butyl alcohol Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Ethylbenzene Xylenes (total)	ND ND ND ND ND 270 ND 4800 30000	500 Received: 500 50 200 200 200 50 50 50 50 100	12/13/06 ug/l " " " " " " "	14:30	6120275	12/22/06	12/23/06	GCMS \ 8260B	
Tert-butyl alcohol Methyl tert-butyl ether Di-isopropyl ether Ethyl tert-butyl ether Tert-amyl methyl ether 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Ethylbenzene Xylenes (total) Gasoline Range Organics (Company)	ND ND ND ND ND 270 ND 4800 30000	500 Received: 500 50 200 200 200 50 50 50 100 5000	12/13/06  ug/l " " " " " " " " "	14:30	6120275	12/22/06	12/23/06	GCMS \ 8260B	

TestAmerica - Sacramento, CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



		t CSt/ XIIICI IC	u Duci	ament	0, 011				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B-11-W (S612289-06RE1) Water	Sampled: 12/13/0	6 09:00 Recei	ved: 12/13/	/06 14:30	)				
Benzene	22000	100	ug/l	200	6120275	12/26/06	12/26/06	GCMS \ 8260B	
Surrogate: 1,2-DCA-d4		94 %	60-14	40	"	"	"	"	
Surrogate: Toluene-d8		100 %	60-14	40	"	"	"	"	
Surrogate: 4-BFB		101 %	60-14	40	"	"	"	"	
B-11-W (S612289-06RE2) Water	Sampled: 12/13/0	6 09:00 Recei	ved: 12/13/	/06 14:30	)				
Toluene	38000	250	ug/l	500	6120276	12/26/06	12/27/06	GCMS \ 8260B	
Surrogate: 1,2-DCA-d4		95 %	60-14	40	"	"	"	"	
Surrogate: Toluene-d8		102 %	60-14	40	"	"	"	"	
Surrogate: 4-BFB		99 %	60-14	40	"	"	"	"	
B-10-5 (S612289-07) Soil Sample	ed: 12/13/06 09:40	Received: 12/1	13/06 14:30	)					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120227	12/19/06	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		108 %	60-14	40	"	"	"	"	
Surrogate: Toluene-d8		105 %	60-14	40	"	"	"	"	
Surrogate: 4-BFB		109 %	60-14	40	"	"	"	"	



					,				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B-10-10 (S612289-08) Soil	Sampled: 12/13/06 09:45	Received: 12	2/13/06 14	:30					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120227	12/19/06	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4	4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		110 %	60	140	"	"	"	"	
Surrogate: Toluene-d8		103 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		107 %	60	140	"	"	"	"	
B-10-15 (S612289-09) Soil	Sampled: 12/13/06 09:50	Received: 12	2/13/06 14	:30					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120227	12/19/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C	4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		102 %	60	140	"	"	"	"	
Surrogate: Toluene-d8		104 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		105 %	60-	140	"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-10-20 (S612289-10) Soil	Sampled: 12/13/06 09:55	Received: 12	/13/06 14	:30					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120227	12/19/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C	4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		101 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		106 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		104 %	60-	140	"	"	"	"	
B-10-25 (S612289-11) Soil	Sampled: 12/13/06 10:00	Received: 12	/13/06 14	:30					
Tert-butyl alcohol	ND	5.0	mg/kg	1000	6120251	12/20/06 00:00	12/21/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	49	0.50	"	"	"	"	"	"	
Ethylbenzene	160	0.50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		100 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		112 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		114 %	60-	140	"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B-10-25 (S612289-11RE1) Soil Sample	d: 12/13/06 10:00	Received	1: 12/13/0	6 14:30			•		
Toluene	290	5.0	mg/kg	10000	6120251	12/20/06 00:00	12/22/06	GCMS \ 8260B	
Xylenes (total)	800	10	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	7800	500	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		109 %	60	140	"	"	"	"	
Surrogate: Toluene-d8		99 %	60	140	"	"	"	"	
Surrogate: 4-BFB		113 %	60-	140	"	"	"	"	
B-10-W (S612289-12) Water Sampled:	12/13/06 10:15 I	Received:	12/13/06	14:30					
Tert-butyl alcohol	ND	500	ug/l	100	6120275	12/22/06	12/23/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	200	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	200	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	200	"	"	"	"	"	"	
1,2-Dichloroethane	83	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
Ethylbenzene	4400	50	"	"	"	"	"	"	
Xylenes (total)	28000	100	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	220000	5000	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		99 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		98 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		103 %	60-	140	"	"	"	"	
B-10-W (S612289-12RE1) Water Samp	pled: 12/13/06 10:1	15 Recei	ved: 12/13	3/06 14:30	)				
Benzene	24000	120	ug/l	250	6120275	12/26/06	12/26/06	GCMS \ 8260B	
Surrogate: 1,2-DCA-d4		92 %	60	140	"	"	"	"	
Surrogate: Toluene-d8		97 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		100 %	60-	1.40	,,	"	,,	"	



### Gasoline\BTEX\Oxygenates by GCMS\8260B TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B-10-W (S612289-12RE2) Water	Sampled: 12/13/06	10:15 Recei	ved: 12/1	3/06 14:30					
Toluene	65000	250	ug/l	500	6120276	12/26/06	12/27/06	GCMS \ 8260B	
Surrogate: 1,2-DCA-d4		96 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		101 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		101 %	60-	140	"	"	"	"	
B-22-5 (S612289-13) Soil Sample	ed: 12/13/06 11:10	Received: 12/1	13/06 14:3	30					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120227	12/19/06	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		111 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		104 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		106 %	60-	140	"	"	"	"	
B-22-10 (S612289-14) Soil Samp	led: 12/13/06 11:15	Received: 12	/13/06 14	:30					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120227	12/19/06	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	1.0	"	"	"	"	"	"	
<u> </u>				7.10	"	"	,,	"	
Surrogate: 1,2-DCA-d4		112 %	<i>60-</i> .	140	"				
		112 % 103 %	60 60		"	"	"	"	

TestAmerica - Sacramento, CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-22-15 (S612289-15) Soil Sampled: 1	2/13/06 11:20	Received: 12	/13/06 14	:30					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120227	12/19/06	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	II .	
Gasoline Range Organics (C4-C12)	ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		109 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		84 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		108 %	60-	140	"	"	"	"	
B-22-20 (S612289-16) Soil Sampled: 1	2/13/06 11:25	Received: 12	/13/06 14	:30					
Tert-butyl alcohol	ND	5.0	mg/kg	1000	6120251	12/20/06 00:00	12/21/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	0.81	0.50	"	"	"	"	"	"	
Ethylbenzene	26	0.50	"	"	"	"	"	"	
Toluene	10	0.50	"	"	"	"	"	"	
Xylenes (total)	180	1.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	1800	50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		101 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		101 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		104 %	60-	140	"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-22-25 (S612289-17) Soil	Sampled: 12/13/06 11:30	Received: 12	/13/06 14	1:30					
Tert-butyl alcohol	ND	5.0	mg/kg	1000	6120251	12/20/06 00:00	12/21/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	14	0.50	"	"	"	"	"	"	
Ethylbenzene	85	0.50	"	"	"	"	"	"	
Toluene	140	0.50	"	"	"	"	"	"	
Xylenes (total)	470	1.0	"	"	"	"	"	II .	
Surrogate: 1,2-DCA-d4		103 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		107 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		107 %	60-	140	"	"	"	"	
B-22-25 (S612289-17RE1) S	oil Sampled: 12/13/06 11:	30 Received	1: 12/13/(	06 14:30					
Gasoline Range Organics (	C4-C12) 3000	250	mg/kg	5000	6120251	12/20/06 00:00	12/22/06	GCMS \ 8260B	
Surrogate: 1,2-DCA-d4		106 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		102 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		106 %	60-	140	"	"	"	"	
<b>B-22-W</b> (S612289-18) Water	r Sampled: 12/13/06 11:4	5 Received:	12/13/06	14:30					
Tert-butyl alcohol	ND	500	ug/l	100	6120275	12/22/06	12/23/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	200	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	200	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	200	"	"	"	"	"	"	
1,2-Dichloroethane	79	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
Ethylbenzene	8400	50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		94 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		97 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		103 %	60-	140	"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-22-W (S612289-18RE1) Water	Sampled: 12/13/06 11	:45 Receiv	ed: 12/1	3/06 14:30					
Benzene Xylenes (total) Gasoline Range Organics (C4-C12)	21000 81000 960000	120 250 12000	ug/l "	250	6120275	12/26/06	12/26/06	GCMS \ 8260B	
Surrogate: 1,2-DCA-d4 Surrogate: Toluene-d8 Surrogate: 4-BFB		94 % 100 % 100 %	60-	140 140 140	" " "	" "	" " "	" "	
B-22-W (S612289-18RE2) Water	Sampled: 12/13/06 11	:45 Receiv	ed: 12/1	3/06 14:30					
Toluene	68000	250	ug/l	500	6120276	12/26/06	12/27/06	GCMS \ 8260B	
Surrogate: 1,2-DCA-d4 Surrogate: Toluene-d8 Surrogate: 4-BFB		94 % 102 % 101 %	60-	140 140 140	" "	" "	" "	" " "	



## Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (6120211-BLK1)				Prepared & Ana	alyzed: 12/19/	06
Tert-butyl alcohol	ND	0.050	mg/kg			
lethyl tert-butyl ether	ND	0.0050	"			
-isopropyl ether	ND	0.010	"			
hyl tert-butyl ether	ND	0.0050	"			
ert-amyl methyl ether	ND	0.0050	"			
2-Dichloroethane	ND	0.0050	"			
2-Dibromoethane (EDB)	ND	0.0050	"			
enzene	ND	0.0050	"			
hylbenzene	ND	0.0050	"			
oluene	ND	0.0050	"			
ylenes (total)	ND	0.010	"			
soline Range Organics (C4-C12)	ND	1.0	"			
rogate: 1,2-DCA-d4	0.0508		"	0.0500	102	60-140
rrogate: Toluene-d8	0.0515		"	0.0500	103	60-140
rogate: 4-BFB	0.0517		"	0.0500	103	60-140
ank (6120211-BLK2)				Prepared & Ana	alyzed: 12/20/	06
hanol	ND	0.20	mg/kg			
rt-butyl alcohol	ND	0.050	"			
thyl tert-butyl ether	ND	0.0050	"			
isopropyl ether	ND	0.010	"			
yl tert-butyl ether	ND	0.0050	"			
rt-amyl methyl ether	ND	0.0050	"			
-Dichloroethane	ND	0.0050	"			
-Dibromoethane (EDB)	ND	0.0050	"			
nzene	ND	0.0050	"			
nylbenzene	ND	0.0050	"			
luene	ND	0.0050	"			
lenes (total)	ND	0.010	"			
soline Range Organics (C4-C12)	ND	1.0	"			
rogate: 1,2-DCA-d4	0.0484		"	0.0500	97	60-140
rrogate: Toluene-d8	0.0511		"	0.0500	102	60-140

RPD



Cambria Env - 5900 Hollis, Emeryville (Shell) Project: 461 8th St, Oakland S612289 5900 Hollis St., Ste. A Project Number: 97093399 Reported: Project Manager: Ana Friel Emeryville CA, 94608 01/05/07 00:14

### Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

Reporting

Spike

%REC

		Reporting		Spike	Source		70 KEC		KrD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6120211 - EPA 5030B [P/T	] / GCMS \ 8260	В								
Laboratory Control Sample (6120211	-BS1)			Prepared 6	& Analyze	ed: 12/19/	06			
Methyl tert-butyl ether	0.0686	0.0050	mg/kg	0.104		66	60-140			
Γoluene	0.363	0.0050	"	0.376		97	70-130			
Gasoline Range Organics (C4-C12)	4.40	1.0	"	4.40		100	70-130			
Surrogate: 1,2-DCA-d4	0.0483		"	0.0500		97	60-140			
Surrogate: Toluene-d8	0.0502		"	0.0500		100	60-140			
Surrogate: 4-BFB	0.0510		"	0.0500		102	60-140			
Laboratory Control Sample (6120211	-BS2)			Prepared 6	& Analyze	ed: 12/19/	06			
Benzene	0.0431	0.0050	mg/kg	0.0400		108	70-130			
Surrogate: 1,2-DCA-d4	0.0517		"	0.0500		103	60-140			
Surrogate: Toluene-d8	0.0487		"	0.0500		97	60-140			
Surrogate: 4-BFB	0.0495		"	0.0500		99	60-140			
Laboratory Control Sample (6120211	-BS3)			Prepared of	& Analyze	ed: 12/20/	06			
Methyl tert-butyl ether	0.0651	0.0050	mg/kg	0.104		63	60-140			
Toluene	0.358	0.0050	"	0.376		95	70-130			
Gasoline Range Organics (C4-C12)	4.27	1.0	"	4.40		97	70-130			
Surrogate: 1,2-DCA-d4	0.0494		"	0.0500		99	60-140			
Surrogate: Toluene-d8	0.0502		"	0.0500		100	60-140			
Surrogate: 4-BFB	0.0505		"	0.0500		101	60-140			
Laboratory Control Sample (6120211	-BS4)			Prepared 6	& Analyze	ed: 12/20/	06			
Benzene	0.0397	0.0050	mg/kg	0.0400		99	70-130			
Surrogate: 1,2-DCA-d4	0.0516		"	0.0500		103	60-140			
Surrogate: Toluene-d8	0.0495		"	0.0500		99	60-140			
Surrogate: 4-BFB	0.0506		"	0.0500		101	60-140			
Matrix Spike (6120211-MS1)	Source: S6	512291-36		Prepared 6	& Analyze	ed: 12/20/	06			
Methyl tert-butyl ether	0.0749	0.0050	mg/kg	0.104	ND	72	60-140			
Benzene	0.0511	0.0050	"	0.0776	ND	66	60-140			
Toluene	0.405	0.0050	"	0.376	ND	108	60-140			
Gasoline Range Organics (C4-C12)	4.58	1.0	"	4.40	ND	104	60-140			
Surrogate: 1,2-DCA-d4	0.0492		"	0.0500		98	60-140			
Surrogate: Toluene-d8	0.0497		"	0.0500		99	60-140			
Surrogate: 4-BFB	0.0511		"	0.0500		102	60-140			



# Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6120211 - EPA 5030B [P/T] /	GCMS \ 8260	В								
Matrix Spike Dup (6120211-MSD1)	Source: S6	12291-36		Prepared &	& Analyz	ed: 12/20/	06			
Methyl tert-butyl ether	0.0754	0.0050	mg/kg	0.104	ND	72	60-140	0.7	25	
Benzene	0.0496	0.0050	"	0.0776	ND	64	60-140	3	25	
Toluene	0.386	0.0050	"	0.376	ND	103	60-140	5	25	
Gasoline Range Organics (C4-C12)	4.21	1.0	"	4.40	ND	96	60-140	8	25	
Surrogate: 1,2-DCA-d4	0.0494		"	0.0500		99	60-140			
Surrogate: Toluene-d8	0.0498		"	0.0500		100	60-140			
Surrogate: 4-BFB	0.0503		"	0.0500		101	60-140			
Batch 6120227 - EPA 5030B [P/T] /	GCMS \ 8260	В								
Blank (6120227-BLK1)				Prepared:	12/19/06	Analyzed	l: 12/20/06			
Ethanol	ND	0.20	mg/kg							
Tert-butyl alcohol	ND	0.050	"							
Methyl tert-butyl ether	ND	0.0050	"							
Di-isopropyl ether	ND	0.010	"							
Ethyl tert-butyl ether	ND	0.0050	"							
Tert-amyl methyl ether	ND	0.0050	"							
1,2-Dichloroethane	ND	0.0050	"							
1,2-Dibromoethane (EDB)	ND	0.0050	"							
Benzene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Organics (C4-C12)	ND	1.0	"							
Surrogate: 1,2-DCA-d4	0.0514		"	0.0500		103	60-140			
Surrogate: Toluene-d8	0.0524		"	0.0500		105	60-140			

0.0500

0.0527

Surrogate: 4-BFB

105

60-140



Batch 6120227 - EPA 5030B [P/T] / GCMS \ 8260B

Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122895900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel01/05/07 00:14

## Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	

Blank (6120227-BLK2)				Prepared & Ar	nalyzed: 12/20/0	6
Ethanol	ND	0.20	mg/kg			
Tert-butyl alcohol	ND	0.050	"			
Methyl tert-butyl ether	ND	0.0050	"			
Di-isopropyl ether	ND	0.010	"			
Ethyl tert-butyl ether	ND	0.0050	"			
Tert-amyl methyl ether	ND	0.0050	"			
1,2-Dichloroethane	ND	0.0050	"			
1,2-Dibromoethane (EDB)	ND	0.0050	"			
Benzene	ND	0.0050	"			
Ethylbenzene	ND	0.0050	"			
Toluene	ND	0.0050	"			
Xylenes (total)	ND	0.010	"			
Gasoline Range Organics (C4-C12)	ND	1.0	"			
Surrogate: 1,2-DCA-d4	0.0484		"	0.0500	97	60-140
Surrogate: Toluene-d8	0.0511		"	0.0500	102	60-140
Surrogate: 4-BFB	0.0514		"	0.0500	103	60-140
Laboratory Control Sample (6120227-BS1)				Prepared: 12/1	9/06 Analyzed:	12/20/06
Methyl tert-butyl ether	0.0696	0.0050	mg/kg	0.104	67	60-140
Toluene	0.426	0.0050	"	0.376	113	70-130
Gasoline Range Organics (C4-C12)	5.09	1.0	"	4.40	116	70-130
Surrogate: 1,2-DCA-d4	0.0488		"	0.0500	98	60-140
Surrogate: Toluene-d8	0.0511		"	0.0500	102	60-140
Surrogate: 4-BFB	0.0514		"	0.0500	103	60-140
Laboratory Control Sample (6120227-BS2)				Prepared: 12/1	9/06 Analyzed:	12/20/06
Benzene	0.0394	0.0050	mg/kg	0.0400	98	70-130

0.0500

0.0500

0.0500

0.0521

0.0495

0.0510

Surrogate: 1,2-DCA-d4

Surrogate: Toluene-d8

Surrogate: 4-BFB

104

99

102

60-140

60-140

60-140

RPD



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122895900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel01/05/07 00:14

## Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

Spike

Reporting

		Reporting		Spike	Source		%KEC		KPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6120227 - EPA 5030B [P/T]	/ GCMS \ 8260	В								
Laboratory Control Sample (6120227-1	BS3)			Prepared of	& Analyze	ed: 12/20/	06			
Methyl tert-butyl ether	0.0651	0.0050	mg/kg	0.104		63	60-140			
Γoluene	0.358	0.0050	"	0.376		95	70-130			
Gasoline Range Organics (C4-C12)	4.27	1.0	"	4.40		97	70-130			
Surrogate: 1,2-DCA-d4	0.0494		"	0.0500		99	60-140			
Surrogate: Toluene-d8	0.0502		"	0.0500		100	60-140			
Eurrogate: 4-BFB	0.0505		"	0.0500		101	60-140			
Laboratory Control Sample (6120227-1	BS4)			Prepared 6	& Analyze	ed: 12/20/	06			
Benzene	0.0397	0.0050	mg/kg	0.0400		99	70-130			
Surrogate: 1,2-DCA-d4	0.0516		"	0.0500		103	60-140			
Surrogate: Toluene-d8	0.0495		"	0.0500		99	60-140			
Surrogate: 4-BFB	0.0506		"	0.0500		101	60-140			
Matrix Spike (6120227-MS1)	Source: So	612354-01		Prepared of	& Analyze	ed: 12/20/	06			
Methyl tert-butyl ether	0.0787	0.0050	mg/kg	0.104	ND	76	60-140			
Benzene	0.0535	0.0050	"	0.0776	ND	69	60-140			
Toluene	0.430	0.0050	"	0.376	ND	114	60-140			
Gasoline Range Organics (C4-C12)	4.92	1.0	"	4.40	ND	112	60-140			
Surrogate: 1,2-DCA-d4	0.0484		"	0.0500		97	60-140			
Surrogate: Toluene-d8	0.0496		"	0.0500		99	60-140			
Surrogate: 4-BFB	0.0511		"	0.0500		102	60-140			
Matrix Spike Dup (6120227-MSD1)	Source: So	612354-01		Prepared of	& Analyze	ed: 12/20/	06			
Methyl tert-butyl ether	0.0780	0.0050	mg/kg	0.104	ND	75	60-140	0.9	25	
Benzene	0.0503	0.0050	"	0.0776	ND	65	60-140	6	25	
Toluene	0.402	0.0050	"	0.376	ND	107	60-140	7	25	
Gasoline Range Organics (C4-C12)	4.59	1.0	"	4.40	ND	104	60-140	7	25	
Surrogate: 1,2-DCA-d4	0.0495		"	0.0500		99	60-140			
Surrogate: Toluene-d8	0.0502		"	0.0500		100	60-140			
Surrogate: 4-BFB	0.0510		"	0.0500		102	60-140			

%REC



Batch 6120251 - EPA 5030B [MeOH] / GCMS \ 8260B

Blank (6120251-BLK1)

Surrogate: Toluene-d8

Methyl tert-butyl ether

Surrogate: 1,2-DCA-d4

Surrogate: Toluene-d8

Surrogate: 4-BFB

Surrogate: 4-BFB

Benzene

Toluene

Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122895900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel01/05/07 00:14

## Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	

Prepared & Analyzed: 12/20/06

Ethanol	ND	2.5	mg/kg					
Tert-butyl alcohol	ND	0.25	"					
Methyl tert-butyl ether	ND	0.025	"					
Di-isopropyl ether	ND	0.10	"					
Ethyl tert-butyl ether	ND	0.10	"					
Tert-amyl methyl ether	ND	0.10	"					
1,2-Dichloroethane	ND	0.025	"					
1,2-Dibromoethane (EDB)	ND	0.025	"					
Benzene	ND	0.025	"					
Ethylbenzene	ND	0.025	"					
Toluene	ND	0.025	"					
Xylenes (total)	ND	0.050	"					
Gasoline Range Organics (C4-C12)	ND	2.5	"					
Surrogate: 1,2-DCA-d4	0.0111		"	0.0100	111	60-140	 	
Surrogate: Toluene-d8	0.00960		"	0.0100	96	60-140		
Surrogate: 4-BFB	0.0113		"	0.0100	113	60-140		
<b>Laboratory Control Sample (61202</b>	51-BS1)			Prepared & Ar	nalyzed: 12/20/0	)6		
Methyl tert-butyl ether	0.0366	0.00050	mg/kg	0.0520	70	60-140		
Toluene	0.149	0.00050	"	0.188	79	70-130		
Gasoline Range Organics (C4-C12)	2.20	0.050	"	2.20	100	70-130		
Surrogate: 1,2-DCA-d4	0.0110		"	0.0100	110	60-140		

0.0100

0.0100

0.0200

0.0200

0.0200

0.0100

0.0100

0.0100

0.0101

0.0109

0.0206

0.0192

0.0185

0.0115

0.00976

0.0110

0.00050

0.00050

0.00050

mg/kg

Laboratory Control Sample (6120251-BS2)

101

109

103

96

92

115

98

110

Prepared & Analyzed: 12/20/06

60-140

60-140

60-140

70-130

70-130

60-140

60-140

60-140



# Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6120251 - EPA 5030B [Me	OHI / GCMS \ 8	260B								
Laboratory Control Sample Dup (612				Prepared &	& Analyze	ed: 12/20/	06			
Methyl tert-butyl ether	0.0349	0.00050	mg/kg	0.0520		67	60-140	5	25	
Toluene	0.147	0.00050	"	0.188		78	70-130	1	25	
Gasoline Range Organics (C4-C12)	2.13	0.050	"	2.20		97	70-130	3	25	
Surrogate: 1,2-DCA-d4	0.0109		"	0.0100		109	60-140			
Surrogate: Toluene-d8	0.0101		"	0.0100		101	60-140			
Surrogate: 4-BFB	0.0110		"	0.0100		110	60-140			
Laboratory Control Sample Dup (612	20251-BSD2)			Prepared &	& Analyze	ed: 12/20/	06			
Methyl tert-butyl ether	0.0202	0.00050	mg/kg	0.0200		101	60-140	2	25	
Benzene	0.0196	0.00050	"	0.0200		98	70-130	2	25	
Toluene	0.0185	0.00050	"	0.0200		92	70-130	0	25	
Surrogate: 1,2-DCA-d4	0.0117		"	0.0100		117	60-140			
Surrogate: Toluene-d8	0.00995		"	0.0100		100	60-140			
Surrogate: 4-BFB	0.0106		"	0.0100		106	60-140			
Batch 6120275 - EPA 5030B [P/T	] / GCMS \ 8260	В								
Blank (6120275-BLK1)				Prepared:	12/21/06	Analyzed	l: 12/22/06			
Ethanol	ND	50	ug/l							
Tert-butyl alcohol	ND	5.0	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Tert-amyl methyl ether	ND	2.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-DCA-d4	24.9		"	25.0		100	60-140			
Surrogate: Toluene-d8	26.6		"	25.0		106	60-140			
Surrogate: 4-BFB	26.5		"	25.0		106	60-140			



# Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (6120275-BLK2)				Prepared & An	alyzed: 12/22	/06	
Ethanol	ND	50	ug/l				
Tert-butyl alcohol	ND	5.0	"				
Methyl tert-butyl ether	ND	0.50	"				
Di-isopropyl ether	ND	2.0	"				
Ethyl tert-butyl ether	ND	2.0	"				
Tert-amyl methyl ether	ND	2.0	"				
1,2-Dichloroethane	ND	0.50	"				
1,2-Dibromoethane (EDB)	ND	0.50	"				
Benzene	ND	0.50	"				
Ethylbenzene	ND	0.50	"				
Toluene	ND	0.50	"				
Xylenes (total)	ND	1.0	"				
Gasoline Range Organics (C4-C12)	ND	50	"				
Surrogate: 1,2-DCA-d4	24.4		"	25.0	98	60-140	
Surrogate: Toluene-d8	26.0		"	25.0	104	60-140	
Surrogate: 4-BFB	26.2		"	25.0	105	60-140	
Blank (6120275-BLK3)				Prepared & An	alyzed: 12/26	/06	
Ethanol	ND	50	ug/l				
Tert-butyl alcohol	ND	5.0	"				
Methyl tert-butyl ether	ND	0.50	"				
Di-isopropyl ether	ND	2.0	"				
Ethyl tert-butyl ether	ND	2.0	"				
Tert-amyl methyl ether	ND	2.0	"				
1,2-Dichloroethane	ND	0.50	"				
1,2-Dibromoethane (EDB)	ND	0.50	"				
Benzene	ND	0.50	"				
Ethylbenzene	ND	0.50	"				
Toluene	ND	0.50	"				
Xylenes (total)	ND	1.0	"				
Gasoline Range Organics (C4-C12)	ND	50	"				
Surrogate: 1,2-DCA-d4	22.8		"	25.0	91	60-140	
Surrogate: Toluene-d8	25.8		"	25.0	103	60-140	
Surrogate: 4-BFB	25.7		"	25.0	103	60-140	

TestAmerica - Sacramento, CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

RPD



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122895900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel01/05/07 00:14

# Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

Reporting

Spike

Source

%REC

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6120275 - EPA 5030B [P/T] / 0	GCMS \ 8260E	3								
Laboratory Control Sample (6120275-BS	S1)			Prepared:	12/21/06	Analyzed	: 12/22/06			
Methyl tert-butyl ether	35.9	0.50	ug/l	52.0		69	60-140			
Toluene	188	0.50	"	188		100	70-130			
Gasoline Range Organics (C4-C12)	2200	50	"	2200		100	70-130			
Surrogate: 1,2-DCA-d4	24.4		"	25.0		98	60-140			
Surrogate: Toluene-d8	25.4		"	25.0		102	60-140			
Surrogate: 4-BFB	25.3		"	25.0		101	60-140			
Laboratory Control Sample (6120275-BS	S2)			Prepared:	12/21/06	Analyzed	: 12/22/06			
Benzene	20.2	0.50	ug/l	20.0		101	70-130			
Surrogate: 1,2-DCA-d4	26.0		"	25.0		104	60-140			
Surrogate: Toluene-d8	24.8		"	25.0		99	60-140			
Surrogate: 4-BFB	25.2		"	25.0		101	60-140			
Laboratory Control Sample (6120275-BS	S3)			Prepared	& Analyz	ed: 12/22/0	06			
Methyl tert-butyl ether	31.8	0.50	ug/l	52.0		61	60-140			
Toluene	176	0.50	"	188		94	70-130			
Gasoline Range Organics (C4-C12)	2050	50	"	2200		93	70-130			
Surrogate: 1,2-DCA-d4	23.3		"	25.0		93	60-140			
Surrogate: Toluene-d8	25.1		"	25.0		100	60-140			
Surrogate: 4-BFB	25.2		"	25.0		101	60-140			
Laboratory Control Sample (6120275-BS	S4)			Prepared:	12/22/06	Analyzed	: 12/23/06			
Benzene	20.3	0.50	ug/l	20.0		102	70-130			
Surrogate: 1,2-DCA-d4	26.2		"	25.0		105	60-140			
Surrogate: Toluene-d8	24.6		"	25.0		98	60-140			
Surrogate: 4-BFB	24.9		"	25.0		100	60-140			
Laboratory Control Sample (6120275-BS	S5)			Prepared	& Analyz	ed: 12/26/0	06			
Toluene	170	0.50	ug/l	188		90	70-130			
Gasoline Range Organics (C4-C12)	1960	50	"	2200		89	70-130			
Surrogate: 1,2-DCA-d4	23.1		"	25.0		92	60-140			
Surrogate: Toluene-d8	25.3		"	25.0		101	60-140			
Surrogate: 4-BFB	24.9		"	25.0		100	60-140			



# Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6120275 - EPA 5030B [P/T] /	GCMS \ 82601	В								
Laboratory Control Sample (6120275-B	<b>BS6</b> )			Prepared	& Analyz	ed: 12/26/	06			
Methyl tert-butyl ether	19.6	0.50	ug/l	20.0		98	60-140			
Benzene	19.6	0.50	"	20.0		98	70-130			
Surrogate: 1,2-DCA-d4	24.7		"	25.0		99	60-140			
Surrogate: Toluene-d8	24.2		"	25.0		97	60-140			
Surrogate: 4-BFB	24.9		"	25.0		100	60-140			
Matrix Spike (6120275-MS1)	Source: S6	12241-01		Prepared:	12/26/06	Analyzed	1: 12/27/06			
Methyl tert-butyl ether	142	0.50	ug/l	52.0	113	56	60-140			M
Benzene	20.6	0.50	"	38.8	ND	53	70-130			M
Toluene	172	0.50	"	188	ND	91	70-130			
Gasoline Range Organics (C4-C12)	1910	50	"	2200	87.2	83	60-140			
Surrogate: 1,2-DCA-d4	23.6		"	25.0		94	60-140			
Surrogate: Toluene-d8	25.3		"	25.0		101	60-140			
Surrogate: 4-BFB	24.5		"	25.0		98	60-140			
Matrix Spike Dup (6120275-MSD1)	Source: S6	12241-01		Prepared:	12/26/06	Analyzed	1: 12/27/06			
Methyl tert-butyl ether	135	0.50	ug/l	52.0	113	42	60-140	5	25	M
Benzene	22.1	0.50	"	38.8	ND	57	70-130	7	25	M
Toluene	186	0.50	"	188	ND	99	70-130	8	25	
Gasoline Range Organics (C4-C12)	2090	50	"	2200	87.2	91	60-140	9	25	
Surrogate: 1,2-DCA-d4	23.5		"	25.0		94	60-140			
Surrogate: Toluene-d8	25.3		"	25.0		101	60-140			
Surrogate: 4-BFB	25.1		"	25.0		100	60-140			
Batch 6120276 - EPA 5030B [P/T] /	GCMS \ 82601	В								
Blank (6120276-BLK1)	,			Prepared:	12/22/06	Analyzed	l: 12/23/06			
Ethanol	ND	50	ug/l	F						
Tert-butyl alcohol	ND	5.0	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Tert-amyl methyl ether	ND	2.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							

TestAmerica - Sacramento, CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

RPD



Cambria Env - 5900 Hollis, Emeryville (Shell) Project: 461 8th St, Oakland S612289 5900 Hollis St., Ste. A Project Number: 97093399 Reported: Project Manager: Ana Friel Emeryville CA, 94608 01/05/07 00:14

### Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

Reporting

Spike

%REC

Analyte	Result	Limit	Units	Level	Result	%REC	%KEC Limits	RPD	Limit	Notes
· ·										2.000
Batch 6120276 - EPA 5030B [P/T]	/ GCMS \ 8260	В								
Blank (6120276-BLK1)				Prepared:	12/22/06	Analyzed	1: 12/23/06			
Toluene	ND	0.50	ug/l							
Xylenes (total)	ND	1.0	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-DCA-d4	24.3		"	25.0		97	60-140			
Surrogate: Toluene-d8	25.6		"	25.0		102	60-140			
Surrogate: 4-BFB	25.9		"	25.0		104	60-140			
Blank (6120276-BLK2)				Prepared	& Analyz	ed: 12/26/	06			
Ethanol	ND	50	ug/l							
Tert-butyl alcohol	ND	5.0	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Tert-amyl methyl ether	ND	2.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-DCA-d4	22.8		"	25.0		91	60-140			
Surrogate: Toluene-d8	25.8		"	25.0		103	60-140			
Surrogate: 4-BFB	25.7		"	25.0		103	60-140			
Blank (6120276-BLK3)				Prepared	& Analyz	ed: 12/27/	06			
Ethanol	ND	50	ug/l		-					
Tert-butyl alcohol	ND	5.0	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Tert-amyl methyl ether	ND	2.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							

TestAmerica - Sacramento, CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



# Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

											1
		Reporting		Spike	Source		%REC		RPD		İ
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	ĺ

Blank (6120276-BLK3)				Prepared & Ar	nalyzed: 12/27/	06
Toluene	ND	0.50	ug/l			
Xylenes (total)	ND	1.0	"			
Gasoline Range Organics (C4-C12)	ND	50	"			
Surrogate: 1,2-DCA-d4	24.0		"	25.0	96	60-140
Surrogate: Toluene-d8	25.1		"	25.0	100	60-140
Surrogate: 4-BFB	24.8		"	25.0	99	60-140
Laboratory Control Sample (6120276-B	S1)			Prepared: 12/2	2/06 Analyze	d: 12/23/06
Methyl tert-butyl ether	36.4	0.50	ug/l	52.0	70	60-140
Toluene	178	0.50	"	188	95	70-130
Gasoline Range Organics (C4-C12)	1980	50	"	2200	90	70-130
Surrogate: 1,2-DCA-d4	24.4		"	25.0	98	60-140
Surrogate: Toluene-d8	24.8		"	25.0	99	60-140
Surrogate: 4-BFB	25.3		"	25.0	101	60-140
Laboratory Control Sample (6120276-B	S2)			Prepared: 12/2	2/06 Analyze	d: 12/23/06
Benzene	20.2	0.50	ug/l	20.0	101	70-130
Surrogate: 1,2-DCA-d4	26.7		"	25.0	107	60-140
Surrogate: Toluene-d8	24.2		"	25.0	97	60-140
Surrogate: 4-BFB	25.4		"	25.0	102	60-140
Laboratory Control Sample (6120276-B	S3)			Prepared & Ar	nalyzed: 12/26/	06
Toluene	170	0.50	ug/l	188	90	70-130
Gasoline Range Organics (C4-C12)	1960	50	"	2200	89	70-130
Surrogate: 1,2-DCA-d4	23.1		"	25.0	92	60-140
Surrogate: Toluene-d8	25.3		"	25.0	101	60-140
Surrogate: 4-BFB	24.9		"	25.0	100	60-140

RPD



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122895900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel01/05/07 00:14

# Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

Spike

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6120276 - EPA 5030B [P/T	] / GCMS \ 8260B	3								
Laboratory Control Sample (6120276	6-BS4)			Prepared	& Analyz	ed: 12/26/	06			
Methyl tert-butyl ether	19.6	0.50	ug/l	20.0		98	60-140			
Benzene	19.6	0.50	"	20.0		98	70-130			
Surrogate: 1,2-DCA-d4	24.7		"	25.0		99	60-140			
Surrogate: Toluene-d8	24.2		"	25.0		97	60-140			
Surrogate: 4-BFB	24.9		"	25.0		100	60-140			
Laboratory Control Sample (6120276	6-BS5)			Prepared	& Analyz	ed: 12/27/	06			
Methyl tert-butyl ether	32.6	0.50	ug/l	52.0		63	60-140			
Γoluene	179	0.50	"	188		95	70-130			
Gasoline Range Organics (C4-C12)	2250	50	"	2200		102	70-130			
Surrogate: 1,2-DCA-d4	23.2		"	25.0		93	60-140			
Surrogate: Toluene-d8	24.8		"	25.0		99	60-140			
Surrogate: 4-BFB	24.3		"	25.0		97	60-140			
Laboratory Control Sample (6120276	6-BS6)			Prepared	& Analyz	ed: 12/27/	06			
Benzene	19.4	0.50	ug/l	20.0		97	70-130			
Surrogate: 1,2-DCA-d4	24.4		"	25.0		98	60-140			
Surrogate: Toluene-d8	24.8		"	25.0		99	60-140			
Surrogate: 4-BFB	24.7		"	25.0		99	60-140			
Matrix Spike (6120276-MS1)	Source: S61	2308-05		Prepared	& Analyz	ed: 12/27/	06			
Methyl tert-butyl ether	20.5	0.50	ug/l	20.0	ND	102	60-140			
Benzene	20.2	0.50	"	20.0	ND	101	70-130			
Γoluene	21.3	0.50	"	20.0	ND	106	70-130			
Surrogate: 1,2-DCA-d4	26.1		"	25.0		104	60-140			
Surrogate: Toluene-d8	24.0		"	25.0		96	60-140			
Surrogate: 4-BFB	24.3		"	25.0		97	60-140			

%REC



# Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

Units

Level

Limit

		,			
Reporting	Spike	Source	%REC	RPD	

%REC

Limits

RPD

Limit

Notes

Result

				1005501	00.00
Batch 6120276 -	· EPA	5030B	TP/TT	/ GCMS \	8260B

Result

Analyte

Matrix Spike Dup (6120276-MSD1)	Source: S612	2308-05		Prepared 6	& Analyze	ed: 12/27	/06			
Methyl tert-butyl ether	17.5	0.50	ug/l	20.0	ND	88	60-140	16	25	
Benzene	17.8	0.50	"	20.0	ND	89	70-130	13	25	
Toluene	19.3	0.50	"	20.0	ND	96	70-130	10	25	
Surrogate: 1,2-DCA-d4	25.3		"	25.0		101	60-140			
Surrogate: Toluene-d8	24.7		"	25.0		99	60-140			
Surrogate: 4-BFB	24.6		"	25.0		98	60-140			





#### **Notes and Definitions**

M8 The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LAB: TA				) ;	SHI	EL	L (	Ch	air	ı C	Of (	Cu	sto	dy	R	ec	or	d						
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Ana Friel TELEPHONE:	FAX:	E-MAIL:			SA	MPL	ERN	IAME	(S) (P	rint):	Matth	ias										14.0	LAB U:	SEIONLY
	707 268 8180	afriel@camb	ria-env.com																			101		
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DSE Field Sample	ldentification	SAMPLING DATE TIME	MATRIX	NO. OF CONT.	H H	TPHd - Extractable	BTEX (8260B)	5 Oxygenates (MTBE, TBA, DIF	Oil &	Chlorinated hydorcarbons	EDB	Cam	PCB,										Test for Disposal (see		10.60		
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2 January, 2007

Ana Friel Cambria Env - 5900 Hollis, Emeryville (Shell) 5900 Hollis St., Ste. A Emeryville, CA 94608

RE: 461 8th St, Oakland Work Order: S612291

Enclosed are the results of analyses for samples received by the laboratory on 12/13/06 19:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sylvia Krenn Project Manager

CA ELAP Certificate # 2630





#### ANALYTICAL REPORT FOR SAMPLES

Selection   Sele	Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Selection   Sele	B-16-5	S612291-01	Soil	12/12/06 08:00	12/13/06 19:00
8-16-20       \$612291-04       \$6il       \$12/12/06 08:15       \$12/13/06 19:00         3-16-25       \$612291-05       \$6il       \$12/12/06 08:20       \$12/13/06 19:00         3-16-W       \$612291-06       Water       \$12/12/06 08:20       \$12/13/06 19:00         3-15-5       \$612291-07       \$6il       \$12/12/06 09:05       \$12/13/06 19:00         3-15-10       \$612291-08       \$6il       \$12/12/06 09:10       \$12/13/06 19:00         3-15-20       \$612291-09       \$6il       \$12/12/06 09:15       \$12/13/06 19:00         3-15-25       \$612291-10       \$6il       \$12/12/06 09:20       \$12/13/06 19:00         3-17-5       \$612291-11       Water       \$12/12/06 09:30       \$12/13/06 19:00         3-17-10       \$612291-12       \$6il       \$12/12/06 10:00       \$12/13/06 19:00         3-17-20       \$612291-14       \$6il       \$12/12/06 10:05       \$12/13/06 19:00         3-17-25       \$612291-15       \$6il       \$12/12/06 10:15       \$12/13/06 19:00         3-17-20       \$612291-16       \$6il       \$12/12/06 10:05       \$12/13/06 19:00         3-17-25       \$612291-17       Water       \$12/12/06 10:05       \$12/13/06 19:00         3-18-10       \$612291-18       \$6il	B-16-10	S612291-02	Soil	12/12/06 08:05	12/13/06 19:00
8-16-25       S612291-05       S0il       12/12/06 08:20       12/13/06 19:00         8-16-W       S612291-06       Water       12/12/06 08:20       12/13/06 19:00         8-15-5       S612291-07       S0il       12/12/06 09:05       12/13/06 19:00         8-15-10       S612291-08       S0il       12/12/06 09:15       12/13/06 19:00         8-15-20       S612291-09       S0il       12/12/06 09:15       12/13/06 19:00         8-15-25       S612291-10       S0il       12/12/06 09:20       12/13/06 19:00         8-15-W       S612291-11       Water       12/12/06 09:30       12/13/06 19:00         8-17-10       S612291-12       S0il       12/12/06 10:00       12/13/06 19:00         8-17-15       S612291-14       S0il       12/12/06 10:05       12/13/06 19:00         8-17-20       S612291-15       S0il       12/12/06 10:05       12/13/06 19:00         8-17-25       S612291-16       S0il       12/12/06 10:05       12/13/06 19:00         8-17-29       S612291-17       Water       12/12/06 10:05       12/13/06 19:00         8-17-25       S612291-18       S0il       12/12/06 10:05       12/13/06 19:00         8-18-10       S612291-1       S0il       12/12/06 10:05	B-16-15	S612291-03	Soil	12/12/06 08:10	12/13/06 19:00
8-16-W       S612291-06       Water       12/12/06 08:20       12/13/06 19:00         3-15-5       S612291-07       Soil       12/12/06 09:05       12/13/06 19:00         3-15-10       S612291-08       Soil       12/12/06 09:10       12/13/06 19:00         3-15-20       S612291-09       Soil       12/12/06 09:20       12/13/06 19:00         3-15-W       S612291-11       Water       12/12/06 09:30       12/13/06 19:00         3-17-5       S612291-12       Soil       12/12/06 10:00       12/13/06 19:00         3-17-10       S612291-13       Soil       12/12/06 10:05       12/13/06 19:00         3-17-20       S612291-14       Soil       12/12/06 10:05       12/13/06 19:00         3-17-25       S612291-15       Soil       12/12/06 10:05       12/13/06 19:00         3-17-20       S612291-16       Soil       12/12/06 10:15       12/13/06 19:00         3-17-W       S612291-16       Soil       12/12/06 10:20       12/13/06 19:00         3-18-5       S612291-19       Soil       12/12/06 10:40       12/13/06 19:00         3-18-10       S612291-20       Soil       12/12/06 10:40       12/13/06 19:00         3-18-20       S612291-2       Soil       12/12/06 10:55       <	B-16-20	S612291-04	Soil	12/12/06 08:15	12/13/06 19:00
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3-15-20       S612291-09       Soil       12/12/06 09:15       12/13/06 19:00         3-15-25       S612291-10       Soil       12/12/06 09:20       12/13/06 19:00         3-15-W       S612291-11       Water       12/12/06 09:30       12/13/06 19:00         3-17-5       S612291-12       Soil       12/12/06 10:00       12/13/06 19:00         3-17-10       S612291-13       Soil       12/12/06 10:05       12/13/06 19:00         3-17-20       S612291-14       Soil       12/12/06 10:10       12/13/06 19:00         3-17-25       S612291-15       Soil       12/12/06 10:15       12/13/06 19:00         3-17-W       S612291-17       Water       12/12/06 10:30       12/13/06 19:00         3-18-15       S612291-18       Soil       12/12/06 10:40       12/13/06 19:00         3-18-10       S612291-19       Soil       12/12/06 10:40       12/13/06 19:00         3-18-15       S612291-20       Soil       12/12/06 10:45       12/13/06 19:00         3-18-20       S612291-21       Soil       12/12/06 10:55       12/13/06 19:00         3-18-25       S612291-22       Soil       12/12/06 10:55       12/13/06 19:00         3-18-W       S612291-24       Soil       12/12/06 11:00	B-15-5	S612291-07	Soil	12/12/06 09:05	12/13/06 19:00
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8-15-W       S612291-11       Water       12/12/06 09:30       12/13/06 19:00         8-17-5       S612291-12       Soil       12/12/06 10:00       12/13/06 19:00         8-17-10       S612291-13       Soil       12/12/06 10:05       12/13/06 19:00         3-17-15       S612291-14       Soil       12/12/06 10:10       12/13/06 19:00         3-17-20       S612291-15       Soil       12/12/06 10:15       12/13/06 19:00         3-17-25       S612291-16       Soil       12/12/06 10:20       12/13/06 19:00         3-17-W       S612291-17       Water       12/12/06 10:30       12/13/06 19:00         3-18-15       S612291-18       Soil       12/12/06 10:40       12/13/06 19:00         3-18-10       S612291-19       Soil       12/12/06 10:40       12/13/06 19:00         3-18-15       S612291-20       Soil       12/12/06 10:55       12/13/06 19:00         3-18-20       S612291-21       Soil       12/12/06 10:55       12/13/06 19:00         3-18-25       S612291-22       Soil       12/12/06 10:55       12/13/06 19:00         3-18-W       S612291-23       Water       12/12/06 11:00       12/13/06 19:00         3-19-10       S612291-24       Soil       12/12/06 12:35	B-15-20	S612291-09	Soil	12/12/06 09:15	12/13/06 19:00
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3-17-W       S612291-17       Water       12/12/06 10:30       12/13/06 19:00         3-18-5       S612291-18       Soil       12/12/06 10:40       12/13/06 19:00         3-18-10       S612291-19       Soil       12/12/06 10:45       12/13/06 19:00         3-18-15       S612291-20       Soil       12/12/06 10:50       12/13/06 19:00         3-18-20       S612291-21       Soil       12/12/06 10:55       12/13/06 19:00         3-18-25       S612291-22       Soil       12/12/06 11:00       12/13/06 19:00         3-18-W       S612291-23       Water       12/12/06 11:10       12/13/06 19:00         3-19-5       S612291-24       Soil       12/12/06 12:30       12/13/06 19:00         3-19-10       S612291-25       Soil       12/12/06 12:35       12/13/06 19:00         3-19-15       S612291-26       Soil       12/12/06 12:40       12/13/06 19:00         3-19-20       S612291-27       Soil       12/12/06 12:45       12/13/06 19:00         3-19-25       S612291-28       Soil       12/12/06 12:50       12/13/06 19:00	B-17-20	S612291-15	Soil	12/12/06 10:15	12/13/06 19:00
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3-18-10       S612291-19       Soil       12/12/06 10:45       12/13/06 19:00         3-18-15       S612291-20       Soil       12/12/06 10:50       12/13/06 19:00         3-18-20       S612291-21       Soil       12/12/06 10:55       12/13/06 19:00         3-18-25       S612291-22       Soil       12/12/06 11:00       12/13/06 19:00         3-18-W       S612291-23       Water       12/12/06 11:10       12/13/06 19:00         3-19-5       S612291-24       Soil       12/12/06 12:30       12/13/06 19:00         3-19-10       S612291-25       Soil       12/12/06 12:35       12/13/06 19:00         3-19-15       S612291-26       Soil       12/12/06 12:40       12/13/06 19:00         3-19-20       S612291-27       Soil       12/12/06 12:45       12/13/06 19:00         3-19-25       S612291-28       Soil       12/12/06 12:50       12/13/06 19:00	B-17-W	S612291-17	Water	12/12/06 10:30	12/13/06 19:00
3-18-15       S612291-20       Soil       12/12/06 10:50       12/13/06 19:00         3-18-20       S612291-21       Soil       12/12/06 10:55       12/13/06 19:00         3-18-25       S612291-22       Soil       12/12/06 11:00       12/13/06 19:00         3-18-W       S612291-23       Water       12/12/06 11:10       12/13/06 19:00         3-19-5       S612291-24       Soil       12/12/06 12:30       12/13/06 19:00         3-19-10       S612291-25       Soil       12/12/06 12:35       12/13/06 19:00         3-19-15       S612291-26       Soil       12/12/06 12:40       12/13/06 19:00         3-19-20       S612291-27       Soil       12/12/06 12:45       12/13/06 19:00         3-19-25       S612291-28       Soil       12/12/06 12:50       12/13/06 19:00	B-18-5	S612291-18	Soil	12/12/06 10:40	12/13/06 19:00
3-18-20       \$612291-21       \$Soil       \$12/12/06 10:55       \$12/13/06 19:00         3-18-25       \$612291-22       \$Soil       \$12/12/06 11:00       \$12/13/06 19:00         3-18-W       \$612291-23       \$Water       \$12/12/06 11:10       \$12/13/06 19:00         3-19-5       \$612291-24       \$Soil       \$12/12/06 12:30       \$12/13/06 19:00         3-19-10       \$612291-25       \$Soil       \$12/12/06 12:35       \$12/13/06 19:00         3-19-15       \$612291-26       \$Soil       \$12/12/06 12:40       \$12/13/06 19:00         3-19-20       \$612291-27       \$Soil       \$12/12/06 12:45       \$12/13/06 19:00         3-19-25       \$612291-28       \$Soil       \$12/12/06 12:50       \$12/13/06 19:00	B-18-10	S612291-19	Soil	12/12/06 10:45	12/13/06 19:00
3-18-25       Sól 12291-22       Sóil 12/12/06 11:00       12/13/06 19:00         3-18-W       Sól 2291-23       Water 12/12/06 11:10       12/13/06 19:00         3-19-5       Sól 2291-24       Sóil 12/12/06 12:30       12/13/06 19:00         3-19-10       Sól 2291-25       Sóil 12/12/06 12:35       12/13/06 19:00         3-19-15       Sól 2291-26       Sóil 12/12/06 12:40       12/13/06 19:00         3-19-20       Sól 2291-27       Sóil 12/12/06 12:45       12/13/06 19:00         3-19-25       Sóil 12/12/06 12:50       12/13/06 19:00	B-18-15	S612291-20	Soil	12/12/06 10:50	12/13/06 19:00
3-18-W       S612291-23       Water       12/12/06 11:10       12/13/06 19:00         3-19-5       S612291-24       Soil       12/12/06 12:30       12/13/06 19:00         3-19-10       S612291-25       Soil       12/12/06 12:35       12/13/06 19:00         3-19-15       S612291-26       Soil       12/12/06 12:40       12/13/06 19:00         3-19-20       S612291-27       Soil       12/12/06 12:45       12/13/06 19:00         3-19-25       S612291-28       Soil       12/12/06 12:50       12/13/06 19:00	B-18-20	S612291-21	Soil	12/12/06 10:55	12/13/06 19:00
3-19-5       S612291-24       Soil       12/12/06 12:30       12/13/06 19:00         3-19-10       S612291-25       Soil       12/12/06 12:35       12/13/06 19:00         3-19-15       S612291-26       Soil       12/12/06 12:40       12/13/06 19:00         3-19-20       S612291-27       Soil       12/12/06 12:45       12/13/06 19:00         3-19-25       S612291-28       Soil       12/12/06 12:50       12/13/06 19:00	B-18-25	S612291-22	Soil	12/12/06 11:00	12/13/06 19:00
3-19-10       S612291-25       Soil       12/12/06 12:35       12/13/06 19:00         3-19-15       S612291-26       Soil       12/12/06 12:40       12/13/06 19:00         3-19-20       S612291-27       Soil       12/12/06 12:45       12/13/06 19:00         3-19-25       S612291-28       Soil       12/12/06 12:50       12/13/06 19:00	B-18-W	S612291-23	Water	12/12/06 11:10	12/13/06 19:00
3-19-15       Soil       12/12/06 12:40       12/13/06 19:00         3-19-20       Soil       12/12/06 12:45       12/13/06 19:00         3-19-25       Soil       12/12/06 12:50       12/13/06 19:00	B-19-5	S612291-24	Soil	12/12/06 12:30	12/13/06 19:00
S612291-27 Soil 12/12/06 12:45 12/13/06 19:00 S612291-28 Soil 12/12/06 12:50 12/13/06 19:00	B-19-10	S612291-25	Soil	12/12/06 12:35	12/13/06 19:00
S612291-28 Soil 12/12/06 12:50 12/13/06 19:00	B-19-15	S612291-26	Soil	12/12/06 12:40	12/13/06 19:00
	B-19-20	S612291-27	Soil	12/12/06 12:45	12/13/06 19:00
S612291-29 Water 12/12/06 13:00 12/13/06 19:00	B-19-25	S612291-28	Soil	12/12/06 12:50	12/13/06 19:00
	B-19-W	S612291-29	Water	12/12/06 13:00	12/13/06 19:00

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.





#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-23-5	S612291-30	Soil	12/12/06 13:35	12/13/06 19:00
B-23-10	S612291-31	Soil	12/12/06 13:40	12/13/06 19:00
B-23-15	S612291-32	Soil	12/12/06 13:45	12/13/06 19:00
B-23-20	S612291-33	Soil	12/12/06 13:50	12/13/06 19:00
B-23-25	S612291-34	Soil	12/12/06 13:55	12/13/06 19:00
B-23-W	S612291-35	Water	12/12/06 14:10	12/13/06 19:00
B-15-15	S612291-36	Soil	12/12/06 09:15	12/13/06 19:00



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-16-5 (S612291-01) Soil	Sampled: 12/12/06 08:00	Received: 12/2	13/06 19:00	)					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120210	12/18/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C	C4-C12) ND	1.0	"	"	"	"	"	II .	
Surrogate: 1,2-DCA-d4		107 %	60-14	<i>40</i>	"	"	"	"	
Surrogate: Toluene-d8		110 %	60-14	10	"	"	"	"	
Surrogate: 4-BFB		114 %	60-14	<i>40</i>	"	"	"	"	
B-16-10 (S612291-02) Soil	Sampled: 12/12/06 08:05	Received: 12	/13/06 19:0	00					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120210	12/18/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (O	C4-C12) ND	1.0	"	"	"	"	"	II .	
Surrogate: 1,2-DCA-d4		114 %	60-14	40	"	"	"	"	
Surrogate: Toluene-d8		109 %	60-14	<i>40</i>	"	"	"	II .	
Surrogate: 4-BFB		115 %	60-14	40	"	"	"	"	



Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
2/12/06 08:10	Received: 12	/13/06 19:	:00					
ND	0.050	mg/kg	1	6120210	12/18/06	12/19/06	GCMS \ 8260B	
ND	0.0050	"	"	"	"	"	"	
ND	0.010	"	"	"	"	"	"	
ND	0.0050	"	"	"	"	"	"	
ND	0.0050	"	"	"	"	"	"	
ND	0.0050	"	"	"	"	"	"	
ND	0.0050	"	"	"	"	"	"	
ND	0.0050	"	"	"	"	"	"	
ND	0.0050	"	"	"	"	"	"	
ND	0.0050	"	"	"	"	"	"	
ND	0.010	"	"	"	"	"	"	
ND	1.0	"	"	"	"	"	"	
	107 %	60-1	140	"	"	"	"	
	106 %	60-1	140	"	"	"	"	
	113 %	60-1	140	"	"	"	"	
2/12/06 08:15	Received: 12	/13/06 19:	:00					
ND	0.050	mg/kg	1	6120210	12/18/06	12/19/06	GCMS \ 8260B	
ND	0.0050	"	"	"	"	"	"	
ND	0.010	"	"	"	"	"	"	
ND	0.0050	"	"	"	"	"	"	
ND	0.0050	"	"	"	"	"	"	
ND	0.0050	"	"	"	"	"	"	
ND	0.0050	"	"	"	"	"	"	
0.054	0.0050	"	"	"	"	"	"	
0.043	0.0050	"	"	"	"	"	"	
0.11	0.0050	"	"	"	"	"	"	
0.26	0.010	"	"	"	"	"	"	
1.6	1.0	"	"	"	"	"	"	
	110 %	60-1	140	"	"	"	"	
	103 %	60-1	140	"	"	"	"	
	105 %	60-		"		,,	"	
	2/12/06 08:10  ND ND ND ND ND ND ND ND ND ND ND ND ND	Result   Limit	Result   Limit   Units   Uni	Result	Result   Limit   Units   Dilution   Batch	Result   Limit   Units   Dilution   Batch   Prepared	Result	Result



		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B-16-25 (S612291-05) Soil Sa	mpled: 12/12/06 08:20	Received: 12	/13/06 19	0:00					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120210	12/18/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	0.19	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.12	0.0050	"	"	"	"	"	"	
Toluene	0.17	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.54	0.010	"	"	"	"	"	"	
<b>Gasoline Range Organics (C4-</b>	C12) 2.5	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		103 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		97 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		102 %	60-	140	"	"	"	"	
B-16-W (S612291-06) Water	Sampled: 12/12/06 08:2	20 Received:	12/13/06	19:00					
Tert-butyl alcohol	ND	50	ug/l	10	6120212	12/18/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
1,2-Dichloroethane	110	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	1500	5.0	"	"	"	"	"	"	
Toluene	1600	5.0	"	"	"	"	"	"	
Xylenes (total)	5400	10	"	"	"	"	"	"	
<b>Gasoline Range Organics (C4-</b>	C12) 33000	500	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		113 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		96 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		107 %	60-	140	"	"	"	"	



#### Gasoline\BTEX\Oxygenates by GCMS\8260B TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B-16-W (S612291-06RE1) Water	Sampled: 12/12/0	6 08:20 Recei	ved: 12/13	3/06 19:00					
Benzene	2700	50	ug/l	100	6120213	12/18/06	12/19/06	GCMS \ 8260B	
Surrogate: 1,2-DCA-d4		108 %	60-1	140	"	"	"	"	
Surrogate: Toluene-d8		97 %	60-1	140	"	"	"	"	
Surrogate: 4-BFB		109 %	60-1	140	"	"	"	"	
B-15-5 (S612291-07) Soil Sample	ed: 12/12/06 09:05	Received: 12/1	13/06 19:0	00					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120210	12/19/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	1.0	"	"	"	"	"	m .	
Surrogate: 1,2-DCA-d4		103 %	60-1	140	"	"	"	"	
Surrogate: Toluene-d8		109 %	60-1	140	"	"	"	"	
Surrogate: 4-BFB		117 %	60-1	140	"	"	"	"	
B-15-10 (S612291-08) Soil Samp	led: 12/12/06 09:10	Received: 12	/13/06 19:	:00					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120210	12/18/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	1.0	"	"	"	"	"	"	
		109 %	60-1	140	"	"	"	"	
Surrogate: 1,2-DCA-d4		10,,0							
Surrogate: 1,2-DCA-d4 Surrogate: Toluene-d8		108 %	60-1	140	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B-15-20 (S612291-09) Soil	Sampled: 12/12/06 09:15	Received: 12	2/13/06 19:	00					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120210	12/18/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (Ca	4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		111 %	60-1	140	"	"	"	"	
Surrogate: Toluene-d8		104 %	60-1	140	"	"	"	"	
Surrogate: 4-BFB		107 %	60-1	140	"	"	"	"	
B-15-25 (S612291-10) Soil	Sampled: 12/12/06 09:20	Received: 12	/13/06 19:	00					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120210	12/18/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4	1-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		110 %	60-1	140	"	"	"	"	
Surrogate: Toluene-d8		103 %	60-1	140	"	"	"	"	
Surrogate: 4-BFB		105 %	60-1	140	"	"	"	"	



### Gasoline\BTEX\Oxygenates by GCMS\8260B TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B-15-W (S612291-11) Water Sam	npled: 12/12/06 09:30	Received:	12/13/06 19	:00					
Tert-butyl alcohol	ND	5.0	ug/l	1	6120212	12/18/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	II .	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	II .	
1,2-Dichloroethane	32	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	II .	
Ethylbenzene	180	0.50	"	"	"	"	"	"	
Toluene	9.9	0.50	"	"	"	"	"	"	
Xylenes (total)	13	1.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	1700	50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		111 %	60-140	)	"	"	"	"	
Surrogate: Toluene-d8		96 %	60-140	)	"	"	"	"	
Surrogate: 4-BFB		112 %	60-140	)	"	"	"	"	
B-15-W (S612291-11RE1) Water	Sampled: 12/12/06 09	9:30 Recei	ved: 12/13/0	6 19:00	)				
Benzene	260	5.0	ug/l	10	6120213	12/18/06	12/19/06	GCMS \ 8260B	
Surrogate: 1,2-DCA-d4		109 %	60-140	)	"	"	"	"	
Surrogate: Toluene-d8		97 %	60-140	)	"	"	"	"	
Surrogate: 4-BFB		106 %	60-140	)	"	"	"	"	
B-17-5 (S612291-12) Soil Sampled	d: 12/12/06 10:00 Re	ceived: 12/1	13/06 19:00						
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120210	12/18/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	n .	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
					,,	"	"		
Benzene	ND	0.0050	"	"			"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
			"	"		"	"	" "	
Ethylbenzene Toluene Xylenes (total)	ND ND ND	0.0050 0.0050 0.010	"	"	" "	"	"	  	
Ethylbenzene Toluene	ND ND	0.0050 0.0050	"	"	"	"	"	11 11	
Ethylbenzene Toluene Xylenes (total)	ND ND ND	0.0050 0.0050 0.010	"	" " "	" "	"	"		
Ethylbenzene Toluene Xylenes (total) Gasoline Range Organics (C4-C12)	ND ND ND	0.0050 0.0050 0.010 1.0	" " " " " " " " " " " " " " " " " " " "	" " "	" "	" "	" " "	"	

TestAmerica - Sacramento, CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B-17-10 (S612291-13) Soil	Sampled: 12/12/06 10:05	Received: 12	2/13/06 19:	00					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120210	12/18/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (Ca	4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		114 %	60-1	140	"	"	"	"	
Surrogate: Toluene-d8		103 %	60-1	140	"	"	"	"	
Surrogate: 4-BFB		105 %	60-1	140	"	"	"	"	
B-17-15 (S612291-14) Soil	Sampled: 12/12/06 10:10	Received: 12	/13/06 19:	00					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120210	12/18/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C	4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		115 %	60-1	140	"	"	"	"	
Surrogate: Toluene-d8		102 %	60-1	140	"	"	"	"	
Surrogate: 4-BFB		106 %	60-1	140	"	"	"	"	



B-17-20 (S612291-15) Soil Sampled: 12/12/06 10:15 Received: 12/13/06 19:00  B-17-20 (S612291-15) Soil Sampled: 12/12/06 10:15 Received: 12/13/06 19:00  Methyl tert-butyl ether ND 0.0050 mg/kg 1 6120210 12/18/06 12/19/06 GCMS \8260B Methyl tert-butyl ether ND 0.0050 " " " " " " " " " " " " " " " " " "	
Methyl tert-butyl ether         ND         0.0050         "	
Di-isopropyl ether	
Ethyl tert-butyl ether	
Tert-amyl methyl ether         ND         0.0050         "	
1,2-Dichloroethane       ND       0.0050       "<	
1,2-Dibromoethane (EDB)	
Benzene         ND         0.0050         "         <	
Ethylbenzene         ND         0.0050         "	
Toluene         ND         0.0050         "	
ND	
Gasoline Range Organics (C4-C12)         ND         1.0         "	
Surrogate: 1,2-DCA-d4         111 % 60-140         " " " " " " " " "           Surrogate: Toluene-d8         102 % 60-140         60-140         " " " " " " " " "           Surrogate: 4-BFB         106 % 60-140         " " " " " " " " " "           B-17-25 (S612291-16) Soil         Sampled: 12/12/06 10:20         Received: 12/13/06 19:00           Tert-butyl alcohol         ND         0.050 mg/kg         1 6120210         12/18/06         12/19/06         GCMS \ 8260B           Methyl tert-butyl ether         ND         0.0050 " " " " " " " " " " " "         " " " " " " "           Di-isopropyl ether         ND         0.0050 " " " " " " " " " " " " " "           Ethyl tert-butyl ether         ND         0.0050 " " " " " " " " " " " " " " "           Tert-amyl methyl ether         ND         0.0050 " " " " " " " " " " " " " " " " " "	
Surrogate: Toluene-d8         102 % 60-140         " " " " " "           Surrogate: 4-BFB         106 % 60-140         " " " " " "         " " " "           B-17-25 (S612291-16) Soil         Sampled: 12/12/06 10:20         Received: 12/13/06 19:00           Tert-butyl alcohol         ND         0.050 mg/kg         1 6120210         12/18/06         12/19/06         GCMS \ 8260B           Methyl tert-butyl ether         ND         0.0050 " " " " " " " " " "         " " " " " "         " " " " " "           Di-isopropyl ether         ND         0.0050 " " " " " " " " " " " " "         " " " " " " " " "           Ethyl tert-butyl ether         ND         0.0050 " " " " " " " " " " " " " " "           Tert-amyl methyl ether         ND         0.0050 " " " " " " " " " " " " " " " "           1,2-Dichloroethane         ND         0.0050 " " " " " " " " " " " " " " " " "           1,2-Dibromoethane (EDB)         ND         0.0050 " " " " " " " " " " " " " " " " " "	
Surrogate: 4-BFB         106 %         60-140         " <td></td>	
B-17-25 (S612291-16) Soil         Sampled: 12/12/06 10:20         Received: 12/13/06 19:00           Tert-butyl alcohol         ND         0.050 mg/kg         1 6120210 12/18/06 12/19/06 GCMS \ 8260B           Methyl tert-butyl ether         ND         0.0050 " " " " " " " " " " " " " " " " " "	
Tert-butyl alcohol ND 0.050 mg/kg 1 6120210 12/18/06 12/19/06 GCMS \ 8260B Methyl tert-butyl ether ND 0.0050 " " " " " " " " " " " " " " " " " "	
Methyl tert-butyl ether         ND         0.0050         "	
Di-isopropyl ether         ND         0.010         "	
Ethyl tert-butyl ether ND 0.0050 " " " " " " " " " " " " " " " " " "	
Tert-amyl methyl ether         ND         0.0050         "	
1,2-Dichloroethane       ND       0.0050       " </td <td></td>	
1,2-Dibromoethane (EDB) ND 0.0050 " " " " " " "	
Pangana ND 0.0050 " " " " " " "	
Delizere ND 0.0030	
Ethylbenzene ND 0.0050 " " " " " " "	
Toluene ND 0.0050 " " " " " " "	
Xylenes (total) ND 0.010 " " " " " " "	
Gasoline Range Organics (C4-C12) ND 1.0 " " " " " "	
Surrogate: 1,2-DCA-d4 112 % 60-140 " " " "	
Surrogate: Toluene-d8 102 % 60-140 " " " "	
Surrogate: 4-BFB 109 % 60-140 " " " "	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-17-W (S612291-17) Water	Sampled: 12/12/06 10:30	Received:	12/13/06 1	19:00					
Tert-butyl alcohol	ND	5.0	ug/l	1	6120212	12/18/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	9.1	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	130	0.50	"	"	"	"	"	"	
Ethylbenzene	86	0.50	"	"	"	"	"	"	
Toluene	3.2	0.50	"	"	"	"	"	"	
Xylenes (total)	74	1.0	"	"	"	"	"	"	
<b>Gasoline Range Organics (C4-</b>	C12) 930	50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		109 %	60-1	40	"	"	"	"	
Surrogate: Toluene-d8		101 %	60-1	40	"	"	"	"	
Surrogate: 4-BFB		110 %	60-1	40	"	"	"	"	
B-18-5 (S612291-18) Soil San	mpled: 12/12/06 10:40 Re	ceived: 12/1	13/06 19:00	0					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120210	12/18/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4-C	12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		120 %	60-1	40	"	"	"	"	
Surrogate: Toluene-d8		92 %	60-1	40	"	"	"	"	
Surrogate: 4-BFB		113 %	60-1	40	"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-18-10 (S612291-19) Soil	Sampled: 12/12/06 10:45	Received: 12	/13/06 19:0	00					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120211	12/19/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (Co	4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		103 %	60-14	40	"	"	"	"	
Surrogate: Toluene-d8		104 %	60-14	40	"	"	"	"	
Surrogate: 4-BFB		106 %	60-14	40	"	"	"	"	
B-18-15 (S612291-20) Soil	Sampled: 12/12/06 10:50	Received: 12	/13/06 19:0	00					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120211	12/19/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	n .	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	n .	
Benzene	ND	0.0050	"	"	"	"	"	n .	
Ethylbenzene	ND	0.0050	"	"	"	"	"	n .	
Toluene	ND	0.0050	"	"	"	"	"	n .	
Xylenes (total)	ND	0.010	"	"	"	"	"	n n	
Gasoline Range Organics (Co	4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		104 %	60-14	40	"	"	"	"	
Surrogate: Toluene-d8		105 %	60-14	40	"	"	"	"	
Surrogate: 4-BFB		106 %	60-14	40	"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-18-20 (S612291-21) Soil	Sampled: 12/12/06 10:55	Received: 12	/13/06 19:0	00					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120211	12/19/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (Co	4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		104 %	60-14	40	"	"	"	"	
Surrogate: Toluene-d8		105 %	60-14	40	"	"	"	"	
Surrogate: 4-BFB		104 %	60-14	40	"	"	"	"	
B-18-25 (S612291-22) Soil	Sampled: 12/12/06 11:00	Received: 12	/13/06 19:0	00					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120211	12/19/06	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (Co	4-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		105 %	60-14	40	"	"	"	"	
Surrogate: Toluene-d8		107 %	60-14	40	"	"	"	"	
Surrogate: 4-BFB		107 %	60-14	40	"	"	"	n .	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B-18-W (S612291-23) Water S	ampled: 12/12/06 11:10	Received:	12/13/06	19:00					
Tert-butyl alcohol	ND	5.0	ug/l	1	6120212	12/18/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	3.0	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Benzene	7.7	0.50	"	"	"	"	"	"	
Ethylbenzene	1.2	0.50	"	"	"	"	"	"	
Toluene	0.54	0.50	"	"	"	"	"	"	
Xylenes (total)	7.9	1.0	"	"	"	"	"	"	
<b>Gasoline Range Organics (C4-C</b>	320	50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		112 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		102 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		114 %	60-	140	"	"	"	"	
B-19-5 (S612291-24) Soil Samp	pled: 12/12/06 12:30 Re	ceived: 12/	13/06 19:0	00					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120211	12/19/06	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12	2) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		104 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		107 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		108 %	60-	140	"	"	"	"	



					,				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B-19-10 (S612291-25) Soil	Sampled: 12/12/06 12:35	Received: 12	2/13/06 19:	:00					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120211	12/19/06	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4	-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		105 %	60-1	140	"	"	"	"	
Surrogate: Toluene-d8		106 %	60-1	140	"	"	"	"	
Surrogate: 4-BFB		106 %	60-1	140	"	"	"	"	
B-19-15 (S612291-26) Soil	Sampled: 12/12/06 12:40	Received: 12	/13/06 19:	:00					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120211	12/19/06	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	0.028	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	m .	
Gasoline Range Organics (C4	-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		104 %	60-1	140	"	"	"	"	
Surrogate: Toluene-d8		103 %	60-1	140	"	"	"	"	
Surrogate: 4-BFB		104 %	60-1	140	"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-19-20 (S612291-27) Soil	Sampled: 12/12/06 12:45	Received: 12	/13/06 19:	:00					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120211	12/19/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4-	-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		102 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		100 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		104 %	60-	140	"	"	"	"	
B-19-25 (S612291-28) Soil	Sampled: 12/12/06 12:50	Received: 12	/13/06 19	:00					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120211	12/19/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4-	-C12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		98 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		105 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		103 %	60-	140	"	"	"	"	



### Gasoline\BTEX\Oxygenates by GCMS\8260B TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B-19-W (S612291-29) Water Sam	npled: 12/12/06 13:00	Received:	12/13/06 19	:00					
Tert-butyl alcohol	ND	5.0	ug/l	1	6120212	12/18/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
1,2-Dichloroethane	23	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	110	0.50	"	"	"	"	"	"	
Toluene	1.9	0.50	"	"	"	"	"	"	
Xylenes (total)	6.0	1.0	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	1600	50	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		113 %	60-140	)	"	"	"	"	
Surrogate: Toluene-d8		99 %	60-140	)	"	"	"	"	
Surrogate: 4-BFB		110 %	60-140	)	"	"	"	"	
B-19-W (S612291-29RE1) Water	Sampled: 12/12/06 13	3:00 Recei	ved: 12/13/0	6 19:00	)				
Benzene	320	5.0	ug/l	10	6120213	12/18/06	12/19/06	GCMS \ 8260B	
Surrogate: 1,2-DCA-d4		113 %	60-140	)	"	"	"	"	
Surrogate: Toluene-d8		97 %	60-140	)	"	"	"	"	
Surrogate: 4-BFB		110 %	60-140	)	"	"	"	"	
B-23-5 (S612291-30) Soil Sample	d: 12/12/06 13:35 Re	ceived: 12/1	13/06 19:00						
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120211	12/19/06	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	n .	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
	112								
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB) Benzene		0.0050 0.0050	"	"	"	"	"	"	
Benzene Ethylbenzene	ND ND ND	0.0050 0.0050						" "	
Benzene	ND ND ND ND	0.0050	"	"	"	"	"	" " " " " " " " " " " " " " " " " " " "	
Benzene Ethylbenzene Toluene Xylenes (total)	ND ND ND ND ND	0.0050 0.0050 0.0050 0.010	" " "	"	" " "	" " "	" " "	" " " "	
Benzene Ethylbenzene Toluene	ND ND ND ND	0.0050 0.0050 0.0050 0.010 1.0	"	"	" "	"	"	" " " " " " " " " " " " " " " " " " " "	
Benzene Ethylbenzene Toluene Xylenes (total)	ND ND ND ND ND	0.0050 0.0050 0.0050 0.010	" " "	" " "	" " "	" " "	" " "		
Benzene Ethylbenzene Toluene Xylenes (total) Gasoline Range Organics (C4-C12)	ND ND ND ND ND	0.0050 0.0050 0.0050 0.010 1.0	11 11 11	" " "	" " "	" " " " " " " " " " " " " " " " " " " "	" " " " " " " " " " " " " " " " " " " "	"	

TestAmerica - Sacramento, CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.



		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B-23-10 (S612291-31) Soil Sa	mpled: 12/12/06 13:40	Received: 12	/13/06 19:	00					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120211	12/19/06	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4-C	12) ND	1.0	"	"	"	"	"	II .	
Surrogate: 1,2-DCA-d4		107 %	60-1	140	"	"	"	"	
Surrogate: Toluene-d8		106 %	60-1	140	"	"	"	"	
Surrogate: 4-BFB		111 %	60-1	140	"	"	"	"	
B-23-15 (S612291-32) Soil Sa	mpled: 12/12/06 13:45	Received: 12	/13/06 19:	00					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120211	12/19/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4-C	12) ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		100 %	60-1	140	"	"	"	"	
Surrogate: Toluene-d8		103 %	60-1	140	"	"	"	"	
Surrogate: 4-BFB		103 %	60-1	140	"	"	"	"	



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-23-20 (S612291-33) Soil	Sampled: 12/12/06 13:50	Received: 12	/13/06 19	:00					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120211	12/19/06	12/19/06	GCMS \ 8260B	_
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.010	0.0050	"	"	"	"	"	"	
Toluene	0.0053	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.075	0.010	"	"	"	"	"	"	
<b>Gasoline Range Organics (</b>	C4-C12) 1.7	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		102 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		102 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		105 %	60-	140	"	"	"	"	
B-23-25 (S612291-34) Soil	Sampled: 12/12/06 13:55	Received: 12	/13/06 19	:00					
Tert-butyl alcohol	ND	2.5	mg/kg	500	6120251	12/20/06 00:00	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.25	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.25	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.25	"	"	"	"	"	"	
Benzene	7.0	0.25	"	"	"	"	"	II .	
Ethylbenzene	60	0.25	"	"	"	"	"	m .	
Toluene	78	0.25	"	"	"	"	"	H .	
Surrogate: 1,2-DCA-d4		103 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		113 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		114 %	60-	140	"	"	"	"	



### Gasoline\BTEX\Oxygenates by GCMS\8260B TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
B-23-25 (S612291-34RE1) Soil Sample	d: 12/12/06 13:55	Received	d: 12/13/0	6 19:00					
Xylenes (total)	450	5.0	mg/kg	5000	6120251	12/20/06 00:00	12/22/06	GCMS \ 8260B	
Gasoline Range Organics (C4-C12)	4900	250	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		108 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		99 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		113 %	60-	140	"	"	"	"	
B-23-W (S612291-35) Water Sampled:	12/12/06 14:10	Received:	12/13/06	19:00					
Tert-butyl alcohol	ND	500	ug/l	100	6120212	12/18/06	12/19/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	200	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	200	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	200	"	"	"	"	"	"	
1,2-Dichloroethane	410	50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	50	"	"	"	"	"	"	
Benzene	10000	50	"	"	"	"	"	"	
Ethylbenzene	3300	50	"	"	"	"	"	"	
Toluene	15000	50	"	"	"	"	"	"	
Xylenes (total)	18000	100	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	160000	5000	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		110 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		97 %	60-	140	"	"	"	"	
Surrogate: 4-BFB		110 %	60-	140	"	"	"	"	
B-15-15 (S612291-36) Soil Sampled: 12	2/12/06 09:15 Red	ceived: 12	/13/06 19	:00					
Tert-butyl alcohol	ND	0.050	mg/kg	1	6120211	12/20/06	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.0050	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.010	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.0050	"	"	"	"	"	n .	
Tert-amyl methyl ether	ND	0.0050	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0050	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0050	"	"	"	"	"	"	
Benzene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Organics (C4-C12)	ND	1.0	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		104 %	60-	140	"	"	"	"	
Surrogate: Toluene-d8		102 %	60-	1.40	,,	,,	"	"	

TestAmerica - Sacramento, CA

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*GCMS* \ 8260B

6120211 12/20/06 12/20/06



Surrogate: 4-BFB

Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122915900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel01/02/07 16:52

### Gasoline\BTEX\Oxygenates by GCMS\8260B

#### TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-15-15 (S612291-36) Soil	Sampled: 12/12/06 09:15	Received: 12/	/13/06 19	0:00					

60-140

104 %

TestAmerica - Sacramento, CA



### Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (6120210-BLK1)				Prepared & Ana	alyzed: 12/18/	06	
Ethanol	ND	0.20	mg/kg				
Tert-butyl alcohol	ND	0.050	"				
Methyl tert-butyl ether	ND	0.0050	"				
Di-isopropyl ether	ND	0.010	"				
Ethyl tert-butyl ether	ND	0.0050	"				
Tert-amyl methyl ether	ND	0.0050	"				
1,2-Dichloroethane	ND	0.0050	"				
1,2-Dibromoethane (EDB)	ND	0.0050	"				
Benzene	ND	0.0050	"				
Ethylbenzene	ND	0.0050	"				
Toluene	ND	0.0050	"				
Xylenes (total)	ND	0.010	"				
Gasoline Range Organics (C4-C12)	ND	1.0	"				
Surrogate: 1,2-DCA-d4	0.0504		"	0.0500	101	60-140	
Surrogate: Toluene-d8	0.0518		"	0.0500	104	60-140	
Surrogate: 4-BFB	0.0519		"	0.0500	104	60-140	
Blank (6120210-BLK2)				Prepared & Ana	alyzed: 12/19/	06	
Ethanol	ND	0.20	mg/kg				
Tert-butyl alcohol	ND	0.050	"				
Methyl tert-butyl ether	ND	0.0050	"				
Di-isopropyl ether	ND	0.010	"				
Ethyl tert-butyl ether	ND	0.0050	"				
Tert-amyl methyl ether	ND	0.0050	"				
1,2-Dichloroethane	ND	0.0050	"				
1,2-Dibromoethane (EDB)	ND	0.0050	"				
Benzene	ND	0.0050	"				
Ethylbenzene	ND	0.0050	"				
Toluene	ND	0.0050	"				
Xylenes (total)	ND	0.010	"				
Gasoline Range Organics (C4-C12)	ND	1.0	"				
Surrogate: 1,2-DCA-d4	0.0508		"	0.0500	102	60-140	
Surrogate: Toluene-d8	0.0515		"	0.0500	103	60-140	
Surrogate: 4-BFB	0.0517		"	0.0500	103	60-140	

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RPD



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122915900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel01/02/07 16:52

## Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

Reporting

Spike

Source

%REC

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6120210 - EPA 5030B [P/T	] / GCMS \ 8260	В								
Laboratory Control Sample (6120210	<b>)-BS1</b> )			Prepared &	& Analyz	ed: 12/18/	06			
Methyl tert-butyl ether	0.0765	0.0050	mg/kg	0.104		74	60-140			
Toluene	0.387	0.0050	"	0.376		103	70-130			
Gasoline Range Organics (C4-C12)	4.73	1.0	"	4.40		108	70-130			
Surrogate: 1,2-DCA-d4	0.0484		"	0.0500		97	60-140			
Surrogate: Toluene-d8	0.0506		"	0.0500		101	60-140			
Surrogate: 4-BFB	0.0505		"	0.0500		101	60-140			
Laboratory Control Sample (6120210	<b>)-BS2</b> )			Prepared &	& Analyz	ed: 12/18/	06			
Benzene	0.0404	0.0050	mg/kg	0.0400		101	70-130			
Surrogate: 1,2-DCA-d4	0.0515		"	0.0500		103	60-140			
Surrogate: Toluene-d8	0.0498		"	0.0500		100	60-140			
Surrogate: 4-BFB	0.0519		"	0.0500		104	60-140			
<b>Laboratory Control Sample (612021)</b>	<b>)-BS3</b> )			Prepared &	& Analyz	ed: 12/19/	06			
Methyl tert-butyl ether	0.0686	0.0050	mg/kg	0.104		66	60-140			
Toluene	0.363	0.0050	"	0.376		97	70-130			
Gasoline Range Organics (C4-C12)	4.40	1.0	"	4.40		100	70-130			
Surrogate: 1,2-DCA-d4	0.0483		"	0.0500		97	60-140			
Surrogate: Toluene-d8	0.0502		"	0.0500		100	60-140			
Surrogate: 4-BFB	0.0510		"	0.0500		102	60-140			
Laboratory Control Sample (6120210	<b>)-BS4</b> )			Prepared &	& Analyz	ed: 12/19/	06			
Benzene	0.0431	0.0050	mg/kg	0.0400		108	70-130			
Surrogate: 1,2-DCA-d4	0.0517		"	0.0500		103	60-140			
Surrogate: Toluene-d8	0.0487		"	0.0500		97	60-140			
Surrogate: 4-BFB	0.0495		"	0.0500		99	60-140			
Matrix Spike (6120210-MS1)	Source: S6	12291-07		Prepared &	& Analyz	ed: 12/19/	06			
Methyl tert-butyl ether	0.0795	0.0050	mg/kg	0.104	ND	76	60-140			
Benzene	0.0508	0.0050	"	0.0776	ND	65	60-140			
Toluene	0.406	0.0050	"	0.376	ND	108	60-140			
Gasoline Range Organics (C4-C12)	3.99	1.0	"	4.40	ND	91	60-140			
Surrogate: 1,2-DCA-d4	0.0513		"	0.0500		103	60-140			
Surrogate: Toluene-d8	0.0516		"	0.0500		103	60-140			
Surrogate: 4-BFB	0.0559		"	0.0500		112	60-140			



# Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6120210 - EPA 5030B [P/T] /	GCMS \ 8260	В								
Matrix Spike Dup (6120210-MSD1)	Source: S6	12291-07		Prepared &	& Analyze	ed: 12/19/	06			
Methyl tert-butyl ether	0.0771	0.0050	mg/kg	0.104	ND	74	60-140	3	25	
Benzene	0.0503	0.0050	"	0.0776	ND	65	60-140	1	25	
Toluene	0.437	0.0050	"	0.376	ND	116	60-140	7	25	
Gasoline Range Organics (C4-C12)	4.12	1.0	"	4.40	ND	94	60-140	3	25	
Surrogate: 1,2-DCA-d4	0.0504		"	0.0500		101	60-140			
Surrogate: Toluene-d8	0.0530		"	0.0500		106	60-140			
Surrogate: 4-BFB	0.0569		"	0.0500		114	60-140			
Batch 6120211 - EPA 5030B [P/T] /	GCMS \ 8260	В								
Blank (6120211-BLK1)				Prepared &	& Analyz	ed: 12/19/	06			
Tert-butyl alcohol	ND	0.050	mg/kg							
Methyl tert-butyl ether	ND	0.0050	"							
Di-isopropyl ether	ND	0.010	"							
Ethyl tert-butyl ether	ND	0.0050	"							
Tert-amyl methyl ether	ND	0.0050	"							
1,2-Dichloroethane	ND	0.0050	"							
1,2-Dibromoethane (EDB)	ND	0.0050	"							
Benzene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Toluene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Organics (C4-C12)	ND	1.0	"							
Surrogate: 1,2-DCA-d4	0.0508		"	0.0500		102	60-140			
Surrogate: Toluene-d8	0.0515		"	0.0500		103	60-140			

0.0500

0.0517

Surrogate: 4-BFB

103

60-140



Batch 6120211 - EPA 5030B [P/T] / GCMS \ 8260B

Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122915900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel01/02/07 16:52

## Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	ı

Blank (6120211-BLK2)				Prepared & An	alyzed: 12/20/	06	
Ethanol	ND	0.20	mg/kg				
Tert-butyl alcohol	ND	0.050	"				
Methyl tert-butyl ether	ND	0.0050	"				
Di-isopropyl ether	ND	0.010	"				
Ethyl tert-butyl ether	ND	0.0050	"				
Tert-amyl methyl ether	ND	0.0050	"				
1,2-Dichloroethane	ND	0.0050	"				
1,2-Dibromoethane (EDB)	ND	0.0050	"				
Benzene	ND	0.0050	"				
Ethylbenzene	ND	0.0050	"				
Toluene	ND	0.0050	"				
Xylenes (total)	ND	0.010	"				
Gasoline Range Organics (C4-C12)	ND	1.0	"				
Surrogate: 1,2-DCA-d4	0.0484		"	0.0500	97	60-140	
Surrogate: Toluene-d8	0.0511		"	0.0500	102	60-140	
Surrogate: 4-BFB	0.0514		"	0.0500	103	60-140	
Laboratory Control Sample (6120211-	·BS1)			Prepared & An	alyzed: 12/19/	06	
Methyl tert-butyl ether	0.0686	0.0050	mg/kg	0.104	66	60-140	
Toluene	0.363	0.0050	"	0.376	97	70-130	
Gasoline Range Organics (C4-C12)	4.40	1.0	"	4.40	100	70-130	
Surrogate: 1,2-DCA-d4	0.0483		"	0.0500	97	60-140	
Surrogate: Toluene-d8	0.0502		"	0.0500	100	60-140	
Surrogate: 4-BFB	0.0510		"	0.0500	102	60-140	
Laboratory Control Sample (6120211-	-BS2)			Prepared & An	alyzed: 12/19/	06	
Benzene	0.0431	0.0050	mg/kg	0.0400	108	70-130	

0.0517

0.0487

0.0495

Surrogate: 1,2-DCA-d4

Surrogate: Toluene-d8

Surrogate: 4-BFB

60-140

60-140

60-140

103

97

99

0.0500

0.0500

0.0500

RPD



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122915900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel01/02/07 16:52

## Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

Reporting

Spike

Source

%REC

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6120211 - EPA 5030B [P/T] /	GCMS \ 8260	В								
Laboratory Control Sample (6120211-B	S3)			Prepared &	& Analyz	ed: 12/20/	06			
Methyl tert-butyl ether	0.0651	0.0050	mg/kg	0.104		63	60-140			
Toluene	0.358	0.0050	"	0.376		95	70-130			
Gasoline Range Organics (C4-C12)	4.27	1.0	"	4.40		97	70-130			
Surrogate: 1,2-DCA-d4	0.0494		"	0.0500		99	60-140			
Surrogate: Toluene-d8	0.0502		"	0.0500		100	60-140			
Surrogate: 4-BFB	0.0505		"	0.0500		101	60-140			
Laboratory Control Sample (6120211-B	SS4)			Prepared &	& Analyz	ed: 12/20/	06			
Benzene	0.0397	0.0050	mg/kg	0.0400		99	70-130			
Surrogate: 1,2-DCA-d4	0.0516		"	0.0500		103	60-140			
Surrogate: Toluene-d8	0.0495		"	0.0500		99	60-140			
Surrogate: 4-BFB	0.0506		"	0.0500		101	60-140			
Matrix Spike (6120211-MS1)	Source: S6	12291-36		Prepared &	& Analyz	ed: 12/20/	06			
Methyl tert-butyl ether	0.0749	0.0050	mg/kg	0.104	ND	72	60-140			
Benzene	0.0511	0.0050	"	0.0776	ND	66	60-140			
Toluene	0.405	0.0050	"	0.376	ND	108	60-140			
Gasoline Range Organics (C4-C12)	4.58	1.0	"	4.40	ND	104	60-140			
Surrogate: 1,2-DCA-d4	0.0492		"	0.0500		98	60-140			
Surrogate: Toluene-d8	0.0497		"	0.0500		99	60-140			
Surrogate: 4-BFB	0.0511		"	0.0500		102	60-140			
Matrix Spike Dup (6120211-MSD1)	Source: S6	12291-36		Prepared &	& Analyz	ed: 12/20/	06			
Methyl tert-butyl ether	0.0754	0.0050	mg/kg	0.104	ND	72	60-140	0.7	25	
Benzene	0.0496	0.0050	"	0.0776	ND	64	60-140	3	25	
Toluene	0.386	0.0050	"	0.376	ND	103	60-140	5	25	
Gasoline Range Organics (C4-C12)	4.21	1.0	"	4.40	ND	96	60-140	8	25	
Surrogate: 1,2-DCA-d4	0.0494		"	0.0500		99	60-140			
Surrogate: Toluene-d8	0.0498		"	0.0500		100	60-140			
Surrogate: 4-BFB	0.0503		"	0.0500		101	60-140			



## Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	ı

Batch 6120212 - EPA 5030B [P/T]	/ GCMS \ 8260B						
Blank (6120212-BLK1)				Prepared & An	nalyzed: 12/18/	/06	
Ethanol	ND	50	ug/l				
Tert-butyl alcohol	ND	5.0	"				
Methyl tert-butyl ether	ND	0.50	"				
Di-isopropyl ether	ND	2.0	"				
Ethyl tert-butyl ether	ND	2.0	"				
Tert-amyl methyl ether	ND	2.0	"				
1,2-Dichloroethane	ND	0.50	"				
1,2-Dibromoethane (EDB)	ND	0.50	"				
Benzene	ND	0.50	"				
Ethylbenzene	ND	0.50	"				
Toluene	ND	0.50	"				
Xylenes (total)	ND	1.0	"				
Gasoline Range Organics (C4-C12)	ND	50	"				
Surrogate: 1,2-DCA-d4	11.7		"	10.0	117	60-140	
Surrogate: Toluene-d8	10.5		"	10.0	105	60-140	
Surrogate: 4-BFB	10.9		"	10.0	109	60-140	
Blank (6120212-BLK2)				Prepared & An	nalyzed: 12/19/	/06	
Ethanol	ND	50	ug/l				
Tert-butyl alcohol	ND	5.0	"				
Methyl tert-butyl ether	ND	0.50	"				
Di-isopropyl ether	ND	2.0	"				
Ethyl tert-butyl ether	ND	2.0	"				
Tert-amyl methyl ether	ND	2.0	"				
1,2-Dichloroethane	ND	0.50	"				
1,2-Dibromoethane (EDB)	ND	0.50	"				
Benzene	ND	0.50	"				
Ethylbenzene	ND	0.50	"				
Toluene	ND	0.50	"				
Xylenes (total)	ND	1.0	"				
Gasoline Range Organics (C4-C12)	ND	50	"				
Surrogate: 1,2-DCA-d4	11.1		"	10.0	111	60-140	
Surrogate: Toluene-d8	9.63		"	10.0	96	60-140	
Surrogate: 4-BFB	11.4		"	10.0	114	60-140	

TestAmerica - Sacramento, CA

The results in this report apply to the samples analyzed in accordance with the chain of custody document. Unless otherwise stated, results are reported on a wet weight basis. This analytical report must be reproduced in its entirety.

RPD



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122915900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel01/02/07 16:52

## Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

Reporting

Spike

Source

%REC

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6120212 - EPA 5030B [P/T]	GCMS \ 8260I	3								
Laboratory Control Sample (6120212-l	BS1)			Prepared	& Analyz	ed: 12/18/	06			
Methyl tert-butyl ether	39.2	0.50	ug/l	52.0		75	60-140			
Toluene	145	0.50	"	188		77	70-130			
Gasoline Range Organics (C4-C12)	2350	50	"	2200		107	70-130			
Surrogate: 1,2-DCA-d4	11.6		"	10.0		116	60-140			
Surrogate: Toluene-d8	9.51		"	10.0		95	60-140			
Surrogate: 4-BFB	11.6		"	10.0		116	60-140			
Laboratory Control Sample (6120212-l	BS2)			Prepared	& Analyz	ed: 12/18/	06			
Methyl tert-butyl ether	21.3	0.50	ug/l	20.0	-	106	60-140			
Benzene	19.4	0.50	"	20.0		97	70-130			
Toluene	18.1	0.50	"	20.0		90	70-130			
Surrogate: 1,2-DCA-d4	12.0		"	10.0		120	60-140			
Surrogate: Toluene-d8	9.54		"	10.0		95	60-140			
Surrogate: 4-BFB	10.8		"	10.0		108	60-140			
Laboratory Control Sample (6120212-l	BS3)			Prepared	& Analyz	ed: 12/19/	06			
Methyl tert-butyl ether	37.6	0.50	ug/l	52.0		72	60-140			
Toluene	146	0.50	"	188		78	70-130			
Gasoline Range Organics (C4-C12)	2250	50	"	2200		102	70-130			
Surrogate: 1,2-DCA-d4	10.8		"	10.0		108	60-140			
Surrogate: Toluene-d8	10.0		"	10.0		100	60-140			
Surrogate: 4-BFB	11.0		"	10.0		110	60-140			
Laboratory Control Sample (6120212-l	BS4)			Prepared	& Analyz	ed: 12/19/	06			
Methyl tert-butyl ether	20.9	0.50	ug/l	20.0		104	60-140			
Benzene	19.7	0.50	"	20.0		98	70-130			
Toluene	18.7	0.50	"	20.0		94	70-130			
Surrogate: 1,2-DCA-d4	11.3		"	10.0		113	60-140			
Surrogate: Toluene-d8	9.83		"	10.0		98	60-140			
Surrogate: 4-BFB	11.2		"	10.0		112	60-140			



## Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6120212 - EPA 5030B [P/T] /	GCMS \ 8260	В								
Matrix Spike (6120212-MS1)	Source: S6			Prepared	& Analyz	ed: 12/19/	06			
Methyl tert-butyl ether	39.2	0.50	ug/l	52.0	3.89	68	60-140			
Benzene	23.0	0.50	"	38.8	ND	59	70-130			M
Toluene	143	0.50	"	188	ND	76	70-130			
Gasoline Range Organics (C4-C12)	2290	50	"	2200	43.5	102	60-140			
Surrogate: 1,2-DCA-d4	11.8		"	10.0		118	60-140			
Surrogate: Toluene-d8	9.87		"	10.0		99	60-140			
Surrogate: 4-BFB	10.7		"	10.0		107	60-140			
Matrix Spike Dup (6120212-MSD1)	Source: S6	12233-08		Prepared	& Analyz	ed: 12/19/	06			
Methyl tert-butyl ether	39.1	0.50	ug/l	52.0	3.89	68	60-140	0.3	25	
Benzene	23.4	0.50	"	38.8	ND	60	70-130	2	25	M
Toluene	151	0.50	"	188	ND	80	70-130	5	25	
Gasoline Range Organics (C4-C12)	2390	50	"	2200	43.5	107	60-140	4	25	
Surrogate: 1,2-DCA-d4	11.2		"	10.0		112	60-140			
Surrogate: Toluene-d8	10.2		"	10.0		102	60-140			
Surrogate: 4-BFB	11.6		"	10.0		116	60-140			
Batch 6120213 - EPA 5030B [P/T] /	GCMS \ 8260	В								
Blank (6120213-BLK1)				Prepared:	12/18/06	Analyzed	l: 12/19/06			
Ethanol	ND	50	ug/l							
Tert-butyl alcohol	ND	5.0	"							
Methyl tert-butyl ether	ND	0.50	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Tert-amyl methyl ether	ND	2.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.50	"							
Benzene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Toluene	ND	0.50	"							
Xylenes (total)	ND	1.0	"							
Gasoline Range Organics (C4-C12)	ND	50	"							
Surrogate: 1,2-DCA-d4	11.0		"	10.0		110	60-140			
Surrogate: Toluene-d8	10.1		"	10.0		101	60-140			
Surrogate: 4-BFB	10.6		"	10.0		106	60-140			

TestAmerica - Sacramento, CA

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## Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

		Reporting		Spike	Source		%REC		RPD		l
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	ı

Batch 6120213 - EPA 5030B [P/T]	/ GCMS \ 8260B					
Blank (6120213-BLK2)				Prepared & Ar	nalyzed: 12/19/	06
Ethanol	ND	50	ug/l			
Tert-butyl alcohol	ND	5.0	"			
Methyl tert-butyl ether	ND	0.50	"			
Di-isopropyl ether	ND	2.0	"			
Ethyl tert-butyl ether	ND	2.0	"			
Tert-amyl methyl ether	ND	2.0	"			
1,2-Dichloroethane	ND	0.50	"			
1,2-Dibromoethane (EDB)	ND	0.50	"			
Benzene	ND	0.50	"			
Ethylbenzene	ND	0.50	"			
Toluene	ND	0.50	"			
Xylenes (total)	ND	1.0	"			
Gasoline Range Organics (C4-C12)	ND	50	"			
Surrogate: 1,2-DCA-d4	11.1		"	10.0	111	60-140
Surrogate: Toluene-d8	9.63		"	10.0	96	60-140
Surrogate: 4-BFB	11.4		"	10.0	114	60-140
<b>Laboratory Control Sample (6120213-</b>	·BS1)			Prepared: 12/1	8/06 Analyzed	1: 12/19/06
Methyl tert-butyl ether	33.4	0.50	ug/l	52.0	64	60-140
Toluene	145	0.50	"	188	77	70-130
Gasoline Range Organics (C4-C12)	2150	50	"	2200	98	70-130
Surrogate: 1,2-DCA-d4	10.3		"	10.0	103	60-140
Surrogate: Toluene-d8	10.2		"	10.0	102	60-140
Surrogate: 4-BFB	11.2		"	10.0	112	60-140
Laboratory Control Sample (6120213-	·BS2)			Prepared: 12/1	8/06 Analyzed	1: 12/19/06
Methyl tert-butyl ether	18.2	0.50	ug/l	20.0	91	60-140
Benzene	17.7	0.50	"	20.0	88	70-130
Toluene	18.2	0.50	"	20.0	91	70-130
Surrogate: 1,2-DCA-d4	11.0		"	10.0	110	60-140
Surrogate: Toluene-d8	10.1		"	10.0	101	60-140
Surrogate: 4-BFB	10.7		"	10.0	107	60-140

RPD



Cambria Env - 5900 Hollis, Emeryville (Shell)Project: 461 8th St, OaklandS6122915900 Hollis St., Ste. AProject Number: 97093399Reported:Emeryville CA, 94608Project Manager: Ana Friel01/02/07 16:52

## Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

Reporting

Spike

Source

%REC

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6120213 - EPA 5030B [P/T] /	GCMS \ 8260I	3								
Laboratory Control Sample (6120213-B	S3)			Prepared	& Analyze	ed: 12/19/	06			
Methyl tert-butyl ether	37.6	0.50	ug/l	52.0	-	72	60-140			
Toluene	146	0.50	"	188		78	70-130			
Gasoline Range Organics (C4-C12)	2250	50	"	2200		102	70-130			
Surrogate: 1,2-DCA-d4	10.8		"	10.0		108	60-140			
Surrogate: Toluene-d8	10.0		"	10.0		100	60-140			
Surrogate: 4-BFB	11.0		"	10.0		110	60-140			
<b>Laboratory Control Sample (6120213-B</b>	S4)			Prepared	& Analyze	ed: 12/19/	06			
Methyl tert-butyl ether	20.9	0.50	ug/l	20.0	-	104	60-140			
Benzene	19.7	0.50	"	20.0		98	70-130			
Toluene	18.7	0.50	"	20.0		94	70-130			
Surrogate: 1,2-DCA-d4	11.3		"	10.0		113	60-140			
Surrogate: Toluene-d8	9.83		"	10.0		98	60-140			
Surrogate: 4-BFB	11.2		"	10.0		112	60-140			
<b>Matrix Spike (6120213-MS1)</b>	Source: S61	12239-03		Prepared	& Analyze	ed: 12/19/	06			
Methyl tert-butyl ether	35.7	0.50	ug/l	52.0	ND	69	60-140			
Benzene	22.0	0.50	"	38.8	ND	57	70-130			M
Toluene	143	0.50	"	188	0.210	76	70-130			
Gasoline Range Organics (C4-C12)	2140	50	"	2200	29.7	96	60-140			
Surrogate: 1,2-DCA-d4	11.1		"	10.0		111	60-140			
Surrogate: Toluene-d8	9.93		"	10.0		99	60-140			
Surrogate: 4-BFB	10.8		"	10.0		108	60-140			
Matrix Spike Dup (6120213-MSD1)	Source: S61	12239-03		Prepared	& Analyze	ed: 12/19/	06			
Methyl tert-butyl ether	34.8	0.50	ug/l	52.0	ND	67	60-140	3	25	
Benzene	21.4	0.50	"	38.8	ND	55	70-130	3	25	M
Toluene	143	0.50	"	188	0.210	76	70-130	0	25	
Gasoline Range Organics (C4-C12)	2150	50	"	2200	29.7	96	60-140	0.5	25	
Surrogate: 1,2-DCA-d4	10.7		"	10.0		107	60-140			
Surrogate: Toluene-d8	10.2		"	10.0		102	60-140			
Surrogate: 4-BFB	11.1		"	10.0		111	60-140			



## Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

		Reporting		Spike	Source		%REC		RPD		İ
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	l

Batch 6120251 -	<b>EPA 5030B</b>	[MeOH] /	GCMS	\ 8260B

Blank (6120251-BLK1)				Prepared & Ana	alyzed: 12/20/	06	
Ethanol	ND	2.5	mg/kg	_			
Tert-butyl alcohol	ND	0.25	"				
Methyl tert-butyl ether	ND	0.025	"				
Di-isopropyl ether	ND	0.10	"				
Ethyl tert-butyl ether	ND	0.10	"				
Tert-amyl methyl ether	ND	0.10	"				
1,2-Dichloroethane	ND	0.025	"				
1,2-Dibromoethane (EDB)	ND	0.025	"				
Benzene	ND	0.025	"				
Ethylbenzene	ND	0.025	"				
Toluene	ND	0.025	"				
Xylenes (total)	ND	0.050	"				
Gasoline Range Organics (C4-C12)	ND	2.5	"				
Surrogate: 1,2-DCA-d4	0.0111		"	0.0100	111	60-140	
Surrogate: Toluene-d8	0.00960		"	0.0100	96	60-140	
Surrogate: 4-BFB	0.0113		"	0.0100	113	60-140	
Laboratory Control Sample (612025)	1-BS1)			Prepared & Ana	alyzed: 12/20/	06	
Methyl tert-butyl ether	0.0366	0.00050	mg/kg	0.0520	70	60-140	
Toluene	0.149	0.00050	"	0.188	79	70-130	
Gasoline Range Organics (C4-C12)	2.20	0.050	"	2.20	100	70-130	
Surrogate: 1,2-DCA-d4	0.0110		"	0.0100	110	60-140	
Surrogate: Toluene-d8	0.0101		"	0.0100	101	60-140	
Surrogate: 4-BFB	0.0109		"	0.0100	109	60-140	
Laboratory Control Sample (612025)	1-BS2)			Prepared & Ana	alyzed: 12/20/	06	
Methyl tert-butyl ether	0.0206	0.00050	mg/kg	0.0200	103	60-140	
Benzene	0.0192	0.00050	"	0.0200	96	70-130	
Toluene	0.0185	0.00050	"	0.0200	92	70-130	
Surrogate: 1,2-DCA-d4	0.0115		"	0.0100	115	60-140	
Surrogate: Toluene-d8	0.00976		"	0.0100	98	60-140	
Surrogate: 4-BFB	0.0110		"	0.0100	110	60-140	



# Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6120251 - EPA 5030B [Med	OH]/GCMS\8	260B								
Laboratory Control Sample Dup (612	20251-BSD1)			Prepared a	& Analyze	ed: 12/20/	06			
Methyl tert-butyl ether	0.0349	0.00050	mg/kg	0.0520		67	60-140	5	25	
Toluene	0.147	0.00050	"	0.188		78	70-130	1	25	
Gasoline Range Organics (C4-C12)	2.13	0.050	"	2.20		97	70-130	3	25	
Surrogate: 1,2-DCA-d4	0.0109		"	0.0100		109	60-140			
Surrogate: Toluene-d8	0.0101		"	0.0100		101	60-140			
Surrogate: 4-BFB	0.0110		"	0.0100		110	60-140			
<b>Laboratory Control Sample Dup (612</b>	20251-BSD2)			Prepared a	& Analyze	ed: 12/20/	06			
Methyl tert-butyl ether	0.0202	0.00050	mg/kg	0.0200		101	60-140	2	25	
Benzene	0.0196	0.00050	"	0.0200		98	70-130	2	25	
Toluene	0.0185	0.00050	"	0.0200		92	70-130	0	25	
Surrogate: 1,2-DCA-d4	0.0117		"	0.0100		117	60-140			
Surrogate: Toluene-d8	0.00995		"	0.0100		100	60-140			
Surrogate: 4-BFB	0.0106		"	0.0100		106	60-140			





#### **Notes and Definitions**

M8 The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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5 January, 2007

Ana Friel Cambria Env - 5900 Hollis, Emeryville (Shell) 5900 Hollis St., Ste. A Emeryville, CA 94608

RE: 461 8th St, Oakland Work Order: S612290

Enclosed are the results of analyses for samples received by the laboratory on 12/13/06 19:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Sylvia Krenn Project Manager

CA ELAP Certificate # 2630





#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-1	S612290-01	Soil	12/13/06 12:00	12/13/06 19:00



Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1 (S612290-01) Soil Sampled: 1	2/13/06 12:00 Reco	eived: 12/13	/06 19:00						
Tert-butyl alcohol	ND	0.25	mg/kg	50	6120251	12/20/06 00:00	12/20/06	GCMS \ 8260B	
Methyl tert-butyl ether	ND	0.025	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.10	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.10	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	0.10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.025	"	"	"	"	"	"	
Benzene	0.030	0.025	"	"	"	"	"	"	
Ethylbenzene	0.84	0.025	"	"	"	"	"	"	
Toluene	0.46	0.025	"	"	"	"	"	"	
Xylenes (total)	6.3	0.050	"	"	"	"	"	"	
<b>Gasoline Range Organics (C4-C12)</b>	96	2.5	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4		112 %	60-1	40	"	"	"	"	
Surrogate: Toluene-d8		100 %	60-1	40	"	"	"	"	
Surrogate: 4-BFB		105 %	60-1	40	"	"	"	"	





### Total Metals by EPA 6000/7000 Series Methods TestAmerica - Seattle, WA

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SP-1 (S612290-01) Soil	Sampled: 12/13/06 12:00 I	Received: 12/13/	06 19:00						
Lead	4.27	2.06 r	mg/kg wet	1	6L18048	12/18/06	12/20/06	EPA 6010B	



### Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	

Batch 6120251 - EPA 5030B [Me	OH] / GCMS \ 82	260B					
Blank (6120251-BLK1)				Prepared & Ana	alyzed: 12/20/	06	
Ethanol	ND	2.5	mg/kg				
Tert-butyl alcohol	ND	0.25	"				
Methyl tert-butyl ether	ND	0.025	"				
Di-isopropyl ether	ND	0.10	"				
Ethyl tert-butyl ether	ND	0.10	"				
Tert-amyl methyl ether	ND	0.10	"				
1,2-Dichloroethane	ND	0.025	"				
1,2-Dibromoethane (EDB)	ND	0.025	"				
Benzene	ND	0.025	"				
Ethylbenzene	ND	0.025	"				
Toluene	ND	0.025	"				
Xylenes (total)	ND	0.050	"				
Gasoline Range Organics (C4-C12)	ND	2.5	"				
Surrogate: 1,2-DCA-d4	0.0111		"	0.0100	111	60-140	
Surrogate: Toluene-d8	0.00960		"	0.0100	96	60-140	
Surrogate: 4-BFB	0.0113		"	0.0100	113	60-140	
Laboratory Control Sample (612025	1-BS1)			Prepared & Ana	alyzed: 12/20/	06	
Methyl tert-butyl ether	0.0366	0.00050	mg/kg	0.0520	70	60-140	
Toluene	0.149	0.00050	"	0.188	79	70-130	
Gasoline Range Organics (C4-C12)	2.20	0.050	"	2.20	100	70-130	
Surrogate: 1,2-DCA-d4	0.0110		"	0.0100	110	60-140	
Surrogate: Toluene-d8	0.0101		"	0.0100	101	60-140	
Surrogate: 4-BFB	0.0109		"	0.0100	109	60-140	
<b>Laboratory Control Sample (612025</b>	1-BS2)			Prepared & Ana	alyzed: 12/20/	06	
Methyl tert-butyl ether	0.0206	0.00050	mg/kg	0.0200	103	60-140	
Benzene	0.0192	0.00050	"	0.0200	96	70-130	
Toluene	0.0185	0.00050	"	0.0200	92	70-130	
Surrogate: 1,2-DCA-d4	0.0115		"	0.0100	115	60-140	
Surrogate: Toluene-d8	0.00976		"	0.0100	98	60-140	
Surrogate: 4-BFB	0.0110		"	0.0100	110	60-140	



## Gasoline\BTEX\Oxygenates by GCMS\8260B - Quality Control TestAmerica - Sacramento, CA

DDD		
its RPD	Limit	Notes
40 5	25	
30 1	25	
30 3	25	
40		
40		
40		
40 2	25	
30 2	25	
30 0	25	
40		
40		
	30 2	40 2 25 30 2 25 30 0 25 40

0.0100

106

60-140

0.0106

Surrogate: 4-BFB





## Total Metals by EPA 6000/7000 Series Methods - Quality Control TestAmerica - Seattle, WA

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6L18048 - EPA 3050B / EPA 601	0B									
Blank (6L18048-BLK1)				Prepared:	12/18/06	Analyzed:	12/20/06			
Lead	ND	2.00	mg/kg wet							
Laboratory Control Sample (6L18048-BS1)				Prepared:	12/18/06	Analyzed:	12/20/06			
Lead	274	2.00	mg/kg wet	250		110	80-120			
Duplicate (6L18048-DUP1)	Source: Bl	PL0296-01		Prepared:	12/18/06	Analyzed:	12/20/06			
Lead	9.41	2.02	mg/kg wet		9.20			2.26	30	
Matrix Spike (6L18048-MS1)	Source: Bl	PL0296-01		Prepared:	12/18/06	Analyzed:	12/20/06			
Lead	248	2.02	mg/kg wet	253	9.20	94.4	69-121			





#### **Notes and Definitions**

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LAB:					) ;	SH	EL	L.	Ch	air	ı C	)f (	Cu	sto	odv	v R	ec	orc	Ī									
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cc: Daviya Saleme, dsal	eme@cambria-en	v.com				able	tabl	ଳ		ெ	_	_	 ଜ	<u>6</u>	30B)		(E)	115N	3   S	Total	Total Est	Total	Disposal					Į
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This information is business proprietary and confidential and must not be divulged or shared outside. the company. The use of this information is strictly for the purpose of doing business with the Centralized Residual Management Team (CRMT). Upon termination of the relationship with the CRMT, this information is not to be forwarded, duplicated, shared or used for any purpose other than for the documentation of past actions.

#### RESIDUAL MANAGEMENT PROCEDURE

ISSUED DATE: 08/01/01

CANCELS ISSUE: ISSUED BY: LRR

RESIDUAL STREAM:

SOIL WITH UNLEADED GASOLINE

VENDOR:

3.

树工

10

ALLIED-BFI

LOCATION:

ALLIED WASTE - MANTECA

9999 SOUTH AUSTIN ROAD

MANTECA, CA 95336

CALIFORNIA - TRANSPORTATION AND RETAIL

STEX - EPA 8021B/8260B (IF BENZENE IS > OR = TO 10 MG/KG THEN TCLP BENZENE IS REQUIRED)

CAM METALS = TTLC METALS - LEAD ONLY

STLC ON ALL TILC METALS 10 TIMES STLC MAXIMUM

TTLC LEAD=>13 MG/KG REQUIRES ORGANIC LEAD ANALYSIS

IF ANY TTLC TOTAL METAL IS > OR = TO 20 TIMES TCLP REGULATORY LEVELS, TCLP IS REQUIRED

TOTAL PETROLEUM HYDROCARBONS, METHOD 418.1 OF 8015 GASOLINE

--MTBE METHOD 8260B (GC/MS)

AQUATIC BIOASSAY (FISH TOX) IS ONLY TO BE RUN ON SAMPLES > OR = TO 5000 PPM TPH. AQUATIC BIOASSAY (FISH TOX) = PART 800 OF STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER (15TH EDITION)

LABORATORY INSTRUCTIONS (MINIMUM GUIDELINES ONLY)

FALTERNATE APPROVED TEST METHODS PER SW846 ARE ALSO ACCEPTABLE FALL REQUIRED TESTS ON COMPOSITE (MAX 4:1)

\*LABORATORY IS TO SUPPLY OA/OC INFORMATION WITH ALL ANALYTICAL REPORTS

MAIL OR FAX ALL ANALYSIS TO THE CENTRALIZED RESIDUAL MANAGEMENT TEAM

PROCEDURE ORIGINAL DATE: 08/01/01 PROCEDURE REVISED DATE: 08/01/01