CAMBRIA

#113/RO 415

February 25, 2002

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

Re: **Underground Storage Tank Closure Report**
Shell-branded Service Station
4411 Foothill Boulevard
Oakland, California
Incident #98995756
Cambria Project #244-0897

MAR 01 2002

Dear Mr. Chan,

Cambria Environmental Technology, Inc. (Cambria) is submitting the results of sampling activities performed at the referenced site on behalf of Equiva Services LLC (Equiva). The sampling, directed by the City of Oakland Fire Service Agency, was conducted in conjunction with removal of the gasoline underground storage tanks (USTs), dispensers, product piping, and associated over-excavation. Summarized below are the site background, UST and piping removal activities, over-excavation activities, hydraulic hoist removal activities, findings, conclusions, and recommendations.

BACKGROUND

Site Description: The site is a former Shell-branded service station located on the southwest corner of the intersection of Foothill Boulevard and High Street in Oakland, California (Figures 1, 2, and 3). The neighborhood in the vicinity of the site is mixed commercial and residential, with gasoline service stations occupying the northeastern and northwestern corners of the intersection. Fremont High School is located on the southeastern intersection corner.

Several phases of assessment and equipment removal sampling have been performed at the site. Soil boring, well, and sample locations from this previous work are shown on Figure 4. Sample results from the previous work are summarized in Table 1.

1992 Waste Oil Tank Removal: The environmental investigation at this site was initiated in November 1992, following the removal of an underground waste-oil tank. A soil sample was collected at the bottom of the excavation at a depth of approximately 11 feet below grade (fbg). No total petroleum hydrocarbons as gasoline (TPHg), diesel (TPHd), benzene, toluene, ethylbenzene, xylenes (BTEX), oil and grease, halogentated volatile organics compounds or

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metals were detected in the sample. Total lead was detected at 6.7 parts per million (ppm), which likely represents the background concentration in the local soil. Details of the waste oil tank removal and sampling activities are presented in the GeoStrategies Inc. (GeoStrategies) report dated March 26, 1992.

1992 Monitoring Well Installation: A single monitoring well (S-1) was installed in the vicinity of the waste-oil tank location. Details of this well installation are presented in GeoStrategies' *Monitoring Well Installation Report* dated January 19, 1993.

1993 Monitoring Well Installations: Monitoring wells S-2 and S-3 were installed by Hydro Environmental Technologies Inc. (HETI) on May 21, 1993. Details of the well installations are presented in HETI's report dated July 22, 1993.

1995 Soil and Groundwater Investigation: Pacific Environmental Group (PEG) of San Jose, California conducted a geoprobe investigation in June 1995. The investigation consisted of advancing eight onsite soil borings and two offsite borings for the collection of soil and groundwater samples. Details of this investigation are presented in PEG's *Site Investigation* report dated September 12, 1995.

1998 Product Equipment Upgrades: Paradiso Mechanical (Paradiso) of San Leandro, California upgraded the service station in November 1998 by adding secondary containment to the gasoline turbines and dispensers. Details of dispenser upgrade and sampling activities are presented in Cambria's *Dispenser Soil Sampling Report* dated November 30, 1998.

January 1999 Letter Response and Work Plan: In response to the Alameda County Health Care Services Agency (ACHCSA) letter to Equiva dated December 7, 1998, Cambria prepared a *Letter Response and Work Plan* dated January 11, 1999. In the January 1999 work plan, Cambria proposed an additional onsite groundwater monitoring well (S-4) and enhanced groundwater oxygenation via hydrogen peroxide injection into existing site wells.

March 1999 Work Plan Addendum: Additional information regarding the location of proposed well S-4 and the use of hydrogen peroxide was requested by the ACHCSA in a phone conversation with Cambria on February 1, 1999. As a result, Cambria submitted a *Work Plan Addendum* dated March 18, 1999. In the March 1999 addendum, Cambria proposed that well S-4 be located between the station building and the nearest dispenser-island to the north. Due to the lack of requested response from the ~~Hayward~~ Oakland Fire Department on the safety of hydrogen peroxide use, Cambria also proposed the application of oxygen releasing compound (ORC) in lieu of hydrogen peroxide.

TANK AND PIPING REMOVAL ACTIVITIES

Personnel Present	*Title*	*Organization*
Keith L. Matthews	Inspector	City of Oakland Fire Service Agency
Jacquelyn Jones	Project Geologist	Cambria
Myron Olson	Staff Engineer	Cambria
Mark Freitas	Foreman	Paradiso
Mike Peña	Operator	Paradiso
Candido Dominguez	Assistant	Paradiso
Ron Evans	Lab Director	Mobile Chem Labs Inc.

UST Removal and Dispenser/Piping Soil Sampling Date: December 11, 2001.

Tanks Removed: Paradiso removed three 10,000-gallon fiberglass gasoline USTs and associated product piping on December 11, 2001.

Tank Removal Observations: Under close inspection, no holes, cracks, or failures were visible on the walls of the removed USTs. Groundwater was visible in the tank pit after the tanks were removed, although no sheen was observed. The 12-foot deep, 10-inch diameter tank backfill well ~~BW-A~~ was located within the UST backfill material, and was completely destroyed by Paradiso when the backfill material was removed from around the USTs prior to tank removal.

Tank Pit and Dispenser Soil and Groundwater Sampling: On December 11, 2001, soil and groundwater sampling was performed under the direction of Keith Matthews of the City of Oakland Fire Service Agency. Cambria collected soil samples from six locations in the UST excavation and from selected locations under the dispensers and product piping. Cambria also collected one groundwater sample (TW) from the UST pit. The soil and groundwater sampling locations are shown on Figure 2. Cambria's Standard Tank Removal Sampling Procedures are presented as Attachment A and our Standard Piping and Dispenser Removal Sampling Procedures are presented as Attachment B.

Soil and Groundwater Sampling Chemical Analyses: All soil and groundwater samples from the UST excavation and from underneath the piping were collected by Cambria and analyzed onsite by Mobile Chem Labs Inc. of Lafayette, CA. Soil and groundwater samples were analyzed using EPA Methods 5030 and TPH LUFT with Method 8020 used for MTBE and BTEX distinction. Soil samples D-1-4.5 and D-2-4 were analyzed using EPA Method 8260B by Kiff Analytical LLC (Kiff) of Davis, CA. Laboratory analytical data for soil and groundwater is summarized in Tables 2 and 3 respectively. Laboratory analytical reports and chain of custody records are presented as Attachment C.

UST Disposal: The removed USTs were manifested and transported by Ecology Control Industries, Inc. to their facility for proper destruction.

Soil Handling: The soil stockpile generated during UST closure activities was sampled, profiled, and disposed of in accordance with Equiva procedures. Soil disposal confirmation is presented as Attachment D.

OVER-EXCAVATION ACTIVITIES

Personnel Present	*Title*	*Organization*
Barney Chan	Inspector	ACHCSA
Perry Pineda	Construction Engineer	Equiva
James Loetterle	Project Geologist	Cambria
Myron Olson	Staff Engineer	Cambria
Mark Freitas	Foreman	Paradiso
Mike Peña	Operator	Paradiso
Candido Dominguez	Assistant	Paradiso
Ron Evans	Lab Director	Mobile Chem Labs Inc.

Over-Excavation and Sampling Date: January 2-4, and 7, 2002.

Work Plan Approval: Cambria submitted a *Corrective Action Plan* (CAP) to the ACHCSA on November 12, 2001. The CAP recommended onsite over-excavation and was approved in an ACHCSA letter dated November 19, 2001.

Over-Excavation Activities: Under the direction of Cambria, Paradiso excavated pits in the areas of the former USTs and the dispenser islands. Soil samples E-1 through E-19 were collected and submitted to Mobile Chem Labs for onsite analysis to aid in determining the extent of over-excavation. Barney Chan of the ACHCSA observed the excavation pits on January 3, 2002. Physical features such as sidewalks, stockpiles, and onsite access driveways limited the excavation extent. Confirmation soil samples C-1 through C-15 were collected from the excavation sidewalls. Final excavation depths were 11 fbg beneath dispensers 3 and 4, 12 fbg in the UST pit, and 13-14 fbg beneath dispensers 1 and 2. The final limits of over-excavation, and soil and groundwater sample locations are shown on Figure 2. Cambria's *Excavation Sampling Procedures* are presented as Attachment E. Approximately 1,250 cubic yards of soil were excavated from the around UST pit and beneath the dispenser islands.

During over-excavation activities, mobile vacuum trucks from Phillips Services Company (PSC) extracted groundwater from the UST pit. Approximately 16,000 gallons of groundwater was extracted from the UST pit and transported offsite.

After the final limits of over-excavation were attained and final confirmation soil samples were collected, a total of 810 pounds of powdered ORC was placed at the excavation bottom. The total was recommended by the ORC vendor, Regenesis, based on a 3,400 square foot excavation bottom. Given that the actual excavation bottom was approximately 2,300 square feet, an abundance of ORC was used. While onsite, the ACHCSA inspector recommended that more ORC be spread in the northern dispenser area than in other areas due to the relative degree of residual impact. To satisfy the request, approximately 300 pounds were spread in northern dispenser area, 270 pounds were spread in the UST area, and 240 pounds were spread in the western dispenser area.

Soil and Groundwater Sample Chemical Analyses: Cambria delivered over-excavation soil samples E-1 through E-19 and over-excavation groundwater sample TEW to Mobile Chem Labs Inc. for analysis. Mobile Chem Labs Inc. analyzed the samples for MTBE, TPHg, BTEX, TAME, ETBE, DIPE, TBA, and ethanol by EPA Methods 5030 and 8260. Kiff analyzed confirmation samples C-1 through C-15 for TPHg, BTEX, and MTBE by EPA Method 8260B. TPHg, BTEX and MTBE analytical results for soil and groundwater are summarized in Tables 2 and 3 respectively. Other analyte data are presented in the laboratory analytical reports with chain of custody records in Attachment C.

Soil Handling: The soil stockpile generated during over-excavation activities was sampled, profiled, and disposed of in accordance with Equiva procedures. Soil disposal confirmation is presented as Attachment D.

HYDRAULIC HOIST REMOVAL ACTIVITIES

Personnel Present	*Title*	*Organization*
Keith L. Matthews	Inspector	City of Oakland Fire Service Agency
James Loetterle	Project Geologist	Cambria
Myron Olson	Staff Engineer	Cambria
Mark Freitas	Foreman	Paradiso
Mike Peña	Operator	Paradiso
Candido Dominguez	Assistant	Paradiso

Hydraulic Hoist Sampling Date: January 17, 2002.

Hydraulic Hoist Removal and Sampling Events: On January 17, 2002, Cambria collected soil samples from beneath the three hydraulic hoists located within the former station building. The hoists had been removed during the station building demolition that occurred prior to over-excavation activities. Upon arrival at the site for over-excavation activities on January 2, 2002, Cambria observed empty pits where the hydraulic hoists had been removed. Under the direction of Cambria, Paradiso excavated pits underneath each hoist location to approximately 7 fbg. Cambria collected soil samples from each pit, and then directed Paradiso to over-excavate the surrounding soil. Confirmation soil samples were collected beneath each hoist location at approximately 11 fbg. The soil stockpile created from the tank pull and over-excavation activities bounded the hydraulic hoist over-excavation pit on three sides and prevented further over-excavation. Soil sample results are summarized in Table 2 and the extent of over-excavation and soil sample locations are shown in Figure 2.

FINDINGS

Soil Sampling Results: The maximum concentrations of oxygenates and hydrocarbons detected in the UST, dispenser, and product piping removal samples were 1.4 milligrams per kilogram (mg/kg) MTBE from sample D2-4', and both 1,000 mg/kg TPHg, and 1.4 mg/kg benzene from sample D1-4.5'. The maximum concentrations of oxygenates and hydrocarbons detected after over-excavation were 0.65 mg/kg MTBE in sample C-9-9.0, and 1,800 mg/kg TPHg, and 9.6 mg/kg benzene from sample E-15-11.0. The laboratory analytical data for soil is summarized in Table 2, and soil-sampling locations are shown on Figure 2.

Groundwater Sampling Results: MTBE, benzene, and TPHg were detected in sample TW during UST removal activities at concentrations of 180, 20, and 680 µg/L respectively. These analytes were detected in sample TEW 23 days later during over-excavation activities at concentrations of 1,900, 2.7, and 590 µg/L respectively. The laboratory analytical data for groundwater is summarized in Table 3, and groundwater-sampling locations are shown on Figure 2.

CONCLUSIONS AND RECOMMENDATIONS

All surface and subsurface facilities have been removed, and surface features have been demolished. Over-excavation activities outlined in this report removed approximately 2,550 tons of soil, equivalent to approximately 1,961 cubic yards, and approximately 16,000 gallons of groundwater. Subsequent to over-excavation, 810 pounds of ORC were spread over the base of the excavations. A relatively larger amount of ORC powder was spread in the area of higher residual chemical impact before clean backfill was placed in the pits and compacted.

Analytical data from soil samples collected prior to over-excavation indicated elevated chemical concentrations beneath all four product dispenser islands. Removal of impacted soil around and beneath the product dispenser islands and USTs substantially reduced the concentrations of contaminants of concern (COCs) in these areas. Excavation bottom and confirmation sidewall samples indicate only low concentrations of residual MTBE along the bottom, northern, eastern and western edges of the excavation. The highest remaining concentrations of MTBE exist along the southern edge of the excavation. This residual impacted soil is laterally defined to the south by non-detection of MTBE in hoist samples H-1-11.0, H-2-11.0, and H-3-11.0. Several shallow confirmation sidewall samples contain low concentrations of TPHg, ethylbenzene, and xylenes, but no MTBE. Detection of these specific COCs along with dark staining of shallow soil in the excavation helps to indicate an earlier hydrocarbon release.

During UST removal, low concentrations of COCs were detected in the groundwater sample collected from the open tank pit. Removal of 16,000 gallons of groundwater from the tank pit over 6 days most likely drew impacted groundwater from beneath the product dispenser islands into the tank pit. Future groundwater monitoring events will determine if groundwater extraction from the tank pit was effective in lowering onsite aqueous-phase MTBE concentrations.

Given the recent removal of hydrocarbon and oxygenate sources, significant removal of impacted soil and groundwater, and the expected in-situ remediation of impacted groundwater through ORC placement, Cambria recommends continued groundwater monitoring to establish new COC concentration trends in groundwater. If COC concentration trends in groundwater demonstrate attenuation over time, Cambria will recommend no further action.

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CLOSING

We appreciate the opportunity to work with you on this project. Please call James Loetterle at (510) 420-3336 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc.

Stephan A. Bork
for: James Loetterle
Project Geologist

Stephan A. Bork, C.E.G, C.HG.,
Associate Hydrogeologist

REGISTERED GEOLOGIST
STEPHAN A. BORK
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A - Standard Tank Removal Sampling Procedures
B- Standard Piping and Dispenser Removal Sampling Procedures
C - Laboratory Analytical Results
D - Soil Disposal Confirmation
E - Excavation Sampling Procedures

cc: Ms. Karen Petryna, Equiva Services LLC, P.O. Box 7869 Burbank, CA 91510-7869
Mr. Perry Pineda, 1926 Contra Costa Blvd #166, Pleasant Hill, CA 94523
Mr. Alan Gibbs, Levine Fricke, 4080 Cabitt Stallman South Road, Suite 100, Granite Bay, CA, 95756
Mr. Keith L. Matthews, City of Oakland Fire Service Agency, 1605 Martin Luther King Jr. Way, Oakland, CA 94612

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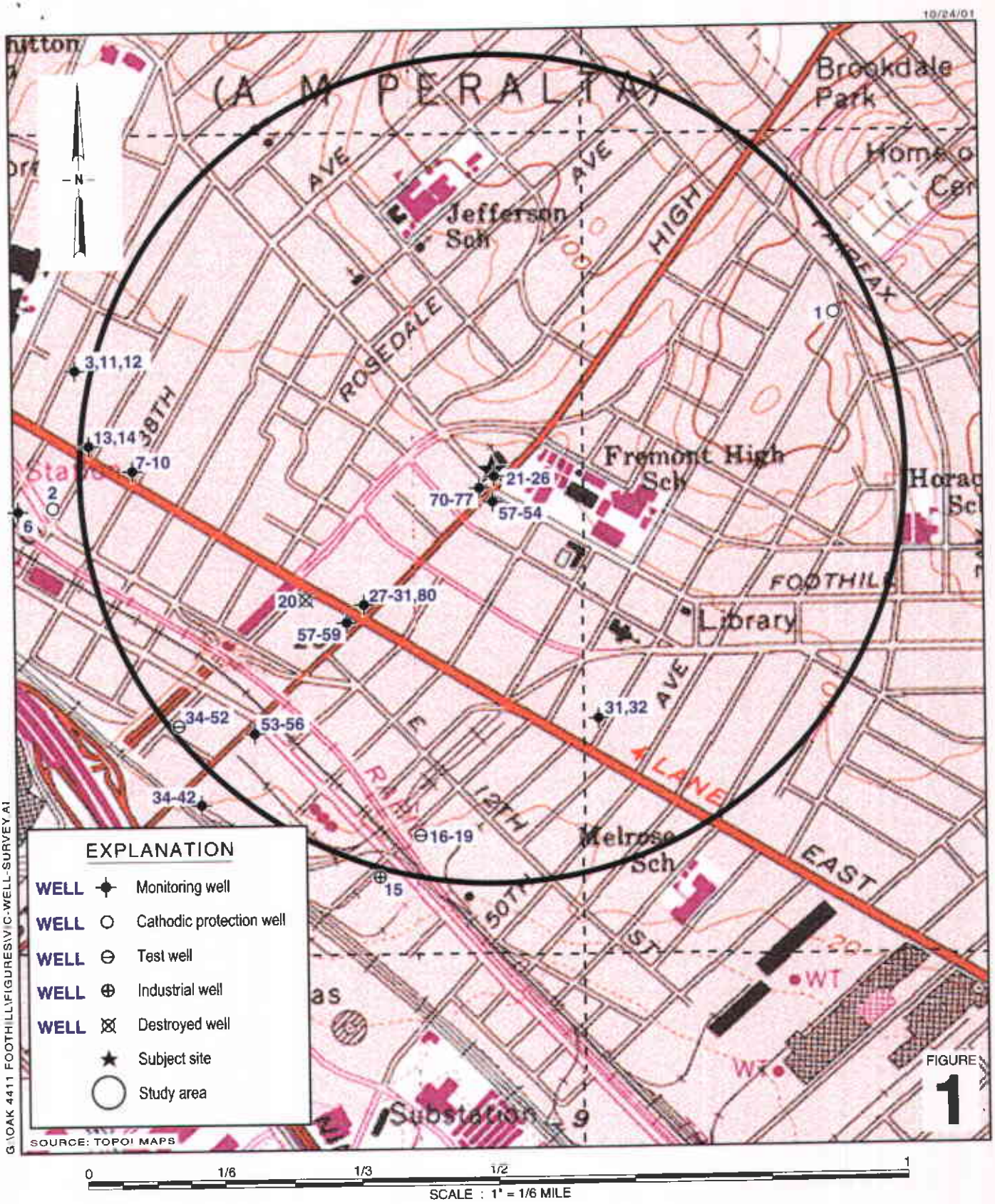

FIGURE 1

Shell-branded Service Station
4411 Foothill Boulevard
Oakland, California
Incident #98995746

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Vicinity / Area Well Survey Map

(1/2-Mile Radius)

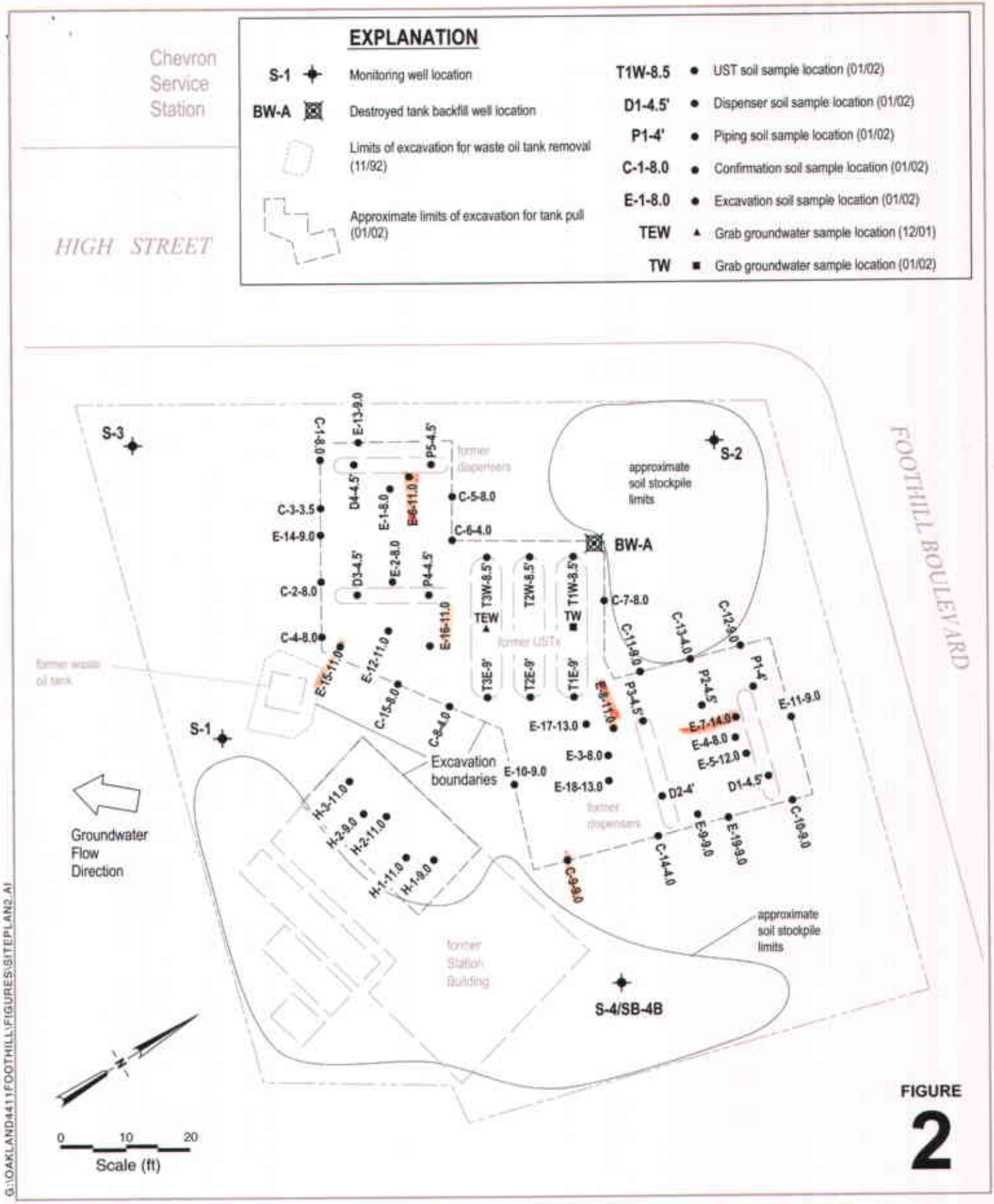

FIGURE
2

Shell-branded Service Station
4411 Foothill Boulevard
Oakland, California
Incident #98995746

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Site Map with Soil Sample Locations and Excavation Limits

G:\OAKLAND\4411FOOTHILL\FIGURES\SITEPLAN2.AI

11/12/01

Soil Boring, Well, and Utility Location Map

CAMBRIA

EAST 17th STREET

BOND STREET

HIGH STREET

FOOTHILL BOULEVARD

house

apartments

storage

house

apartments

house

commercial

Chevron Service Station

kiosk

pump islands

C-1

C-2

C-3

C-4

C-5

C-6

C-7

C-8

MW-8

MW-9

MW-2

MW-4

MW-6

MW-3

MW-5

Station Building

BP Service Station

15" Ø SS 5.5 fbg

8" Ø SS 4.6 fbg

12" Ø SS 4.8 fbg

24" Ø SD 4.4 fbg

12" Ø SD

16" Ø SS 5.9 fbg

12" Ø SD 4.0 fbg

8" Ø SS 6.2 fbg

16" Ø SS 11.1 fbg

18" Ø SS 10.7 fbg

6" Ø SS 11.5 fbg

6" Ø SS 11.5 fbg

24" Ø SD 4.1 fbg

8" Ø SS 2.7 fbg

S-1

S-2

S-3

S-4/SB-4B

SB-4

DISP-1

DISP-2

DISP-3

DISP-4

Shell-branded Service Station

canopy

pump islands

USTs

former waste oil tank

Station Building

EXPLANATION

S-1	Shell monitoring well location
SB-4	Soil boring location (01/07/00)
DISP-1	Dispenser sample location (08/26/99)
C-1	Chevron monitoring well location
MW-2	BP monitoring well location
MW-3	Groundwater extraction well
	Fire hydrant
	Storm drain
	Manhole
	Power pole
	Storm drain (SD), conduit diameter shown
	Sanitary sewer (SS), conduit diameter shown
	Overhead power lines
	Flow direction
4.0 fbg	Depth to flowline, in feet below grade

0 25 50

SCALE 1:50

FIGURE

3

Shell-branded Service Station
4411 Foothill Boulevard
Oakland, California
Incident #98995748

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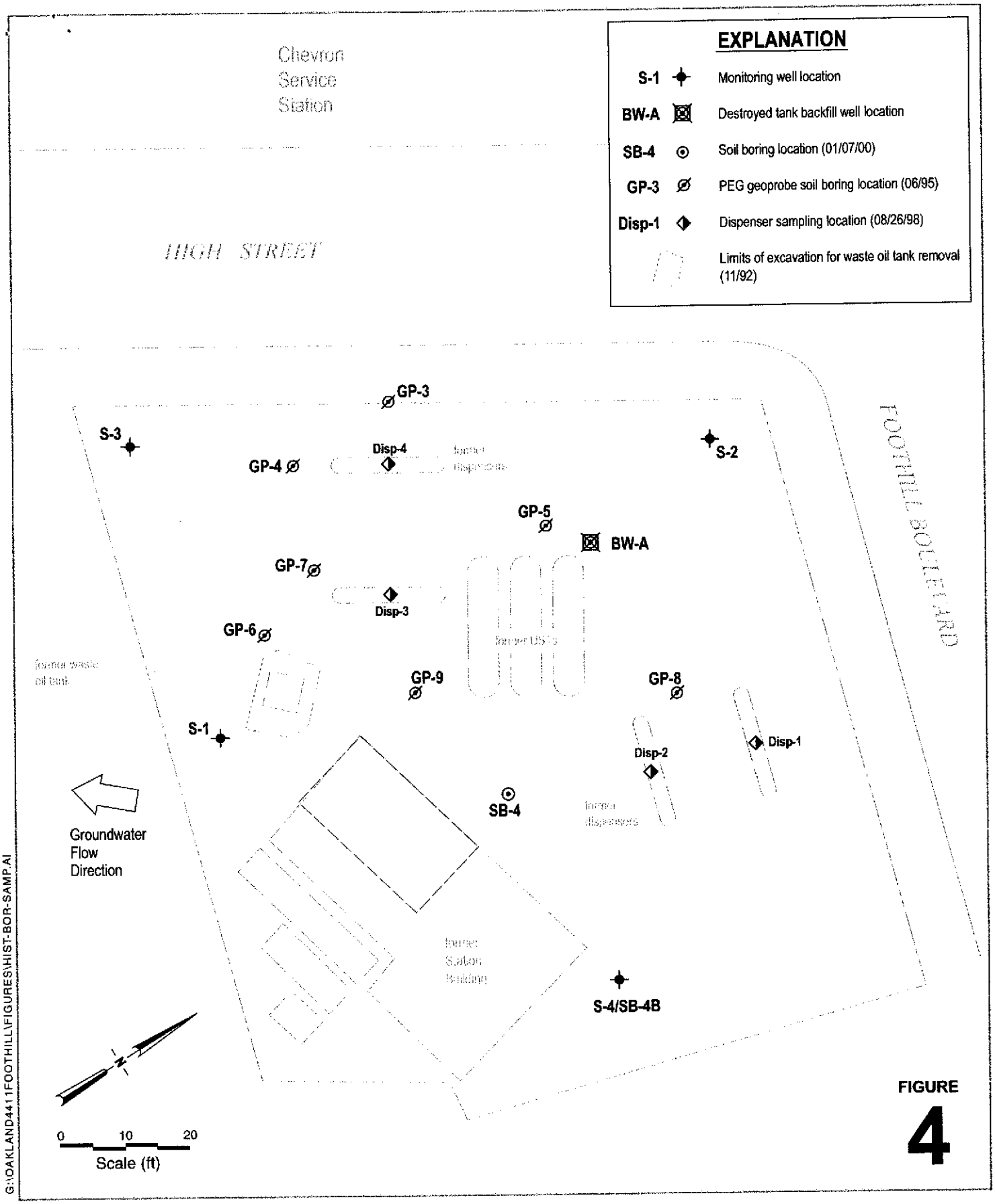

FIGURE
4

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Shell-branded Service Station
4411 Foothill Boulevard
Oakland, California
Incident #98995746

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Previous Soil Boring and Sample Locations

Table 1. Previous Soil Sample Results - Shell-branded Service Station, 4411 Foothill Blvd., Oakland California - Incident #98995746

Sample ID	Depth (fbg)	Date Sampled	MTBE	TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Xylenes	TPHmo
			← (Concentrations reported in milligrams per kilogram) →							
SW-1	11.0	2/5/1992	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---
S-1-6.0	6.0	11/24/1992	---	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<1.0
S-1-11.0	11.0	11/24/1992	---	**110**	**180**	**0.45**	<0.005	**2.2**	**8**	**390**
S-1-16.0	16.0	11/24/1992	---	**2.8**	<1.0	<0.050	**0.51**	**0.097**	**0.50**	<1.0
S-1-21.0	21.0	11/24/1992	---	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<1.0
S-1-26.0	26.0	11/24/1992	---	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<1.0
S-2-6.0	6.0	5/21/1993	---	<0.5	<10	<0.005	<0.005	<0.005	<0.005	---
S-2-10.5	10.5	5/21/1993	---	**95**	<10	<0.005	<0.005	**0.52**	**0.56**	---
S-2-15.0	15.0	5/21/1993	---	<0.5	<10	<0.005	<0.005	<0.005	**0.013**	---
S-3-6.5	6.5	5/21/1993	---	<0.5	<10	<0.005	<0.005	<0.005	<0.005	---
S-3-11.0	11.0	5/21/1993	---	**1,300**	**36**	<0.005	<0.005	**35**	**200**	---
S-3-15.0	15.0	5/21/1993	---	<0.5	<10	<0.005	**0.019**	**0.020**	**0.11**	---
GP-3-8.0	8.0	6/28/1995	---	ND	**2.0**	**0.006**	ND	ND	ND	---
GP-3-12.0	12.0	6/28/1995	---	**8.4**	**3.7**	**0.13**	**0.029**	**0.14**	**0.36**	---
GP-4-8.0	8.0	6/28/1995	---	**7.2**	**2.9**	**0.098**	**0.009**	**0.054**	**0.13**	---
GP-4-12.0	12.0	6/28/1995	---	**280.0**	**3.7**	ND	**3.1**	**3.9**	**25**	---
GP-5-8.0	8.0	6/28/1995	---	ND	ND	ND	ND	ND	ND	---
GP-5-12.0	12.0	6/28/1995	---	ND	ND	ND	ND	ND	ND	---
GP-6-8.0	8.0	6/27/1995	---	**87**	ND	**1.3**	**2.2**	**6.6**	**7.3**	---
GP-6-12.0	12.0	6/27/1995	---	**39**	ND	ND	**0.14**	**0.29**	**5.4**	---
GP-7-8.0	8.0	6/27/1995	---	ND	ND	ND	**0.15**	**0.017**	**180**	---

Table 1. Previous Soil Sample Results - Shell-branded Service Station, 4411 Foothill Blvd., Oakland California - Incident #98995746

Sample ID	Depth (fbg)	Date Sampled	MTBE	TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Xylenes	TPHmo
			← (Concentrations reported in milligrams per kilogram) →							
GP-7-12.0	12.0	6/27/1995	---	**840**	ND	**6.0**	**20**	**98**	**43**	---
GP-8-8.0	8.0	6/28/1995	---	ND	ND	ND	ND	ND	ND	---
GP-8-12.0	12.0	6/28/1995	---	**86**	ND	ND	**1.0**	**2.0**	**15**	---
GP-9-8.0	8.0	6/28/1995	---	**190**	ND	ND	**3.6**	**13**	**380**	---
GP-9-12.0	12.0	6/28/1995	---	**760**	ND	**0.71**	**17**	**76**	**41**	---
D-1(2.0)	2.0	8/26/1998	**2.5 (13)**	**1,100**	---	**9.2**	**4.1**	**15**	**61**	---
D-2(2.0)	2.0	8/26/1998	<6.2	**1,500**	---	**3.6**	**4.3**	**7.1**	**21**	---
D-3(2.0)	2.0	8/26/1998	**(1.4)**	**160**	---	**1.3**	**0.61**	**2.9**	**2.0**	---
D-4(2.0)	2.0	8/26/1998	**0.83**	**180**	---	**0.29**	**0.17**	**0.10**	**0.43**	---
SB-4-5.5	5.5	1/7/2000	<0.025	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	---
SB-4-9.0	9.0	1/7/2000	<1.25	**786**	**244.0**	**2.27**	**1.68**	**8.1**	**26.5**	---
SB-4-16.0	16.0	1/7/2000	**0.893**	**294**	**209.0**	**1.50**	**4.35**	**3.88**	**15.7**	---
SB-4-19.5	19.5	1/7/2000	<0.025	**2.08**	<1.0	**0.212**	**0.0168**	**0.0168**	**0.0167**	---
SB-4-24.5	24.5	1/7/2000	<0.025	<1.0	<1.0	**0.00724**	<0.005	<0.005	<0.005	---
SB-4B-5.5	5.5	1/7/2000	**0.0345 (0.0603)**	**28.2**	**27.2**	**0.0176**	<0.01	**0.0408**	**0.0738**	---
SB-4B-10.5	10.5	1/7/2000	<0.125	**6.19**	<5.0	**0.0696**	<0.025	**0.0915**	<0.025	---
SB-4B-19.0	19.0	1/7/2000	**0.0549 (0.233)**	<1.0	<5.0	**0.0445**	<0.005	<0.005	<0.005	---

Table 1. Previous Soil Sample Results - Shell-branded Service Station, 4411 Foothill Blvd., Oakland California - Incident #98995746

Sample ID	Depth (fbg)	Date Sampled	MTBE	TPHg	TPHd	Benzene	Toluene	Ethylbenzene	Xylenes	TPHmo
			← (Concentrations reported in milligrams per kilogram) →							

Notes and Abbreviations:

Samples analyzed for:
MTBE = Methyl tertiary butyl ether by EPA Method 8260 (EPA Mehtod 8020)
TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015 (Modified)
TPHg = Total petroleum hydrocarbons calculated as gasoline by EPA Method 8015 (Modified)
Benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020 (Modified)
TPHmo = Total petroleum hydrocarbons as motor oil

mg/kg = ppm
--- = sample not analyzed for this constituent.
ND = non detect

Table 2. Soil Analytical Results - Shell-branded Service Station, 4411 Foothill Blvd., Oakland California - Incident #98995746

Sample ID	Depth (fbg)	Date Sampled	MTBE	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	Hydraulic Oil
			← (Concentrations reported in milligrams per kilogram) →						
T1W-8.5' (A1)	8.5	12/11/2001	**0.034**	<1.0	<0.005	<0.005	<0.005	<0.005	---
T1E-9' (A1)	9.0	12/11/2001	**0.14**	**5.0**	<0.005	<0.005	**0.049**	**0.04**	---
T2W-8.5' (A1)	8.5	12/11/2001	**0.12**	<1.0	<0.005	<0.005	<0.005	<0.005	---
T2E-9' (A1)	9.0	12/11/2001	**0.012**	<1.0	<0.005	**0.015**	<0.005	**0.020**	---
T3W-8.5' (A1)	8.5	12/11/2001	**0.21**	**1.8**	<0.005	<0.005	<0.005	**0.015**	---
T3E-9' (A1)	9.0	12/11/2001	**0.32**	**1.2**	<0.005	<0.005	<0.005	<0.005	---
D1-4.5' (B)	4.5	12/11/2001	**0.35**	**1,000**	**1.4**	**0.20**	**15**	**5.1**	---
D2-4' (B)	4.0	12/11/2001	**1.4**	**270**	**0.18**	<0.050	**0.11**	**0.094**	---
D3-4.5' (A1)	4.5	12/11/2001	**0.058**	**6.3**	**0.097**	**0.007**	**0.036**	**0.024**	---
D4-4.5' (A1)	4.5	12/11/2001	**0.021**	**4.9**	**0.12**	<0.005	**0.033**	**0.067**	---
P1-4' (A1)	4.0	12/11/2001	**0.009**	<1.0	<0.005	<0.005	<0.005	<0.005	---
P2-4.5' (A1)	4.5	12/11/2001	**0.061**	<1.0	<0.005	<0.005	<0.005	<0.005	---
P3-4.5' (A1)	4.5	12/11/2001	<0.005	**4.1**	<0.005	<0.005	<0.005	<0.005	---
P4-4.5' (A1)	4.5	12/11/2001	**0.13**	**11**	**0.035**	<0.005	**0.035**	**0.012**	---
P5-4.5' (A1)	4.5	12/11/2001	**0.14**	**51**	<0.005	<0.005	<0.005	**0.34**	---

Table 2. Soil Analytical Results - Shell-branded Service Station, 4411 Foothill Blvd., Oakland California - Incident #98995746

Sample ID	Depth (fbg)	Date Sampled	MTBE	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	Hydraulic Oil
			(Concentrations reported in milligrams per kilogram)						
E-1-8.0 (A2)	8.0	1/2/2002	<0.02	9.5	0.19	0.09	0.94	5.2	---
E-2-8.0 (A2)	8.0	1/2/2002	0.23	7.5	0.23	0.04	0.91	2.0	---
E-3-8.0 (A2)	8.0	1/2/2002	0.54	3.7	0.46	0.06	3.9	0.52	---
E-4-8.0 (A2)	8.0	1/2/2002	0.041	1.5	0.093	0.005	0.005	0.006	---
E-5-12.0 (A2)	12.0	1/2/2002	<0.02	54	0.71	0.46	2.6	16	---
E-6-11.0 (A2)	11.0	1/2/2002	<0.02	75	2.9	3.6	12	54	---
E-7-14.0 (A2)	14.0	1/2/2002	<0.02	41	1.0	0.53	2.2	11	---
E-8-11.0 (A2)	11.0	1/2/2002	<0.02	310	2.0	1.8	14	77	---
E-9-9.0 (A2)	9.0	1/2/2002	0.03	55	0.06	0.03	0.05	0.08	---
E-10-9.0 (A2)	9.0	1/3/2002	0.082	<0.20	0.002	0.004	<0.002	0.007	---
E-11-9.0 (A2)	9.0	1/3/2002	0.010	<0.20	0.007	<0.002	<0.002	<0.002	---
E-12-11.0 (A2)	11.0	1/3/2002	0.48	23	1.1	0.12	2.0	12	---
E-13-9.0 (A2)	9.0	1/3/2002	0.012	<0.20	<0.002	<0.002	<0.002	<0.002	---
E-14-9.0 (A2)	9.0	1/3/2002	0.024	2.7	0.005	<0.002	0.19	0.23	---
E-15-11.0 (A2)	11.0	1/4/2002	0.33	1,800	9.6	42	100	590	---
E-16-11.0 (A2)	11.0	1/4/2002	<0.02	770	3.8	2.8	37	210	---
E-17-13.0 (A2)	13.0	1/4/2002	0.04	31	0.65	0.19	2.5	8.3	---
E-18-13.0 (A2)	13.0	1/4/2002	<0.02	17	1.2	2.8	1.0	2.2	---
E-19-9.0 (A2)	9.0	1/4/2002	0.014	0.54	0.002	<0.002	0.004	0.027	---

Table 2. Soil Analytical Results - Shell-branded Service Station, 4411 Foothill Blvd., Oakland California - Incident #98995746

Sample ID	Depth (fbg)	Date Sampled	MTBE	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	Hydraulic Oil
			← (Concentrations reported in milligrams per kilogram) →						
C-1-8.0 (B)	8.0	1/7/2002	<0.5	<1.0	<0.005	<0.005	<0.005	<0.005	---
C-2-8.0 (B)	8.0	1/7/2002	<0.5	<1.0	<0.005	<0.005	<0.005	<0.010	---
C-3-3.5 (B)	3.5	1/7/2002	<0.5	<1.0	<0.005	<0.005	<0.005	<0.005	---
C-4-8.0 (B)	8.0	1/7/2002	<0.5	**290**	**0.15**	<0.050	**4.9**	**8.9**	---
C-5-8.0 (B)	8.0	1/7/2002	<0.5	<1.0	<0.005	<0.005	<0.005	<0.005	---
C-6-4.0 (B)	4.0	1/7/2002	<0.5	**6.5**	<0.005	<0.005	<0.005	<0.010	---
C-7-8.0 (B)	8.0	1/7/2002	<0.5	**87**	<0.025	<0.025	**0.43**	<0.050	---
C-8-4.0 (B)	8.0	1/7/2002	<0.5	**81**	**0.026**	<0.025	**0.038**	<0.050	---
C-9-9.0 (B)	9.0	1/7/2002	**0.65**	<1.0	<0.005	<0.005	<0.005	<0.005	---
C-10-9.0 (B)	9.0	1/7/2002	<0.5	**84**	**0.039**	<0.025	**0.61**	**0.27**	---
C-11-9.0 (B)	9.0	1/7/2002	<0.5	<1.0	<0.005	<0.005	<0.005	<0.005	---
C-12-9.0 (B)	9.0	1/7/2002	<0.5	**6.6**	<0.010	<0.010	**0.013**	<0.025	---
C-13-4.0 (B)	4.0	1/7/2002	<0.5	**2.7**	<0.005	<0.005	<0.005	<0.005	---
C-14-4.0 (B)	4.0	1/7/2002	<0.5	**11**	<0.050	<0.050	<0.050	<0.10	---
C-15-8.0 (B)	8.0	1/7/2002	<0.5	**250**	<0.050	<0.050	**4.4**	**4.7**	---
H-1-9.0 (B)	9.0	1/17/2002	<0.5	**120**	**0.094**	<0.025	**0.047**	**0.18**	**14,000**
H-1-11.0 (B)	11.0	1/17/2002	<0.5	**210**	**0.2**	**0.071**	**2.2**	**10**	**230**
H-2-9.0 (B)	9.0	1/17/2002	<0.5	**32**	**0.015**	<0.005	**0.048**	**0.053**	<10
H-2-11.0 (B)	11.0	1/17/2002	<0.5	**400**	**0.54**	**0.1**	**7.3**	**24**	**78**
H-3-11.0 (B)	11.0	1/17/2002	<0.5	**250**	**0.21**	**0.52**	**3.1**	**14**	<10

Table 2. Soil Analytical Results - Shell-branded Service Station, 4411 Foothill Blvd., Oakland California - Incident #98995746

Sample ID	Depth (fbg)	Date Sampled	MTBE	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	Hydraulic Oil
			(Concentrations reported in milligrams per kilogram)						

Notes and Abbreviations:

(A1) Samples analyzed by Mobile Chem Labs Inc. for:
MTBE = Methyl tertiary-butyl ether by EPA Method 8020
TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 5030 and TPH LUFT
Benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020

(A2) Samples analyzed br Mobile Chem Labs for:
MTBE by EPA Method 8260
TPHg by EPA Method 8260
BTEX by EPA Method 8260

(B) Samples analyzed by Kiff Analytical for:
TPHg by modified EPA Method 8260B
MTBE by EPA Method 8260B
BTEX by EPA Method 8260B
Hydraulic Oil by EPA Method 8260B

mg/kg = ppm
--- = sample not analyzed for this constituent.
0.35 =sample and surrounding soil subsequently over-excavated

Table 2. Groundwater Analytical Data - Shell-branded Service Station, 4411 Foothill Blvd., Oakland California - Incident #98995744

Sample ID	Date Sampled	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DIPE	ETBE	TAME	TBA	Ethanol
		← (Concentrations reported in micrograms per liter) →										
TW (A)	12/11/2001	**680**	**20**	**24**	**1.5**	**62**	**180**	---	---	---	---	---
TEW (B)	1/3/2002	**590**	**2.7**	**2.3**	<2.0	**6.4**	**1,900**	<2.0	<2.0	<2.0	<2.0	<2.0

Notes and Abbreviations:

(A) Samples analyzed by Mobile Chem Labs for:
TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 5030
Benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020
MTBE = Methyl tertiary-butyl ether by EPA Method 8020

(B) Samples analyzed by Mobile Chem Labs for:
TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8260
Benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8260
MTBE = Methyl tertiary-butyl ether by EPA Method 8260
DIPE = Diisopropyl ether by EPA Method 8260
ETBE = Ethyl tertiary butyl ether by EPA Method 8260
TAME = tertiary amyl methyl ether by EPA Method 8260
TBA = Tertiary butanol by EPA Method 8260
Ethanol by EPA Method 8260

680 =sample and surrounding groundwater subsequently removed
<n = Below detection limit of n µg/kg
---' = Not sampled for that constituent

ATTACHMENT A

Standard Tank Removal Sampling Procedures

STANDARD TANK REMOVAL SAMPLING PROCEDURES

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

Tank Removal Sampling

The objective of sample collection during routine underground storage tank removals is to determine whether hydrocarbons or other stored chemicals have leaked to the subsurface. If no ground water is encountered within the tank excavation, Cambria will sample native soil 1 to 2 ft beneath the removed tank. Additional soil samples may also be collected at locations of obvious spillage to determine maximum concentrations in the surrounding soils. For underground storage tanks with a capacity of less than 1,000 gallons, one soil sample is collected beneath the fill end of the tank. For tanks with a capacity of between 1,000 and 10,000 gallons, one soil sample is collected beneath each end of the tank. For tanks larger than 10,000 gallons, 3 or more soil samples are collected beneath the removed tank. We also collect one soil sample for every 20 ft of product piping.

In cases where ground water is encountered within underground storage tank excavations, Cambria will collect confirmatory soil samples from the excavation sidewalls just above the soil/ground water interface and a representative ground water sample from the excavation. The excavation is typically purged and allowed to recover prior to collecting the water sample. For tanks with capacities of 10,000 gallons or less, one soil sample is collected from the wall at each end of the tank excavation. For tanks with capacities greater than 10,000 gallons, or tank clusters, at least four soil samples are collected from the excavation walls next to the tank ends. Piping samples are collected in native soil 1 to 2 ft beneath the removed piping. One sample is typically collected for every 20 linear ft of piping unless regulatory agencies approve of different sampling requirements.

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

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

The ground water sample is collected using steam cleaned Teflon or PVC bailers, decanted into a volatile organic analysis (VOA) bottle or other appropriate clean sample container, refrigerated and transported under chain of custody to a State certified analytic laboratory.

ATTACHMENT B

Standard Piping and Dispenser Removal Sampling Procedures

CAMBRIA

STANDARD PIPING AND DISPENSER REMOVAL SAMPLING PROCEDURES

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

Piping and Dispenser Removal Sampling

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

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

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

ATTACHMENT C

Laboratory Analytical Results

MOBILE CHEM LABS INC.

1678 Reliez Valley Road • Lafayette, CA 94549
Phone (925) 945-1266 • Fax (925) 943-6884

243-0897\2162\014178

Cambria Environmental Technology, Inc.
1144 65th Street Suite B
Oakland, CA 94608
Attn: James Loetterie
Project Manager

Date Sampled: 12-11-01
Date Received: 12-11-01
Date Analyzed: 12-11-01

Sample Number	Sample Description
	Proj# 243-0897 4411 Foothill Blvd. Oakland, CA
B121001	TW WATER

ANALYSIS

	Detection Limit	Sample Results
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	50.0	680
Benzene	0.5	20
Toluene	0.5	24
Xylenes	0.5	62
Ethylbenzene	0.5	1.5
MTBE (Methyl tert-Butyl Ether)	0.5	180

QA/QC: Duplicate Deviation is 0.8 %

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for M-BTEX distinction.
(ppb) = (mg/l)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

MOBILE CHEM LABS INC.

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Cambria Environmental Technology, Inc.
1144 65th Street Suite B
Oakland, CA 94608
Attn: James Loetterie
Project Manager

Date Sampled: 12-11-01
Date Received: 12-11-01
Date Analyzed: 12-11-01

Sample Number	Sample Description
	Proj# 243-0897 4411 Foothill Blvd. Oakland, CA
B121002	T3W-8.5' SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	1.8
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	0.015
Ethylbenzene	0.005	<0.005
MTBE (Methyl tert-Butyl Ether)	0.005	0.21

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for M-BTEX distinction.
(ppm) = (mg/kg)

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Oakland, CA 94608
Attn: James Loetterie
Project Manager

Date Sampled: 12-11-01
Date Received: 12-11-01
Date Analyzed: 12-11-01

Sample Number	Sample Description
	Proj# 243-0897 4411 Foothill Blvd. Oakland, CA
B121003	T2W-8.5' SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005
MTBE (Methyl tert-Butyl Ether)	0.005	0.12

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for M-BTEX distinction. (ppm) = (mg/kg)

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Oakland, CA 94608
Attn: James Loetterie
Project Manager

Date Sampled: 12-11-01
Date Received: 12-11-01
Date Analyzed: 12-11-01

Sample Number	Sample Description
B121004	Proj# 243-0897 4411 Foothill Blvd. Oakland, CA T1W-8.5' SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005
MTBE (Methyl tert-Butyl Ether)	0.005	0.034

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for M-BTEX distinction.
(ppm) = (mg/kg)

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Project Manager

Date Sampled: 12-11-01
Date Received: 12-11-01
Date Analyzed: 12-11-01

Sample Number	Sample Description
	Proj# 243-0897 4411 Foothill Blvd. Oakland, CA
B121005	D1-4.5' SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	73
Benzene	0.005	2.0
Toluene	0.005	0.009
Xylenes	0.005	2.2
Ethylbenzene	0.005	5.3
MTBE (Methyl tert-Butyl Ether)	0.005	4.1

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for M-BTEX distinction.
(ppm) = (mg/kg)

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Attn: James Loetterie
Project Manager

Date Sampled: 12-11-01
Date Received: 12-11-01
Date Analyzed: 12-11-01

Sample Number	Sample Description
	Proj# 243-0897 4411 Foothill Blvd. Oakland, CA
B121006	P1-4' SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005
MTBE (Methyl tert-Butyl Ether)	0.005	0.009

QA/QC: Spike Recovery is 99 %
LCS Recovery is 95.5 %

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for M-BTEX distinction.
(ppm) = (mg/kg)

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Date Sampled: 12-11-01
Date Received: 12-11-01
Date Analyzed: 12-11-01

Sample Number	Sample Description
B121007	Proj# 243-0897 4411 Foothill Blvd. Oakland, CA P2-4.5' SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005
MTBE (Methyl tert-Butyl Ether)	0.005	0.061

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for M-BTEX distinction.
(ppm) = (mg/kg)

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Date Sampled: 12-11-01
Date Received: 12-11-01
Date Analyzed: 12-11-01

Sample Number	Sample Description	
	Proj# 243-0897 4411 Foothill Blvd. Oakland, CA	
B121008	D2-4'	SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	54
Benzene	0.005	0.07
Toluene	0.005	<0.005
Xylenes	0.005	0.42
Ethylbenzene	0.005	<0.005
MTBE (Methyl tert-Butyl Ether)	0.005	1.0

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for M-BTEX distinction.
(ppm) = (mg/kg)

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Project Manager

Date Sampled: 12-11-01
Date Received: 12-11-01
Date Analyzed: 12-11-01

Sample Number	Sample Description
	Proj# 243-0897 4411 Foothill Blvd. Oakland, CA
B121009	P3-4.5' SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	4.1
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005
MTBE (Methyl tert-Butyl Ether)	0.005	<0.005

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for M-BTEX distinction.
(ppm) = (mg/kg)

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243-0897\2162\014178

Cambria Environmental Technology, Inc.
1144 65th Street Suite B
Oakland, CA 94608
Attn: James Loetterie
Project Manager

Date Sampled: 12-11-01
Date Received: 12-11-01
Date Analyzed: 12-11-01

Sample Number	Sample Description
	Proj# 243-0897 4411 Foothill Blvd. Oakland, CA
B121010	TIE-9' SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	5.0
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	0.04
Ethylbenzene	0.005	0.049
MTBE (Methyl tert-Butyl Ether)	0.005	0.14

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for M-BTEX distinction.
(ppm) = (mg/kg)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

MOBILE CHEM LABS INC.

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Phone (925) 945-1266 • Fax (925) 943-6884

243-0897\2162\014178

Cambria Environmental Technology, Inc.
1144 65th Street Suite B
Oakland, CA 94608
Attn: James Loetterie
Project Manager

Date Sampled: 12-11-01
Date Received: 12-11-01
Date Analyzed: 12-11-01

Sample Number	Sample Description
	Proj# 243-0897 4411 Foothill Blvd. Oakland, CA
B121011	D3-4.5' SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	6.3
Benzene	0.005	0.097
Toluene	0.005	0.007
Xylenes	0.005	0.024
Ethylbenzene	0.005	0.036
MTBE (Methyl tert-Butyl Ether)	0.005	0.058

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for M-BTEX distinction.
(ppm) = (mg/kg)

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Cambria Environmental Technology, Inc.
1144 65th Street Suite B
Oakland, CA 94608
Attn: James Loetterie
Project Manager

Date Sampled: 12-11-01
Date Received: 12-11-01
Date Analyzed: 12-11-01

Sample Number	Sample Description	
	Proj# 243-0897 4411 Foothill Blvd. Oakland, CA	
B121012	T2E-9'	SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	<1.0
Benzene	0.005	<0.005
Toluene	0.005	0.015
Xylenes	0.005	0.020
Ethylbenzene	0.005	<0.005
MTBE (Methyl tert-Butyl Ether)	0.005	0.012

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for M-BTEX distinction.
(ppm) = (mg/kg)

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Cambria Environmental Technology, Inc.
1144 65th Street Suite B
Oakland, CA 94608
Attn: James Loetterie
Project Manager

Date Sampled: 12-11-01
Date Received: 12-11-01
Date Analyzed: 12-11-01

Sample Number	Sample Description
	Proj# 243-0897 4411 Foothill Blvd. Oakland, CA
B121013	P4-4.5' SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	11
Benzene	0.005	0.035
Toluene	0.005	<0.005
Xylenes	0.005	0.012
Ethylbenzene	0.005	0.035
MTBE (Methyl tert-Butyl Ether)	0.005	0.13

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for M-BTEX distinction.
(ppm) = (mg/kg)

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Ronald G. Evans
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Cambria Environmental Technology, Inc.
1144 65th Street Suite B
Oakland, CA 94608
Attn: James Loetterie
Project Manager

Date Sampled: 12-11-01
Date Received: 12-11-01
Date Analyzed: 12-11-01

Sample Number	Sample Description
	Proj# 243-0897 4411 Foothill Blvd. Oakland, CA
B121014	D4-4.5' SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	4.9
Benzene	0.005	0.12
Toluene	0.005	<0.005
Xylenes	0.005	0.067
Ethylbenzene	0.005	0.033
MTBE (Methyl tert-Butyl Ether)	0.005	0.021

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for M-BTEX distinction.
(ppm) = (mg/kg)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

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Cambria Environmental Technology, Inc.
1144 65th Street Suite B
Oakland, CA 94608
Attn: James Loetterie
Project Manager

Date Sampled: 12-11-01
Date Received: 12-11-01
Date Analyzed: 12-11-01

Sample Number	Sample Description	
	Proj# 243-0897 4411 Foothill Blvd. Oakland, CA	
B121015	T3E-9'	SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	1.2
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	<0.005
Ethylbenzene	0.005	<0.005
MTBE (Methyl tert-Butyl Ether)	0.005	0.32

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for M-BTEX distinction.
(ppm) = (mg/kg)

MOBILE CHEM LABS

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Lab Director

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Cambria Environmental Technology, Inc.
1144 65th Street Suite B
Oakland, CA 94608
Attn: James Loetterie
Project Manager

Date Sampled: 12-11-01
Date Received: 12-11-01
Date Analyzed: 12-11-01

Sample Number	Sample Description
	Proj# 243-0897 4411 Foothill Blvd. Oakland, CA
B121016	PS-4.5' SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	1.0	51
Benzene	0.005	<0.005
Toluene	0.005	<0.005
Xylenes	0.005	0.34
Ethylbenzene	0.005	<0.005
MTBE (Methyl tert-Butyl Ether)	0.005	0.14

Note: Analysis was performed using EPA methods 5030 and TPH LUFT with method 8020 used for M-BTEX distinction.
(ppm) = (mg/kg)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

Project No.	Site Name/Location
243-0897	4411 Foothill Boulevard Oakland

Consultant Name	Sampler Name
Cambria Environmental	Jacquelyn Jones
Address 1144 65th street, Ste C Oakland CA 94608	

MOBILE CHEM LABS, INC.
1673 RELIEZ VALLEY RD.
LAFAYETTE, CA 94549
(925) 945-1266
(925) 943-6884 fax

SAMPLE ID NUMBER	DATE	TIME	LAB ID#	SAMPLE PRESERVATION: HCL	HNO3	ICE	MATRIX: SOIL	WATER	AIR	# of Cont.	GRAB/COMP	TPH-G/BTEX	TPH-D	TOC(418.1)	TEPH	8010/601	8021/602	8260/624	LUFT-5 Met	8270/625	HVBE			
TW	12/11/01	1154		X				X		3	G	X									X			
TBW-8.5	12/11/01	1215				X	X			1	G	X									X			
T2W-8.3	12/11/01	1210				X	X			1	G	X									X			
T1W-8.5	12/11/01	1205				X	X			1	G	X									X			
D1-4.5	12/11/01	1217				X	X			1	G	X									X			
P1-4	12/11/01	1219				X	X			1	G	X									X			
P2-4.5	12/11/01	1225				X	X			1	G	X									X			
D2-4	12/11/01	1230				X	X			1	G	X									X			
P3-4.5	12/11/01	1232				X	X			1	G	X									X			
T1E-9	12/11/01	1244				X	X			1	G	X									X			
D3-4.5	12/11/01	1248				X	X			1	G	X									X			
T2E-9	12/11/01	1253				X	X			1	G	X									X			
P4-4.5	12/11/01	1255				X	X			1	G	X									X			
D4-4.5	12/11/01	1:00				X	X			1	G	X									X			
T3E-9	12/11/01	12:59				X	X			1	G	X									X			
P5-4.5	12/11/01	1:10				X	X			1	G	X									X			

Relinquished By:	Date/Time	Received By:	Comments:	Turn Around
	12/11/01 123	12/11/01 123		ASAP 24 hr
Relinquished By:	Date/Time	Received By:		

KIFF ANALYTICAL LLC

Report Number : 23958
Date : 1/2/2002

Jaquelyn Jones
Cambria Environmental Technology, Inc.
1144 65th Street, Suite B
Oakland, CA 94608

Subject : 2 Soil Samples
Project Name : 4411 Foothill Boulevard Oakland
Project Number : 243-0897

Dear Ms. Jones,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 23958
Date : 1/2/2002

Project Name : **4411 Foothill Boulevard Oakland**
Project Number : **243-0897**

Sample : **D1-4.5** Matrix : Soil Lab Number : 23958-01
Sample Date :12/11/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1.4**	0.050	mg/Kg	EPA 8260B	12/24/2001
Toluene	**0.20**	0.050	mg/Kg	EPA 8260B	12/24/2001
Ethylbenzene	**15**	0.050	mg/Kg	EPA 8260B	12/24/2001
Total Xylenes	**5.1**	0.050	mg/Kg	EPA 8260B	12/24/2001
Methyl-t-butyl ether (MTBE)	**0.35**	0.050	mg/Kg	EPA 8260B	12/24/2001
TPH as Gasoline	**1000**	20	mg/Kg	EPA 8260B	12/25/2001
Toluene - d8 (Surr)	86.0		% Recovery	EPA 8260B	12/24/2001
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	12/24/2001

Sample : **D2-4** Matrix : Soil Lab Number : 23958-02
Sample Date :12/11/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.18**	0.050	mg/Kg	EPA 8260B	12/25/2001
Toluene	**< 0.050**	0.050	mg/Kg	EPA 8260B	12/25/2001
Ethylbenzene	**0.11**	0.050	mg/Kg	EPA 8260B	12/25/2001
Total Xylenes	**0.094**	0.050	mg/Kg	EPA 8260B	12/25/2001
Methyl-t-butyl ether (MTBE)	**1.4**	0.050	mg/Kg	EPA 8260B	12/25/2001
TPH as Gasoline	**270**	5.0	mg/Kg	EPA 8260B	12/25/2001
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	12/25/2001
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	12/25/2001

Joel Kiff

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 23958

Date : 1/2/2002

QC Report : Method Blank Data

Project Name : **4411 Foothill Boulevard Oakland**

Project Number : **243-0897**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/22/2001
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/22/2001
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/22/2001
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/22/2001
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/22/2001
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	12/22/2001
Toluene - d8 (Surr)	99.5		%	EPA 8260B	12/22/2001
4-Bromofluorobenzene (Surr)	102		%	EPA 8260B	12/22/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 23958

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 1/2/2002

Project Name : **4411 Foothill Boulevard**

Project Number : **243-0897**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	23895-01	<0.0050	0.0398	0.0392	0.0382	0.0376	mg/Kg	EPA 8260B	12/22/2009	5.9	96.0	0.0782	70-130	25
Toluene	23895-01	<0.0050	0.0398	0.0392	0.0372	0.0368	mg/Kg	EPA 8260B	12/22/2009	3.4	93.9	0.560	70-130	25
Tert-Butanol	23895-01	<0.0050	0.199	0.196	0.186	0.176	mg/Kg	EPA 8260B	12/22/2009	3.2	89.7	3.77	70-130	25
Methyl-t-Butyl Ether	23895-01	<0.0050	0.0398	0.0392	0.0393	0.0390	mg/Kg	EPA 8260B	12/22/2009	8.6	99.5	0.883	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 23958

Date : 1/2/2002

QC Report : Laboratory Control Sample (LCS)

Project Name : **4411 Foothill Boulevard**

Project Number : **243-0897**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0388	mg/Kg	EPA 8260B	12/22/200	99.3	70-130
Toluene	0.0388	mg/Kg	EPA 8260B	12/22/200	96.2	70-130
Tert-Butanol	0.194	mg/Kg	EPA 8260B	12/22/200	99.3	70-130
Methyl-t-Butyl Ether	0.0388	mg/Kg	EPA 8260B	12/22/200	96.4	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

MOBILE CHEM LABS, INC.
1878 RELIEZ VALLEY RD.
LAFAYETTE, CA 94549
(925) 945-1266
(925) 943-6884 fax

014178

Project No.	Site Name/Location
243-0897	4411 Foothill Boulevard Oakland 23958

Consultant Name: Cambria Environmental
Address: 1144 65 th street, Ste C Oakland CA 94608
Sampler Name: Jacquelyn Jones

Sample ID Number	Date	Time	Lab ID 8121	HCL	HNO3	ICE	SOIL	WATER	AIR	# of Cont.	GRAB/COMP	TPH-G/BTEX	TPH-D	TOG(418.1)	TEPH	8010/601	8081/608	8260/624	LUFT-5 Met	8270/625	MTBE		
~~TW~~	12/11/01	11:54	001	X				X		3	g	X									X		
~~T1W-8.5~~	12/11/01	1215	002			X	X			1	g	X									X		
~~T2W-8.3~~	12/11/01	1210	003			X	X			1	g	X									X		
~~T3W-8.5~~	12/11/01	1205	004			X	X			1	g	X									X		
D1-4.5	12/11/01	1217	005			X	X			1	g	X									X		
P1-4	12/11/01	1219	006			X	X			1	g	X									X		
P2-4.5	12/11/01	1225	007			X	X			1	g	X									X		
D2-4	12/11/01	1230	008			X	X			1	g	X									X		
P3-4.5	12/11/01	1232	009			X	X			1	g	X									X		
T1E-9	12/11/01	1244	010			X	X			1	g	X									X		
D3-4.5	12/11/01	1248	011			X	X			1	g	X									X		
T2E-9	12/11/01	1253	012			X	X			1	g	X									X		
P4-4.5	12/11/01	1255	013			X	X			1	g	X									X		
D4-4.5	12/11/01	1:00	014			X	X			1	g	X									X		
T3E-9	12/11/01	12:59	015			X	X			1	g	X									X		
P5-4.5	12/11/01	1:10	016			X	X			1	g	X									X		

Margin notes: T3 W, T2 W, T1 W, 01, 02

Relinquished By:	Date/Time	Received By:	Comments:	Turn Around
[signature]	12/11/01 123	[signature] 123	[illegible]	[illegible]
[signature]	12-12-01 125	[signature]		

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243-0897\2162\014180

Cambria Environmental Technology, Inc.
1144 65th Street Suite B
Oakland, CA 94608
Attn: James Loetterie
Project Manager

Date Sampled: 01-02-02
Date Received: 01-02-02
Date Analyzed: 01-02-02

Sample Number	Sample Description
	Shell Station 4411 Foothill Blvd. Oakland, CA
B012001	E-1-8.0 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	2.0 *	9.5
Benzene	0.02	0.19
Toluene	0.02	0.09
Xylenes	0.02	5.2
Ethylbenzene	0.02	0.94
MTBE(Methyl tert-Butyl Ether)	0.02	<0.02
TAME(Tert. Amyl Methyl Ether)	0.02	<0.02
ETBE(Ethyl tert-Butyl Ether)	0.02	<0.02
DIPE(Di-Isopropyl Ether)	0.02	<0.02
Tertiary Butanol	0.50	<0.50
Ethanol	2.0	<2.0

QA/QC: Duplicate Deviation is 3.0 %

Note: Analysis was performed using EPA methods 5030 and with method 8260 used for Gasoline , BTEX & Oxygenates distinction. * = DL raised due to dilution.
(ppm) = (mg/kg)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

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Cambria Environmental Technology, Inc.
1144 65th Street Suite B
Oakland, CA 94608
Attn: James Loetterie
Project Manager

Date Sampled: 01-02-02
Date Received: 01-02-02
Date Analyzed: 01-02-02

Sample Number	Sample Description
B012002	Shell Station 4411 Foothill Blvd. Oakland, CA E-2-8.0 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	2.0 *	7.8
Benzene	0.02	0.23
Toluene	0.02	0.04
Xylenes	0.02	2.0
Ethylbenzene	0.02	0.91
MTBE(Methyl tert-Butyl Ether)	0.02	0.23
TAME(Tert. Amyl Methyl Ether)	0.02	<0.02
ETBE(Ethyl tert-Butyl Ether)	0.02	<0.02
DIPE(Di-Isopropyl Ether)	0.02	<0.02
Tertiary Butanol	0.50	<0.50
Ethanol	2.0	<2.0

Note: Analysis was performed using EPA methods 5030 and with method 8260 used for Gasoline , BTEX & Oxygenates distinction. * = DL raised due to dilution.
(ppm) = (mg/kg)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

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1144 65th Street Suite B
Oakland, CA 94608
Attn: James Loetterie
Project Manager

Date Sampled: 01-02-02
Date Received: 01-02-02
Date Analyzed: 01-02-02

Sample Number	Sample Description
B012003	Shell Station 4411 Foothill Blvd. Oakland, CA E-3-8.0 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	2.0 *	3.7
Benzene	0.02	0.46
Toluene	0.02	0.06
Xylenes	0.02	0.52
Ethylbenzene	0.02	3.9
MTBE(Methyl tert-Butyl Ether)	0.02	0.54
TAME(Tert. Amyl Methyl Ether)	0.02	<0.02
ETBE(Ethyl tert-Butyl Ether)	0.02	<0.02
DIPE(Di-Isopropyl Ether)	0.02	<0.02
Tertiary Butanol	0.50	<0.50
Ethanol	2.0	<2.0

Note: Analysis was performed using EPA methods 5030 and with method 8260 used for Gasoline , BTEX & Oxygenates distinction. * = DL raised due to dilution.
(ppm) = (mg/kg)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

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Cambria Environmental Technology, Inc.
1144 65th Street Suite B
Oakland, CA 94608
Attn: James Loetterie
Project Manager

Date Sampled: 01-02-02
Date Received: 01-02-02
Date Analyzed: 01-02-02

Sample Number	Sample Description
B012004	Shell Station 4411 Foothill Blvd. Oakland, CA E-4-8.0 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	0.20	1.5
Benzene	0.002	0.093
Toluene	0.002	0.005
Xylenes	0.002	0.006
Ethylbenzene	0.002	0.005
MTBE(Methyl tert-Butyl Ether)	0.002	0.041
TAME(Tert. Amyl Methyl Ether)	0.002	<0.002
ETBE(Ethyl tert-Butyl Ether)	0.002	<0.002
DIPE(Di-Isopropyl Ether)	0.002	<0.002
Tertiary Butanol	0.050	<0.050
Ethanol	0.200	<0.200

QA/QC: Spike Recovery is 89 %
LCS Recovery is 91 %

Note: Analysis was performed using EPA methods 5030 and with method 8260 used for Gasoline , BTEX & Oxygenates distinction.
(ppm) = (mg/kg)

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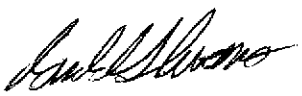

Ronald G. Evans
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Cambria Environmental Technology, Inc.
1144 65th Street Suite B
Oakland, CA 94608
Attn: James Loetterie
Project Manager

Date Sampled: 01-02-02
Date Received: 01-02-02
Date Analyzed: 01-03-02

Sample Number	Sample Description
B012005	Shell Station 4411 Foothill Blvd. Oakland, CA E-5-12.0 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	2.0 *	54
Benzene	0.02	0.71
Toluene	0.02	0.46
Xylenes	0.02	16
Ethylbenzene	0.02	2.6
MTBE(Methyl tert-Butyl Ether)	0.02	<0.02
TAME(Tert. Amyl Methyl Ether)	0.02	<0.02
ETBE(Ethyl tert-Butyl Ether)	0.02	<0.02
DIPE(Di-Isopropyl Ether)	0.02	<0.02
Tertiary Butanol	0.50	<0.50
Ethanol	2.0	<2.0

Note: Analysis was performed using EPA methods 5030 and with method 8260 used for Gasoline , BTEX & Oxygenates distinction. * = DL raised due to dilution.
(ppm) = (mg/kg)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

MOBILE CHEM LABS INC.

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Oakland, CA 94608
Attn: James Loetterie
Project Manager

Date Sampled: 01-03-02
Date Received: 01-03-02
Date Analyzed: 01-03-02

Sample Number	Sample Description
B012006	Shell Station 4411 Foothill Blvd. Oakland, CA E-6-11.0 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	2.0 *	75
Benzene	0.02	2.9
Toluene	0.02	3.6
Xylenes	0.02	54
Ethylbenzene	0.02	12
MTBE(Methyl tert-Butyl Ether)	0.02	<0.02
TAME(Tert. Amyl Methyl Ether)	0.02	<0.02
ETBE(Ethyl tert-Butyl Ether)	0.02	<0.02
DIPE(Di-Isopropyl Ether)	0.02	<0.02
Tertiary Butanol	0.50	<0.50
Ethanol	2.0	<2.0

Note: Analysis was performed using EPA methods 5030 and with method 8260 used for Gasoline , BTEX & Oxygenates distinction. * = DL raised due to dilution.
(ppm) = (mg/kg)

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Project Manager

Date Sampled: 01-03-02
Date Received: 01-03-02
Date Analyzed: 01-03-02

Sample Number	Sample Description
B012007	Shell Station 4411 Foothill Blvd. Oakland, CA E-7-14.0 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	2.0 *	41
Benzene	0.02	1.0
Toluene	0.02	0.53
Xylenes	0.02	11
Ethylbenzene	0.02	2.2
MTBE(Methyl tert-Butyl Ether)	0.02	<0.02
TAME(Tert. Amyl Methyl Ether)	0.02	<0.02
ETBE(Ethyl tert-Butyl Ether)	0.02	<0.02
DIPE(Di-Isopropyl Ether)	0.02	<0.02
Tertiary Butanol	0.50	<0.50
Ethanol	2.0	<2.0

QA/QC: Duplicate Deviation is 2.2 %

Note: Analysis was performed using EPA methods 5030 and with method 8260 used for Gasoline , BTEX & Oxygenates distinction. * = DL raised due to dilution.
(ppm) = (mg/kg)

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Project Manager

Date Sampled: 01-03-02
Date Received: 01-03-02
Date Analyzed: 01-07-02

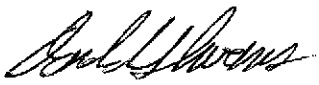
Sample Number	Sample Description
B012008	Shell Station 4411 Foothill Blvd. Oakland, CA E-8-11.0 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	20 *	310
Benzene	0.2	2.0
Toluene	0.2	1.8
Xylenes	0.2	77
Ethylbenzene	0.2	14
MTBE(Methyl tert-Butyl Ether)	0.2	<0.02
TAME(Tert. Amyl Methyl Ether)	0.2	<0.02
ETBE(Ethyl tert-Butyl Ether)	0.2	<0.02
DIPE(Di-Isopropyl Ether)	0.2	<0.02
Tertiary Butanol	5.0	<0.50
Ethanol	20	<2.0

Note: Analysis was performed using EPA methods 5030 and with method 8260 used for Gasoline , BTEX & Oxygenates distinction. * = DL raised due to dilution.
(ppm) = (mg/kg)

MOBILE CHEM LABS



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Attn: James Loetterie
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Date Sampled: 01-03-02
Date Received: 01-03-02
Date Analyzed: 01-03-02

Sample Number	Sample Description
B012009	Shell Station 4411 Foothill Blvd. Oakland, CA E-9-9.0 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	2.0 *	55
Benzene	0.02	0.06
Toluene	0.02	0.03
Xylenes	0.02	0.08
Ethylbenzene	0.02	0.05
MTBE(Methyl tert-Butyl Ether)	0.02	0.03
TAME(Tert. Amyl Methyl Ether)	0.02	<0.02
ETBE(Ethyl tert-Butyl Ether)	0.02	<0.02
DIPE(Di-Isopropyl Ether)	0.02	<0.02
Tertiary Butanol	0.50	<0.50
Ethanol	2.0	<2.0

Note: Analysis was performed using EPA methods 5030 and with method 8260 used for Gasoline , BTEX & Oxygenates distinction. * = DL raised due to dilution.
(ppm) = (mg/kg)

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Date Sampled: 01-03-02
Date Received: 01-03-02
Date Analyzed: 01-03-02

Sample Number	Sample Description
B012010	Shell Station 4411 Foothill Blvd. Oakland, CA E-10-9.0 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	0.20	<0.20
Benzene	0.002	0.002
Toluene	0.002	0.004
Xylenes	0.002	0.007
Ethylbenzene	0.002	<0.002
MTBE(Methyl tert-Butyl Ether)	0.002	0.082
TAME(Tert. Amyl Methyl Ether)	0.002	<0.002
ETBE(Ethyl tert-Butyl Ether)	0.002	<0.002
DIPE(Di-Isopropyl Ether)	0.002	<0.002
Tertiary Butanol	0.050	<0.050
Ethanol	0.200	<0.200

QA/QC: Spike Recovery is 111 %
LCS Recovery is 93 %

Note: Analysis was performed using EPA methods 5030 and with method 8260 used for Gasoline , BTEX & Oxygenates distinction.
(ppm) = (mg/kg)

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Date Sampled: 01-03-02
Date Received: 01-03-02
Date Analyzed: 01-07-02

Sample Number	Sample Description
B012011	Shell Station 4411 Foothill Blvd. Oakland, CA E-11-9.0 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	0.20	<0.20
Benzene	0.002	0.007
Toluene	0.002	<0.002
Xylenes	0.002	<0.002
Ethylbenzene	0.002	<0.002
MTBE(Methyl tert-Butyl Ether)	0.002	0.010
TAME(Tert. Amyl Methyl Ether)	0.002	<0.002
ETBE(Ethyl tert-Butyl Ether)	0.002	<0.002
DIPE(Di-Isopropyl Ether)	0.002	<0.002
Tertiary Butanol	0.050	<0.050
Ethanol	0.200	<0.200

QA/QC: Spike Recovery is 102 %
LCS Recovery is 96 %

Note: Analysis was performed using EPA methods 5030 and with method 8260 used for Gasoline , BTEX & Oxygenates distinction.
(ppm) = (mg/kg)

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Date Sampled: 01-03-02
Date Received: 01-03-02
Date Analyzed: 01-03-02

Sample Number	Sample Description
B012013	Shell Station 4411 Foothill Blvd. Oakland, CA E-12-11.0 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	2.0 *	23
Benzene	0.02	1.1
Toluene	0.02	0.12
Xylenes	0.02	12
Ethylbenzene	0.02	2.0
MTBE(Methyl tert-Butyl Ether)	0.02	0.48
TAME(Tert. Amyl Methyl Ether)	0.02	<0.02
ETBE(Ethyl tert-Butyl Ether)	0.02	<0.02
DIPE(Di-Isopropyl Ether)	0.02	<0.02
Tertiary Butanol	0.50	<0.50
Ethanol	2.0	<2.0

Note: Analysis was performed using EPA methods 5030 and with method 8260 used for Gasoline , BTEX & Oxygenates distinction. * = DL raised due to dilution.
(ppm) = (mg/kg)

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Date Sampled: 01-03-02
Date Received: 01-03-02
Date Analyzed: 01-07-02

Sample Number	Sample Description
B012014	Shell Station 4411 Foothill Blvd. Oakland, CA E-13-9.0 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	0.20	<0.20
Benzene	0.002	<0.002
Toluene	0.002	<0.002
Xylenes	0.002	<0.002
Ethylbenzene	0.002	<0.002
MTBE(Methyl tert-Butyl Ether)	0.002	0.012
TAME(Tert. Amyl Methyl Ether)	0.002	<0.002
ETBE(Ethyl tert-Butyl Ether)	0.002	<0.002
DIPE(Di-Isopropyl Ether)	0.002	<0.002
Tertiary Butanol	0.050	<0.050
Ethanol	0.200	<0.200

Note: Analysis was performed using EPA methods 5030 and with method 8260 used for Gasoline , BTEX & Oxygenates distinction.
(ppm) = (mg/kg)

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Date Sampled: 01-03-02
Date Received: 01-03-02
Date Analyzed: 01-07-02

Sample Number	Sample Description
B012015	Shell Station 4411 Foothill Blvd. Oakland, CA E-14-9.0 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	0.20	2.7
Benzene	0.002	0.005
Toluene	0.002	<0.002
Xylenes	0.002	0.23
Ethylbenzene	0.002	0.19
MTBE(Methyl tert-Butyl Ether)	0.002	0.024
TAME(Tert. Amyl Methyl Ether)	0.002	<0.002
ETBE(Ethyl tert-Butyl Ether)	0.002	<0.002
DIPE(Di-Isopropyl Ether)	0.002	<0.002
Tertiary Butanol	0.050	<0.050
Ethanol	0.200	<0.200

Note: Analysis was performed using EPA methods 5030 and with method 8260 used for Gasoline , BTEX & Oxygenates distinction.
(ppm) = (mg/kg)

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Date Sampled: 01-04-02
Date Received: 01-07-02
Date Analyzed: 01-07-02

Sample Number	Sample Description
B012016	Shell Station 4411 Foothill Blvd. Oakland, CA E-15-11.0 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	20 *	1,800
Benzene	0.2	9.6
Toluene	0.2	42
Xylenes	0.2	590
Ethylbenzene	0.2	100
MTBE(Methyl tert-Butyl Ether)	0.2	0.33
TAME(Tert. Amyl Methyl Ether)	0.2	<0.02
ETBE(Ethyl tert-Butyl Ether)	0.2	<0.02
DIPE(Di-Isopropyl Ether)	0.2	<0.02
Tertiary Butanol	5.0	<0.50
Ethanol	20	<2.0

Note: Analysis was performed using EPA methods 5030 and with method 8260 used for Gasoline , BTEX & Oxygenates distinction. * = DL raised due to dilution.
(ppm) = (mg/kg)

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Attn: James Loetterie
Project Manager

Date Sampled: 01-04-02
Date Received: 01-07-02
Date Analyzed: 01-07-02

Sample Number	Sample Description
B012017	Shell Station 4411 Foothill Blvd. Oakland, CA E-16-11.0 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	20 *	770
Benzene	0.2	3.8
Toluene	0.2	2.8
Xylenes	0.2	210
Ethylbenzene	0.2	37
MTBE(Methyl tert-Butyl Ether)	0.2	<0.02
TAME(Tert. Amyl Methyl Ether)	0.2	<0.02
ETBE(Ethyl tert-Butyl Ether)	0.2	<0.02
DIPE(Di-Isopropyl Ether)	0.2	<0.02
Tertiary Butanol	5.0	<0.50
Ethanol	20	<2.0

Note: Analysis was performed using EPA methods 5030 and with method 8260 used for Gasoline , BTEX & Oxygenates distinction. * = DL raised due to dilution.
(ppm) = (mg/kg)

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Attn: James Loetterie
Project Manager

Date Sampled: 01-04-02
Date Received: 01-07-02
Date Analyzed: 01-07-02

Sample Number	Sample Description
B012018	Shell Station 4411 Foothill Blvd. Oakland, CA E-17-13.0 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	2.0 *	31
Benzene	0.02	0.65
Toluene	0.02	0.19
Xylenes	0.02	8.3
Ethylbenzene	0.02	2.5
MTBE(Methyl tert-Butyl Ether)	0.02	0.04
TAME(Tert. Amyl Methyl Ether)	0.02	<0.02
ETBE(Ethyl tert-Butyl Ether)	0.02	<0.02
DIPE(Di-Isopropyl Ether)	0.02	<0.02
Tertiary Butanol	0.50	<0.50
Ethanol	2.0	<2.0

Note: Analysis was performed using EPA methods 5030 and with method 8260 used for Gasoline , BTEX & Oxygenates distinction. * = DL raised due to dilution.
(ppm) = (mg/kg)

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Oakland, CA 94608
Attn: James Loetterie
Project Manager

Date Sampled: 01-04-02
Date Received: 01-07-02
Date Analyzed: 01-07-02

Sample Number	Sample Description
B012019	Shell Station 4411 Foothill Blvd. Oakland, CA E-18-13.0 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	2.0 *	17
Benzene	0.02	1.2
Toluene	0.02	2.8
Xylenes	0.02	2.2
Ethylbenzene	0.02	1.0
MTBE(Methyl tert-Butyl Ether)	0.02	<0.02
TAME(Tert. Amyl Methyl Ether)	0.02	<0.02
ETBE(Ethyl tert-Butyl Ether)	0.02	<0.02
DIPE(Di-Isopropyl Ether)	0.02	<0.02
Tertiary Butanol	0.50	<0.50
Ethanol	2.0	<2.0

Note: Analysis was performed using EPA methods 5030 and with method 8260 used for Gasoline , BTEX & Oxygenates distinction. * = DL raised due to dilution.
(ppm) = (mg/kg)

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Attn: James Loetterie
Project Manager

Date Sampled: 01-04-02
Date Received: 01-07-02
Date Analyzed: 01-07-02

Sample Number	Sample Description
	Shell Station 4411 Foothill Blvd. Oakland, CA
B012020	E-19-9.0 SOIL

ANALYSIS

	Detection Limit	Sample Results
	ppm	ppm
Total Petroleum Hydrocarbons as Gasoline	0.20	0.54
Benzene	0.002	0.002
Toluene	0.002	<0.002
Xylenes	0.002	0.027
Ethylbenzene	0.002	0.004
MTBE(Methyl tert-Butyl Ether)	0.002	0.014
TAME(Tert. Amyl Methyl Ether)	0.002	<0.002
ETBE(Ethyl tert-Butyl Ether)	0.002	<0.002
DIPE(Di-Isopropyl Ether)	0.002	<0.002
Tertiary Butanol	0.050	<0.050
Ethanol	0.200	<0.200

Note: Analysis was performed using EPA methods 5030 and with method 8260 used for Gasoline , BTEX & Oxygenates distinction.
(ppm) = (mg/kg)

MOBILE CHEM LABS

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Project Manager

Date Sampled: 01-03-02
Date Received: 01-03-02
Date Analyzed: 01-07-02

Sample Number	Sample Description
	Shell Station 4411 Foothill Blvd. Oakland, CA
B012012	TEW WATER

ANALYSIS

	Detection Limit	Sample Results
	ppb	ppb
Total Petroleum Hydrocarbons as Gasoline	200	590
Benzene	2.0	2.7
Toluene	2.0	2.3
Xylenes	2.0	6.4
Ethylbenzene	2.0	<2.0
MTBE(Methyl tert-Butyl Ether)	2.0	1,900
TAME(Tert. Amyl Methyl Ether)	2.0	<2.0
ETBE(Ethyl tert-Butyl Ether)	2.0	<2.0
DIPE(Di-Isopropyl Ether)	2.0	<2.0
Tertiary Butanol	50	<50
Ethanol	200	<200

QA/QC: Duplicate Deviation is 2.4 %

Note: Analysis was performed using EPA methods 5030 and with method 8260 used for Gasoline , BTEX & Oxygenates distinction.
(ppb) = (ug/l)

MOBILE CHEM LABS

Ronald G. Evans
Lab Director

Project No.	Site Name/Location
243-0897	Shell Gasoline station 4411 Foothill Blvd Oakland, CA

Consultant Name: Cambria Environmental
Address: 1144 65th St Suite B
Emeryville CA 94608

Sampler Name: Myra Olson

MOBILE CHEM LABS, INC.
1678 RELIEZ VALLEY RD.
LAFAYETTE, CA 94549
(925) 945-1266
(925) 943-6884 fax

SAMPLE ID NUMBER	DATE	TIME	LAB ID#	SAMPLE PRESERVATION			MATRIX			# of Cont.	GRAB/COMP	TPH-G/BTEX	TPH-D	TOC(418.1)	TEPH	8010/601	8081/608	8240/624	LUFT-5 Met	8270/625				
				HCL	HNO3	ICE	SOIL	WATER	AIR															
E-15-11.0	1/4/02	8:15				X	X			1	G	X												
E-16-11.0	1/4/02	8:20				X	X			1	G	X												
E-17-13.0	1/4/02	8:30				X	X			1	G	X												
E-18-13.0	1/4/02	8:40				X	X			1	G	X												
E-19-9.0	1/4/02	8:50				X	X			1	G	X												

Relinquished By:	Date/Time	Received By:	Comments:	Turn Around
Myra Olson	1/4/02 13:00			24HR.
Relinquished By:	Date/Time 9:30 1/7/02	Received By:		

Project No.	Site Name/Location
293-0897	4411 Foothill Blvd. Oakland

Consultant Name: Cambria Environmental Technology Inc. Sampler Name: [illegible]

Address: 1144 65th St. Suite B Oakland CA 94608

MOBILE CHEM LABS, INC.
1678 RELIEZ VALLEY RD.
LAFAYETTE, CA 94549
(925) 945-1266
(925) 943-8884 fax

SAMPLE ID NUMBER	DATE	TIME	LAB ID	SAMPLE PRESERVATION			MATRIX			# of Cont.	GRAB/COMP	TPH-G/BTEX	TPH-D	TOG(418.1)	TEPH	8010/601	8081/608	8240/624	LUFT-5 Met	8270/625		1 week TAT		
				HCL	HNO3	ICE	SOIL	WATER	AIR															
E-7-14.0	1/3/02	8:14					✓			1		✓										✓		
E-8-13.0	1/3/02	10:43					✓			1		✓												
E-9-9.0	1/3/02	11:30					✓			1		✓												
E-10-9.0	1/3/02	11:35					✓			1		✓												
E-11-9.0	1/3/02	11:40					✓			1		✓										✓		
~~BW~~ T.L.																								
TBW	1/3/02	11:00						✓		4		✓										✓		
E-12-11.0	1/3/02	2:37					✓			1		✓												
E-13-9.0	1/3/02	2:41					✓			1		✓										✓		
E-14-9.0	1/3/02	2:42					✓			1		✓										✓		

Relinquished By:	Date/Time: 1/3/02 3:01	Received By:	Comments:	Turn Around: ON SITE
Relinquished By:	Date/Time	Received By:		

MOBILE CHEM LABS, INC.
1678 RELIEZ VALLEY RD.
LAFAYETTE, CA 94549
(925) 945-1266
(925) 943-6884 fax

Project No. 243-0897

Site Name/Location 4411 Foothill Blvd.

Consultant Name Cambria Environmental Technology Inc.

Sampler Name

Address 1144 65th St. Suite B Oakland, CA 94608

SAMPLE ID NUMBER	DATE	TIME	LAB ID#	SAMPLE PRESERVATION: HCL	HNO3	ICE	MATRIX: SOIL	WATER	AIR	# of Cont.	GRAB/COMP	TPH-G/BTEX	TPH-D	TOG(418.1)	TEPH	8010/601	8081/608	8240/624	LUFT-5 Met	8270/625				
E-1-8.0	1/2/02	8:22					✓			1		✓												
E-2-8.0	1/2/02	9:18					✓			1		✓												
E-3-8.0	1/2/02	10:36					✓			1		✓												
E-4-8.0	1/2/02	11:44					✓			1		✓												
E-5-12.0	1/2/02	2:34					✓			1		✓												
E-6-11.0	1/2/02	3:07					✓			1		✓												

Relinquished By:	Date/Time	Received By:	Comments:	Turn Around
[signature]	1-2-02 2:40	[signature]		ON SITE
Relinquished By:	Date/Time	Received By:		

KIFF ANALYTICAL LLC

Report Number : 24222
Date : 1/18/2002

James Loetterle
Cambria Environmental Technology Inc.
1144 65th Street, Suite B
Oakland, CA 94608

Subject : 15 Soil Samples
Project Name : 4411 Foothill Blvd. Oakland, CA
Project Number : 243-0897
P.O. Number : 98995746

Dear Mr. Loetterle,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 24222
Date : 1/18/2002

Project Name : **4411 Foothill Blvd. Oakland, CA**
Project Number : **243-0897**

Sample : **C-1-8.0** Matrix : Soil Lab Number : 24222-01
Sample Date :1/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/12/2002
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/12/2002
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/12/2002
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/12/2002
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	1/12/2002
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	1/12/2002
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	1/12/2002
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	1/12/2002

Sample : **C-2-8.0** Matrix : Soil Lab Number : 24222-02
Sample Date :1/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/17/2002
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/17/2002
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/17/2002
Total Xylenes	**< 0.010**	0.010	mg/Kg	EPA 8260B	1/17/2002
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	1/17/2002
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	1/17/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	1/17/2002
4-Bromofluorobenzene (Surr)	96.5		% Recovery	EPA 8260B	1/17/2002

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 24222
Date : 1/18/2002

Project Name : **4411 Foothill Blvd. Oakland, CA**
Project Number : **243-0897**

Sample : **C-3-3.5** Matrix : Soil Lab Number : 24222-03
Sample Date :1/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/11/2002
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/11/2002
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/11/2002
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/11/2002
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	1/11/2002
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	1/11/2002
Toluene - d8 (Surr)	97.8		% Recovery	EPA 8260B	1/11/2002
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	1/11/2002

Sample : **C-4-8.0** Matrix : Soil Lab Number : 24222-04
Sample Date :1/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.15**	0.050	mg/Kg	EPA 8260B	1/12/2002
Toluene	**< 0.050**	0.050	mg/Kg	EPA 8260B	1/12/2002
Ethylbenzene	**4.9**	0.050	mg/Kg	EPA 8260B	1/12/2002
Total Xylenes	**8.9**	0.10	mg/Kg	EPA 8260B	1/12/2002
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	1/12/2002
TPH as Gasoline	**290**	5.0	mg/Kg	EPA 8260B	1/12/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	1/12/2002
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	1/12/2002

Joel Kiff

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 24222
Date : 1/18/2002

Project Name : **4411 Foothill Blvd. Oakland, CA**
Project Number : **243-0897**

Sample : **C-5-8.0** Matrix : Soil Lab Number : 24222-05
Sample Date :1/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/17/2002
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/17/2002
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/17/2002
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/17/2002
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	1/17/2002
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	1/17/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	1/17/2002
4-Bromofluorobenzene (Surr)	96.5		% Recovery	EPA 8260B	1/17/2002

Sample : **C-6-4.0** Matrix : Soil Lab Number : 24222-06
Sample Date :1/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/18/2002
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/18/2002
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/18/2002
Total Xylenes	**< 0.010**	0.010	mg/Kg	EPA 8260B	1/18/2002
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	1/18/2002
TPH as Gasoline	**6.5**	1.0	mg/Kg	EPA 8260B	1/18/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	1/18/2002
4-Bromofluorobenzene (Surr)	97.7		% Recovery	EPA 8260B	1/18/2002

Approved By: Joel Kiff

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KIFF ANALYTICAL LLC

Report Number : 24222
Date : 1/18/2002

Project Name : **4411 Foothill Blvd. Oakland, CA**
Project Number : **243-0897**

Sample : **C-7-8.0** Matrix : Soil Lab Number : 24222-07
Sample Date :1/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.025**	0.025	mg/Kg	EPA 8260B	1/12/2002
Toluene	**< 0.025**	0.025	mg/Kg	EPA 8260B	1/12/2002
Ethylbenzene	**0.43**	0.025	mg/Kg	EPA 8260B	1/12/2002
Total Xylenes	**< 0.050**	0.050	mg/Kg	EPA 8260B	1/12/2002
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	1/12/2002
TPH as Gasoline	**87**	5.0	mg/Kg	EPA 8260B	1/12/2002
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	1/12/2002
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	1/12/2002

Sample : **C-8-4.0** Matrix : Soil Lab Number : 24222-08
Sample Date :1/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.026**	0.025	mg/Kg	EPA 8260B	1/17/2002
Toluene	**< 0.025**	0.025	mg/Kg	EPA 8260B	1/17/2002
Ethylbenzene	**0.038**	0.025	mg/Kg	EPA 8260B	1/17/2002
Total Xylenes	**< 0.050**	0.050	mg/Kg	EPA 8260B	1/17/2002
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	1/17/2002
TPH as Gasoline	**81**	5.0	mg/Kg	EPA 8260B	1/17/2002
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	1/17/2002
4-Bromofluorobenzene (Surr)	97.6		% Recovery	EPA 8260B	1/17/2002

Approved By: Joel Kiff

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KIFF ANALYTICAL LLC

Report Number : 24222
Date : 1/18/2002

Project Name : **4411 Foothill Blvd. Oakland, CA**
Project Number : **243-0897**

Sample : **C-9-9.0** Matrix : Soil Lab Number : 24222-09
Sample Date :1/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/12/2002
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/12/2002
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/12/2002
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/12/2002
Methyl-t-butyl ether (MTBE)	**0.65**	0.5	mg/Kg	EPA 8260B	1/12/2002
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	1/12/2002
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	1/12/2002
4-Bromofluorobenzene (Surr)	99.0		% Recovery	EPA 8260B	1/12/2002

Sample : **C-10-9.0** Matrix : Soil Lab Number : 24222-10
Sample Date :1/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.039**	0.025	mg/Kg	EPA 8260B	1/17/2002
Toluene	**< 0.025**	0.025	mg/Kg	EPA 8260B	1/17/2002
Ethylbenzene	**0.61**	0.025	mg/Kg	EPA 8260B	1/17/2002
Total Xylenes	**0.27**	0.025	mg/Kg	EPA 8260B	1/17/2002
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	1/17/2002
TPH as Gasoline	**84**	5.0	mg/Kg	EPA 8260B	1/17/2002
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	1/17/2002
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	1/17/2002

Approved By: Joel Kiff

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KIFF ANALYTICAL LLC

Report Number : 24222
Date : 1/18/2002

Project Name : **4411 Foothill Blvd. Oakland, CA**
Project Number : **243-0897**

Sample : **C-11-9.0** Matrix : Soil Lab Number : 24222-11
Sample Date :1/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/18/2002
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/18/2002
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/18/2002
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/18/2002
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	1/18/2002
TPH as Gasoline	**< 1.0**	1.0	mg/Kg	EPA 8260B	1/18/2002
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	1/18/2002
4-Bromofluorobenzene (Surr)	98.1		% Recovery	EPA 8260B	1/18/2002

Sample : **C-12-9.0** Matrix : Soil Lab Number : 24222-12
Sample Date :1/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.010**	0.010	mg/Kg	EPA 8260B	1/18/2002
Toluene	**< 0.010**	0.010	mg/Kg	EPA 8260B	1/18/2002
Ethylbenzene	**0.013**	0.010	mg/Kg	EPA 8260B	1/18/2002
Total Xylenes	**< 0.025**	0.025	mg/Kg	EPA 8260B	1/18/2002
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	1/18/2002
TPH as Gasoline	**6.6**	1.0	mg/Kg	EPA 8260B	1/18/2002
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	1/18/2002
4-Bromofluorobenzene (Surr)	99.1		% Recovery	EPA 8260B	1/18/2002

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 24222
Date : 1/18/2002

Project Name : **4411 Foothill Blvd. Oakland, CA**
Project Number : **243-0897**

Sample : **C-13-4.0** Matrix : Soil Lab Number : 24222-13
Sample Date :1/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/17/2002
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/17/2002
Ethylbenzene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/17/2002
Total Xylenes	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/17/2002
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	1/17/2002
TPH as Gasoline	**2.7**	1.0	mg/Kg	EPA 8260B	1/17/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	1/17/2002
4-Bromofluorobenzene (Surr)	99.5		% Recovery	EPA 8260B	1/17/2002

Sample : **C-14-4.0** Matrix : Soil Lab Number : 24222-14
Sample Date :1/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.050**	0.050	mg/Kg	EPA 8260B	1/12/2002
Toluene	**< 0.050**	0.050	mg/Kg	EPA 8260B	1/12/2002
Ethylbenzene	**< 0.050**	0.050	mg/Kg	EPA 8260B	1/12/2002
Total Xylenes	**< 0.10**	0.10	mg/Kg	EPA 8260B	1/12/2002
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	1/12/2002
TPH as Gasoline	**11**	5.0	mg/Kg	EPA 8260B	1/12/2002
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	1/12/2002
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	1/12/2002

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 24222
Date : 1/18/2002

Project Name : **4411 Foothill Blvd. Oakland, CA**
Project Number : **243-0897**

Sample : **C-15-8.0** Matrix : Soil Lab Number : 24222-15
Sample Date :1/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.050**	0.050	mg/Kg	EPA 8260B	1/17/2002
Toluene	**< 0.050**	0.050	mg/Kg	EPA 8260B	1/17/2002
Ethylbenzene	**4.4**	0.050	mg/Kg	EPA 8260B	1/17/2002
Total Xylenes	**4.7**	0.050	mg/Kg	EPA 8260B	1/17/2002
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	1/17/2002
TPH as Gasoline	**250**	5.0	mg/Kg	EPA 8260B	1/17/2002
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	1/17/2002
4-Bromofluorobenzene (Surr)	107		% Recovery	EPA 8260B	1/17/2002

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 24222

Date : 1/18/2002

QC Report : Method Blank Data

Project Name : **4411 Foothill Blvd. Oakland, CA**

Project Number : **243-0897**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.005	0.005	mg/Kg	EPA 8260B	1/11/2002
Toluene	< 0.005	0.005	mg/Kg	EPA 8260B	1/11/2002
Ethylbenzene	< 0.005	0.005	mg/Kg	EPA 8260B	1/11/2002
Total Xylenes	< 0.005	0.005	mg/Kg	EPA 8260B	1/11/2002
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	1/11/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	1/11/2002
Toluene - d8 (Surr)	97.4		%	EPA 8260B	1/11/2002
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	1/11/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 24222

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 1/18/2002

Project Name : **4411 Foothill Blvd.**

Project Number : **243-0897**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	24229-12	<0.0050	0.0386	0.0389	0.0361	0.0358	mg/Kg	EPA 8260B	1/10/2002	93.5	91.9	1.67	70-130	25
Toluene	24229-12	<0.0050	0.0386	0.0389	0.0367	0.0366	mg/Kg	EPA 8260B	1/10/2002	95.1	94.0	1.19	70-130	25
Tert-Butanol	24229-12	<0.0050	0.193	0.194	0.201	0.190	mg/Kg	EPA 8260B	1/10/2002	104	97.6	6.37	70-130	25
Methyl-t-Butyl Ether	24229-12	<0.0050	0.0386	0.0389	0.0305	0.0354	mg/Kg	EPA 8260B	1/10/2002	79.0	90.8	14.0	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 24222

Date : 1/18/2002

QC Report : Laboratory Control Sample (LCS)

Project Name : **4411 Foothill Blvd.**

Project Number : **243-0897**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0377	mg/Kg	EPA 8260B	1/10/2002	93.0	70-130
Toluene	0.0377	mg/Kg	EPA 8260B	1/10/2002	94.8	70-130
Tert-Butanol	0.189	mg/Kg	EPA 8260B	1/10/2002	102	70-130
Methyl-t-Butyl Ether	0.0377	mg/Kg	EPA 8260B	1/10/2002	75.0	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL

720 Olive Drive, Suite D
Davis, CA 95616
(530) 297-4800 (530) 297-4803 fax

EQUIVA Services LLC Chain Of Custody Record

Equiva Project Manager to be invoiced:

☑ SCIENCE & ENGINEERING
☐ TECHNICAL SERVICES
☐ CRMT HOUSTON

Karen Petryna
24222

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 5 7 4 6

SAP or CRMT NUMBER (TS/CRMT):

DATE: 1/7/01
PAGE: 1 of 2

SAMPLING COMPANY:	Cambria Environmental Technology, Inc.
LOG CODE:	CETO
SITE ADDRESS (Street and City):	4411 Foothill Blvd. Oakland CA
GLOBAL ID NO.:	T0600101065
ADDRESS:	1144 65th St., Oakland, CA 94608
EDF DELIVERABLE TO (Responsible Party or Designee):	James Loetterle
PHONE NO.:	510-420-3336
E-MAIL:	jloetterle@cambria-env.com
CONSULTANT PROJECT NO.:	243-0897
PROJECT CONTACT (Hardcopy or PDF Report to):	
SAMPLER NAME(S) (Print):	James Loetterle
TELEPHONE:	
FAX:	(510) 420-9170
E-MAIL:	

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: TEMPERATURE ON RECEIPT C°

REQUESTED ANALYSIS

Field Sample Identification	Sampling Date	Sampling Time	Matrix	No. of Cont.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-___)		TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes / UST REPORTING REQUIRED
C-1-8.0	1/7/01	8:33	soil	1	✓	✓	✓																		-01
C-2-8.0	↓	8:36	↓	↓	↓	↓	↓																		-02
C-3-3.5	↓	8:40	↓	↓	↓	↓	↓																		-03
C-4-8.0	↓	8:44	↓	↓	↓	↓	↓																		-04
C-5-8.0	↓	9:00	↓	↓	↓	↓	↓																		-05
C-6-4.0	↓	9:03	↓	↓	↓	↓	↓																		-06
C-7-8.0	↓	9:10	↓	↓	↓	↓	↓																		-07
C-8-4.0	↓	9:13	↓	↓	↓	↓	↓																		-08
C-9-9.0	↓	9:33	↓	↓	↓	↓	↓																		-09
C-10-9.0	↓	9:38	↓	↓	↓	↓	↓																		-10

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]			
	John Cutler Kiff Analytical	010802	1330

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10/16/00 Revision

Q&Q Graphic (714) 898-9702

KIFF ANALYTICAL

720 Olive Drive, Suite D

Davis, CA 95616

(530) 297-4800 (530) 297-4803 fax

EQUIVA Services LLC Chain Of Custody Record

Equiva Project Manager to be Invoiced:

☒ SCIENCE & ENGINEERING

☐ TECHNICAL SERVICES

☐ CRPT HOUSTON

24222

INCIDENT NUMBER (IF KNOWN): 98995746

DATE: 1/7/01

PAGE: 2 of 2

SAMPLING COMPANY: Cambria Environmental Technology, Inc.

LOG CODE: CETO

SITE ADDRESS (Street and City): 7411 Foothill Blvd. Oakland, CA

GLOBAL ID NO.: T0600101065

ADDRESS: 1144 65th St., Oakland, CA 94608

EDF DELIVERABLE TO (Responsible Party or Designee): James Loetterle

PHONE NO.: 510-420 3336

E-MAIL:

CONSULTANT PROJECT NO.: 243-0897

PROJECT CONTACT (Hardcopy or PDF Report to): James Loetterle

SAMPLER NAME(S) (Print): James Loetterle

jloetterle@cambria-env.com

TELEPHONE: 510 420-3336

FAX: (510) 420-9170

E-MAIL: jloetterle@cambria-env.com

TURNAROUND TIME (BUSINESS DAYS):

☑ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: _____

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

SPECIAL INSTRUCTIONS OR NOTES:

TEMPERATURE ON RECEIPT C°

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (48-)		TPH - Diesel, Extractable (8015m)		MTBE (8260B) Confirmation, See Note	UST REPORTING REQUIRED
	C-11 - 9.0	1/7/01	11:04	Soil	1	✓	✓	✓																		-11
	C-12 - 9.0	"	11:08	"	"	"	"	"																		-12
	C-13 - 4.0	"	11:09	"	"	"	"	"																		-13
	C-14 - 4.0	"	11:13	"	"	"	"	"																		-14
	C-15 - 8.0	"	2:10	"	"	"	"	"																		-15

FIELD NOTES:

Container/Preservative or PID Readings or Laboratory Notes

	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)			
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) John Cuttle / Kiff Analytical	Date: 010802	Time: 1330

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10/10/00 Revision

Q&Q Graphic (714) 898-9702

KIFF ANALYTICAL LLC

Report Number : 24417
Date : 1/31/2002

James Loetterle
Cambria Environmental Technology Inc.
1144 65th Street, Suite B
Oakland, CA 94608

Subject : 5 Soil Samples
Project Name : 4411 Foothill Blvd. Oakland, CA
Project Number : 203-0897
P.O. Number : SAP# 135686

Dear Mr. Loetterle,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 24417
Date : 1/31/2002

Subject : 5 Soil Samples
Project Name : 4411 Foothill Blvd. Oakland, CA
Project Number : 203-0897
P.O. Number : SAP# 135686

Case Narrative

Hydraulic oil results were quantitated against a motor oil standard. Matrix Spike/Matrix Spike Duplicate Results associated with samples H-3-11.0, H-1-11.0, H-2-11.0, H-1-9.0, H-2-9.0 for the analyte Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800

KIFF ANALYTICAL LLC

Report Number : 24417
Date : 1/31/2002

Project Name : **4411 Foothill Blvd. Oakland, CA**
Project Number : **203-0897**

Sample : **H-1-9.0** Matrix : Soil Lab Number : 24417-01
Sample Date :1/17/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.094**	0.025	mg/Kg	EPA 8260B	1/27/2002
Toluene	**< 0.025**	0.025	mg/Kg	EPA 8260B	1/27/2002
Ethylbenzene	**0.047**	0.025	mg/Kg	EPA 8260B	1/27/2002
Total Xylenes	**0.18**	0.050	mg/Kg	EPA 8260B	1/27/2002
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	1/27/2002
TPH as Gasoline	**120**	5.0	mg/Kg	EPA 8260B	1/27/2002
Toluene - d8 (Surr)	90.6		% Recovery	EPA 8260B	1/27/2002
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	1/27/2002
Hydraulic Oil	**14000**	100	mg/Kg	M EPA 8015	1/23/2002
1-Chlorooctadecane (Diesel Surrogate)	Diluted Out		% Recovery	M EPA 8015	1/23/2002

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 24417

Date : 1/31/2002

Project Name : **4411 Foothill Blvd. Oakland, CA**

Project Number : **203-0897**

Sample : **H-2-9.0** Matrix : Soil Lab Number : 24417-02

Sample Date :1/17/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.015**	0.005	mg/Kg	EPA 8260B	1/28/2002
Toluene	**< 0.005**	0.005	mg/Kg	EPA 8260B	1/28/2002
Ethylbenzene	**0.048**	0.005	mg/Kg	EPA 8260B	1/28/2002
Total Xylenes	**0.053**	0.010	mg/Kg	EPA 8260B	1/28/2002
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	1/28/2002
TPH as Gasoline	**32**	1.0	mg/Kg	EPA 8260B	1/28/2002
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	1/28/2002
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	1/28/2002
Hydraulic Oil	**< 10**	10	mg/Kg	M EPA 8015	1/22/2002
1-Chlorooctadecane (Diesel Surrogate)	106		% Recovery	M EPA 8015	1/22/2002

Approved By: Joel Kiff

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KIFF ANALYTICAL LLC

Report Number : 24417
Date : 1/31/2002

Project Name : **4411 Foothill Blvd. Oakland, CA**
Project Number : **203-0897**

Sample : **H-1-11.0** Matrix : Soil Lab Number : 24417-03
Sample Date :1/17/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.20**	0.050	mg/Kg	EPA 8260B	1/26/2002
Toluene	**0.071**	0.050	mg/Kg	EPA 8260B	1/26/2002
Ethylbenzene	**2.2**	0.050	mg/Kg	EPA 8260B	1/26/2002
Total Xylenes	**10**	0.10	mg/Kg	EPA 8260B	1/26/2002
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	1/26/2002
TPH as Gasoline	**210**	5.0	mg/Kg	EPA 8260B	1/26/2002
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	1/26/2002
4-Bromofluorobenzene (Surr)	99.9		% Recovery	EPA 8260B	1/26/2002
Hydraulic Oil	**230**	10	mg/Kg	M EPA 8015	1/22/2002
1-Chlorooctadecane (Diesel Surrogate)	105		% Recovery	M EPA 8015	1/22/2002

Approved By: Joel Kiff

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KIFF ANALYTICAL LLC

Report Number : 24417
Date : 1/31/2002

Project Name : **4411 Foothill Blvd. Oakland, CA**
Project Number : **203-0897**

Sample : **H-2-11.0** Matrix : Soil Lab Number : 24417-04
Sample Date :1/17/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.54**	0.050	mg/Kg	EPA 8260B	1/27/2002
Toluene	**0.10**	0.050	mg/Kg	EPA 8260B	1/27/2002
Ethylbenzene	**7.3**	0.050	mg/Kg	EPA 8260B	1/27/2002
Total Xylenes	**24**	0.10	mg/Kg	EPA 8260B	1/27/2002
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	1/27/2002
TPH as Gasoline	**400**	5.0	mg/Kg	EPA 8260B	1/27/2002
Toluene - d8 (Surr)	93.5		% Recovery	EPA 8260B	1/27/2002
4-Bromofluorobenzene (Surr)	98.8		% Recovery	EPA 8260B	1/27/2002
Hydraulic Oil	**78**	10	mg/Kg	M EPA 8015	1/22/2002
1-Chlorooctadecane (Diesel Surrogate)	107		% Recovery	M EPA 8015	1/22/2002

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 24417
Date : 1/31/2002

Project Name : **4411 Foothill Blvd. Oakland, CA**
Project Number : **203-0897**

Sample : **H-3-11.0** Matrix : Soil Lab Number : 24417-05
Sample Date :1/17/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.21**	0.050	mg/Kg	EPA 8260B	1/25/2002
Toluene	**0.52**	0.050	mg/Kg	EPA 8260B	1/25/2002
Ethylbenzene	**3.1**	0.050	mg/Kg	EPA 8260B	1/25/2002
Total Xylenes	**14**	0.10	mg/Kg	EPA 8260B	1/25/2002
Methyl-t-butyl ether (MTBE)	**< 0.5**	0.5	mg/Kg	EPA 8260B	1/25/2002
TPH as Gasoline	**250**	5.0	mg/Kg	EPA 8260B	1/25/2002
Toluene - d8 (Surr)	92.9		% Recovery	EPA 8260B	1/25/2002
4-Bromofluorobenzene (Surr)	95.6		% Recovery	EPA 8260B	1/25/2002
Hydraulic Oil	**< 10**	10	mg/Kg	M EPA 8015	1/22/2002
1-Chlorooctadecane (Diesel Surrogate)	119		% Recovery	M EPA 8015	1/22/2002

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 24417

Date : 1/31/2002

QC Report : Method Blank Data

Project Name : **4411 Foothill Blvd. Oakland, CA**

Project Number : **203-0897**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Hydraulic oil	< 10	10	mg/Kg	M EPA 8015	1/22/2002
1-Chlorooctadecane (Diesel Surrogate)	92.1		%	M EPA 8015	1/22/2002
Benzene	< 0.005	0.005	mg/Kg	EPA 8260B	1/23/2002
Toluene	< 0.005	0.005	mg/Kg	EPA 8260B	1/23/2002
Ethylbenzene	< 0.005	0.005	mg/Kg	EPA 8260B	1/23/2002
Total Xylenes	< 0.005	0.005	mg/Kg	EPA 8260B	1/23/2002
Methyl-t-butyl ether (MTBE)	< 0.5	0.5	mg/Kg	EPA 8260B	1/23/2002
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	1/23/2002
Toluene - d8 (Surr)	99.3		%	EPA 8260B	1/23/2002
4-Bromofluorobenzene (Surr)	95.9		%	EPA 8260B	1/23/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 24417

Date : 1/31/2002

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **4411 Foothill Blvd.**

Project Number : **203-0897**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	24351-48	<1.0	20.0	20.0	19.6	20.6	mg/Kg	M EPA 8015	1/22/2002	98.1	103	4.93	60-140	25
Benzene	24382-01	<0.0050	0.0385	0.0377	0.0369	0.0361	mg/Kg	EPA 8260B	1/23/2002	96.0	95.9	0.0782	70-130	25
Toluene	24382-01	<0.0050	0.0385	0.0377	0.0358	0.0351	mg/Kg	EPA 8260B	1/23/2002	93.1	93.2	0.0805	70-130	25
Tert-Butanol	24382-01	<0.0050	0.192	0.188	0.169	0.164	mg/Kg	EPA 8260B	1/23/2002	87.9	87.2	0.782	70-130	25
Methyl-t-Butyl Ether	24382-01	0.079	0.0385	0.0377	0.105	0.120	mg/Kg	EPA 8260B	1/23/2002	67.2	110	48.0	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 24417

Date : 1/31/2002

QC Report : Laboratory Control Sample (LCS)

Project Name : **4411 Foothill Blvd.**

Project Number : **203-0897**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
TPH as Diesel	20.0	mg/Kg	M EPA 8015	1/22/2002	102	70-130
Benzene	0.0376	mg/Kg	EPA 8260B	1/23/2002	79.1	70-130
Toluene	0.0376	mg/Kg	EPA 8260B	1/23/2002	77.2	70-130
Tert-Butanol	0.188	mg/Kg	EPA 8260B	1/23/2002	88.0	70-130
Methyl-t-Butyl Ether	0.0376	mg/Kg	EPA 8260B	1/23/2002	87.6	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL

720 Olive Drive, Suite D

Davis, CA 95616

(530) 297-4800 (530) 297-4803 (fax)

EQUIVA Services LLC Chain Of Custody Record

Equiva Project Manager to be invoiced:

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT-HOUSTON

Perry Pineda

24417

INCIDENT NUMBER (SHELL USE ONLY):

EARTH TECH PROJECT NUMBER (SHELL USE ONLY): 1 3 5 6 8 6

DATE: 1/18/02

PAGE: 1 of 1

SAMPLING COMPANY: Cambria Environmental Technology, Inc.	LOG CODE: CETO	SITE ADDRESS (Street and City): 4411 Foothill Blvd. Oakland, CA
ADDRESS: 1144 65th St., Oakland, CA 94608		GLOBAL ID NO.: T0600101065
PROJECT CONTACT (Hardcopy or PDF Report to): James Loetterle	EDF DELIVERABLE TO (Responsible Party or Designee): James Loetterle	PHONE NO.: 510-420-3336
TELEPHONE: 510-420-3336	FAX: (510) 420-9170	E-MAIL: jloetterle@cambria-env.com
	SAMPLER NAME(S) (Print): James Loetterle	E-MAIL: jloetterle@cambria-env.com
		CONSULTANT PROJECT NO.: 203-0897

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: TEMPERATURE ON RECEIPT C°

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	EDB & 1,2-DCA (8260B)	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-)	TPH - Diesel, Extractable (8015m)	TPH - Hydraulic o Oil	MTBE (8260B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes / UST REPORTING REQUIRED
	H-1-9.0	1/17/02	1:51	soil	1	X	X	X															X		-01
	H-2-9.0		1:57																						-02
	H-1-11.0		2:21																						-03
	H-2-11.0		2:27																						-04
	H-3-11.0		2:38																						-05

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) John Cuttle/Kiff Analytical	Date: 01/18/02	Time: 1227

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

Q&Q Graphic (714) 688-9702

ATTACHMENT D

Soil Disposal Confirmation

(916) 381-6864

Hazardous Waste Hauler (Registration #2043)

8096 Elder Creek Rd. • Sacramento, CA 95828 • FAX (916) 381-1573

Disposal Confirmation

Request for Transportation Received: 01/21/02

Consultant Information

Company:	Cambria
Contact:	Loetterle, James
Phone:	510-420-3336
Fax:	510-420-9170

Site Information

Station #:	
Street Address:	4411 Foothill Blvd,
City, State, ZIP:	Oakland, CA 94601
Customer:	Shell Oil Company RESA-0023-LDC
RIPR #:	8511
SAP # / Location:	135686
Incident #:	98995746
Location / WIC #:	2045508-3400
Environmental Engineer:	Petryna, Karen E.
Fax:	
Material Description:	Soil
Estimated Quantity:	1250 Cubic Yards 1923.07 cubic yards.
Service Requested Date:	01/24/02
Disposal Facility:	Forward Inc. Landfill
Contact:	Joe Griffith
Phone:	1-800-204-4242
Approval #:	1597
Date of Disposal:	01/22/02-01/31/02
Actual Tonnage	2549.72 Tons
Transporter:	Manley & Sons Trucking, Inc.
Contact:	Glenell Forbes
Phone:	916 381-6864
Fax:	916 381-1573
Invoice:	50108
Date of Invoice:	02/04/02

Fax To: Consultant Shell

1.3 tons / cubic

ATTACHMENT E

Excavation Sampling Procedures

EXCAVATION SAMPLING PROCEDURES

After confirming a release from underground gasoline storage tanks, product piping or pump islands, soil excavation is often done to remove hydrocarbon bearing soils that may pose a threat to ground water quality beneath a site. Soil samples are routinely collected to monitor the progress of the excavation and to confirm that soils containing hydrocarbons above regulatory limits have been completely removed. Cambria has developed standard operating procedures for collecting soil samples during routine excavation operations to ensure that the samples are collected, handled and documented in compliance with State and local regulatory agency regulations.

Excavation Sampling

Prior to collecting soil samples during excavation operations, Cambria field staff screen the removed soils with a portable photoionization detector (PID) to qualitatively assess the presence or absence of volatile hydrocarbons. The removed soil is typically segregated based on hydrocarbon concentration and stockpiled on site on plastic sheeting. When the PID measurements indicate that the hydrocarbon bearing soil has been completely removed, Cambria collects soil samples from the excavation sidewalls and bottom for confirmatory analysis at a State certified analytic laboratory.

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

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