

R02853



Denis L. Brown

December 19, 2005

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

**Shell Oil Products US**  
HSE – Environmental Services  
20945 S. Wilmington Ave.  
Carson, CA 90810-1039  
Tel (707) 865 0251  
Fax (707) 865 2542  
Email [denis.l.brown@shell.com](mailto:denis.l.brown@shell.com)

Re: Subsurface Investigation Report  
Shell-branded Service Station  
506-510 International Boulevard (510 East 14<sup>th</sup> Street)  
Oakland, California  
SAP Code 135695  
Incident No. 97601734

Alameda County  
DEC 21 2005  
Environmental Services

Dear Mr. Wickham:

Attached for your review and comment is a copy of the *Subsurface Investigation Report* for the above referenced site. 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,

A handwritten signature in black ink, appearing to read "Denis L. Brown", is written over a horizontal line.

Denis L. Brown  
Sr. Environmental Engineer

December 19, 2005

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

Re: **Subsurface Investigation Report**  
Shell-branded Service Station  
506-510 International Blvd. (510 E. 14<sup>th</sup> Street)  
Oakland, California  
Incident #97601734  
Cambria Project #247-0898-006

Alameda County  
DEC 21 2005



Dear Mr. Wickham:


On behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), Cambria Environmental Technology, Inc. (Cambria) prepared this report to document the recent subsurface investigation activities at the referenced site. The purpose of the investigation was to vertically profile the site's lithology and to determine the nature and extent of hydrocarbon impact to soil and groundwater. Cambria followed the scope of work presented in the July 6, 2005 *Subsurface Investigation Work Plan*. Alameda County Health Care Services Agency's (ACHCSA) August 17, 2005 letter to Shell approved the proposed work and requested that some borings be relocated. Cambria submitted a revised boring locations map in an August 24, 2005 e-mail. The revision was approved in ACHCSA's August 24, 2005 e-mail. Cambria performed the work in accordance with ACHCSA and San Francisco Regional Water Quality Control Board (RWQCB) guidelines.

## SITE LOCATION AND DESCRIPTION

The site is an active Shell-branded service station located at the International Boulevard (formerly East 14th Street) and 5th Avenue intersection in Oakland, California (Figures 1 and 2). City property records indicate that the parcel's address is listed as 506 14th Street in the County Assessor's records. Land use in the surrounding area is mixed commercial and residential. The service station layout includes a station building, two dispenser islands, and a gasoline underground storage tank (UST) complex (Figure 2).

**Cambria  
Environmental  
Technology, Inc.**

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Suite A  
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**PREVIOUS WORK**

**1990 Subsurface Investigation:** On September 19, 1990, Weiss Associates of Emeryville, California (Weiss) submitted a letter to Shell presenting a scope of work for a subsurface investigation to determine if a 550-gallon underground waste oil storage tank was still present at the site. The proposed scope of the investigation included removing a concrete pad and probing the subsurface. Weiss states in the letter that Shell would be notified if the tank was present and that a scope of work for its removal would be submitted. Neither of these documents has been located. No other documents in Shell's or Cambria's files indicate whether the proposed investigation was conducted.

**1993 Tank Excavation Sampling:** On March 30, 1993, the 550-gallon underground waste oil storage tank was removed from the site. No holes or leaks were identified during the removal. Under the direction of an Alameda County Department of Environmental Health inspector, Weiss collected two soil samples from the excavation floor. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), benzene, toluene, ethylbenzene, and xylenes (BTEX), and oil and grease. No analytes were detected at concentrations above the laboratory reporting limits in either sample. The site's cumulative soil analytical data is included in Table 1. Details of the excavation sampling are included in Weiss' August 17, 1993 *Tank Excavation Sampling Report*. Weiss concluded that no hydrocarbons had been released from the waste oil tank and requested closure. An August 26, 1993 ACHCSA letter to Shell stated that no further site remediation was necessary at that time.

**1998 Upgrade Site Inspection:** On March 24, 1998, Cambria completed an inspection of the turbine sumps and tank pit areas at the site during a fuel-system upgrade that added secondary containment to the turbine sumps. No field indications of hydrocarbons, such as staining or odor, were observed during the site visit. Therefore, no sampling was performed at the site and no additional investigation of the turbine sump area was determined to be necessary. Cambria's April 9, 1998 *Upgrade Site Inspection Report* presents investigation details.

**2004 Well Survey:** In February 2004, at Shell's request, Cambria prepared a well receptor survey of the site vicinity. No potential receptor wells were identified within a ½-mile radius of the site (Figure 1).

**2004 Upgrade Activities:** Paradiso Mechanical, Inc. (Paradiso) of San Leandro, California upgraded fuel dispensers in late June through mid-July 2004. Paradiso upgraded under-dispenser containment at the dispensers and installed enhanced vapor-recovery equipment and improved sumps on the UST fuel fill ports. At City of Oakland Fire Services Agency's direction, Cambria

collected soil samples within 1 to 2 feet of native soil beneath each dispenser and at the 90-degree elbows of exposed product piping on July 22, 2004 (Figure 2). Laboratory analysis of the samples indicated the presence of hydrocarbons in soils in and around the dispenser locations. As a result, Shell filed an Underground Storage Tank Unauthorized Release Report Form with the City of Oakland Fire Department's Office of Emergency Services on July 29, 2004. Cambria's October 4, 2004 *Dispenser and Piping Upgrade Sampling Report* includes details of the upgrade sampling, and Table 1 presents the soil analytical data.



## INVESTIGATION SUMMARY

Cambria oversaw the advancement of seven soil borings (SB-1 through SB-7) at the locations shown on Figure 2. After hand auguring to 5 feet for utility clearance, all borings were advanced using a direct-push drill rig and continuously logged for lithologic description. Soil samples were collected at 5-foot intervals beginning at 5 feet below grade (fbg). A soil sample was retained beneath first-encountered groundwater in boring SB-3 (SB-3-29.5) to confirm the lithology at this depth and to investigate possible hydrocarbon impact. Soil borings SB-1, SB-2, SB-4, and SB-5 were advanced to 25 fbg as proposed in the work plan. Soil borings SB-3 and SB-6 were advanced to 30 fbg to investigate lithology below first-encountered groundwater, and soil boring SB-7 was advanced to 24.5 fbg.

In each boring, temporary well casing was installed at the depth of first-encountered groundwater, and a grab groundwater sample was collected through polyethylene tubing. The collection of a second, discrete-depth groundwater sample was attempted in borings SB-4 through SB-7 using a hydropunch sampler. The hydropunch sampler is advanced from the surface to the desired sampling depth using hollow-push rods with the filter tip closed. Once the desired sample depth is reached, the push rods are retracted, exposing the encased filter screen. Samples are collected through polyethylene tubing.

Groundwater sample SB-6-W2 was collected from boring SB-6 at 25 to 27 fbg. No other depth-discrete groundwater samples were collected due to insufficient available water. In an effort to collect the additional samples, the hydropunch screen was exposed to a formation for at least 30 minutes at each attempted sampling point in borings SB-4, SB-5, and SB-7.

Cambria's standard field procedures for soil borings are included as Attachment A.

**Personnel Present:** Ron Barone, Cambria Staff Geologist.

**Permit:** Alameda County Public Works Agency Water Resources Well Permit #W2005-0865 (Attachment B).

**Drilling Company:** Vironex, Inc. of San Leandro, California (C-57 License # 705927).

**Drilling Dates:** October 18 and 19, 2005.

**Drilling Methods:** Hand auger and direct push.

**Number of Borings:** Seven borings (SB-1 through SB-7). Table 2 provides boring data.



**Boring Depths:** Boring SB-7 was advanced to a depth of 24.5 fbg; borings SB-1, SB-2, SB-4, and SB-5 were advanced to a depth of 25 fbg; and borings SB-3 and SB-6 were advanced to depths of 30 fbg. Borings SB-3 and SB-6 were advanced past 25 fbg to assess lithologic conditions beneath first-encountered groundwater.

**Groundwater Depths:** Groundwater was observed in all borings at initial depths ranging from 4 to 20 fbg. Cambria believes that the shallow wet media at 4 fbg in boring SB-7 may be a result of the boring's proximity to the UST complex, and the migration of water from the pea gravel of the UST pit.

**Soil Sampling Methods:** Cambria logged soil types using the Unified Soil Classification System and described the encountered soils on the boring logs presented in Attachment C. Cambria collected soil samples continuously for soil description, possible chemical analyses, and headspace analysis. Cambria screened selected soil samples for the presence of organic vapors using a photo-ionization detector (PID) and recorded the PID readings on the boring logs.

**Groundwater Sampling:** Grab groundwater samples were collected from each boring at first-encountered groundwater through temporary well casing using polyethylene tubing. Groundwater samples from borings SB-4 and SB-5 were collected from 15 to 20 fbg, and samples from borings SB-1, SB-2, SB-3, SB-6, and SB-7 were collected from 20 to 25 fbg. Hydropunch borings were performed at locations SB-4 through SB-7 and depth-discrete groundwater sampling was attempted. SB-6-W2 was collected from boring SB-6 from 25 to 27 fbg. All other depth-discrete hydropunch attempts in borings SB-4, SB-5, and SB-7 contained insufficient water for sample collection.

**Soil Classification:** Soils encountered consisted of a 1.5- to 5-foot-thick silt underlain primarily by clays and sandy clays with lenses of sand and silt to the total explored depth of 30 fbg. A gravel interval extending from 25 to 27 fbg was encountered in soil boring SB-3. Boring logs are presented as Attachment C.

**Backfill Method:** All borings were backfilled with neat cement grout to match the existing grade.

**Chemical Analyses:** State-certified laboratory Severn Trent Laboratories of Pleasanton, California analyzed groundwater and selected soil samples from the borings for TPHg, BTEX, and fuel oxygenates by EPA Method 8260B.

**Soil Disposal:** Investigation activities generated approximately 0.73 tons of soil. Cambria temporarily stockpiled the soil on site and profiled it for disposal (laboratory report is included in Attachment D). Manley and Sons Trucking, Inc. of Sacramento, California transported the soil to Allied Waste Industries' Forward Landfill in Manteca, California for disposal as non-hazardous waste. The disposal confirmation is included as Attachment E.




## INVESTIGATION RESULTS

**Soil Analytical Results:** TPHg was detected in six samples at concentrations up to 120 parts per million (ppm) in SB-6-5.0. The laboratory noted that this sample contained a quantity of unknown hydrocarbon(s) based on gasoline. Benzene was detected in two samples, SB-3-14.5 and SB-3-9.5, at concentrations of 0.0074 ppm and 0.013 ppm, respectively. Ethylbenzene was detected in four samples at concentrations up to 0.22 ppm (SB-3-9.5). Xylenes were detected in two samples, SB-3-9.5 and SB-3-5.0, at concentrations of 0.030 ppm and 0.21 ppm, respectively. Tert-butyl alcohol (TBA) was detected in 19 samples at concentrations up to 2.7 ppm (SB-4-19.5). MTBE was detected in 14 samples at concentrations up to 0.22 ppm (SB-3-9.5). No other petroleum hydrocarbons or fuel oxygenates were detected in soil during this investigation.

Table 1 contains the site's cumulative soil analytical data, and Figure 2 presents TPHg, benzene, and MTBE concentrations. The laboratory analytical reports are included in Attachment D.

**Groundwater Analytical Results:** TPHg was detected in first-encountered groundwater samples collected from soil borings SB-3, SB-5, SB-6, and SB-7 at concentrations ranging from 250 parts



per billion (ppb) to 3,800 ppb. Benzene was detected in first-encountered groundwater samples collected from soil borings SB-3 and SB-7 at concentrations of 3.0 ppb and 24 ppb, respectively. Toluene was detected in the first-encountered groundwater sample collected from soil boring SB-7 at a concentration of 140 ppb. Ethylbenzene was detected in first-encountered groundwater samples collected from soil borings SB-3 and SB-7 at concentrations of 22 ppb and 110 ppb, respectively. Xylenes were detected in first-encountered groundwater samples collected from soil borings SB-3 and SB-7 at concentrations of 18 ppb and 1,000 ppb, respectively. TBA was detected in first-encountered groundwater samples collected from soil borings SB-4 and SB-5 at concentrations of 270 ppb and 3,200 ppb, respectively. MTBE was detected in first-encountered groundwater samples collected in all soil borings at concentrations ranging from 1.6 ppb to 820 ppb.

The depth-discrete groundwater sample collected in soil boring SB-6 (SB-6-W2) contained detectable concentrations of TPHg (1,200 ppb), ethylbenzene (15 ppb), xylenes (29 ppb), and MTBE (1,400 ppb).

Table 3 summarizes groundwater analytical data, and Figure 2 presents TPHg, benzene, and MTBE concentrations. The laboratory analytical reports are included in Attachment D.

## CONCLUSIONS AND RECOMMENDATIONS

Shell advanced seven soil borings on site to vertically profile the site's lithology and to determine the nature and extent of hydrocarbon impact to soil and groundwater. Low concentrations of petroleum hydrocarbons and fuel oxygenates were detected in soil samples collected during this investigation. All constituents detected were below San Francisco RWQCB environmental screening levels (ESLs) for sites at which groundwater is not a current or potential source of drinking water, with the exception of the 120-ppm detection of TPHg in soil sample SB-6-5.0. According to the *East Bay Plain Groundwater Basin Beneficial Use Evaluation Report*, (California Regional Water Quality Control Board – San Francisco Bay Region, June 1999), this site lies in a portion of the East Bay Plain with the potential for the use of shallow groundwater as a drinking water source. However, the document also states that the City of Oakland has no plans to “develop local groundwater resources for drinking water purposes because of existing or potential salt water intrusion, contamination, or poor or limited quantity.”

Petroleum hydrocarbons and fuel oxygenates (MTBE and TBA) were also detected in groundwater samples collected from the borings at depths ranging from 15 to 27 fbg. Only the TPHg detections from borings SB-3, SB-6, and SB-6 and the toluene and xylenes detections from

boring SB-7 exceed the ESLs for groundwater which is not a current or potential source of drinking water.


Based on these results, Shell recommends that on-site groundwater monitoring wells be installed to provide a comprehensive groundwater monitoring network. If ACHCSA concurs with this recommendation, Cambria will submit a work plan under separate cover.

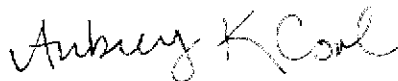
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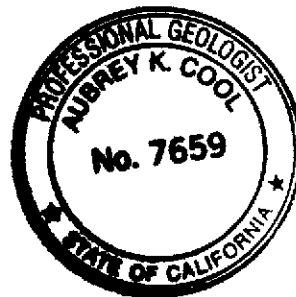
We appreciate your continued assistance with this project. Please call David Gibbs at (510) 420-3363 if you have any questions or comments regarding the contents of this report.

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

  
David M. Gibbs, P.G.  
Project Geologist



Aubrey K. Cool, P.G.  
Senior Project Geologist



Figures:            1 - Site Vicinity and Well Survey Map  
                         2 - Soil and Groundwater Sample Location Map

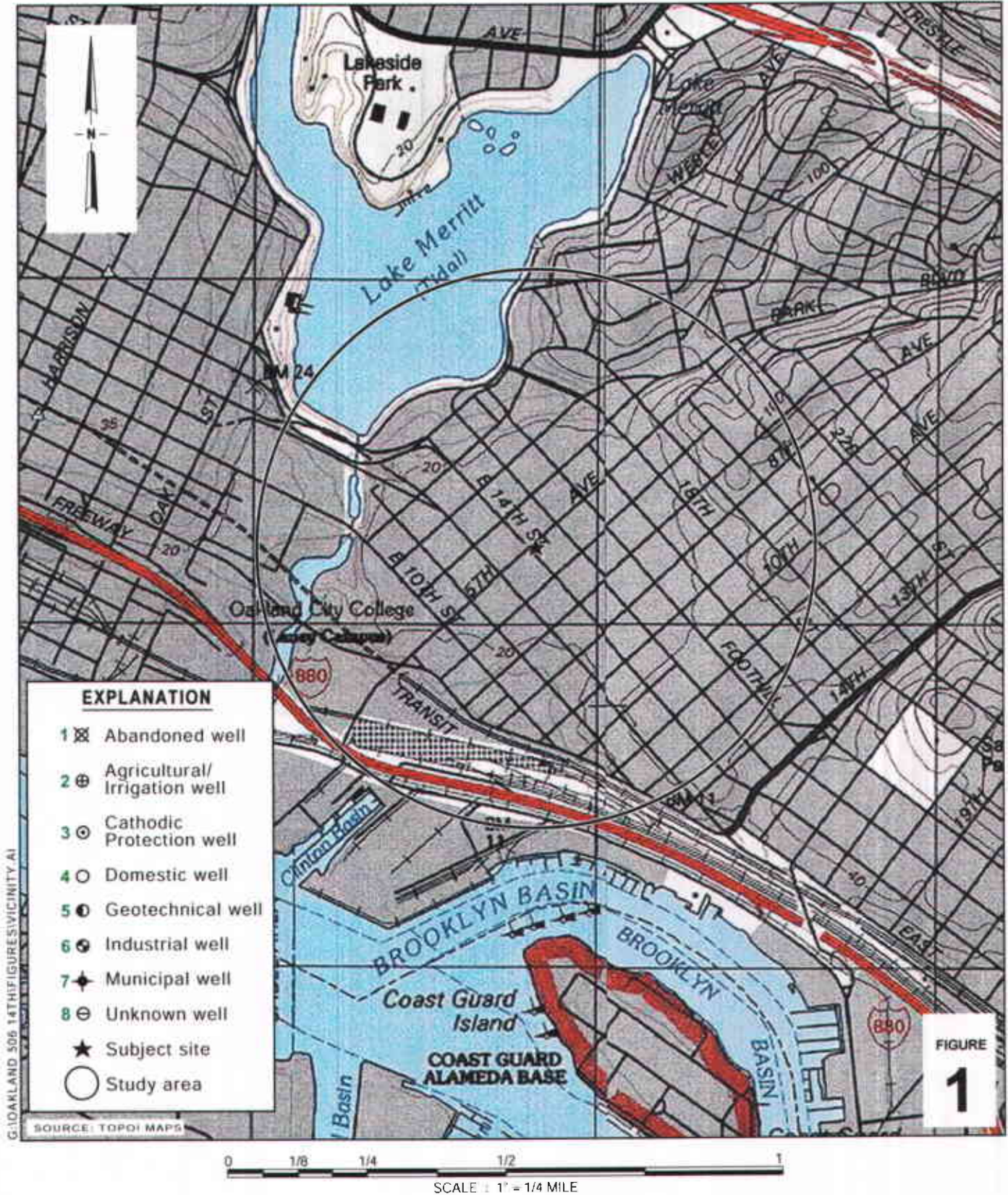
Tables:            1 - Cumulative Soil Analytical Data  
                         2 - Boring Data  
                         3 - Groundwater Analytical Data

Attachments:    A - Standard Field Procedures for Soil Borings  
                         B - Drilling Permit  
                         C - Soil Boring Logs  
                         D - Laboratory Analytical Reports  
                         E - Disposal Confirmation

cc:            Denis Brown, Shell Oil Products US, 20945 S. Wilmington Ave., Carson, CA 90810

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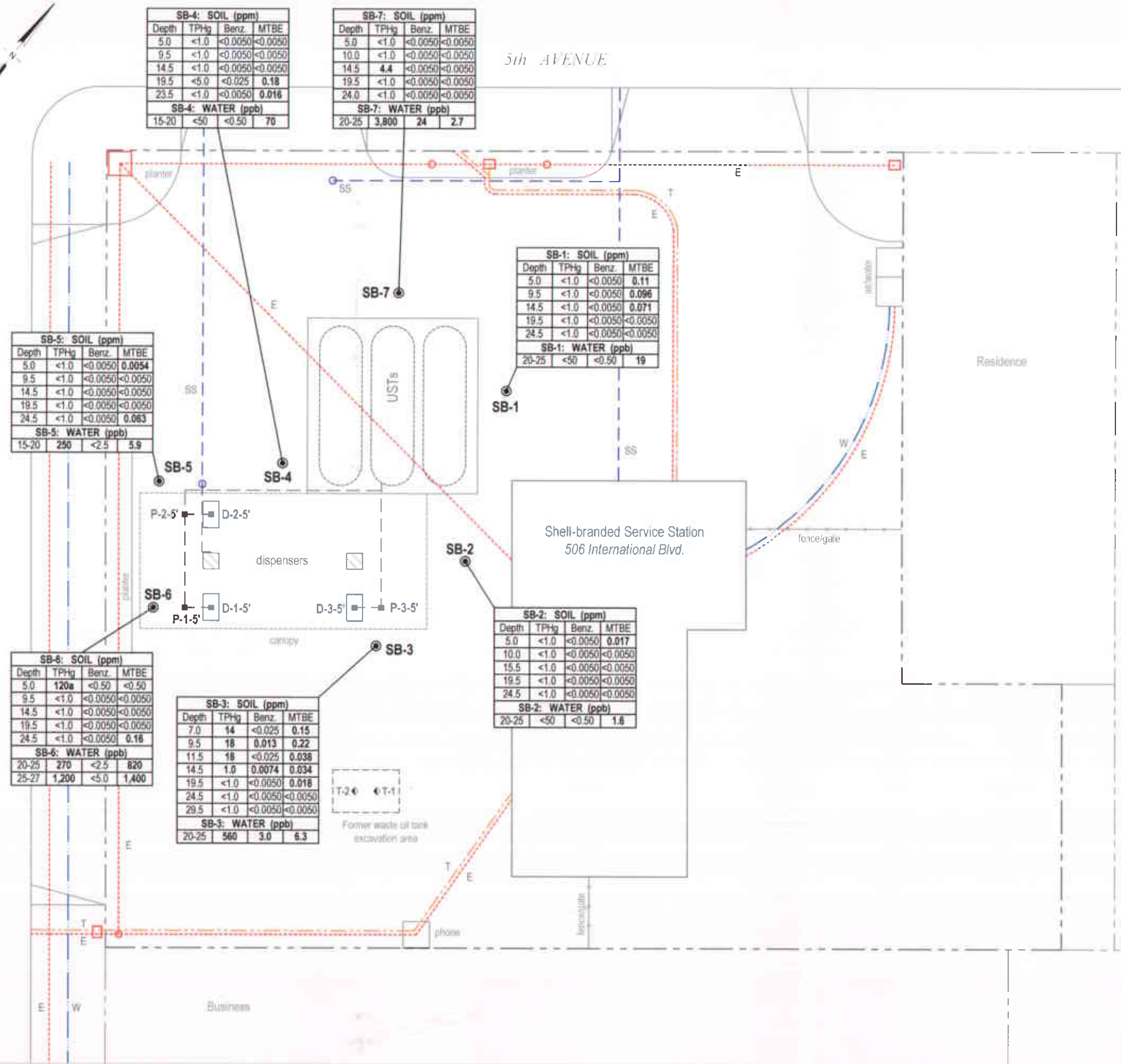
**Shell-branded Service Station**  
 506 International Boulevard (506 E. 14th St.)  
 Oakland, California  
 Incident No.97601734



C A M B R I A

**Site Vicinity and Well Survey Map**  
 (1/2 Mile Radius)





**EXPLANATION**

- SB-1 ● Soil boring location (10/18-19/05)
- D-1-5' ■ Soil and groundwater sample location (7/22/04)
- T-1 ◆ Soil sample location (1993)
- Electrical line (E)
- Sanitary sewer line (SS)
- Water line (W)
- Telecommunications line (T)
- Product piping

**SB-1: SOIL (ppm)**

Depth	TPHg	Benz.	MTBE

Soil Boring ID

Soil boring sample depth and TPHg, benzene, and MTBE concentrations in soil, in ppm

**SB-12: WATER (ppb)**

Depth	TPHg	Benz.	MTBE

Soil Boring ID

Soil boring sample depth and TPHg, benzene, and MTBE concentrations in groundwater, in ppb

**Note:**  
a = Quantity of unknown hydrocarbon(s) in sample based on gasoline



FIGURE  
**2**

Soil and Groundwater  
Sample Location Map



C A M B R I A

**Shell-branded Service Station**  
506 International Boulevard (506 E. 14th St.)  
Oakland, California  
Incident No. 97601734

# CAMBRIA

**Table 1. Cumulative Soil Analytical Data - Shell-branded Service Station, 506-510 International Blvd (510 E. 14th Street), Oakland, CA - Incident # 97601734**

Sample ID	Depth (fbg)	Date	TPHg	TPHd	Oil and Grease	Benzene	Toluene	Ethyl benzene	Total Xylenes	TBA	MTBE	DIPE	ETBE	TAME
<i>1993 Tank Excavation Sampling</i>														
T-1	7.5	3/30/1993	<0.5	<10	<30	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--
T-2	7.5	3/30/1993	<0.5	<10	<30	<0.0050	<0.0050	<0.0050	<0.0050	--	--	--	--	--
<i>2004 Upgrade Activities</i>														
P-1-5'	5.0	07/22/04	<b>220</b>	--	--	<0.50	<0.50	<0.50	<0.50	--	--	--	--	--
P-2-5'	5.0	07/22/04	<b>4.8</b>	--	--	<b>0.045</b>	<b>0.021</b>	<b>0.14</b>	<b>0.020</b>	--	--	--	--	--
P-3-5'	5.0	07/22/04	<b>8,400</b>	--	--	<5.0	<b>52</b>	<b>420</b>	<5.0	--	--	--	--	--
D-1-5'	5.0	07/22/04	<b>92</b>	--	--	<0.50	<b>0.57</b>	<b>0.52</b>	<0.50	--	--	--	--	--
D-2-5'	5.0	07/22/04	<1.0	--	--	<0.0050	<0.0050	<0.0050	<b>0.015</b>	--	--	--	--	--
D-3-5'	5.0	07/22/04	<b>1.4</b>	--	--	<0.0050	<b>0.0082</b>	<b>0.12</b>	<0.0050	--	--	--	--	--
<i>2005 Subsurface Investigation</i>														
SB-1-5.0	5	10/19/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.12</b>	<b>0.11</b>	<0.010	<0.0050	<0.0050
SB-1-9.5	9.5	10/19/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.025</b>	<b>0.096</b>	<0.010	<0.0050	<0.0050
SB-1-14.5	14.5	10/19/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.026</b>	<b>0.071</b>	<0.010	<0.0050	<0.0050
SB-1-19.5	19.5	10/19/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.38</b>	<0.0050	<0.010	<0.0050	<0.0050
SB-1-24.5	24.5	10/19/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050
SB-2-5.0	5	10/18/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<b>0.017</b>	<0.010	<0.0050	<0.0050
SB-2-10.0	10.0	10/18/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050
SB-2-14.5	15.5	10/18/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050
SB-2-19.5	19.5	10/18/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050
SB-2-24.5	24.5	10/18/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050
SB-3-5.0	5	10/19/2005	<b>14</b>	--	--	<0.025	<0.025	<b>0.078</b>	<b>0.21</b>	<b>0.11</b>	<b>0.15</b>	<0.050	<0.025	<0.025
SB-3-9.5	9.5	10/19/2005	<b>18</b>	--	--	<b>0.013</b>	<0.0050	<b>0.22</b>	<b>0.030</b>	<b>0.059</b>	<b>0.22</b>	<0.010	<0.0050	<0.0050
SB-3-11.5	11.5	10/19/2005	<b>18</b>	--	--	<0.025	<0.025	<b>0.034</b>	<0.025	<b>0.15</b>	<b>0.038</b>	<0.050	<0.025	<0.025
SB-3-14.5	14.5	10/19/2005	<b>1.0</b>	--	--	<b>0.0074</b>	<0.0050	<b>0.0091</b>	<0.0050	<b>0.056</b>	<b>0.034</b>	<0.010	<0.0050	<0.0050
SB-3-19.5	19.5	10/19/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.064</b>	<b>0.018</b>	<0.010	<0.0050	<0.0050
SB-3-24.5	24.5	10/19/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050
SB-3-29.5	29.5	10/19/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050
SB-4-5.0	5	10/18/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.19</b>	<0.0050	<0.010	<0.0050	<0.0050

# CAMBRIA

**Table 1. Cumulative Soil Analytical Data - Shell-branded Service Station, 506-510 International Blvd (510 E. 14th Street), Oakland, CA - Incident # 97601734**

Sample ID	Depth (fbg)	Date	TPHg	TPHd	Oil and Grease	Benzene	Toluene	Ethyl benzene	Total Xylenes	( parts per million )				
										TBA	MTBE	DIPE	ETBE	TAME
SB-4-9.5	9.5	10/18/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.26</b>	<0.0050	<0.010	<0.0050	<0.0050
SB-4-14.5	14.5	10/18/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050
SB-4-19.5	19.5	10/18/2005	<5.0	--	--	<0.025	<0.025	<0.025	<0.025	<b>2.7</b>	<b>0.18</b>	<0.050	<0.050	<0.050
SB-4-23.5	23.5	10/18/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<b>0.016</b>	<0.010	<0.0050	<0.0050
SB-5-5.0	5	10/18/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<b>0.0054</b>	<0.010	<0.0050	<0.0050
SB-5-9.5	9.5	10/18/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050
SB-5-14.5	14.5	10/18/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050
SB-5-19.5	19.5	10/18/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.031</b>	<0.0050	<0.010	<0.0050	<0.0050
SB-5-24.5	24.5	10/18/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.15</b>	<b>0.063</b>	<0.010	<0.0050	<0.0050
SB-6-5.0	5	10/18/2005	<b>120a</b>	--	--	<0.50	<0.50	<0.50	<0.50	<2.5	<0.50	<1.0	<0.50	<0.50
SB-6-9.5	9.5	10/18/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050
SB-6-14.5	14.5	10/18/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050
SB-6-19.5	19.5	10/18/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050
SB-6-24.5	24.5	10/18/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.024</b>	<b>0.16</b>	<0.010	<0.0050	<0.0050
SB-7-5.0	5	10/19/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.016</b>	<0.0050	<0.010	<0.0050	<0.0050
SB-7-10.0	10.0	10/19/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.10</b>	<0.0050	<0.010	<0.0050	<0.0050
SB-7-14.5	14.5	10/19/2005	<b>4.4</b>	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.045</b>	<0.0050	<0.010	<0.0050	<0.0050
SB-7-19.5	19.5	10/19/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<b>0.14</b>	<0.0050	<0.010	<0.0050	<0.0050
SB-7-24.0	24.0	10/19/2005	<1.0	--	--	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050

**Notes and Abbreviations:**

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B;

MTBE = Methyl tert-butyl ether analyzed by EPA Method 8260B;

-- = not analyzed

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

TBA = tertiary-butanol, analyzed by modified EPA Method 8260B.

MTBE = Methyl tertiary-butyl ether. Analyzed by EPA Method 8260B and 8260B C6-12. Highest concentration reported.

DIPE = Di-isopropyl ether, analyzed by modified EPA Method 8260B.

ETBE = Ethyl tertiary butyl ether, analyzed by modified EPA Method 8260B.

TAME = Tertiary-amyl methyl ether, analyzed by modified EPA Method 8260B.

a - Quantity of unknown hydrocarbon(s) in sample based on gasoline

**Table 2. Boring Data, Shell-branded Service Station, 506-510 International Blvd (510 E. 14th Street), Oakland, California**

Name	Type	Boring Date	Total Depth (fbg)	Soil Sample Interval (ft)	First Encountered GW Depth (fbg)	Temporary Screen Diam. (in)	Temporary Screen Interval (fbg)
SB-1	Soil Boring	19-Oct-05	25	C	20	1	20-25
SB-2	Soil Boring	18-Oct-05	25	C	20	1	20-25
SB-3	Soil Boring	19-Oct-05	30	C	20	1	20-25
SB-4	Soil Boring	18-Oct-05	25	C	15	1	15-20
SB-5	Soil Boring	18-Oct-05	25	C	20	1	15-20
SB-6	Soil Boring	18-Oct-05	30	C	17	1	20-25
SB-7	Soil Boring	19-Oct-05	24.5	C	4	1	20-25

Abbreviations and Notes:

fbg = Feet below grade

NA = not applicable

C = Continuous sampling

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**Table 3. Groundwater Analytical Data - Shell-branded Service Station, 506-510 International Blvd (510 E. 14th Street), Oakland, CA - Incident # 97601734**

Sample ID	Date	Depth (fbg)	TPHg	Benzene	Toluene	Ethyl- benzene	Total Xylenes	( parts per billion)				
								TBA	MTBE	DIPE	ETBE	TAME
SB-1-W1	10/19/2005	20-25	<50	<0.50	<0.50	<0.50	<1.0	<5.0	19	<2.0	<2.0	<2.0
SB-2-W	10/18/2005	20-25	<50	<0.50	<0.50	<0.50	<1.0	<5.0	1.6	<2.0	<2.0	<2.0
SB-3-W1	10/19/2005	20-25	560	3.0	<0.50	22	18	<5.0	6.3	<2.0	<2.0	<2.0
SB-4-W	10/18/2005	15-20	<50	<0.50	<0.50	<0.50	<1.0	270	70	<2.0	<2.0	<2.0
SB-5-W	10/18/2005	15-20	250	<2.5	<2.5	<2.5	<5.0	3,200	5.9	<10	<10	<10
SB-6-W	10/18/2005	20-25	270	<2.5	<2.5	<2.5	<5.0	<25	820	<10	<10	<10
SB-6-W2	10/18/2005	25-27	1,200	<5.0	<5.0	15	29	<50	1,400	<20	<20	<20
SB-7-W1	10/19/2005	20-25	3,800	24	140	110	1,000	<20	2.7	<8.0	<8.0	<8.0

**Notes and Abbreviations:**

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B;

MTBE = Methyl tert-butyl ether analyzed by EPA Method 8260B;

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

TBA = tertiary-butanol, analyzed by modified EPA Method 8260B.

MTBE = Methyl tertiary-butyl ether. Analyzed by EPA Method 8260B and 8260B C6-12. Highest concentration reported.

DIPE = Di-isopropyl ether, analyzed by modified EPA Method 8260B.

ETBE = Ethyl tertiary butyl ether, analyzed by modified EPA Method 8260B.

TAME = Tertiary-amyl methyl ether, analyzed by modified EPA Method 8260B.

1,2 DCA = 1,2-dichloroethane, analyzed by modified EPA Method 8260B.

EDB = Ethylene dibromide, analyzed by modified EPA Method 8260B.

Lead determined by EPA Method 7421

<n = Below detection limit of n mg/kg

--- = sample no analyzed

**ATTACHMENT A**

Standard Field Procedures for Soil Borings

# CAMBRIA

## STANDARD FIELD PROCEDURES FOR GEOPROBE® SOIL AND GROUNDWATER SAMPLING

This document describes Cambria Environmental Technology's standard field methods for GeoProbe® soil and ground water sampling. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

### Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor odor or staining, estimate ground water depth and quality and to submit samples for chemical analysis.

### Soil Classification/Logging

All soil samples are classified according to the Unified Soil Classification System by a trained geologist or engineer working under the supervision of a California Professional Geologist (PG) or a Certified Engineering Geologist (CEG). The following soil properties are noted for each soil sample:

- Principal and secondary grain size category (i.e., sand, silt, clay or gravel)
- Approximate percentage of each grain size category,
- Color,
- Approximate water or separate-phase hydrocarbon saturation percentage,
- Observed odor and/or discoloration,
- Other significant observations (i.e., cementation, presence of marker horizons, mineralogy), and
- Estimated permeability.

### Soil Sampling

GeoProbe® soil samples are collected from borings driven using hydraulic push technologies. A minimum of one and one half ft of the soil column is collected for every five ft of drilled depth. Additional soil samples can be collected near the water table and at lithologic changes. Samples are collected using samplers lined with polyethylene or brass tubes driven into undisturbed sediments at the bottom of the borehole. The ground surface immediately adjacent to the boring is used as a datum to measure sample depth. The horizontal location of each boring is measured in the field relative to a permanent on-site reference using a measuring wheel or tape measure.

Drilling and sampling equipment is steam-cleaned or washed prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

### Sample Storage, Handling and Transport

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon® tape and plastic end caps. Soil samples are labeled and stored at or below 4°C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.



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## Field Screening

After a soil sample has been collected, soil from the remaining tubing is placed inside a sealed plastic bag and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable GasTech<sup>®</sup> or photoionization detector measures volatile hydrocarbon vapor concentrations in the bag's headspace, extracting the vapor through a slit in the plastic bag. The measurements are used along with the field observations, odors, stratigraphy and ground water depth to select soil samples for analysis.

## Grab Ground Water Sampling

Ground water samples are collected from the open borehole using bailers, advancing disposable Tygon<sup>®</sup> tubing into the borehole and extracting ground water using a diaphragm pump, or using a hydro-punch style sampler with a bailer or tubing. The ground water samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4° C, and transported under chain-of-custody to the laboratory.

## Discrete Depth Soil and Ground Water Sampling

Soil and groundwater samples are collected for lithologic and chemical analysis using a direct driven, dual tube soil coring system. A hydraulic hammer drives sampling rods into the ground to collect continuous soil cores. Two nested sampling rods are driven at the same time: a larger diameter outer rod to act as a temporary drive casing and a smaller inner rod to retrieve soil cores. As the rods are advanced the soil is driven into a sample barrel that is attached to the end of the inner rod. The outer rod ensures that the sample is collected from the desired interval by preventing sloughing of the overlying material. After reaching the desired depth the inner rods are removed from the boring and the sleeves containing the soil sample are removed from the inner sample barrel. Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon<sup>®</sup> tape and plastic end caps. Soil samples are labeled and stored at or below 4°C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

When collecting groundwater samples, the sample barrel and inner rods are removed from the boring once the targeted water bearing zone has been reached. The drive casing is pulled up from 0.5 to 5 feet to allow groundwater to enter the borehole. Small diameter well casing and screen is then installed in the borehole to facilitate sample collection. The drive casing is then pulled up sufficiently to expose the desired length of screen and samples are collected using a bailer, peristaltic, bladder or inertial pump. The ground water samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4° C, and transported under chain-of-custody to the laboratory.

## Duplicates and Blanks

Blind duplicate water samples are usually collected only for monitoring well sampling programs, at a rate of one blind sample for every 10 wells sampled. Laboratory-supplied trip blanks accompany samples collected for all sampling programs to check for cross-contamination caused by sample handling and transport. These trip blanks are analyzed if the internal laboratory quality assurance/quality control (QA/QC) blanks contain the suspected field contaminants. An equipment blank may also be analyzed if non-dedicated sampling equipment is used.

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## **Grouting**

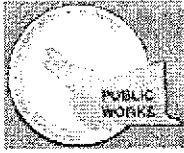
If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

F:\TEMPLATE\SOPS\GEOPROBE.DOC

**ATTACHMENT B**

Drilling Permit

# Alameda County Public Works Agency - Water Resources Well Permit



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

Application Approved on: 09/02/2005 By jamesy  
Permits Issued: W2005-0865

Receipt Number: WR2005-2093  
Permits Valid from 10/19/2005 to 10/20/2005

Application Id: 1125679870731  
Site Location: 510 E 14th St, Oakland, CA 94603  
Project Start Date: 10/19/2005

City of Project Site:Oakland  
Completion Date:10/20/2005

Applicant: Cambria Environmental - Stewart Dalie IV  
5900 Hollis St., Emeryville, CA 94608  
Property Owner: Shell Oil Products Inc.  
20945 Wilmington, Carson, CA 90801  
Client: \*\* same as Property Owner \*\*

Phone: 510-420-3339  
Phone: 707-865-0251

Total Due: \$200.00  
Total Amount Paid: \$200.00  
Paid By: CHECK PAID IN FULL

## Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 7 Boreholes  
Driller: Vironex Inc - Lic #: 705927 - Method: other

Work Total: \$200.00

### Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2005-0865	09/02/2005	01/17/2006	7	3.00 in.	25.00 ft

### 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.
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.
3. Applicant shall contact Johnson Tang for a inspection time at 510-670-6450 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.
4. 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**

Soil Boring Logs


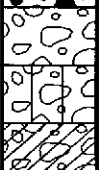
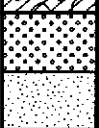
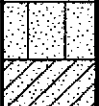


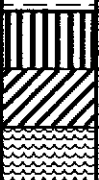

## Boring/Well Log Legend

### KEY TO SYMBOLS/ABBREVIATIONS

-  First encountered groundwater
-  Static groundwater
-  Soils logged by hand-auger or air-knife cuttings
-  Soils logged by drill cuttings or disturbed sample
-  Undisturbed soil sample interval
-  Soil sample retained for submittal to analytical laboratory
-  No recovery within interval
-  Hydropunch screen interval

- PID = Photo-ionization detector or organic vapor meter reading in parts per million (ppm)
- fbg = Feet below grade
- Blow Counts = Number of blows required to drive a California-modified split-spoon sampler using a 140-pound hammer falling freely 30 inches, recorded per 6-inch interval of a total 18-inch sample interval
- (10YR 4/4) = Soil color according to Munsell Soil Color Charts
- msl = Mean sea level
- Soils logged according to the USCS.

### UNIFIED SOILS CLASSIFICATION SYSTEM (USCS) SUMMARY

Major Divisions		Graphic	Group Symbol	Typical Description
Coarse-Grained Soils (>50% Sands and/or Gravels)	Gravel and Gravelly Soils		GW	Well-graded gravels, gravel-sand mixtures, little or no fines
			GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
			GM	Silty gravels, gravel-sand-silt mixtures
			GC	Clayey gravels, gravel-sand-clay mixtures
	Sand and Sandy Soils		SW	Well-graded sands, gravelly sands, little or no fines
			SP	Poorly-graded sands, gravelly sand, little or no fines
			SM	Silty sands, sand-silt mixtures
			SC	Clayey sands, sand-clay mixtures
Fine-Grained Soils (>50% Silts and/or Clays)	Silts and Clays		ML	Inorganic silts, very fine sands, silty or clayey fine sands, clayey silts with slight plasticity
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
			OL	Organic silts and organic silty clays of low plasticity
	Silts and Clays		MH	Inorganic silts, micaceous or diatomaceous fine sand or silty soils
			CH	Inorganic clays of high plasticity
			OH	Organic clays of medium to high plasticity, organic silts
Highly Organic Soils			PT	Peat, humus, swamp soils with high organic contents

M:\Templates & Forms\Boring Logs\Boring Log Legend



CAMBRIA



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

# BORING/WELL LOG

<b>CLIENT NAME</b>	Shell Oil Products Company	<b>BORING/WELL NAME</b>	SB-1
<b>JOB/SITE NAME</b>	Former Shell-Branded Service Station	<b>DRILLING STARTED</b>	19-Oct-05
<b>LOCATION</b>	510 E. 14th St (506 - 510 International Blvd.)	<b>DRILLING COMPLETED</b>	19-Oct-05
<b>PROJECT NUMBER</b>	247-0898-006	<b>WELL DEVELOPMENT DATE (YIELD)</b>	NA
<b>DRILLER</b>	Vironex	<b>GROUND SURFACE ELEVATION</b>	Not Surveyed
<b>DRILLING METHOD</b>	Direct Push	<b>TOP OF CASING ELEVATION</b>	Not Surveyed
<b>BORING DIAMETER</b>	3"	<b>SCREENED INTERVALS</b>	NA
<b>LOGGED BY</b>	Ron Barone	<b>DEPTH TO WATER (First Encountered)</b>	20.0 fbg (19-Oct-05) ▼
<b>REVIEWED BY</b>	Aubrey Cool, PG 7659	<b>DEPTH TO WATER (Static)</b>	13.00 fbg ▼
<b>REMARKS</b>			

WELL LOG (PID: G:\OAKLAND 510 E 14TH (506 - 510 INTERNATIONAL BLVD)\2005 SUBSURFACE INVESTIGATION\GINT.GPJ DEFAULT.GDT 12/13/05)

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
			0.3	GM		<b>Asphalt</b>	0.3	
			3.0	GM		<b>Silty Gravel (GM)</b> ; black; dry; 50% silt, 50% gravel.	3.0	
			4.5	ML		<b>SILT (ML)</b> ; dark brown; dry; 40% clay, 60% silt, medium plasticity.	4.5	
		SB-1-5.0	5	CL		<b>CLAY (CL)</b> ; gray with green mottling; damp to moist; 65% clay, 35% silt, medium plasticity.	5	
			7.5	CL		<b>CLAY (CL)</b> ; greenish gray; very dry; 50% clay, 50% silt, low to moderate plasticity.	7.5	
0		SB-1-9.5	10	CL			10	
			13.0	ML		<b>SILT with sand (ML)</b> ; brown; dry; 10% clay, 65% silt, 25% sand; low plasticity.	13.0	
3		SB-1-14.5	15	ML			15.0	
			16.5	ML		<b>SILT with Sand (ML)</b> ; brown; dry; 20% clay, 55% silt, 15% sand, 10% gravel; low plasticity.	16.5	
			16.5	CL		<b>CLAY with Sand (CL)</b> ; brown; moist; 60% clay, 25% silt, 15% sand; moderate plasticity.	16.5	
0		SB-1-18.5	20	CL		<b>Sandy CLAY (CL)</b> ; brown with gray mottling; moist; 70% clay, 30% sand; moderate plasticity.	20.0	
			22.5	SC		<b>Clayey SAND (SC)</b> ; brown; moist to wet; 25% clay, 10% silt, 65% sand; moderate plasticity.	22.5	
			23.5	CL		<b>Sandy CLAY (CL)</b> ; brown; moist; 50% clay, 25% silt, 25% sand; low plasticity.	23.5	
0		SB-1-24.5	25	CL			25.0	
						Notes: Grab groundwater sample (SB-1-W1) collected from a temporary well casing screened 20-25 fbg.		Bottom of Boring @ 25 fbg



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# BORING/WELL LOG

CLIENT NAME	Shell Oil Products Company	BORING/WELL NAME	SB-2
JOB/SITE NAME	Former Shell-Branded Service Station	DRILLING STARTED	18-Oct-05
LOCATION	510 E. 14th St (506 - 510 International Blvd.)	DRILLING COMPLETED	18-Oct-05
PROJECT NUMBER	247-0898-006	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Vironex	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Direct Push	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	3"	SCREENED INTERVALS	NA
LOGGED BY	Ron Barone	DEPTH TO WATER (First Encountered)	20.0 fbg (18-Oct-05) ▽
REVIEWED BY	Aubrey Cool, PG 7659	DEPTH TO WATER (Static)	15.80 fbg ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				0.2			<b>ASPHALT</b>	0.2	
				5.0	ML		<b>SILT (ML)</b> ; greenish gray; dry; 25% clay, 70% silt, 5% sand; moderate plasticity.	5.0	
3		SB-2-5.0		5.0	CL		<b>CLAY (CL)</b> ; light gray; moist; 65% clay, 35% silt; low plasticity.	9.5	
				10.0	SC		<b>Clayey SAND with gravel (SC)</b> ; greenish gray; moist; 25% clay, 50% sand, 25% gravel.	11.0	
2		SB-2-10.0		11.0	CL		<b>Sandy CLAY with Gravel (CL)</b> light brown; dry; 65% clay, 20% sand, 15% gravel; low plasticity.	19.5	
				15.0	CL		<b>Sandy CLAY with Gravel (CL)</b> light brown; dry; 65% clay, 20% sand, 15% gravel; low plasticity. ▼	19.5	
				20.0	CL		<b>CLAY (CL)</b> ; light brown; moist; 60% clay, 40% silt; low to medium plasticity. ▽	23.5	
0		SB-2-19.5		20.0	CL			23.5	
				25.0	SC		<b>Clayey SAND (SC)</b> ; light brown; moist; 25% clay, 75% sand.	25.0	
0		SB-2-24.5		25.0	SC			25.0	
<p>Notes: Grab groundwater sample (SB-2-W) collected from a temporary well casing screened 20-25 fbg.</p>									

WELL LOG (PID) G:\QA5\ID4-12005SU-1\GINT.GPJ DEFAULT.GDT 12/8/05





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 Emeryville, CA 94608  
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 Fax: 510-420-9170

# BORING/WELL LOG

CLIENT NAME	Shell Oil Products Company	BORING/WELL NAME	SB-3
JOB/SITE NAME	Former Shell-Branded Service Station	DRILLING STARTED	19-Oct-05
LOCATION	510 E. 14th St (506 - 510 International Blvd.)	DRILLING COMPLETED	19-Oct-05
PROJECT NUMBER	247-0898-006	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Vironex	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Direct Push	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	3"	SCREENED INTERVALS	NA
LOGGED BY	Ron Barone	DEPTH TO WATER (First Encountered)	20.0 fbg (19-Oct-05) ▽
REVIEWED BY	Aubrey Cool, PG 7659	DEPTH TO WATER (Static)	10.80 fbg ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S. GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				0.3		<b>ASPHALT</b>	0.3	
				3.5	ML	<b>SILT (ML)</b> ; dark brown; dry; 15% clay, 80% silt, 5% sand; moderate plasticity.	3.5	
				5.0	CL	<b>CLAY (CL)</b> ; gray; moist; 60% clay, 35% silt, 5% sand; low plasticity.	5.0	
164		SB-3-5.0		5.0	CL	<b>CLAY with Sand (CL)</b> yellow brown; dry; 60% clay, 25% silt, 15% sand; low plasticity.	5.0	
				10.0	CL	<b>CLAY (CL)</b> ; gray with some brown mottling; moist; 65% clay, 35% silt; low plasticity.	10.0	
22		SB-3-9.5		10.0	CL		10.0	
82		SB-3-11.5		12.0	CL	<b>CLAY with sand (CL)</b> ; light greenish gray; damp to moist; 60% clay, 20% silt, 20% sand; low plasticity.	12.0	
				15.0	CL		15.0	
45		SB-3-14.5		15.0	CL		15.0	
				20.0	CL	<b>CLAY (CL)</b> ; light gray; moist; 70% clay, 30% silt, moderate plasticity.	20.0	
		SB-3-19.5		20.0	CL		20.0	
				22.0	SP SM	<b>Poorly Graded SAND with silt (SP-SM)</b> ; light brown; moist to wet; 10% silt, 85% sand, 5% gravel.	22.0	
1		SB-3-24.5		25.0	GW	<b>Well-Graded GRAVEL with sand (GW)</b> ; light brown; wet; 35% sand, 65% gravel.	25.0	
				27.0	CL	<b>CLAY with sand (CL)</b> ; brown; moist; 65% clay, 10% silt, 25% sand; low plasticity.	27.0	
				27.5	CL	<b>CLAY (CL)</b> ; brown; damp to moist; 65% clay, 30% silt, 5% sand; moderate plasticity.	27.5	
0		SB-3-29.5		30.0	CL		30.0	

Notes: Grab groundwater sample (SB-3-W1) collected from a temporary well casing screened 20-25 fbg.

Bottom of Boring @ 30 fbg

WELL LOG (PID) G:\OAS1\DA-12005SU-1\GINT.GPJ DEFAULT.GDT 12/28/05



<b>CLIENT NAME</b>	Shell Oil Products Company	<b>BORING/WELL NAME</b>	SB-4
<b>JOB/SITE NAME</b>	Former Shell-Branded Service Station	<b>DRILLING STARTED</b>	18-Oct-05
<b>LOCATION</b>	510 E. 14th St (506 - 510 International Blvd.)	<b>DRILLING COMPLETED</b>	18-Oct-05
<b>PROJECT NUMBER</b>	247-0898-006	<b>WELL DEVELOPMENT DATE (YIELD)</b>	NA
<b>DRILLER</b>	Vironex	<b>GROUND SURFACE ELEVATION</b>	Not Surveyed
<b>DRILLING METHOD</b>	Direct Push	<b>TOP OF CASING ELEVATION</b>	Not Surveyed
<b>BORING DIAMETER</b>	3"	<b>SCREENED INTERVALS</b>	NA
<b>LOGGED BY</b>	Ron Barone	<b>DEPTH TO WATER (First Encountered)</b>	15.0 fbg (18-Oct-05) ▼
<b>REVIEWED BY</b>	Aubrey Cool, PG 7659	<b>DEPTH TO WATER (Static)</b>	13.00 fbg ▼

**REMARKS**

WELL LOG (PID) G:\OAKLAND 510 E 14TH (506 - 510 INTERNATIONAL BLVD)\2005 SUBSURFACE INVESTIGATION\GINT.GPJ DEFAULT.GDT 12/13/05

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
						<b>ASPHALT</b>	0.7	
				ML		<b>SILT (ML)</b> ; dark brown; moist; 15% clay, 80% silt, 5% sand.	2.5	
				CL		<b>CLAY (CL)</b> ; brown with gray mottling; dry to moist; 80% clay, 20% silt; moderate plasticity.		
		SB-4-5.0	5	CL		<b>CLAY with sand (CL)</b> ; yellowish brown; dry to moist; 60% clay, 20% silt, 20% sand; low plasticity.	6.0	
				SC		<b>Clayey SAND (SC)</b> ; yellowish brown; dry; 35% clay, 15% silt, 50% sand.	7.0	
				SM		<b>Silty SAND with gravel (SM)</b> brown with gray and red; dry; 15% clay, 20% silt, 50% sand, 15% gravel.	8.5	
0		SB-4-9.5	10	CL		<b>CLAY with sand (CL)</b> ; greenish brown and gray; moist; 65% clay, 15% silt, 20% sand; low plasticity.	9.0	
				CL				
0		SB-4-14.5	15	CL		<b>Sandy Clay (CL)</b> ; greenish brown; moist; 70% clay, 20% sand, 10% gravel; low plasticity.	15.0	
				SC		<b>Clayey SAND (SC)</b> brown; moist; 30% clay, 70% sand; low plasticity.	18.0	
25		SB-4-19.5	20	CL		<b>CLAY with sand (CL)</b> brown; moist; 70% clay, 10% silt, 20% sand, low plasticity.	19.0	
				SC		<b>Clayey SAND (SC)</b> light brown; wet; 15% clay, 85% sand; no plasticity.	20.0	
				CL		<b>CLAY with sand (CL)</b> light brown; moist; 75% clay, 10% silt, 10% sand; 5% gravel; medium plasticity.	22.0	
		SB-4-24.5	25	CL			25.0	
						<p>Notes: Grab groundwater sample (SB-4-W) collected from a temporary well casing screened 15-20 fbg.</p> <p>No sample recovered from hydropunch at 20-23 fbg after 30 minutes.</p>		<p>Bottom of Boring @ 25 fbg</p>



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# BORING/WELL LOG

<b>CLIENT NAME</b>	Shell Oil Products Company	<b>BORING/WELL NAME</b>	SB-5
<b>JOB/SITE NAME</b>	Former Shell-Branded Service Station	<b>DRILLING STARTED</b>	18-Oct-05
<b>LOCATION</b>	510 E. 14th St (506 - 510 International Blvd.)	<b>DRILLING COMPLETED</b>	18-Oct-05
<b>PROJECT NUMBER</b>	247-0898-006	<b>WELL DEVELOPMENT DATE (YIELD)</b>	NA
<b>DRILLER</b>	Vironex	<b>GROUND SURFACE ELEVATION</b>	Not Surveyed
<b>DRILLING METHOD</b>	Direct Push	<b>TOP OF CASING ELEVATION</b>	Not Surveyed
<b>BORING DIAMETER</b>	3"	<b>SCREENED INTERVALS</b>	NA
<b>LOGGED BY</b>	Ron Barone	<b>DEPTH TO WATER (First Encountered)</b>	20.0 fbg (18-Oct-05) ▽
<b>REVIEWED BY</b>	Aubrey Cool, PG 7659	<b>DEPTH TO WATER (Static)</b>	14.00 fbg ▽
<b>REMARKS</b>			

WELL LOG (PID) G:\OAKLAND 510 E 14TH (506 - 510 INTERNATIONAL BLVD)\2005 SUBSURFACE INVESTIGATION\GINT.GPJ DEFAULT.GDT 12/13/05

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				ML		<b>ASPHALT</b> <b>SILT with sand</b> (ML); dark brown; moist; 10% clay, 65% silt, 25% sand; low plasticity.	0.5	
				CL		<b>CLAY</b> (CL); brown; moist; 65% clay, 35% silt; moderate plasticity.	2.0	
		SB-5-6.0	5	CL			7.0	
				SC		<b>Clayey SAND with Gravel</b> (SC); grayish brown; moist; 15% clay, 60% sand, 25% gravel.	10.5	
		SB-5-9.5	10	CL		<b>CLAY</b> (CL); brown with gray mottling; moist; 65% clay, 35% silt; low plasticity.	14.0	
4.5		SB-5-14.5	15	ML		<b>Sandy SILT</b> (ML); gray; moist; 50% silt, 50% sand; low plasticity.	16.5	
				CL		<b>CLAY</b> (CL); brown; moist; 60% clay, 30% silt, 10% sand; moderate plasticity.	21.0	
33		SB-5-19.5	20	SP SM		<b>Poorly Graded SAND with silt</b> (SP-SM); yellowish brown; wet; 10% silt, 90% sand.	24.0	
				SC		<b>Clayey SAND</b> (SC); yellowish brown; moist; 15% clay, 10% silt, 75% sand.	25.0	
87		SB-5-24.5	25					

Notes: Grab groundwater sample (SB-5-W) collected from a temporary well casing screened 15-20 fbg.

No sample recovered from hydro-punch at 25-29 fbg after 30 minutes.

Bottom of Boring @ 29 fbg



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# BORING/WELL LOG

CLIENT NAME	Shell Oil Products Company	BORING/WELL NAME	SB-6
JOB/SITE NAME	Former Shell-Branded Service Station	DRILLING STARTED	18-Oct-05
LOCATION	510 E. 14th St (506 - 510 International Blvd.)	DRILLING COMPLETED	18-Oct-05
PROJECT NUMBER	247-0898-006	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Vironex	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Direct Push	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	3"	SCREENED INTERVALS	NA
LOGGED BY	Ron Barone	DEPTH TO WATER (First Encountered)	20.0 fbg (18-Oct-05)
REVIEWED BY	Aubrey Cool, PG 7659	DEPTH TO WATER (Static)	17.00 fbg
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				0.5	ML		<b>ASPHALT</b>	0.5	
				2.0			<b>SILT (ML)</b> ; brown; dry; 20% clay, 80% silt; moderate to low plasticity.	2.0	
				5	CL		<b>CLAY (CL)</b> ; brown with Gray Mottling; moist; 70% clay, 30% silt; moderate plasticity.		
0		SB-6-5.0		5					
				7.0	CL		<b>CLAY with sand (CL)</b> ; brown with gray mottling; moist; 50% clay, 25% silt, 25% sand; low plasticity.	7.0	
				9.0	SC		<b>Clayey SAND (SC)</b> ; greenish gray; dry to moist; 35% clay, 15% silt, 50% sand.	9.0	
1		SB-6-9.5		10					
				12.0	CL		<b>CLAY with sand (CL)</b> ; greenish gray; moist; 55% clay, 25% silt, 20% sand; low plasticity.	12.0	
				15					
5		SB-6-14.5		15	CL		<b>CLAY (CL)</b> ; gray; moist; 65% clay, 35% silt; moderate plasticity.	15	
				20					
0		SB-6-19.5		20				20	
				21.5	CL		<b>CLAY (CL)</b> ; gray; moist; 60% clay, 30% silt, 10% gravel; low to medium plasticity.	21.5	
				25	SC		<b>Clayey SAND (SC)</b> ; olive gray; moist to wet; 20% clay, 10% silt, 70% sand.	25	
1		SB-6-24.5		25					
				27.0	SP SC		<b>Poorly Graded SAND with clay (SP-SC)</b> ; olive gray to brown; wet; 10% clay, 90% sand.	27.0	
				27.0					
				30.0	ML		<b>Sandy SILT (ML)</b> ; olive brown; moist; 15% clay, 55% silt, 30% sand; low plasticity.	30.0	
				30					
							Notes: Grab groundwater sample (SB-6-W) collected from a temporary well casing screened 20-25 fbg.		
							Sample SB-6-W2 was collected at 25-27 fbg using a depth discrete hydropunch sampler.		
									Bottom of Boring @ 30 fbg

WELL LOG (PID) G:\OAS\04-12006SU-1\GINT.GPJ DEFAULT.GDT 12/8/05



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# BORING/WELL LOG

<b>CLIENT NAME</b>	Shell Oil Products Company	<b>BORING/WELL NAME</b>	SB-7
<b>JOB/SITE NAME</b>	Former Shell-Branded Service Station	<b>DRILLING STARTED</b>	19-Oct-05
<b>LOCATION</b>	510 E. 14th St (506 - 510 International Blvd.)	<b>DRILLING COMPLETED</b>	19-Oct-05
<b>PROJECT NUMBER</b>	247-0898-006	<b>WELL DEVELOPMENT DATE (YIELD)</b>	NA
<b>DRILLER</b>	Vironex	<b>GROUND SURFACE ELEVATION</b>	Not Surveyed
<b>DRILLING METHOD</b>	Direct Push	<b>TOP OF CASING ELEVATION</b>	Not Surveyed
<b>BORING DIAMETER</b>	3"	<b>SCREENED INTERVALS</b>	NA
<b>LOGGED BY</b>	Ron Barone	<b>DEPTH TO WATER (First Encountered)</b>	4.0 fbg (19-Oct-05) ▽
<b>REVIEWED BY</b>	Aubrey Cool, PG 7659	<b>DEPTH TO WATER (Static)</b>	NA ▼
<b>REMARKS</b>			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				0.3	GM		<b>ASPHALT</b>	0.3	
				1.0			<b>SILT with gravel(GM);</b> black; dry; 50% silt, 50% gravel.	1.0	
				3.0	ML		<b>SILT (ML);</b> dark brown; dry to moist; 30% clay, 70% silt; low plasticity.	3.0	
1		SB-7-5.0		5			<b>CLAY (CL);</b> gray; moist; 75% clay, 25% silt; medium plasticity. ▽		
0		SB-7-9.5		10	CL		<b>CLAY (CL);</b> light gray; moist; 70% clay, 25% silt, 5% sand; low to medium plasticity.		
72		SB-7-14.5		15			<b>CLAY (CL);</b> gray with green mottling; moist; 65% clay, 35% silt; low plasticity.		
0		SB-7-19.5		20			<b>CLAY (CL);</b> greenish brown; moist; 80% clay, 20% silt; medium plasticity.		
1		SB-7-24		22.0	CL		<b>CLAY with sand(CL);</b> brown with gray mottling; moist; 70% clay, 10% silt, 20% sand; low to medium plasticity.	22.0	
				24.5				24.5	
<p>Notes: Grab groundwater sample (SB-7-W1) collected from a temporary well casing screened 20-25 fbg.</p> <p>No sample recovered from hydropunch at 24-27 fbg after 30 minutes.</p> <p>Bottom of Boring @ 25 fbg</p>									

WELL LOG (PID): C:\OAS1D4-12005SU-1\GINT.GPJ DEFAULT.GDT 12/8/05

**ATTACHMENT D**

Laboratory Analytical Reports

**Cambria Environmental Emeryville**

October 31, 2005

5900 Hollis Street, Ste. A  
Emeryville, CA 94608

Attn.: David Gibbs

Project#: 247-0898-006

Project: 97601734

Site: 510 E. 14th Street, Oakland, CA

Attached is our report for your samples received on 10/20/2005 11:28

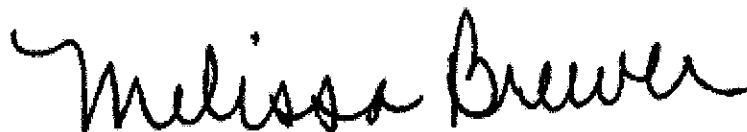
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 12/04/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: [mbrewer@stl-inc.com](mailto:mbrewer@stl-inc.com)

Sincerely,



Melissa Brewer  
Project Manager

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* [www.stl-inc.com](http://www.stl-inc.com) \* CA DHS ELAP# 2496

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SB-3-5.0	10/19/2005 08:00	Soil	1
SB-3-9.5	10/19/2005 08:05	Soil	2
SB-3-11.5	10/19/2005 08:15	Soil	3
SB-3-14.5	10/19/2005 08:10	Soil	4
SB-3-19.5	10/19/2005 08:20	Soil	5
SB-3-24.5	10/19/2005 08:29	Soil	6
SB-3-W1	10/19/2005 08:25	Water	7
SB-3-29.5	10/19/2005 08:50	Soil	8
SB-7-W1	10/19/2005 09:50	Water	9
SB-7-5.0	10/19/2005 10:00	Soil	10
SB-7-10.0	10/19/2005 10:05	Soil	11
SB-7-14.5	10/19/2005 11:20	Soil	12
SB-7-19.5	10/19/2005 11:45	Soil	13
SB-7-24.0	10/19/2005 12:10	Soil	14
SB-1-5.0	10/19/2005 14:27	Soil	15
SB-1-9.5	10/19/2005 14:34	Soil	16
SB-1-14.5	10/19/2005 14:40	Soil	17
SB-1-19.5	10/19/2005 14:45	Soil	18
SB-1-24.5	10/19/2005 15:05	Soil	19
SB-1-W	10/19/2005 15:05	Water	20



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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B Test(s): 8260B  
 Sample ID: **SB-3-5.0** Lab ID: 2005-10-0476 - 1  
 Sampled: 10/19/2005 08:00 Extracted: 10/28/2005 12:28  
 Matrix: Soil QC Batch#: 2005/10/28-1A.62

Analysis Flag: L2 ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	14	5.0	mg/Kg	5.00	10/28/2005 12:28	
Benzene	ND	0.025	mg/Kg	5.00	10/28/2005 12:28	
Toluene	ND	0.025	mg/Kg	5.00	10/28/2005 12:28	
Ethyl benzene	0.078	0.025	mg/Kg	5.00	10/28/2005 12:28	
Total xylenes	0.21	0.025	mg/Kg	5.00	10/28/2005 12:28	
tert-Butyl alcohol (TBA)	0.11	0.050	mg/Kg	5.00	10/28/2005 12:28	
Methyl tert-butyl ether (MTBE)	0.15	0.025	mg/Kg	5.00	10/28/2005 12:28	
Di-isopropyl Ether (DIPE)	ND	0.050	mg/Kg	5.00	10/28/2005 12:28	
Ethyl tert-butyl ether (ETBE)	ND	0.025	mg/Kg	5.00	10/28/2005 12:28	
tert-Amyl methyl ether (TAME)	ND	0.025	mg/Kg	5.00	10/28/2005 12:28	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	84.9	76-124	%	5.00	10/28/2005 12:28	
Toluene-d8	98.8	75-116	%	5.00	10/28/2005 12:28	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-3-9.5</b>	Lab ID: 2005-10-0476 - 2
Sampled: 10/19/2005 08:05	Extracted: 10/29/2005 19:49
Matrix: Soil	QC Batch#: 2005/10/29-1A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	18	1.0	mg/Kg	1.00	10/29/2005 19:49	
Benzene	0.013	0.0050	mg/Kg	1.00	10/29/2005 19:49	
Toluene	ND	0.0050	mg/Kg	1.00	10/29/2005 19:49	
Ethyl benzene	0.22	0.0050	mg/Kg	1.00	10/29/2005 19:49	
Total xylenes	0.030	0.0050	mg/Kg	1.00	10/29/2005 19:49	
tert-Butyl alcohol (TBA)	0.059	0.010	mg/Kg	1.00	10/29/2005 19:49	
Methyl tert-butyl ether (MTBE)	0.22	0.0050	mg/Kg	1.00	10/29/2005 19:49	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/29/2005 19:49	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/29/2005 19:49	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/29/2005 19:49	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	103.2	76-124	%	1.00	10/29/2005 19:49	
Toluene-d8	89.4	75-116	%	1.00	10/29/2005 19:49	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B Test(s): 8260B  
 Sample ID: **SB-3-11.5** Lab ID: 2005-10-0476 - 3  
 Sampled: 10/19/2005 08:15 Extracted: 10/28/2005 17:18  
 Matrix: Soil QC Batch#: 2005/10/28-1A.62

Analysis Flag: L2 ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	18	5.0	mg/Kg	4.95	10/28/2005 17:18	
Benzene	ND	0.025	mg/Kg	4.95	10/28/2005 17:18	
Toluene	ND	0.025	mg/Kg	4.95	10/28/2005 17:18	
Ethyl benzene	0.034	0.025	mg/Kg	4.95	10/28/2005 17:18	
Total xylenes	ND	0.025	mg/Kg	4.95	10/28/2005 17:18	
tert-Butyl alcohol (TBA)	0.15	0.050	mg/Kg	4.95	10/28/2005 17:18	
Methyl tert-butyl ether (MTBE)	0.038	0.025	mg/Kg	4.95	10/28/2005 17:18	
Di-isopropyl Ether (DIPE)	ND	0.050	mg/Kg	4.95	10/28/2005 17:18	
Ethyl tert-butyl ether (ETBE)	ND	0.025	mg/Kg	4.95	10/28/2005 17:18	
tert-Amyl methyl ether (TAME)	ND	0.025	mg/Kg	4.95	10/28/2005 17:18	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	89.1	76-124	%	4.95	10/28/2005 17:18	
Toluene-d8	95.2	75-116	%	4.95	10/28/2005 17:18	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-3-14.5</b>	Lab ID: 2005-10-0476 - 4
Sampled: 10/19/2005 08:10	Extracted: 10/28/2005 13:21
Matrix: Soil	QC Batch#: 2005/10/28-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	1.0	1.0	mg/Kg	1.00	10/28/2005 13:21	
Benzene	0.0074	0.0050	mg/Kg	1.00	10/28/2005 13:21	
Toluene	ND	0.0050	mg/Kg	1.00	10/28/2005 13:21	
Ethyl benzene	0.0091	0.0050	mg/Kg	1.00	10/28/2005 13:21	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/28/2005 13:21	
tert-Butyl alcohol (TBA)	0.056	0.010	mg/Kg	1.00	10/28/2005 13:21	
Methyl tert-butyl ether (MTBE)	0.034	0.0050	mg/Kg	1.00	10/28/2005 13:21	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/28/2005 13:21	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/28/2005 13:21	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/28/2005 13:21	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	89.3	76-124	%	1.00	10/28/2005 13:21	
Toluene-d8	98.3	75-116	%	1.00	10/28/2005 13:21	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

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Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: SB-3-19.5	Lab ID: 2005-10-0476 - 5
Sampled: 10/19/2005 08:20	Extracted: 10/28/2005 00:40
Matrix: Soil	QC Batch#: 2005/10/27-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/28/2005 00:40	
Benzene	ND	0.0050	mg/Kg	1.00	10/28/2005 00:40	
Toluene	ND	0.0050	mg/Kg	1.00	10/28/2005 00:40	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/28/2005 00:40	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/28/2005 00:40	
tert-Butyl alcohol (TBA)	0.064	0.010	mg/Kg	1.00	10/28/2005 00:40	
Methyl tert-butyl ether (MTBE)	0.018	0.0050	mg/Kg	1.00	10/28/2005 00:40	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/28/2005 00:40	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/28/2005 00:40	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/28/2005 00:40	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	91.4	76-124	%	1.00	10/28/2005 00:40	
Toluene-d8	99.7	75-116	%	1.00	10/28/2005 00:40	

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

Cambria Environmental Emeryville

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Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-3-24.5</b>	Lab ID: 2005-10-0476 - 6
Sampled: 10/19/2005 08:29	Extracted: 10/26/2005 23:44
Matrix: Soil	QC Batch#: 2005/10/26-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/26/2005 23:44	
Benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 23:44	
Toluene	ND	0.0050	mg/Kg	1.00	10/26/2005 23:44	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 23:44	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/26/2005 23:44	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	10/26/2005 23:44	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/26/2005 23:44	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/26/2005 23:44	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/26/2005 23:44	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/26/2005 23:44	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	118.8	76-124	%	1.00	10/26/2005 23:44	
Toluene-d8	92.4	75-116	%	1.00	10/26/2005 23:44	



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

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Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-3-29.5</b>	Lab ID: 2005-10-0476 - 8
Sampled: 10/19/2005 08:50	Extracted: 10/27/2005 02:33
Matrix: Soil	QC Batch#: 2005/10/26-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/27/2005 02:33	
Benzene	ND	0.0050	mg/Kg	1.00	10/27/2005 02:33	
Toluene	ND	0.0050	mg/Kg	1.00	10/27/2005 02:33	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/27/2005 02:33	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/27/2005 02:33	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	10/27/2005 02:33	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/27/2005 02:33	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/27/2005 02:33	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/27/2005 02:33	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/27/2005 02:33	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	105.4	76-124	%	1.00	10/27/2005 02:33	
Toluene-d8	91.7	75-116	%	1.00	10/27/2005 02:33	



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

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Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B Test(s): 8260B  
 Sample ID: **SB-7-W1** Lab ID: 2005-10-0476 - 9  
 Sampled: 10/19/2005 09:50 Extracted: 10/28/2005 09:43  
 Matrix: Water QC Batch#: 2005/10/28-1A.64

Analysis Flag: L2, pH: <2 ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	3800	200	ug/L	4.00	10/28/2005 09:43	
Benzene	24	2.0	ug/L	4.00	10/28/2005 09:43	
Toluene	140	2.0	ug/L	4.00	10/28/2005 09:43	
Ethylbenzene	110	2.0	ug/L	4.00	10/28/2005 09:43	
Total xylenes	1000	4.0	ug/L	4.00	10/28/2005 09:43	
tert-Butyl alcohol (TBA)	ND	20	ug/L	4.00	10/28/2005 09:43	
Methyl tert-butyl ether (MTBE)	2.7	2.0	ug/L	4.00	10/28/2005 09:43	
Di-isopropyl Ether (DIPE)	ND	8.0	ug/L	4.00	10/28/2005 09:43	
Ethyl tert-butyl ether (ETBE)	ND	8.0	ug/L	4.00	10/28/2005 09:43	
tert-Amyl methyl ether (TAME)	ND	8.0	ug/L	4.00	10/28/2005 09:43	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	108.8	73-130	%	4.00	10/28/2005 09:43	
Toluene-d8	108.7	81-114	%	4.00	10/28/2005 09:43	

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

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Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-7-5.0</b>	Lab ID: 2005-10-0476 - 10
Sampled: 10/19/2005 10:00	Extracted: 10/28/2005 04:09
Matrix: Soil	QC Batch#: 2005/10/27-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/28/2005 04:09	
Benzene	ND	0.0050	mg/Kg	1.00	10/28/2005 04:09	
Toluene	ND	0.0050	mg/Kg	1.00	10/28/2005 04:09	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/28/2005 04:09	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/28/2005 04:09	
tert-Butyl alcohol (TBA)	0.016	0.010	mg/Kg	1.00	10/28/2005 04:09	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/28/2005 04:09	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/28/2005 04:09	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/28/2005 04:09	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/28/2005 04:09	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	94.1	76-124	%	1.00	10/28/2005 04:09	
Toluene-d8	96.6	75-116	%	1.00	10/28/2005 04:09	

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

Cambria Environmental Emeryville

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Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-7-10.0</b>	Lab ID: 2005-10-0476 - 11
Sampled: 10/19/2005 10:05	Extracted: 10/28/2005 04:35
Matrix: Soil	QC Batch#: 2005/10/27-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/28/2005 04:35	
Benzene	ND	0.0050	mg/Kg	1.00	10/28/2005 04:35	
Toluene	ND	0.0050	mg/Kg	1.00	10/28/2005 04:35	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/28/2005 04:35	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/28/2005 04:35	
tert-Butyl alcohol (TBA)	0.10	0.010	mg/Kg	1.00	10/28/2005 04:35	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/28/2005 04:35	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/28/2005 04:35	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/28/2005 04:35	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/28/2005 04:35	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	102.1	76-124	%	1.00	10/28/2005 04:35	
Toluene-d8	94.2	75-116	%	1.00	10/28/2005 04:35	

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

Cambria Environmental Emeryville

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Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-7-14.5</b>	Lab ID: 2005-10-0476 - 12
Sampled: 10/19/2005 11:20	Extracted: 10/28/2005 05:01
Matrix: Soil	QC Batch#: 2005/10/27-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	4.4	1.0	mg/Kg	1.00	10/28/2005 05:01	
Benzene	ND	0.0050	mg/Kg	1.00	10/28/2005 05:01	
Toluene	ND	0.0050	mg/Kg	1.00	10/28/2005 05:01	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/28/2005 05:01	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/28/2005 05:01	
tert-Butyl alcohol (TBA)	0.045	0.010	mg/Kg	1.00	10/28/2005 05:01	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/28/2005 05:01	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/28/2005 05:01	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/28/2005 05:01	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/28/2005 05:01	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	95.4	76-124	%	1.00	10/28/2005 05:01	
Toluene-d8	97.2	75-116	%	1.00	10/28/2005 05:01	

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

Cambria Environmental Emeryville

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Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B Test(s): 8260B  
 Sample ID: **SB-7-19.5** Lab ID: 2005-10-0476 - 13  
 Sampled: 10/19/2005 11:45 Extracted: 10/28/2005 00:14  
 Matrix: Soil QC Batch#: 2005/10/27-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/28/2005 00:14	
Benzene	ND	0.0050	mg/Kg	1.00	10/28/2005 00:14	
Toluene	ND	0.0050	mg/Kg	1.00	10/28/2005 00:14	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/28/2005 00:14	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/28/2005 00:14	
tert-Butyl alcohol (TBA)	0.14	0.010	mg/Kg	1.00	10/28/2005 00:14	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/28/2005 00:14	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/28/2005 00:14	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/28/2005 00:14	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/28/2005 00:14	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	86.6	76-124	%	1.00	10/28/2005 00:14	
Toluene-d8	98.0	75-116	%	1.00	10/28/2005 00:14	

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

Cambria Environmental Emeryville

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Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-7-24.0</b>	Lab ID: 2005-10-0476 - 14
Sampled: 10/19/2005 12:10	Extracted: 10/26/2005 14:28
Matrix: Soil	QC Batch#: 2005/10/26-1B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/26/2005 14:28	
Benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 14:28	
Toluene	ND	0.0050	mg/Kg	1.00	10/26/2005 14:28	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 14:28	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/26/2005 14:28	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	10/26/2005 14:28	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/26/2005 14:28	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/26/2005 14:28	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/26/2005 14:28	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/26/2005 14:28	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	92.0	76-124	%	1.00	10/26/2005 14:28	
Toluene-d8	92.2	75-116	%	1.00	10/26/2005 14:28	

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

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Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B Test(s): 8260B  
 Sample ID: SB-1-5.0 Lab ID: 2005-10-0476 - 15  
 Sampled: 10/19/2005 14:27 Extracted: 10/27/2005 01:51  
 Matrix: Soil QC Batch#: 2005/10/26-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/27/2005 01:51	
Benzene	ND	0.0050	mg/Kg	1.00	10/27/2005 01:51	
Toluene	ND	0.0050	mg/Kg	1.00	10/27/2005 01:51	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/27/2005 01:51	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/27/2005 01:51	
tert-Butyl alcohol (TBA)	0.12	0.010	mg/Kg	1.00	10/27/2005 01:51	
Methyl tert-butyl ether (MTBE)	0.11	0.0050	mg/Kg	1.00	10/27/2005 01:51	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/27/2005 01:51	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/27/2005 01:51	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/27/2005 01:51	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	101.0	76-124	%	1.00	10/27/2005 01:51	
Toluene-d8	92.6	75-116	%	1.00	10/27/2005 01:51	

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

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Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-1-9.5</b>	Lab ID: 2005-10-0476 - 16
Sampled: 10/19/2005 14:34	Extracted: 10/26/2005 14:50
Matrix: Soil	QC Batch#: 2005/10/26-1B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/26/2005 14:50	
Benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 14:50	
Toluene	ND	0.0050	mg/Kg	1.00	10/26/2005 14:50	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 14:50	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/26/2005 14:50	
tert-Butyl alcohol (TBA)	0.025	0.010	mg/Kg	1.00	10/26/2005 14:50	
Methyl tert-butyl ether (MTBE)	0.096	0.0050	mg/Kg	1.00	10/26/2005 14:50	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/26/2005 14:50	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/26/2005 14:50	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/26/2005 14:50	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	99.2	76-124	%	1.00	10/26/2005 14:50	
Toluene-d8	92.9	75-116	%	1.00	10/26/2005 14:50	



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

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Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B Test(s): 8260B  
 Sample ID: SB-1-14.5 Lab ID: 2005-10-0476 - 17  
 Sampled: 10/19/2005 14:40 Extracted: 10/27/2005 02:54  
 Matrix: Soil QC Batch#: 2005/10/26-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/27/2005 02:54	
Benzene	ND	0.0050	mg/Kg	1.00	10/27/2005 02:54	
Toluene	ND	0.0050	mg/Kg	1.00	10/27/2005 02:54	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/27/2005 02:54	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/27/2005 02:54	
tert-Butyl alcohol (TBA)	0.026	0.010	mg/Kg	1.00	10/27/2005 02:54	
Methyl tert-butyl ether (MTBE)	0.071	0.0050	mg/Kg	1.00	10/27/2005 02:54	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/27/2005 02:54	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/27/2005 02:54	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/27/2005 02:54	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	104.8	76-124	%	1.00	10/27/2005 02:54	
Toluene-d8	92.2	75-116	%	1.00	10/27/2005 02:54	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>SB-1-19.5</b>	Lab ID:	2005-10-0476 - 18
Sampled:	10/19/2005 14:45	Extracted:	10/26/2005 15:33
Matrix:	Soil	QC Batch#:	2005/10/26-1B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/26/2005 15:33	
Benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 15:33	
Toluene	ND	0.0050	mg/Kg	1.00	10/26/2005 15:33	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 15:33	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/26/2005 15:33	
tert-Butyl alcohol (TBA)	0.38	0.010	mg/Kg	1.00	10/26/2005 15:33	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/26/2005 15:33	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/26/2005 15:33	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/26/2005 15:33	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/26/2005 15:33	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	100.6	76-124	%	1.00	10/26/2005 15:33	
Toluene-d8	94.0	75-116	%	1.00	10/26/2005 15:33	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

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Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>SB-1-24.5</b>	Lab ID:	2005-10-0476 - 19
Sampled:	10/19/2005 15:05	Extracted:	10/26/2005 15:12
Matrix:	Soil	QC Batch#:	2005/10/26-1B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/26/2005 15:12	
Benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 15:12	
Toluene	ND	0.0050	mg/Kg	1.00	10/26/2005 15:12	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 15:12	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/26/2005 15:12	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	10/26/2005 15:12	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/26/2005 15:12	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/26/2005 15:12	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/26/2005 15:12	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/26/2005 15:12	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	103.4	76-124	%	1.00	10/26/2005 15:12	
Toluene-d8	92.5	75-116	%	1.00	10/26/2005 15:12	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

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Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-1-W</b>	Lab ID: 2005-10-0476 - 20
Sampled: 10/19/2005 15:05	Extracted: 10/27/2005 03:09
Matrix: Water	QC Batch#: 2005/10/26-2A.71
pH: <2	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	10/27/2005 03:09	
Benzene	ND	0.50	ug/L	1.00	10/27/2005 03:09	
Toluene	ND	0.50	ug/L	1.00	10/27/2005 03:09	
Ethylbenzene	ND	0.50	ug/L	1.00	10/27/2005 03:09	
Total xylenes	ND	1.0	ug/L	1.00	10/27/2005 03:09	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	10/27/2005 03:09	
Methyl tert-butyl ether (MTBE)	19	0.50	ug/L	1.00	10/27/2005 03:09	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	10/27/2005 03:09	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	10/27/2005 03:09	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	10/27/2005 03:09	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	99.2	73-130	%	1.00	10/27/2005 03:09	
Toluene-d8	96.3	81-114	%	1.00	10/27/2005 03:09	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

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Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2005/10/26-1B.69-030

Soil

Test(s): 8260B

QC Batch # 2005/10/26-1B.69

Date Extracted: 10/26/2005 08:30

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	10/26/2005 08:30	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	10/26/2005 08:30	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	10/26/2005 08:30	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	10/26/2005 08:30	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	10/26/2005 08:30	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	10/26/2005 08:30	
Benzene	ND	0.0050	mg/Kg	10/26/2005 08:30	
Toluene	ND	0.0050	mg/Kg	10/26/2005 08:30	
Ethyl benzene	ND	0.0050	mg/Kg	10/26/2005 08:30	
Total xylenes	ND	0.0050	mg/Kg	10/26/2005 08:30	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	99.0	76-124	%	10/26/2005 08:30	
Toluene-d8	92.6	75-116	%	10/26/2005 08:30	

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

Cambria Environmental Emeryville

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Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2005/10/26-2A.71

MB: 2005/10/26-2A.71-004

Date Extracted: 10/26/2005 19:24

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	10/26/2005 19:24	
Benzene	ND	0.5	ug/L	10/26/2005 19:24	
Toluene	ND	0.5	ug/L	10/26/2005 19:24	
Ethylbenzene	ND	0.5	ug/L	10/26/2005 19:24	
Total xylenes	ND	1.0	ug/L	10/26/2005 19:24	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	10/26/2005 19:24	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/26/2005 19:24	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	10/26/2005 19:24	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	10/26/2005 19:24	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	10/26/2005 19:24	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	102.5	73-130	%	10/26/2005 19:24	
Toluene-d8	106.0	81-114	%	10/26/2005 19:24	

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

Cambria Environmental Emeryville

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Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Method Blank

Soil

QC Batch # 2005/10/26-2B.69

MB: 2005/10/26-2B.69-007

Date Extracted: 10/26/2005 19:07

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	10/26/2005 19:07	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	10/26/2005 19:07	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	10/26/2005 19:07	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	10/26/2005 19:07	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	10/26/2005 19:07	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	10/26/2005 19:07	
Benzene	ND	0.0050	mg/Kg	10/26/2005 19:07	
Toluene	ND	0.0050	mg/Kg	10/26/2005 19:07	
Ethyl benzene	ND	0.0050	mg/Kg	10/26/2005 19:07	
Total xylenes	ND	0.0050	mg/Kg	10/26/2005 19:07	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	97.6	76-124	%	10/26/2005 19:07	
Toluene-d8	91.4	75-116	%	10/26/2005 19:07	

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

Cambria Environmental Emeryville

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Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2005/10/27-1A.62**

MB: 2005/10/27-1A.62-045

Date Extracted: 10/27/2005 19:45

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	10/27/2005 19:45	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	10/27/2005 19:45	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	10/27/2005 19:45	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	10/27/2005 19:45	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	10/27/2005 19:45	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	10/27/2005 19:45	
Benzene	ND	0.0050	mg/Kg	10/27/2005 19:45	
Toluene	ND	0.0050	mg/Kg	10/27/2005 19:45	
Ethyl benzene	ND	0.0050	mg/Kg	10/27/2005 19:45	
Total xylenes	ND	0.0050	mg/Kg	10/27/2005 19:45	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	93.0	76-124	%	10/27/2005 19:45	
Toluene-d8	95.4	75-116	%	10/27/2005 19:45	



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

Cambria Environmental Emeryville

Attn.: David Gibbs

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Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2005/10/28-1A.62**

MB: 2005/10/28-1A.62-046

Date Extracted: 10/28/2005 08:46

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	10/28/2005 08:46	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	10/28/2005 08:46	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	10/28/2005 08:46	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	10/28/2005 08:46	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	10/28/2005 08:46	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	10/28/2005 08:46	
Benzene	ND	0.0050	mg/Kg	10/28/2005 08:46	
Toluene	ND	0.0050	mg/Kg	10/28/2005 08:46	
Ethyl benzene	ND	0.0050	mg/Kg	10/28/2005 08:46	
Total xylenes	ND	0.0050	mg/Kg	10/28/2005 08:46	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	91.0	76-124	%	10/28/2005 08:46	
Toluene-d8	97.8	75-116	%	10/28/2005 08:46	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

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Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Method Blank

Water

QC Batch # 2005/10/28-1A.64

MB: 2005/10/28-1A.64-028

Date Extracted: 10/28/2005 08:28

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	10/28/2005 08:28	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	10/28/2005 08:28	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/28/2005 08:28	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	10/28/2005 08:28	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	10/28/2005 08:28	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	10/28/2005 08:28	
Benzene	ND	0.5	ug/L	10/28/2005 08:28	
Toluene	ND	0.5	ug/L	10/28/2005 08:28	
Ethylbenzene	ND	0.5	ug/L	10/28/2005 08:28	
Total xylenes	ND	1.0	ug/L	10/28/2005 08:28	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	100.4	73-130	%	10/28/2005 08:28	
Toluene-d8	105.8	81-114	%	10/28/2005 08:28	

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

Cambria Environmental Emeryville

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Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Method Blank

Soil

QC Batch # 2005/10/29-1A.69

MB: 2005/10/29-1A.69-050

Date Extracted: 10/29/2005 11:50

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	10/29/2005 11:50	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	10/29/2005 11:50	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	10/29/2005 11:50	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	10/29/2005 11:50	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	10/29/2005 11:50	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	10/29/2005 11:50	
Benzene	ND	0.0050	mg/Kg	10/29/2005 11:50	
Toluene	ND	0.0050	mg/Kg	10/29/2005 11:50	
Ethyl benzene	ND	0.0050	mg/Kg	10/29/2005 11:50	
Total xylenes	ND	0.0050	mg/Kg	10/29/2005 11:50	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	100.8	76-124	%	10/29/2005 11:50	
Toluene-d8	92.0	75-116	%	10/29/2005 11:50	

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

Cambria Environmental Emeryville

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Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/10/26-1B.69**

LCS 2005/10/26-1B.69-009

Extracted: 10/26/2005

Analyzed: 10/26/2005 08:09

LCSD 2005/10/26-1B.69-051

Extracted: 10/26/2005

Analyzed: 10/26/2005 08:51

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	0.0518	0.0507	0.05	103.6	101.4	2.1	65-165	20		
Benzene	0.0453	0.0457	0.05	90.6	91.4	0.9	69-129	20		
Toluene	0.0482	0.0465	0.05	96.4	93.0	3.6	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	451	449	500	90.2	89.8		76-124			
Toluene-d8	486	471	500	97.2	94.2		75-116			

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

Cambria Environmental Emeryville

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Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/10/26-2A.71**

LCS 2005/10/26-2A.71-057

Extracted: 10/26/2005

Analyzed: 10/26/2005 18:57

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	24.5		25	98.0			65-165	20		
Benzene	26.7		25	106.8			69-129	20		
Toluene	25.7		25	102.8			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	484		500	96.8			73-130			
Toluene-d8	535		500	107.0			81-114			

Severn Trent Laboratories, Inc.

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

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

10/31/2005 14:02

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

Cambria Environmental Emeryville

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Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/10/26-2B.69**

LCS 2005/10/26-2B.69-044

Extracted: 10/26/2005

Analyzed: 10/26/2005 18:44

LCSD

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0565		0.05	113.0			65-165	20		
Benzene	0.0447		0.05	89.4			69-129	20		
Toluene	0.0454		0.05	90.8			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	459		500	91.8			76-124			
Toluene-d8	455		500	91.0			75-116			

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

Cambria Environmental Emeryville

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Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/10/27-1A.62**

LCS 2005/10/27-1A.62-019  
LCSD

Extracted: 10/27/2005

Analyzed: 10/27/2005 19:19

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0496		0.05	99.2			65-165	20		
Benzene	0.0571		0.05	114.2			69-129	20		
Toluene	0.0534		0.05	106.8			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	404		500	80.8			76-124			
Toluene-d8	502		500	100.4			75-116			

Severn Trent Laboratories, Inc.

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

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

10/31/2005 14:02

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A  
Emeryville, CA 94608  
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/10/28-1A.62**

LCS 2005/10/28-1A.62-019

Extracted: 10/28/2005

Analyzed: 10/28/2005 08:19

LCSD 2005/10/28-1A.62-012

Extracted: 10/28/2005

Analyzed: 10/28/2005 09:12

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0464	0.0472	0.05	92.8	94.4	1.7	65-165	20		
Benzene	0.0560	0.0544	0.05	112.0	108.8	2.9	69-129	20		
Toluene	0.0510	0.0502	0.05	102.0	100.4	1.6	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	423	412	500	84.6	82.4		76-124			
Toluene-d8	478	487	500	95.6	97.4		75-116			



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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A  
Emeryville, CA 94608  
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/10/28-1A.64**

LCS 2005/10/28-1A.64-007

Extracted: 10/28/2005

Analyzed: 10/28/2005 08:07

LCSD 2005/10/28-1A.64-050

Extracted: 10/28/2005

Analyzed: 10/28/2005 08:49

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	25.4	24.2	25	101.6	96.8	4.8	65-165	20		
Benzene	27.8	27.6	25	111.2	110.4	0.7	69-129	20		
Toluene	26.7	27.3	25	106.8	109.2	2.2	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	480	476	500	96.0	95.2		73-130			
Toluene-d8	528	544	500	105.6	108.8		81-114			

Severn Trent Laboratories, Inc.

10/31/2005 14:02

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

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

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A  
Emeryville, CA 94608  
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/10/29-1A.69**

LCS 2005/10/29-1A.69-051

Extracted: 10/29/2005

Analyzed: 10/29/2005 11:15

LCSD

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	0.0714		0.05	142.8			65-165	20		
Benzene	0.0471		0.05	94.2			69-129	20		
Toluene	0.0485		0.05	97.0			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	561		500	112.2			76-124			
Toluene-d8	472		500	94.4			75-116			

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A  
Emeryville, CA 94608  
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Soil**

**QC Batch # 2005/10/26-1B.69**

MS/MSD

Lab ID: 2005-10-0500 - 001

MS: 2005/10/26-1B.69-018

Extracted: 10/26/2005

Analyzed: 10/26/2005 11:18

Dilution: 1.00

MSD: 2005/10/26-1B.69-039

Extracted: 10/26/2005

Analyzed: 10/26/2005 11:39

Dilution: 1.00

Sample / Analysis Flag(s): MS: N1MSD: N1 ( See Legend and Note Section )

Compound	Conc. mg/Kg		Spk.Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	0.0720	0.0714	ND	0.049309	146.0	143.1	2.0	65-165	20		
Benzene	0.0485	0.0488	ND	0.049309	98.4	97.8	0.6	69-129	20		
Toluene	0.0409	0.0419	ND	0.049309	82.9	84.0	1.3	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	553	546		500	110.6	109.2		76-124			
Toluene-d8	442	451		500	88.4	90.2		75-116			

Severn Trent Laboratories, Inc.

10/31/2005 14:02

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

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

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A  
Emeryville, CA 94608  
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/10/26-2A.71**

MS/MSD

Lab ID: 2005-10-0484 - 003

MS: 2005/10/26-2A.71-048

Extracted: 10/26/2005

Analyzed: 10/26/2005 21:48

Dilution: 50.00

MSD: 2005/10/26-2A.71-015

Extracted: 10/26/2005

Analyzed: 10/26/2005 22:15

Dilution: 50.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	1140	1210	45	1250	87.6	93.2	6.2	65-165	20		
Benzene	1180	1240	1.73	1250	94.3	99.1	5.0	69-129	20		
Toluene	1130	1190	ND	1250	90.4	95.2	5.2	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	459	465		500	91.8	93.0		73-130			
Toluene-d8	518	503		500	103.6	100.6		81-114			

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

Cambria Environmental Emeryville  
Attn.: David Gibbs

5900 Hollis Street, Ste. A  
Emeryville, CA 94608  
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Soil**

**QC Batch # 2005/10/26-2B.69**

SB-3-24.5 >> MS

Lab ID: 2005-10-0476 - 006

MS: 2005/10/26-2B.69-005

Extracted: 10/27/2005

Analyzed: 10/27/2005 00:05

Dilution: 1.00

MSD: 2005/10/26-2B.69-026

Extracted: 10/27/2005

Analyzed: 10/27/2005 00:26

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0573	0.0553	ND	0.047709	120.1	110.6	8.2	65-165	20		
Benzene	0.0461	0.0422	ND	0.047709	96.6	84.4	13.5	69-129	20		
Toluene	0.0463	0.0438	ND	0.047709	97.0	87.6	10.2	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	463	471		500	92.6	94.2		76-124			
Toluene-d8	457	457		500	91.4	91.4		75-116			

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A  
Emeryville, CA 94608  
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Soil**

**QC Batch # 2005/10/27-1A.62**

MS/MSD

Lab ID: 2005-10-0490 - 003

MS: 2005/10/27-1A.62-044

Extracted: 10/27/2005

Analyzed: 10/27/2005 20:44

Dilution: 1.00

MSD: 2005/10/27-1A.62-010

Extracted: 10/27/2005

Analyzed: 10/27/2005 21:10

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0655	0.0565	0.0208	0.049019	91.2	72.7	22.6	65-165	20		R1
Benzene	0.0540	0.0481	ND	0.049019	110.2	97.9	11.8	69-129	20		
Toluene	0.0520	0.0463	ND	0.049019	106.1	94.3	11.8	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	438	431		500	87.6	86.2		76-124			
Toluene-d8	507	511		500	101.4	102.2		75-116			

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

Cambria Environmental Emeryville

Attn.: David Gibbs

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Emeryville, CA 94608  
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Soil**

**QC Batch # 2005/10/28-1A.62**

MS/MSD

Lab ID: 2005-10-0490 - 005

MS: 2005/10/28-1A.62-017

Extracted: 10/28/2005

Analyzed: 10/28/2005 10:17

Dilution: 1.00

MSD: 2005/10/28-1A.62-043

Extracted: 10/28/2005

Analyzed: 10/28/2005 10:43

Dilution: 1.00

Compound	Conc. mg/Kg		Spk.Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	0.0422	0.0432	ND	0.049309	85.6	88.1	2.9	65-165	20		
Benzene	0.0490	0.0507	ND	0.049309	99.4	103.4	3.9	69-129	20		
Toluene	0.0438	0.0452	ND	0.049309	88.8	92.2	3.8	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	418	401		500	83.6	80.2		76-124			
Toluene-d8	480	481		500	96.0	96.2		75-116			

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/10/28-1A.64**

MS/MSD

Lab ID: 2005-10-0549 - 001

MS: 2005/10/28-1A.64-049

Extracted: 10/28/2005

Analyzed: 10/28/2005 11:49

Dilution: 1.00

MSD: 2005/10/28-1A.64-010

Extracted: 10/28/2005

Analyzed: 10/28/2005 12:10

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	31.1	31.5	6.94	25	96.6	98.2	1.6	65-165	20		
Benzene	25.2	26.1	ND	25	100.8	104.4	3.5	69-129	20		
Toluene	24.8	25.0	ND	25	99.2	100.0	0.8	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	509	509		500	101.8	101.8		73-130			
Toluene-d8	529	538		500	105.8	107.6		81-114			



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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A  
Emeryville, CA 94608  
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Soil**

**QC Batch # 2005/10/29-1A.69**

MS/MSD

Lab ID: 1998-09-0003 - 001

MS: 2005/10/29-1A.69-022

Extracted: 10/29/2005

Analyzed: 10/29/2005 12:22

Dilution: 1.00

MSD: 2005/10/29-1A.69-044

Extracted: 10/29/2005

Analyzed: 10/29/2005 12:44

Dilution: 1.00

Compound	Conc. mg/Kg		Spk.Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	0.0582	0.0466	ND	0.047081	123.6	97.9	23.2	65-165	20		R1
Benzene	0.0445	0.0370	ND	0.047081	94.5	77.7	19.5	69-129	20		
Toluene	0.0432	0.0349	ND	0.047081	91.8	73.3	22.4	70-130	20		R1
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	494	480		500	98.8	96.0		76-124			
Toluene-d8	452	453		500	90.4	90.6		75-116			

Severn Trent Laboratories, Inc.

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

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

10/31/2005 14:02

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

---

**Legend and Notes**

---

**Analysis Flag**

L2

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

N1

Internal standard out of range.

**Result Flag**

R1

Analyte RPD was out of QC limits.

78492

1220 Quarry Lane  
Pleasanton, CA 94566

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

Shell Project Manager to be invoiced:

SCIENCE & ENGINEERING  
 TECHNICAL SERVICES  
 CRMT, HOUSTON

Denis Brown

2005-10-0476

INCIDENT NUMBER (S&E ONLY)

9 7 6 0 1 7 3 4

SAP or CRMT NUMBER (TS/CRMT)

DATE: OCT 19, 2005

PAGE: 1 of 2

SAMPLING COMPANY: CAMBRIA ENVIRONMENTAL TECHNOLOGY INC  
ADDRESS: 5900 HOLLIS ST, Suite A, Emeryville, CA 94608  
PROJECT CONTACT (Name, title or PDF Report ID): David Gibbs  
TELEPHONE: (510) 420-3363 FAX: (510) 420-9170 E-MAIL: dgibbs@cambria-env.com

SITE ADDRESS (Street and City): 510 E. 14th Street, Oakland, CA  
GLOBAL ID NO.: T0600112421  
E-MAIL: shelloaklandedf@cambria-env.com  
CONSULTANT PROJECT NO.: 247-0898-006

Sampled by: R. Barone

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

LA - RWQCB REPORT FORMAT  UST AGENCY:

GC/MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

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

cc lab report: rbarone@cambria-env.com

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE	IBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TOLP	LUT5 <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TOLP	CAMP7 <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TOLP	Test for Disposal (see attached)	FIELD NOTES: Container/Reservative or PID Readings or Laboratory Notes 40 ML vials NON ICE TEMPERATURE ON RECEIPT 4°C	
		DATE	TIME																			
1	SB-3-5.0	10/19	800	SO	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	SB-3-9.5	10/19	805	SO	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	SB-3-11.5		815	SO	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
4	SB-3-14.5		810	SO	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5	SB-3-19.5		820	SO	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6	SB-3-24.5		829	SO	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
7	SB-3-W1		825	W	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	HCl
8	SB-3-29.5		850	SO	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
9	SB-7-W1		950	W	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	HCl
10	SB-7-5.0		1000	SO	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Transported by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 10/19/2005	Time: 1700
Transported by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 10/20/05	Time: 1128
Transported by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 10/20/05	Time: 1745

1220 Quarry Lane  
Pleasanton, CA 94566  
(925) 484-1919 (925) 484-1096 fax

Shell Project Manager to be invoiced:  
 SCIENCE & ENGINEERING Denis Brown  
 TECHNICAL SERVICES  
 CRMT HOUSTON  
**2005-10-0476**

INCIDENT NUMBER (S&E ONLY)  
 9 7 6 0 1 7 3 4  
 DATE: OCT 19 2005  
 PAGE: 2 of 2  
 SAP of CRMT NUMBER (TS/CRMT)

SAMPLING COMPANY: CAMBRIA ENVIRONMENTAL TECHNOLOGY INC  
 LOG CODE:  
 SITE ADDRESS (Street and City): 510 E. 14th Street, Oakland, CA  
 GLOBAL ID NO.: T0600112421  
 ADDRESS: 5900 HOLLIS ST, Suite A, Emeryville, CA 94608  
 E-MAIL: shelloaklandedf@cambria-env.com  
 CONSULTANT PROJECT NO.: 247-0898-006  
 PRODUCT CONTACT (Photocopy or PDF Report to):  
 David Gibbs  
 TELEPHONE: (510) 420-3363 FAX: (510) 420-9170 E-MAIL: dgibbs@cambria-env.com  
 Sampled by: R. Barone  
 LAB USE ONLY:

TURNAROUND TIME (BUSINESS DAYS):  
 10 DAYS  5 DAYS  72 HOURS  48 HOURS  24 HOURS  LESS THAN 24 HOURS  
 LA - RWQCB REPORT FORMAT  UST AGENCY:  
 GC-MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_  
 SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED   
 cc lab report: rbarone@cambria-env.com

REQUESTED ANALYSIS

TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead <input type="checkbox"/> Total <input type="checkbox"/> SILC <input type="checkbox"/> TCLP	LUFTS <input type="checkbox"/> Total <input type="checkbox"/> SILC <input type="checkbox"/> TCLP	CAM17 <input type="checkbox"/> Total <input type="checkbox"/> SILC <input type="checkbox"/> TCLP	Test for Disposal (see attached)	FIELD NOTES: Contain (Preservative or PID Readings or Laboratory Notes) 40 ml Vials ON ICE TEMPERATURE ON RECEIPT: 4°C
-----------------	---------------------------	------	------	-----------------	---------	----------	---------------	-------------------------	---	--	--	----------------------------------	--

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead <input type="checkbox"/> Total <input type="checkbox"/> SILC <input type="checkbox"/> TCLP	LUFTS <input type="checkbox"/> Total <input type="checkbox"/> SILC <input type="checkbox"/> TCLP	CAM17 <input type="checkbox"/> Total <input type="checkbox"/> SILC <input type="checkbox"/> TCLP	Test for Disposal (see attached)	FIELD NOTES: Contain (Preservative or PID Readings or Laboratory Notes) 40 ml Vials ON ICE TEMPERATURE ON RECEIPT: 4°C	
		DATE	TIME																	
11	SB-7-10.0	10/19	105	SO	1	X	X	X	X	X										
12	SB-7-14.5	10/19	1120	SO	1	X	X	X	X	X										
13	SB-7-19.5	10/19	1145	SO	1	X	X	X	X	X										
14	SB-7-24.0	10/19	1210	SO	1	X	X	X	X	X										
15	SB-1-5.0	10/19	1427	SO	1	X	X	X	X	X										
16	SB-1-9.5	10/19	1431	SO	1	X	X	X	X	X										
17	SB-1-14.5	10/19	1440	SO	1	X	X	X	X	X										
18	SB-1-19.5	10/19	1448	SO	1	X	X	X	X	X										
19	SB-1-24.5	10/19	1505	SO	1	X	X	X	X	X										
20	SB-1-W	10/19	1535	W	5	X	X	X	X	X										HCl

Field Requested by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 10/19/2005	Time: 17:00
Field Requested by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 10/20/05	Time: 17:28
Field Requested by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 10/20/05	Time: 17:45

**Cambria Environmental Emeryville**

November 02, 2005

5900 Hollis Street, Ste. A  
Emeryville, CA 94608

Attn.: David Gibbs

Project#: 247-0898-006

Project: 97601734

Site: 510 E. 14th Street, Oakland, CA

Attached is our report for your samples received on 10/19/2005 11:29

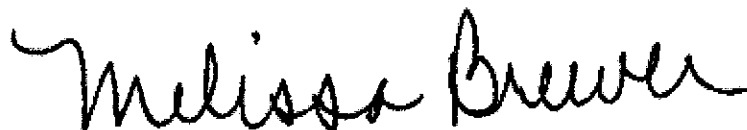
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 12/03/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: [mbrewer@stl-inc.com](mailto:mbrewer@stl-inc.com)

Sincerely,



Melissa Brewer  
Project Manager

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* [www.stl-inc.com](http://www.stl-inc.com) \* CA DHS ELAP# 2496

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SB-2-5.0	10/18/2005 08:00	Soil	1
SB-2-10.0	10/18/2005 08:20	Soil	2
SB-2-14.5	10/18/2005 08:25	Soil	3
SB-2-19.5	10/18/2005 08:35	Soil	4
SB-2-24.5	10/18/2005 08:40	Soil	5
SB-6-9.5	10/18/2005 09:46	Soil	7
SB-6-14.5	10/18/2005 09:56	Soil	8
SB-6-19.5	10/18/2005 10:02	Soil	9
SB-6-24.5	10/18/2005 10:10	Soil	10
SB-5-5.0	10/18/2005 12:45	Soil	14
SB-5-9.5	10/18/2005 12:55	Soil	15
SB-5-14.5	10/18/2005 13:00	Soil	16
SB-5-19.5	10/18/2005 13:10	Soil	17
SB-5-24.5	10/18/2005 13:40	Soil	19
SB-4-5.0	10/18/2005 15:00	Soil	20
SB-4-9.5	10/18/2005 15:10	Soil	21
SB-4-14.5	10/18/2005 15:20	Soil	22
SB-4-19.5	10/18/2005 15:30	Soil	23
SB-4-23.5	10/18/2005 15:40	Soil	24

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A  
Emeryville, CA 94608  
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-2-5.0</b>	Lab ID: 2005-10-0453 - 1
Sampled: 10/18/2005 08:00	Extracted: 10/24/2005 16:42
Matrix: Soil	QC Batch#: 2005/10/24-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/24/2005 16:42	
Benzene	ND	0.0050	mg/Kg	1.00	10/24/2005 16:42	
Toluene	ND	0.0050	mg/Kg	1.00	10/24/2005 16:42	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/24/2005 16:42	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/24/2005 16:42	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	10/24/2005 16:42	
Methyl tert-butyl ether (MTBE)	0.017	0.0050	mg/Kg	1.00	10/24/2005 16:42	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/24/2005 16:42	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/24/2005 16:42	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/24/2005 16:42	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	88.8	76-124	%	1.00	10/24/2005 16:42	
Toluene-d8	94.7	75-116	%	1.00	10/24/2005 16:42	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>SB-2-10.0</b>	Lab ID:	2005-10-0453 - 2
Sampled:	10/18/2005 08:20	Extracted:	10/31/2005 15:46
Matrix:	Soil	QC Batch#:	2005/10/31-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/31/2005 15:46	
Benzene	ND	0.0050	mg/Kg	1.00	10/31/2005 15:46	
Toluene	ND	0.0050	mg/Kg	1.00	10/31/2005 15:46	
Ethyl-benzene	ND	0.0050	mg/Kg	1.00	10/31/2005 15:46	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/31/2005 15:46	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	10/31/2005 15:46	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/31/2005 15:46	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/31/2005 15:46	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/31/2005 15:46	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/31/2005 15:46	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	90.9	76-124	%	1.00	10/31/2005 15:46	
Toluene-d8	99.4	75-116	%	1.00	10/31/2005 15:46	





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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>SB-2-19.5</b>	Lab ID:	2005-10-0453 - 4
Sampled:	10/18/2005 08:35	Extracted:	10/25/2005 22:06
Matrix:	Soil	QC Batch#:	2005/10/25-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/25/2005 22:06	
Benzene	ND	0.0050	mg/Kg	1.00	10/25/2005 22:06	
Toluene	ND	0.0050	mg/Kg	1.00	10/25/2005 22:06	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/25/2005 22:06	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/25/2005 22:06	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	10/25/2005 22:06	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/25/2005 22:06	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/25/2005 22:06	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/25/2005 22:06	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/25/2005 22:06	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	92.9	76-124	%	1.00	10/25/2005 22:06	
Toluene-d8	93.9	75-116	%	1.00	10/25/2005 22:06	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B Test(s): 8260B  
 Sample ID: SB-2-24.5 Lab ID: 2005-10-0453 - 5  
 Sampled: 10/18/2005 08:40 Extracted: 10/24/2005 11:28  
 Matrix: Soil QC Batch#: 2005/10/24-1A.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/24/2005 11:28	
Benzene	ND	0.0050	mg/Kg	1.00	10/24/2005 11:28	
Toluene	ND	0.0050	mg/Kg	1.00	10/24/2005 11:28	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/24/2005 11:28	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/24/2005 11:28	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	10/24/2005 11:28	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/24/2005 11:28	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/24/2005 11:28	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/24/2005 11:28	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/24/2005 11:28	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	76.3	76-124	%	1.00	10/24/2005 11:28	
Toluene-d8	94.9	75-116	%	1.00	10/24/2005 11:28	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s):	5030B	Test(s):	8260B
Sample ID:	<b>SB-6-9.5</b>	Lab ID:	2005-10-0453 - 7
Sampled:	10/18/2005 09:46	Extracted:	10/25/2005 19:54
Matrix:	Soil	QC Batch#:	2005/10/25-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/25/2005 19:54	
Benzene	ND	0.0050	mg/Kg	1.00	10/25/2005 19:54	
Toluene	ND	0.0050	mg/Kg	1.00	10/25/2005 19:54	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/25/2005 19:54	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/25/2005 19:54	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	10/25/2005 19:54	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/25/2005 19:54	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/25/2005 19:54	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/25/2005 19:54	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/25/2005 19:54	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	89.2	76-124	%	1.00	10/25/2005 19:54	
Toluene-d8	98.6	75-116	%	1.00	10/25/2005 19:54	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B Test(s): 8260B  
 Sample ID: **SB-6-14.5** Lab ID: 2005-10-0453 - 8  
 Sampled: 10/18/2005 09:56 Extracted: 10/26/2005 09:53  
 Matrix: Soil QC Batch#: 2005/10/26-1B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/26/2005 09:53	
Benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 09:53	
Toluene	ND	0.0050	mg/Kg	1.00	10/26/2005 09:53	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 09:53	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/26/2005 09:53	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	10/26/2005 09:53	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/26/2005 09:53	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/26/2005 09:53	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/26/2005 09:53	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/26/2005 09:53	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	107.7	76-124	%	1.00	10/26/2005 09:53	
Toluene-d8	96.6	75-116	%	1.00	10/26/2005 09:53	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-6-19.5</b>	Lab ID: 2005-10-0453 - 9
Sampled: 10/18/2005 10:02	Extracted: 10/25/2005 20:20
Matrix: Soil	QC Batch#: 2005/10/25-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/25/2005 20:20	
Benzene	ND	0.0050	mg/Kg	1.00	10/25/2005 20:20	
Toluene	ND	0.0050	mg/Kg	1.00	10/25/2005 20:20	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/25/2005 20:20	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/25/2005 20:20	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	10/25/2005 20:20	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/25/2005 20:20	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/25/2005 20:20	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/25/2005 20:20	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/25/2005 20:20	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	87.0	76-124	%	1.00	10/25/2005 20:20	
Toluene-d8	93.7	75-116	%	1.00	10/25/2005 20:20	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B Test(s): 8260B  
 Sample ID: **SB-6-24.5** Lab ID: 2005-10-0453 - 10  
 Sampled: 10/18/2005 10:10 Extracted: 10/25/2005 21:13  
 Matrix: Soil QC Batch#: 2005/10/25-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/25/2005 21:13	
Benzene	ND	0.0050	mg/Kg	1.00	10/25/2005 21:13	
Toluene	ND	0.0050	mg/Kg	1.00	10/25/2005 21:13	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/25/2005 21:13	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/25/2005 21:13	
tert-Butyl alcohol (TBA)	0.024	0.010	mg/Kg	1.00	10/25/2005 21:13	
Methyl tert-butyl ether (MTBE)	0.16	0.0050	mg/Kg	1.00	10/25/2005 21:13	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/25/2005 21:13	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/25/2005 21:13	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/25/2005 21:13	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	91.0	76-124	%	1.00	10/25/2005 21:13	
Toluene-d8	95.8	75-116	%	1.00	10/25/2005 21:13	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A  
Emeryville, CA 94608  
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-5-5.0</b>	Lab ID: 2005-10-0453 - 14
Sampled: 10/18/2005 12:45	Extracted: 10/25/2005 11:20
Matrix: Soil	QC Batch#: 2005/10/25-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/25/2005 11:20	
Benzene	ND	0.0050	mg/Kg	1.00	10/25/2005 11:20	
Toluene	ND	0.0050	mg/Kg	1.00	10/25/2005 11:20	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/25/2005 11:20	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/25/2005 11:20	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	10/25/2005 11:20	
Methyl tert-butyl ether (MTBE)	0.0054	0.0050	mg/Kg	1.00	10/25/2005 11:20	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/25/2005 11:20	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/25/2005 11:20	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/25/2005 11:20	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	80.5	76-124	%	1.00	10/25/2005 11:20	
Toluene-d8	95.8	75-116	%	1.00	10/25/2005 11:20	



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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A  
Emeryville, CA 94608  
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-5-9.5</b>	Lab ID: 2005-10-0453 - 15
Sampled: 10/18/2005 12:55	Extracted: 10/26/2005 16:57
Matrix: Soil	QC Batch#: 2005/10/26-1B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/26/2005 16:57	
Benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 16:57	
Toluene	ND	0.0050	mg/Kg	1.00	10/26/2005 16:57	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 16:57	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/26/2005 16:57	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	10/26/2005 16:57	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/26/2005 16:57	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/26/2005 16:57	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/26/2005 16:57	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/26/2005 16:57	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	95.2	76-124	%	1.00	10/26/2005 16:57	
Toluene-d8	93.3	75-116	%	1.00	10/26/2005 16:57	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-5-14.5</b>	Lab ID: 2005-10-0453 - 16
Sampled: 10/18/2005 13:00	Extracted: 10/26/2005 23:23
Matrix: Soil	QC Batch#: 2005/10/26-2B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/26/2005 23:23	
Benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 23:23	
Toluene	ND	0.0050	mg/Kg	1.00	10/26/2005 23:23	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 23:23	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/26/2005 23:23	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	10/26/2005 23:23	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/26/2005 23:23	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/26/2005 23:23	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/26/2005 23:23	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/26/2005 23:23	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	102.7	76-124	%	1.00	10/26/2005 23:23	
Toluene-d8	91.0	75-116	%	1.00	10/26/2005 23:23	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

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Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-5-19.5</b>	Lab ID: 2005-10-0453 - 17
Sampled: 10/18/2005 13:10	Extracted: 10/26/2005 10:14
Matrix: Soil	QC Batch#: 2005/10/26-1B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/26/2005 10:14	
Benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 10:14	
Toluene	ND	0.0050	mg/Kg	1.00	10/26/2005 10:14	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 10:14	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/26/2005 10:14	
tert-Butyl alcohol (TBA)	0.031	0.010	mg/Kg	1.00	10/26/2005 10:14	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/26/2005 10:14	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/26/2005 10:14	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/26/2005 10:14	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/26/2005 10:14	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	103.6	76-124	%	1.00	10/26/2005 10:14	
Toluene-d8	96.0	75-116	%	1.00	10/26/2005 10:14	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

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Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-5-24.5</b>	Lab ID: 2005-10-0453 - 19
Sampled: 10/18/2005 13:40	Extracted: 10/25/2005 21:39
Matrix: Soil	QC Batch#: 2005/10/25-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/25/2005 21:39	
Benzene	ND	0.0050	mg/Kg	1.00	10/25/2005 21:39	
Toluene	ND	0.0050	mg/Kg	1.00	10/25/2005 21:39	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/25/2005 21:39	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/25/2005 21:39	
tert-Butyl alcohol (TBA)	0.15	0.010	mg/Kg	1.00	10/25/2005 21:39	
Methyl tert-butyl ether (MTBE)	0.063	0.0050	mg/Kg	1.00	10/25/2005 21:39	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/25/2005 21:39	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/25/2005 21:39	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/25/2005 21:39	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	87.0	76-124	%	1.00	10/25/2005 21:39	
Toluene-d8	94.9	75-116	%	1.00	10/25/2005 21:39	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

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Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-4-5.0</b>	Lab ID: 2005-10-0453 - 20
Sampled: 10/18/2005 15:00	Extracted: 10/25/2005 16:17
Matrix: Soil	QC Batch#: 2005/10/25-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/25/2005 16:17	
Benzene	ND	0.0050	mg/Kg	1.00	10/25/2005 16:17	
Toluene	ND	0.0050	mg/Kg	1.00	10/25/2005 16:17	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/25/2005 16:17	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/25/2005 16:17	
tert-Butyl alcohol (TBA)	0.19	0.010	mg/Kg	1.00	10/25/2005 16:17	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/25/2005 16:17	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/25/2005 16:17	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/25/2005 16:17	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/25/2005 16:17	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	86.6	76-124	%	1.00	10/25/2005 16:17	
Toluene-d8	97.2	75-116	%	1.00	10/25/2005 16:17	

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

Cambria Environmental Emeryville

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Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-4-9.5</b>	Lab ID: 2005-10-0453 - 21
Sampled: 10/18/2005 15:10	Extracted: 10/26/2005 10:35
Matrix: Soil	QC Batch#: 2005/10/26-1B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/26/2005 10:35	
Benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 10:35	
Toluene	ND	0.0050	mg/Kg	1.00	10/26/2005 10:35	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 10:35	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/26/2005 10:35	
tert-Butyl alcohol (TBA)	0.26	0.010	mg/Kg	1.00	10/26/2005 10:35	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/26/2005 10:35	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/26/2005 10:35	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/26/2005 10:35	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/26/2005 10:35	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	108.5	76-124	%	1.00	10/26/2005 10:35	
Toluene-d8	96.9	75-116	%	1.00	10/26/2005 10:35	

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

Cambria Environmental Emeryville

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Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B Test(s): 8260B  
Sample ID: **SB-4-14.5** Lab ID: 2005-10-0453 - 22  
Sampled: 10/18/2005 15:20 Extracted: 10/26/2005 15:54  
Matrix: Soil QC Batch#: 2005/10/26-1B.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/26/2005 15:54	
Benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 15:54	
Toluene	ND	0.0050	mg/Kg	1.00	10/26/2005 15:54	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/26/2005 15:54	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/26/2005 15:54	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	10/26/2005 15:54	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/26/2005 15:54	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/26/2005 15:54	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/26/2005 15:54	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/26/2005 15:54	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	96.5	76-124	%	1.00	10/26/2005 15:54	
Toluene-d8	92.7	75-116	%	1.00	10/26/2005 15:54	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

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Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B Test(s): 8260B  
 Sample ID: **SB-4-19.5** Lab ID: 2005-10-0453 - 23  
 Sampled: 10/18/2005 15:30 Extracted: 10/28/2005 12:02  
 Matrix: Soil QC Batch#: 2005/10/28-1A.62  
 Analysis Flag: L2 ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	5.0	mg/Kg	4.95	10/28/2005 12:02	
Benzene	ND	0.025	mg/Kg	4.95	10/28/2005 12:02	
Toluene	ND	0.025	mg/Kg	4.95	10/28/2005 12:02	
Ethyl benzene	ND	0.025	mg/Kg	4.95	10/28/2005 12:02	
Total xylenes	ND	0.025	mg/Kg	4.95	10/28/2005 12:02	
tert-Butyl alcohol (TBA)	2.7	0.050	mg/Kg	4.95	10/28/2005 12:02	
Methyl tert-butyl ether (MTBE)	0.18	0.025	mg/Kg	4.95	10/28/2005 12:02	
Di-isopropyl Ether (DIPE)	ND	0.050	mg/Kg	4.95	10/28/2005 12:02	
Ethyl tert-butyl ether (ETBE)	ND	0.025	mg/Kg	4.95	10/28/2005 12:02	
tert-Amyl methyl ether (TAME)	ND	0.025	mg/Kg	4.95	10/28/2005 12:02	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	90.8	76-124	%	4.95	10/28/2005 12:02	
Toluene-d8	99.8	75-116	%	4.95	10/28/2005 12:02	



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

Cambria Environmental Emeryville  
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Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-4-23.5</b>	Lab ID: 2005-10-0453 - 24
Sampled: 10/18/2005 15:40	Extracted: 10/25/2005 20:47
Matrix: Soil	QC Batch#: 2005/10/25-1B.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	1.00	10/25/2005 20:47	
Benzene	ND	0.0050	mg/Kg	1.00	10/25/2005 20:47	
Toluene	ND	0.0050	mg/Kg	1.00	10/25/2005 20:47	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/25/2005 20:47	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/25/2005 20:47	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	1.00	10/25/2005 20:47	
Methyl tert-butyl ether (MTBE)	0.016	0.0050	mg/Kg	1.00	10/25/2005 20:47	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	1.00	10/25/2005 20:47	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	1.00	10/25/2005 20:47	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	1.00	10/25/2005 20:47	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	87.8	76-124	%	1.00	10/25/2005 20:47	
Toluene-d8	94.2	75-116	%	1.00	10/25/2005 20:47	

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

Cambria Environmental Emeryville

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Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Method Blank

Soil

QC Batch # 2005/10/24-1A.62

MB: 2005/10/24-1A.62-059

Date Extracted: 10/24/2005 09:59

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	10/24/2005 09:59	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	10/24/2005 09:59	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	10/24/2005 09:59	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	10/24/2005 09:59	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	10/24/2005 09:59	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	10/24/2005 09:59	
Benzene	ND	0.0050	mg/Kg	10/24/2005 09:59	
Toluene	ND	0.0050	mg/Kg	10/24/2005 09:59	
Ethyl benzene	ND	0.0050	mg/Kg	10/24/2005 09:59	
Total xylenes	ND	0.0050	mg/Kg	10/24/2005 09:59	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	89.2	76-124	%	10/24/2005 09:59	
Toluene-d8	94.4	75-116	%	10/24/2005 09:59	

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

Cambria Environmental Emeryville

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Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2005/10/25-1B.62**

MB: 2005/10/25-1B.62-047

Date Extracted: 10/25/2005 08:47

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	10/25/2005 08:47	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	10/25/2005 08:47	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	10/25/2005 08:47	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	10/25/2005 08:47	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	10/25/2005 08:47	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	10/25/2005 08:47	
Benzene	ND	0.0050	mg/Kg	10/25/2005 08:47	
Toluene	ND	0.0050	mg/Kg	10/25/2005 08:47	
Ethyl benzene	ND	0.0050	mg/Kg	10/25/2005 08:47	
Total xylenes	ND	0.0050	mg/Kg	10/25/2005 08:47	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	86.4	76-124	%	10/25/2005 08:47	
Toluene-d8	96.0	75-116	%	10/25/2005 08:47	

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

Cambria Environmental Emeryville

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Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Soil**

**QC Batch # 2005/10/26-1B.69**

MB: 2005/10/26-1B.69-030

Date Extracted: 10/26/2005 08:30

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	10/26/2005 08:30	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	10/26/2005 08:30	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	10/26/2005 08:30	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	10/26/2005 08:30	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	10/26/2005 08:30	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	10/26/2005 08:30	
Benzene	ND	0.0050	mg/Kg	10/26/2005 08:30	
Toluene	ND	0.0050	mg/Kg	10/26/2005 08:30	
Ethyl benzene	ND	0.0050	mg/Kg	10/26/2005 08:30	
Total xylenes	ND	0.0050	mg/Kg	10/26/2005 08:30	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	99.0	76-124	%	10/26/2005 08:30	
Toluene-d8	92.6	75-116	%	10/26/2005 08:30	

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

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Project: 247-0898-006

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Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Method Blank

Soil

QC Batch # 2005/10/26-2B.69

MB: 2005/10/26-2B.69-007

Date Extracted: 10/26/2005 19:07

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	10/26/2005 19:07	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	10/26/2005 19:07	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	10/26/2005 19:07	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	10/26/2005 19:07	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	10/26/2005 19:07	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	10/26/2005 19:07	
Benzene	ND	0.0050	mg/Kg	10/26/2005 19:07	
Toluene	ND	0.0050	mg/Kg	10/26/2005 19:07	
Ethyl benzene	ND	0.0050	mg/Kg	10/26/2005 19:07	
Total xylenes	ND	0.0050	mg/Kg	10/26/2005 19:07	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	97.6	76-124	%	10/26/2005 19:07	
Toluene-d8	91.4	75-116	%	10/26/2005 19:07	

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

Cambria Environmental Emeryville

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Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Method Blank

Soil

QC Batch # 2005/10/28-1A.62

MB: 2005/10/28-1A.62-046

Date Extracted: 10/28/2005 08:46

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	10/28/2005 08:46	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	10/28/2005 08:46	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	10/28/2005 08:46	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	10/28/2005 08:46	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	10/28/2005 08:46	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	10/28/2005 08:46	
Benzene	ND	0.0050	mg/Kg	10/28/2005 08:46	
Toluene	ND	0.0050	mg/Kg	10/28/2005 08:46	
Ethyl benzene	ND	0.0050	mg/Kg	10/28/2005 08:46	
Total xylenes	ND	0.0050	mg/Kg	10/28/2005 08:46	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	91.0	76-124	%	10/28/2005 08:46	
Toluene-d8	97.8	75-116	%	10/28/2005 08:46	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

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Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

**Method Blank**

MB: 2005/10/31-1A.62-008

**Soil**

Test(s): 8260B

**QC Batch # 2005/10/31-1A.62**

Date Extracted: 10/31/2005 09:08

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	10/31/2005 09:08	
tert-Butyl alcohol (TBA)	ND	0.010	mg/Kg	10/31/2005 09:08	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	10/31/2005 09:08	
Di-isopropyl Ether (DIPE)	ND	0.010	mg/Kg	10/31/2005 09:08	
Ethyl tert-butyl ether (ETBE)	ND	0.0050	mg/Kg	10/31/2005 09:08	
tert-Amyl methyl ether (TAME)	ND	0.0050	mg/Kg	10/31/2005 09:08	
Benzene	ND	0.0050	mg/Kg	10/31/2005 09:08	
Toluene	ND	0.0050	mg/Kg	10/31/2005 09:08	
Ethyl benzene	ND	0.0050	mg/Kg	10/31/2005 09:08	
Total xylenes	ND	0.0050	mg/Kg	10/31/2005 09:08	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	95.8	76-124	%	10/31/2005 09:08	
Toluene-d8	95.0	75-116	%	10/31/2005 09:08	

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

Cambria Environmental Emeryville

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Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/10/24-1A.62**

LCS 2005/10/24-1A.62-033  
LCSD

Extracted: 10/24/2005

Analyzed: 10/24/2005 09:33

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	0.0440		0.05	88.0			65-165	20		
Benzene	0.0458		0.05	91.6			69-129	20		
Toluene	0.0450		0.05	90.0			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	417		500	83.4			76-124			
Toluene-d8	471		500	94.2			75-116			



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

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Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/10/25-1B.62**

LCS 2005/10/25-1B.62-020

Extracted: 10/25/2005

Analyzed: 10/25/2005 08:20

LCSD 2005/10/25-1B.62-013

Extracted: 10/25/2005

Analyzed: 10/25/2005 09:13

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0442	0.0434	0.05	88.4	86.8	1.8	65-165	20		
Benzene	0.0503	0.0513	0.05	100.6	102.6	2.0	69-129	20		
Toluene	0.0496	0.0497	0.05	99.2	99.4	0.2	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	396	381	500	79.2	76.2		76-124			
Toluene-d8	476	474	500	95.2	94.8		75-116			

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

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Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/10/26-1B.69**

LCS 2005/10/26-1B.69-009

Extracted: 10/26/2005

Analyzed: 10/26/2005 08:09

LCSD 2005/10/26-1B.69-051

Extracted: 10/26/2005

Analyzed: 10/26/2005 08:51

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0518	0.0507	0.05	103.6	101.4	2.1	65-165	20		
Benzene	0.0453	0.0457	0.05	90.6	91.4	0.9	69-129	20		
Toluene	0.0482	0.0465	0.05	96.4	93.0	3.6	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	451	449	500	90.2	89.8		76-124			
Toluene-d8	486	471	500	97.2	94.2		75-116			

Severn Trent Laboratories, Inc.

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

11/01/2005 15:16

Page 29 of 38

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

Cambria Environmental Emeryville

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Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/10/26-2B.69**

LCS 2005/10/26-2B.69-044

Extracted: 10/26/2005

Analyzed: 10/26/2005 18:44

LCSD

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0565		0.05	113.0			65-165	20		
Benzene	0.0447		0.05	89.4			69-129	20		
Toluene	0.0454		0.05	90.8			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	459		500	91.8			76-124			
Toluene-d8	455		500	91.0			75-116			

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

Cambria Environmental Emeryville

Attn.: David Gibbs

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Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/10/28-1A.62**

LCS 2005/10/28-1A.62-019

Extracted: 10/28/2005

Analyzed: 10/28/2005 08:19

LCSD 2005/10/28-1A.62-012

Extracted: 10/28/2005

Analyzed: 10/28/2005 09:12

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0464	0.0472	0.05	92.8	94.4	1.7	65-165	20		
Benzene	0.0560	0.0544	0.05	112.0	108.8	2.9	69-129	20		
Toluene	0.0510	0.0502	0.05	102.0	100.4	1.6	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	423	412	500	84.6	82.4		76-124			
Toluene-d8	478	487	500	95.6	97.4		75-116			

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

Cambria Environmental Emeryville

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Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/10/31-1A.62**

LCS 2005/10/31-1A.62-042

Extracted: 10/31/2005

Analyzed: 10/31/2005 08:42

LCSD 2005/10/31-1A.62-034

Extracted: 10/31/2005

Analyzed: 10/31/2005 09:34

Compound	Conc. mg/Kg		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0512	0.0439	0.05	102.4	87.8	15.4	65-165	20		
Benzene	0.0506	0.0495	0.05	101.2	99.0	2.2	69-129	20		
Toluene	0.0504	0.0490	0.05	100.8	98.0	2.8	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	440	411	500	88.0	82.2		76-124			
Toluene-d8	487	479	500	97.4	95.8		75-116			

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

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Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Soil**

**QC Batch # 2005/10/24-1A.62**

SB-2-24.5 >> MS

Lab ID: 2005-10-0453 - 005

MS: 2005/10/24-1A.62-054

Extracted: 10/24/2005

Analyzed: 10/24/2005 11:54

Dilution: 1.00

MSD: 2005/10/24-1A.62-020

Extracted: 10/24/2005

Analyzed: 10/24/2005 12:20

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0403	0.0413	ND	0.049407	81.6	83.1	1.8	65-165	20		
Benzene	0.0434	0.0458	ND	0.049407	87.8	92.1	4.8	69-129	20		
Toluene	0.0425	0.0480	ND	0.049407	86.0	96.6	11.6	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	414	397		500	82.8	79.4		76-124			
Toluene-d8	476	486		500	95.2	97.2		75-116			

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

Cambria Environmental Emeryville

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Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Soil**

**QC Batch # 2005/10/25-1B.62**

MS/MSD

Lab ID: 2005-10-0452 - 004

MS: 2005/10/25-1B.62-028

Extracted: 10/25/2005

Analyzed: 10/25/2005 10:28

Dilution: 1.00

MSD: 2005/10/25-1B.62-054

Extracted: 10/25/2005

Analyzed: 10/25/2005 10:54

Dilution: 1.00

Compound	Conc. mg/Kg		Spk.Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	0.0390	0.00334	ND	0.049900	78.2	6.8	168.	65-165	20		M5,R1
Benzene	0.0459	0.00410	ND	0.049900	92.0	8.3	166.	69-129	20		M5,R1
Toluene	0.0436	0.00405	ND	0.049900	87.4	8.2	165.	70-130	20		M5,R1
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	389	425		500	77.8	85.0		76-124			
Toluene-d8	483	476		500	96.6	95.2		75-116			

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

Cambria Environmental Emeryville

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Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Soil**

**QC Batch # 2005/10/26-1B.69**

MS/MSD

Lab ID: 2005-10-0500 - 001

MS: 2005/10/26-1B.69-018

Extracted: 10/26/2005

Analyzed: 10/26/2005 11:18

Dilution: 1.00

MSD: 2005/10/26-1B.69-039

Extracted: 10/26/2005

Analyzed: 10/26/2005 11:39

Dilution: 1.00

Sample / Analysis Flag(s): MS: N1MSD: N1 ( See Legend and Note Section )

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0720	0.0714	ND	0.049309	146.0	143.1	2.0	65-165	20		
Benzene	0.0485	0.0488	ND	0.049309	98.4	97.8	0.6	69-129	20		
Toluene	0.0409	0.0419	ND	0.049309	82.9	84.0	1.3	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	553	546		500	110.6	109.2		76-124			
Toluene-d8	442	451		500	88.4	90.2		75-116			



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

Cambria Environmental Emeryville

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Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Soil**

**QC Batch # 2005/10/26-2B.69**

MS/MSD

Lab ID: 2005-10-0476 - 006

MS: 2005/10/26-2B.69-005

Extracted: 10/27/2005

Analyzed: 10/27/2005 00:05

Dilution: 1.00

MSD: 2005/10/26-2B.69-026

Extracted: 10/27/2005

Analyzed: 10/27/2005 00:26

Dilution: 1.00

Compound	Conc. mg/Kg		Spk.Level mg/Kg	Recovery %			Limits %		Flags		
	MS	MSD		Sample	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0573	0.0553	ND	0.047709	120.1	110.6	8.2	65-165	20		
Benzene	0.0461	0.0422	ND	0.047709	96.6	84.4	13.5	69-129	20		
Toluene	0.0463	0.0438	ND	0.047709	97.0	87.6	10.2	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	463	471		500	92.6	94.2		76-124			
Toluene-d8	457	457		500	91.4	91.4		75-116			

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

Cambria Environmental Emeryville

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97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Soil**

**QC Batch # 2005/10/28-1A.62**

MS/MSD

Lab ID: 2005-10-0490 - 005

MS: 2005/10/28-1A.62-017

Extracted: 10/28/2005

Analyzed: 10/28/2005 10:17

Dilution: 1.00

MSD: 2005/10/28-1A.62-043

Extracted: 10/28/2005

Analyzed: 10/28/2005 10:43

Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	0.0422	0.0432	ND	0.049309	85.6	88.1	2.9	65-165	20		
Benzene	0.0490	0.0507	ND	0.049309	99.4	103.4	3.9	69-129	20		
Toluene	0.0438	0.0452	ND	0.049309	88.8	92.2	3.8	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	418	401		500	83.6	80.2		76-124			
Toluene-d8	480	481		500	96.0	96.2		75-116			

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

Cambria Environmental Emeryville

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Project: 247-0898-006

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Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

---

**Legend and Notes**

---

**Analysis Flag**

L2

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

N1

Internal standard out of range.

**Result Flag**

M5

MS/MSD spike recoveries were below acceptance limits.  
See blank spike (LCS).

R1

Analyte RPD was out of QC limits.

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

Cambria Environmental Emeryville

Attn.: David Gibbs

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Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SB-6-5.0	10/18/2005 09:30	Soil	6

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11/02/2005 15:13

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

Cambria Environmental Emeryville

Attn.: David Gibbs

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Emeryville, CA 94608  
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B Test(s): 8260B  
Sample ID: **SB-6-5.0** Lab ID: 2005-10-0453 - 6  
Sampled: 10/18/2005 09:30 Extracted: 10/26/2005 04:25  
Matrix: Soil QC Batch#: 2005/10/25-3C.69  
Analysis Flag: L2 ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	120	50	mg/Kg	1.00	10/26/2005 04:25	Q1
Benzene	ND	0.50	mg/Kg	1.00	10/26/2005 04:25	
Toluene	ND	0.50	mg/Kg	1.00	10/26/2005 04:25	
Ethyl benzene	ND	0.50	mg/Kg	1.00	10/26/2005 04:25	
Total xylenes	ND	0.50	mg/Kg	1.00	10/26/2005 04:25	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	1.00	10/26/2005 04:25	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	1.00	10/26/2005 04:25	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/Kg	1.00	10/26/2005 04:25	
Ethyl tert-butyl ether (ETBE)	ND	0.50	mg/Kg	1.00	10/26/2005 04:25	
tert-Amyl methyl ether (TAME)	ND	0.50	mg/Kg	1.00	10/26/2005 04:25	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	99.9	53-129	%	1.00	10/26/2005 04:25	
Toluene-d8	95.5	47-136	%	1.00	10/26/2005 04:25	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A  
Emeryville, CA 94608  
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

Method Blank

Soil

QC Batch # 2005/10/25-3C.69

MB: 2005/10/25-3C.69-043

Date Extracted: 10/26/2005 03:43

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	mg/Kg	10/26/2005 03:43	
Benzene	ND	0.50	mg/Kg	10/26/2005 03:43	
Toluene	ND	0.50	mg/Kg	10/26/2005 03:43	
Ethyl benzene	ND	0.50	mg/Kg	10/26/2005 03:43	
Total xylenes	ND	0.50	mg/Kg	10/26/2005 03:43	
tert-Butyl alcohol (TBA)	ND	2.5	mg/Kg	10/26/2005 03:43	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	10/26/2005 03:43	
Di-isopropyl Ether (DIPE)	ND	1.0	mg/Kg	10/26/2005 03:43	
Ethyl tert-butyl ether (ETBE)	ND	0.50	mg/Kg	10/26/2005 03:43	
tert-Amyl methyl ether (TAME)	ND	0.50	mg/Kg	10/26/2005 03:43	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	105.6	53-129	%	10/26/2005 03:43	
Toluene-d8	100.0	47-136	%	10/26/2005 03:43	

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

Cambria Environmental Emeryville

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Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/10/25-3C.69**

LCS 2005/10/25-3C.69-001

Extracted: 10/26/2005

Analyzed: 10/26/2005 03:01

LCSD 2005/10/25-3C.69-022

Extracted: 10/26/2005

Analyzed: 10/26/2005 03:22

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	8.53	9.66	10	85.3	96.6	12.4	69-129	20		
Toluene	8.74	10.2	10	87.4	102.0	15.4	70-130	20		
Methyl tert-butyl ether (MTBE)	8.98	10.8	10	89.8	108.0	18.4	65-165	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	224	230	250	89.6	92.0		53-129			
Toluene-d8	237	237	250	94.8	94.8		47-136			

Severn Trent Laboratories, Inc.

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

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

11/02/2005 15:13

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

Cambria Environmental Emeryville

Attn.: David Gibbs

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Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

---

**Legend and Notes**

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**Analysis Flag**

L2

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

**Result Flag**

Q1

Quantit. of unknown hydrocarbon(s) in sample based on gasoline.



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

Cambria Environmental Emeryville

Attn: David Gibb

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Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SB-6-W	10/18/2005 10:15	Water	11
SB-2-W	10/18/2005 09:00	Water	12
SB-5-W	10/18/2005 13:20	Water	18
SB-4-W	10/18/2005 15:30	Water	25

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

Cambria Environmental Emeryville

Attn.: David Gibbs

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Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B Test(s): 8260B  
Sample ID: **SB-6-W** Lab ID: 2005-10-0453 - 11  
Sampled: 10/18/2005 10:15 Extracted: 10/26/2005 02:07  
Matrix: Water QC Batch#: 2005/10/25-2A.71  
Analysis Flag: L2, pH: <2 ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	270	250	ug/L	5.00	10/26/2005 02:07	
Benzene	ND	2.5	ug/L	5.00	10/26/2005 02:07	
Toluene	ND	2.5	ug/L	5.00	10/26/2005 02:07	
Ethylbenzene	ND	2.5	ug/L	5.00	10/26/2005 02:07	
Total xylenes	ND	5.0	ug/L	5.00	10/26/2005 02:07	
tert-Butyl alcohol (TBA)	ND	25	ug/L	5.00	10/26/2005 02:07	
Methyl tert-butyl ether (MTBE)	820	2.5	ug/L	5.00	10/26/2005 02:07	
Di-isopropyl Ether (DIPE)	ND	10	ug/L	5.00	10/26/2005 02:07	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	5.00	10/26/2005 02:07	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	5.00	10/26/2005 02:07	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	95.3	73-130	%	5.00	10/26/2005 02:07	
Toluene-d8	96.2	81-114	%	5.00	10/26/2005 02:07	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

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Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B Test(s): 8260B  
Sample ID: **SB-2-W** Lab ID: 2005-10-0453 - 12  
Sampled: 10/18/2005 09:00 Extracted: 10/31/2005 19:48  
Matrix: Water QC Batch#: 2005/10/31-2A.71  
pH: <2

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	10/31/2005 19:48	
Benzene	ND	0.50	ug/L	1.00	10/31/2005 19:48	
Toluene	ND	0.50	ug/L	1.00	10/31/2005 19:48	
Ethylbenzene	ND	0.50	ug/L	1.00	10/31/2005 19:48	
Total xylenes	ND	1.0	ug/L	1.00	10/31/2005 19:48	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	10/31/2005 19:48	
Methyl tert-butyl ether (MTBE)	1.6	0.50	ug/L	1.00	10/31/2005 19:48	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	10/31/2005 19:48	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	10/31/2005 19:48	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	10/31/2005 19:48	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	106.1	73-130	%	1.00	10/31/2005 19:48	
Toluene-d8	107.9	81-114	%	1.00	10/31/2005 19:48	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

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Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B Test(s): 8260B  
Sample ID: **SB-5-W** Lab ID: 2005-10-0453 - 18  
Sampled: 10/18/2005 13:20 Extracted: 10/26/2005 03:01  
Matrix: Water QC Batch#: 2005/10/25-2A.71  
Analysis Flag: L2, pH: <2 ( See Legend and Note Section )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	250	250	ug/L	5.00	10/26/2005 03:01	
Benzene	ND	2.5	ug/L	5.00	10/26/2005 03:01	
Toluene	ND	2.5	ug/L	5.00	10/26/2005 03:01	
Ethylbenzene	ND	2.5	ug/L	5.00	10/26/2005 03:01	
Total xylenes	ND	5.0	ug/L	5.00	10/26/2005 03:01	
tert-Butyl alcohol (TBA)	3200	25	ug/L	5.00	10/26/2005 03:01	
Methyl tert-butyl ether (MTBE)	5.9	2.5	ug/L	5.00	10/26/2005 03:01	
Di-isopropyl Ether (DIPE)	ND	10	ug/L	5.00	10/26/2005 03:01	
Ethyl tert-butyl ether (ETBE)	ND	10	ug/L	5.00	10/26/2005 03:01	
tert-Amyl methyl ether (TAME)	ND	10	ug/L	5.00	10/26/2005 03:01	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	96.0	73-130	%	5.00	10/26/2005 03:01	
Toluene-d8	97.7	81-114	%	5.00	10/26/2005 03:01	

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

Cambria Environmental Emeryville

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Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 5030B	Test(s): 8260B
Sample ID: <b>SB-4-W</b>	Lab ID: 2005-10-0453 - 25
Sampled: 10/18/2005 15:30	Extracted: 10/26/2005 23:01
Matrix: Water	QC Batch#: 2005/10/26-4A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	1.00	10/26/2005 23:01	
Benzene	ND	0.50	ug/L	1.00	10/26/2005 23:01	
Toluene	ND	0.50	ug/L	1.00	10/26/2005 23:01	
Ethylbenzene	ND	0.50	ug/L	1.00	10/26/2005 23:01	
Total xylenes	ND	1.0	ug/L	1.00	10/26/2005 23:01	
tert-Butyl alcohol (TBA)	270	5.0	ug/L	1.00	10/26/2005 23:01	
Methyl tert-butyl ether (MTBE)	70	0.50	ug/L	1.00	10/26/2005 23:01	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	10/26/2005 23:01	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	10/26/2005 23:01	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	10/26/2005 23:01	
<b>Surrogate(s)</b>						
1,2-Dichloroethane-d4	102.2	73-130	%	1.00	10/26/2005 23:01	
Toluene-d8	90.9	81-114	%	1.00	10/26/2005 23:01	

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

Cambria Environmental Emeryville

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Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

**Method Blank**

MB: 2005/10/25-2A.71-019

**Water**

Test(s): 8260B

**QC Batch # 2005/10/25-2A.71**

Date Extracted: 10/25/2005 20:19

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	10/25/2005 20:19	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	10/25/2005 20:19	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/25/2005 20:19	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	10/25/2005 20:19	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	10/25/2005 20:19	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	10/25/2005 20:19	
Benzene	ND	0.5	ug/L	10/25/2005 20:19	
Toluene	ND	0.5	ug/L	10/25/2005 20:19	
Ethylbenzene	ND	0.5	ug/L	10/25/2005 20:19	
Total xylenes	ND	1.0	ug/L	10/25/2005 20:19	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	98.4	73-130	%	10/25/2005 20:19	
Toluene-d8	100.8	81-114	%	10/25/2005 20:19	

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

Cambria Environmental Emeryville

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Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Method Blank**

**Water**

**QC Batch # 2005/10/26-4A.69**

MB: 2005/10/26-4A.69-049

Date Extracted: 10/26/2005 19:49

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	10/26/2005 19:49	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	10/26/2005 19:49	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/26/2005 19:49	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	10/26/2005 19:49	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	10/26/2005 19:49	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	10/26/2005 19:49	
Benzene	ND	0.5	ug/L	10/26/2005 19:49	
Toluene	ND	0.5	ug/L	10/26/2005 19:49	
Ethylbenzene	ND	0.5	ug/L	10/26/2005 19:49	
Total xylenes	ND	1.0	ug/L	10/26/2005 19:49	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	89.6	73-130	%	10/26/2005 19:49	
Toluene-d8	90.8	81-114	%	10/26/2005 19:49	

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

Cambria Environmental Emeryville

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Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

**Method Blank**

MB: 2005/10/31-2A.71-034

**Water**

Test(s): 8260B

**QC Batch # 2005/10/31-2A.71**

Date Extracted: 10/31/2005 18:34

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	10/31/2005 18:34	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	10/31/2005 18:34	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/31/2005 18:34	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	10/31/2005 18:34	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	10/31/2005 18:34	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	10/31/2005 18:34	
Benzene	ND	0.5	ug/L	10/31/2005 18:34	
Toluene	ND	0.5	ug/L	10/31/2005 18:34	
Ethylbenzene	ND	0.5	ug/L	10/31/2005 18:34	
Total xylenes	ND	1.0	ug/L	10/31/2005 18:34	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	103.0	73-130	%	10/31/2005 18:34	
Toluene-d8	105.0	81-114	%	10/31/2005 18:34	



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

Cambria Environmental Emeryville

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Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/10/25-2A.71**

LCS 2005/10/25-2A.71-052

Extracted: 10/25/2005

Analyzed: 10/25/2005 19:52

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	23.1		25	92.4			65-165	20		
Benzene	24.2		25	96.8			69-129	20		
Toluene	23.5		25	94.0			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	478		500	95.6			73-130			
Toluene-d8	516		500	103.2			81-114			

Severn Trent Laboratories, Inc.

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11/01/2005 15:31

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

Cambria Environmental Emeryville

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Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/10/26-4A.69**

LCS 2005/10/26-4A.69-028  
LCSD

Extracted: 10/26/2005

Analyzed: 10/26/2005 19:28

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	27.0		25	108.0			65-165	20		
Benzene	22.6		25	90.4			69-129	20		
Toluene	23.1		25	92.4			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	411		500	82.2			73-130			
Toluene-d8	452		500	90.4			81-114			

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

Cambria Environmental Emeryville  
Attn.: David Gibbs

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Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/10/31-2A.71**

LCS 2005/10/31-2A.71-007

Extracted: 10/31/2005

Analyzed: 10/31/2005 18:07

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	20.2		25	80.8			65-165	20		
Benzene	21.7		25	86.8			69-129	20		
Toluene	21.7		25	86.8			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	470		500	94.0			73-130			
Toluene-d8	525		500	105.0			81-114			

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

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Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/10/25-2A.71**

MS/MSD

Lab ID: 2005-10-0442 - 006

MS: 2005/10/25-2A.71-006

Extracted: 10/25/2005

Analyzed: 10/25/2005 22:06

Dilution: 20.00

MSD: 2005/10/25-2A.71-033

Extracted: 10/25/2005

Analyzed: 10/25/2005 22:33

Dilution: 20.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	1160	1150	695	500	93.0	91.0	2.2	65-165	20		
Benzene	471	494	17.8	500	90.6	95.2	5.0	69-129	20		
Toluene	446	458	ND	500	89.2	91.6	2.7	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	457	446		500	91.4	89.2		73-130			
Toluene-d8	508	498		500	101.6	99.6		81-114			

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

Cambria Environmental Emeryville

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Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/10/26-4A.69**

MS/MSD

Lab ID: 2005-10-0460 - 001

MS: 2005/10/26-4A.69-010

Extracted: 10/26/2005

Analyzed: 10/26/2005 20:10

Dilution: 1.00

MSD: 2005/10/26-4A.69-033

Extracted: 10/26/2005

Analyzed: 10/26/2005 20:33

Dilution: 1.00

Compound	Conc. ug/L			Spk.Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	274	272	243	25	124.0	116.0	6.7	65-165	20		
Benzene	22.8	22.1	ND	25	91.2	88.4	3.1	69-129	20		
Toluene	23.6	22.2	ND	25	94.4	88.8	6.1	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	419	432		500	83.8	86.4		73-130			
Toluene-d8	453	453		500	90.6	90.6		81-114			

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/10/31-2A.71**

MS/MSD

Lab ID: 2005-10-0605 - 005

MS: 2005/10/31-2A.71-021

Extracted: 10/31/2005

Analyzed: 10/31/2005 20:21

Dilution: 250.00

MSD: 2005/10/31-2A.71-048

Extracted: 10/31/2005

Analyzed: 10/31/2005 20:48

Dilution: 250.00

Compound	Conc. ug/L			Spk. Level	Recovery %			Limits %		Flags	
	MS	MSD	Sample		ug/L	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	8780	9680	3550	6250	83.7	98.1	15.8	65-165	20		
Benzene	5260	5500	8.3	6250	84.0	87.9	4.5	69-129	20		
Toluene	5090	5480	10.9	6250	81.3	87.5	7.3	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	453	469		500	90.6	93.8		73-130			
Toluene-d8	521	541		500	104.2	108.2		81-114			

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

---

**Legend and Notes**

---

**Analysis Flag**

L2

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

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SB-6-W2	10/18/2005 11:45	Water	13





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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

**Method Blank**

MB: 2005/10/25-2A.71-019

**Water**

Test(s): 8260B

**QC Batch # 2005/10/25-2A.71**

Date Extracted: 10/25/2005 20:19

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	50	ug/L	10/25/2005 20:19	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	10/25/2005 20:19	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/25/2005 20:19	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	10/25/2005 20:19	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	10/25/2005 20:19	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	10/25/2005 20:19	
Benzene	ND	0.5	ug/L	10/25/2005 20:19	
Toluene	ND	0.5	ug/L	10/25/2005 20:19	
Ethylbenzene	ND	0.5	ug/L	10/25/2005 20:19	
Total xylenes	ND	1.0	ug/L	10/25/2005 20:19	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	98.4	73-130	%	10/25/2005 20:19	
Toluene-d8	100.8	81-114	%	10/25/2005 20:19	

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A  
Emeryville, CA 94608  
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Water**

**QC Batch # 2005/10/25-2A.71**

LCS 2005/10/25-2A.71-052

Extracted: 10/25/2005

Analyzed: 10/25/2005 19:52

LCSD

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	23.1		25	92.4			65-165	20		
Benzene	24.2		25	96.8			69-129	20		
Toluene	23.5		25	94.0			70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	478		500	95.6			73-130			
Toluene-d8	516		500	103.2			81-114			

Severn Trent Laboratories, Inc.

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

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

11/01/2005 16:01

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

Cambria Environmental Emeryville  
Attn.: David Gibbs

5900 Hollis Street, Ste. A  
Emeryville, CA 94608  
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Water**

**QC Batch # 2005/10/25-2A.71**

MS/MSD

Lab ID: 2005-10-0442 - 006

MS: 2005/10/25-2A.71-006

Extracted: 10/25/2005

Analyzed: 10/25/2005 22:06

Dilution: 20.00

MSD: 2005/10/25-2A.71-033

Extracted: 10/25/2005

Analyzed: 10/25/2005 22:33

Dilution: 20.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	1160	1150	695	500	93.0	91.0	2.2	65-165	20		
Benzene	471	494	17.8	500	90.6	95.2	5.0	69-129	20		
Toluene	446	458	ND	500	89.2	91.6	2.7	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	457	446		500	91.4	89.2		73-130			
Toluene-d8	508	498		500	101.6	99.6		81-114			

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/19/2005 11:29

Site: 510 E. 14th Street, Oakland, CA

---

**Legend and Notes**

---

**Analysis Flag**

L2

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

STL-San Francisco

# SHELL Chain Of Custody Record

98470

1220 Quarry Lane  
Pleasanton, CA 94566  
(925) 484-1919 (925) 484-1096 fax

Shell Project Manager to be Invoiced:  
 SCIENCE & ENGINEERING  
 TECHNICAL SERVICES  
 CRMT HOUSTON  
Denis Brown  
**2005-10-0453**

INCIDENT NUMBER (S&E ONLY)  
9 7 6 0 1 7 3 4  
DATE: OCT 18, 2005  
SAP or CRMT NUMBER (TS/CRMT)  
PAGE: 1 of 3

SAMPLING COMPANY: **CAMBRIA ENVIRONMENTAL TECHNOLOGY INC** LOG CODE: \_\_\_\_\_ SITE ADDRESS (Street and City): **510 E. 14th Street, Oakland, CA** GLOBAL ID NO.: **T0600112421**

ADDRESS: **5900 HOLLIS ST, Suite A, Emeryville, CA 94608** EDF DELIVERABLE TO (Responsible Party or Designee): \_\_\_\_\_ PHONE NO.: \_\_\_\_\_ E-MAIL: **shelloaklandedf@cambria-env.com** CONSULTANT PROJECT NO.: **247-0898-006**

PROJECT CONTACT (Hardcopy or PDF Report to): **David Gibbs** LAB USE ONLY

TELEPHONE: **(510) 420-3363** FAX: **(510) 420-9170** E-MAIL: **dgibbs@cambria-env.com** Turnaround Time (BUSINESS DAYS):  
 10 DAYS  5 DAYS  72 HOURS  48 HOURS  24 HOURS  LESS THAN 24 HOURS

Sampled by: **R. Barone**

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

LA - RWQCB REPORT FORMAT  UST AGENCY: \_\_\_\_\_

GC/MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

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

cc lab report: rbarone@cambria-env.com

### REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE	HBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	LUFT5 <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	CAM17 <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	Test for Disposal (see attached)	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	
		DATE	TIME																			
1	SB-2-50	10/18	820	SO	1	X		X			X											
2	SB-2-10.0	10/18	820	SO	1	X		X			X											
3	SB-2-14.5	10/18	825	SO	1	X		X			X											
4	SB-2-19.5	10/18	835	SO	1	X		X			X											
5	SB-2-24.5	10/18	840	SO	1	X		X			X											
6	SB-6-50	10/18	930	SO	1	X		X			X											
7	SB-6-9.5	10/18	946	SO	1	X		X			X											
8	SB-6-14.5	10/18	956	SO	1	X		X			X											
9	SB-6-19.5	10/18	1002	SO	1	X		X			X											
10	SB-6-24.5	10/18	1010	SO	1	X		X			X											

Requested by: (Signature) \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date: 10/18/05 Time: 1800

Requested by: (Signature) \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date: 10/19/05 Time: 1529

Requested by: (Signature) \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date: 10/19/05 Time: 1755

C&C Graphic (714) 898-9702

1220 Quarry Lane  
Pleasanton, CA 94566  
(925) 484-1919 (925) 484-1096 fax

Shell Project Manager to be invoiced:

SCIENCE & ENGINEERING  
 TECHNICAL SERVICES  
 CRMT HOUSTON

Denis Brown

2005-10-0453

INCIDENT NUMBER (S&E ONLY)

9 7 6 0 1 7 3 4

DATE: OCT 18 2005

SAP or CRMT NUMBER (TS/CRMT)

PAGE: 2 of 3

AMPLIFIED COMPANY: CAMBRIA ENVIRONMENTAL TECHNOLOGY INC  
 ADDRESS: 5900 HOLLIS ST, Suite A, Emeryville, CA 94608  
 PROJECT CONTACT (Hardcopy or PDF Required): David Gibbs  
 PHONE: (510) 420-3363 FAX: (510) 420-9170 E-MAIL: dgibbs@cambria-env.com  
 SITE ADDRESS (Street and City): 510 E. 14th Street, Oakland, CA  
 EDD DELIVERABLE TO (Responsible Party or Designer):  
 PHONE NO.:  
 E-MAIL: shelloaklandedf@cambria-env.com  
 CONSULTANT PROJECT NO.: 247-0898-006  
 LAB USE ONLY:  
 Sampled by: R. Barone

TURNAROUND TIME (BUSINESS DAYS)  
 10 DAYS  5 DAYS  72 HOURS  48 HOURS  24 HOURS  LESS THAN 24 HOURS  
 LA - RWQCB REPORT FORMAT  UST AGENCY:  
 GC/MS MTBE CONFIRMATION HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_  
 SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED   
 cc lab report: rbarone@cambria-env.com

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE	IBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	LUFT5 <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	CAM17 <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	Test for Disposal (see attached)	FIELD NOTES: Contains Preservative or PID Readings or Laboratory Notes	ON ICE	TEMPERATURE ON RECEIPT °C	
		DATE	TIME																					
11	SB-6-W	10/18	1015	W	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	HCl		
12	SB-2-W	10/18	900	W	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	HCl		
13	SB-6-W2	10/18	1145	W	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	HCl		
14	SB-5-5.0	10/18	1245	S	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
15	SB-5-9.5	10/18	1255	S	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
16	SB-5-14.5	10/18	1300	S	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
17	SB-5-19.5	10/18	1310	S	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
18	SB-5-W	10/18	1320	W	5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	HCl		
19	SB-5-24.5	10/18	1340	S	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
20	SB-4-5.0	10/18	1500	S	1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			

Transmitted by (Signature): [Signature] Received by (Signature): [Signature] Date: 10/18/05 Time: 1800  
 Transmitted by (Signature): [Signature] Received by (Signature): [Signature] Date: 10/14/07 Time: 1128  
 Transmitted by (Signature): [Signature] Received by (Signature): [Signature] Date: 10/19/05 Time: 1755





**Cambria Environmental Emeryville**

October 27, 2005

5900 Hollis Street, Ste. A  
Emeryville, CA 94608

Attn.: David Gibbs

Project#: 247-0898-006

Project: 97601734

Site: 510 E. 14th Street, Oakland, CA

Attached is our report for your samples received on 10/20/2005 11:28

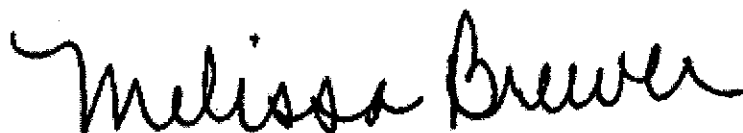
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 12/04/2005 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,

You can also contact me via email. My email address is: [mbrewer@stl-inc.com](mailto:mbrewer@stl-inc.com)

Sincerely,



Melissa Brewer  
Project Manager

Severn Trent Laboratories, Inc.

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

Tel 925 484 1919 Fax 925 484 1096 \* [www.stl-inc.com](http://www.stl-inc.com) \* CA DHS ELAP# 2496

**Total Lead**

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SP-1	10/19/2005 15:30	Soil	1

**Total Lead**

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

Prep(s): 3050B

Test(s): 6010B

Sample ID: SP-1

Lab ID: 2005-10-0440 - 1

Sampled: 10/19/2005 15:30

Extracted: 10/21/2005 08:05

Matrix: Soil

QC Batch#: 2005/10/21-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	13	1.0	mg/Kg	1.00	10/21/2005 12:38	

**Total Lead**

Cambria Environmental Emeryville  
Attn.: David Gibbs

5900 Hollis Street, Ste. A  
Emeryville, CA 94608  
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 3050B

Test(s): 6010B

Method Blank

Soil

QC Batch # 2005/10/21-01.15

MB: 2005/10/21-01.15-054

Date Extracted: 10/21/2005 08:05

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	10/21/2005 11:54	

**Total Lead**

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 3050B

Test(s): 6010B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/10/21-01.15**

LCS 2005/10/21-01.15-055

Extracted: 10/21/2005

Analyzed: 10/21/2005 11:57

LCSD 2005/10/21-01.15-056

Extracted: 10/21/2005

Analyzed: 10/21/2005 12:01

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	104	106	100.0	104.0	106.0	1.9	80-120	20		

Severn Trent Laboratories, Inc.

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

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

10/26/2005 12:33

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Samples Reported**

Sample Name	Date Sampled	Matrix	Lab #
SP-1	10/19/2005 15:30	Soil	1



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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A  
Emeryville, CA 94608  
Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006  
97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Method Blank

MB: 2005/10/26-1B.69-030

Soil

Test(s): 8260B

QC Batch # 2005/10/26-1B.69

Date Extracted: 10/26/2005 08:30

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline [Shell]	ND	1.0	mg/Kg	10/26/2005 08:30	
Benzene	ND	0.0050	mg/Kg	10/26/2005 08:30	
Toluene	ND	0.0050	mg/Kg	10/26/2005 08:30	
Ethyl benzene	ND	0.0050	mg/Kg	10/26/2005 08:30	
Total xylenes	ND	0.0050	mg/Kg	10/26/2005 08:30	
<b>Surrogates(s)</b>					
1,2-Dichloroethane-d4	99.0	76-124	%	10/26/2005 08:30	
Toluene-d8	92.6	75-116	%	10/26/2005 08:30	



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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Laboratory Control Spike**

**Soil**

**QC Batch # 2005/10/26-1B.69**

LCS 2005/10/26-1B.69-009

Extracted: 10/26/2005

Analyzed: 10/26/2005 08:09

LCSD 2005/10/26-1B.69-051

Extracted: 10/26/2005

Analyzed: 10/26/2005 08:51

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD %	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	0.0453	0.0457	0.05	90.6	91.4	0.9	69-129	20		
Toluene	0.0482	0.0465	0.05	96.4	93.0	3.6	70-130	20		
<b>Surrogates(s)</b>										
1,2-Dichloroethane-d4	451	449	500	90.2	89.8		76-124			
Toluene-d8	486	471	500	97.2	94.2		75-116			

Severn Trent Laboratories, Inc.

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

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

10/27/2005 15:26

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

Cambria Environmental Emeryville

Attn.: David Gibbs

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-3363 Fax: (510) 420-9170

Project: 247-0898-006

97601734

Received: 10/20/2005 11:28

Site: 510 E. 14th Street, Oakland, CA

**Batch QC Report**

Prep(s): 5030B

Test(s): 8260B

**Matrix Spike ( MS / MSD )**

**Soil**

**QC Batch # 2005/10/26-1B.69**

MS/MSD

Lab ID: 2005-10-0500 - 001

MS: 2005/10/26-1B.69-018

Extracted: 10/26/2005

Analyzed: 10/26/2005 11:18

Dilution: 1.00

MSD: 2005/10/26-1B.69-039

Extracted: 10/26/2005

Analyzed: 10/26/2005 11:39

Dilution: 1.00

Sample / Analysis Flag(s): MS: N1MSD: N1 ( See Legend and Note Section )

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	0.0485	0.0488	ND	0.049309	98.4	97.8	0.6	69-129	20		
Toluene	0.0409	0.0419	ND	0.049309	82.9	84.0	1.3	70-130	20		
<b>Surrogate(s)</b>											
1,2-Dichloroethane-d4	553	546		500	110.6	109.2		76-124			
Toluene-d8	442	451		500	88.4	90.2		75-116			

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**Legend and Notes**

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**Analysis Flag**

N1

Internal standard out of range.

**Result Flag**

1220 Quarry Lane  
Pleasanton, CA 94566  
(925) 484-1919 (925) 484-1096 fax

Shell Project Manager to be Invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT, HOUSTON

Denis Brown

2005-10-0440

INCIDENT NUMBER (\$&E ONLY)

9 7 6 0 1 7 3 4

SAP or CRMT NUMBER (TS/CRMT)

DATE: OCT 19, 2005

PAGE: 1 of 1

SAMPLING COMPANY: **CAMBRIA ENVIRONMENTAL TECHNOLOGY INC**

LOG CODE:

SITE ADDRESS (Street and City): **510 E. 14th Street, Oakland, CA**

GLOBAL ID NO.: **T0600112421**

ADDRESS: **5900 HOLLIS ST, Suite A, Emeryville, CA 94608**

EDF DELIVERABLE TO (Responsible Party or Designee):

PHONE NO.:

E-MAIL: **shelloaklandef@cambria-env.com**

CONSULTANT PROJECT NO.: **247-0898-006**

DIRECT CONTACT (Hardcopy or PDF Report to): **David Gibbs**

TELEPHONE: **(510) 420-3363** FAX: **(510) 420-9170** E-MAIL: **dgibbs@cambria-env.com**

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

LAB USE ONLY

Sampled by: **R. Barone**

LA - RWQCB REPORT FORMAT  UST AGENCY: \_\_\_\_\_

GC/MS MTBE CONFIRMATION: HIGHEST \_\_\_\_\_ HIGHEST per BORING \_\_\_\_\_ ALL \_\_\_\_\_

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

cc lab report: **rbarone@cambria-env.com**

*Compos. to (A-D)*

REQUESTED ANALYSIS															FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	
TPH - Purgeable	TPH - Extractable (9015m)	BTEX	MTBE	TBA	5 Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	LUFT5 <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	CAM17 <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	Test for Disposal (see attached)		
																ON ICE
																TEMPERATURE ON RECEIPT: <b>4</b>

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.
		DATE	TIME		
	SP-1-A	10/14	1530	SO	1
	SP-1-B	↓	↓	↓	↓
	SP-1-C	↓	↓	↓	↓
	SP-1-D	↓	↓	↓	↓

Requested by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: <b>10/17/05</b>	Time: <b>17:00</b>
Requested by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: <b>10/20/05</b>	Time: <b>17:28</b>
Requested by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: <b>10/20/05</b>	Time: <b>17:45</b>

Get Field Notes with final report, Green to File, Yellow and Pink to Client.

**ATTACHMENT E**

Disposal Confirmation



## Hazardous Waste Hauler (Registration # 2843)

P.O. Box 292547 \* Sacramento, CA 95829 \* FAX 916-381-1573

### Disposal Confirmation

Request for Transportation Received: 11/04/2005

#### Consultant Information

Company: Cambria  
Contact: Ron Barone  
Phone: 510-420-3308  
Fax: 510-420-9170

#### Site Information

PO #  
Street Address: 510 E. 14<sup>th</sup> Street  
City, State, ZIP: Oakland, Ca

Customer: Shell Oil Company RESA-0023-LDC  
RIPR #: 49082  
SAP # / Location: NA  
Incident #: 97601734  
Location / WIC #: NA  
Environmental Engineer: Denis Brown

Material Description: Soil  
Estimated Quantity: <2 CY  
Service Requested Date: ASAP

Disposal Facility: Forward Landfill  
Contact: Scott  
Phone: 800 204-4242  
Approval #: 5943  
Date of Disposal: 11/17/2005  
Actual Tonnage: .73 tons

Transporter: Manley & Sons Trucking, Inc.  
Contact: Jennifer Rogers  
Phone: 916 381-6864  
Fax: 916 381-1573  
Invoice: 200511-22  
Date of Invoice: 11/22/2005