September 20, 2004

Rosanna Garcia-LaGrille Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Re: Site Investigation Report

Shell-branded Service Station 350 Grand Avenue Oakland, California SAP Code 135698 Incident #98995755

Dear Ms. Garcia-LaGrille:

Environmental Hoose



Cambria Environmental Technology, Inc. (Cambria) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) to document site investigation activities at the above-referenced site. The purpose of this investigation was to further assess the lateral extent of impacted soil and groundwater beneath the site and near utility lines offsite. Cambria followed the scope of work presented in our September 26, 2002 Tank Backfill Well Installation Report and Work Plan Addendum. Although the Alameda County Health Care Services Agency (ACHCSA) did not provide written approval of the work plan, Cambria notified the ACHCSA of Shell's intent to implement the work plan addendum, in Cambria's Groundwater Monitoring Report – Fourth Quarter 2003 dated January 26, 2004.

The work was performed in accordance with Regional Water Quality Control Board (RWQCB) and Alameda County Public Works Agency (ACPWA) guidelines.

SITE BACKGROUND

Site Description: The site is an active Shell-branded Service Station, located at the northeast corner of the intersection of Grand Avenue and Perkins Street in Oakland, California (Figure 1). Lakeside Park is located at the southwest corner of this intersection. The area surrounding the site consists of mixed commercial and residential properties. The station layout consists of three gasoline USTs, four fuel dispensers, and a kiosk (Figure 2). Underground utility lines and historical sample locations are depicted on Figure 2, for reference.

Cambria Environmental Technology, Inc.

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

PREVIOUS WORK

1990 Soil Borings: On May 11, 1990, GeoStrategies Inc. of Hayward, California (GSI) drilled five exploratory soil borings (S-A through S-E). The highest hydrocarbon concentration in soil was in boring S-A, located at the southwest corner of the property in the vicinity of the gasoline USTs. Constituents detected at a depth of 9.5 feet below grade (fbg) in this area were 2,900 parts per million (ppm) total petroleum hydrocarbons as gasoline (TPHg), 2,400 ppm total petroleum hydrocarbons as diesel (TPHd), and 13 ppm benzene.



1991 Monitoring Well Installation: On January 7, 1991, GSI installed three monitoring wells (S-1, S-2, and S-3) at the site (Figure 2). Groundwater was encountered between 7 and 9 fbg. Well construction details are included on Table 1. The highest hydrocarbon concentrations in soil and groundwater were reported in well S-2, located at the southwest corner of the property in the vicinity of the gasoline USTs. The maximum concentrations in soil at S-2 were 440 ppm TPHg, 360 ppm TPHd, and 4.5 ppm benzene in soil at 8.5 fbg. Groundwater from S-2 contained 2,500 parts per billion (ppb) TPHg, 1,200 ppb TPHd, and 550 ppb benzene in groundwater. No TPHg, TPHd, or benzene was detected in the groundwater sample from well S-1.

1993 Hydropunch Borings: On January 27, 1993, GSI installed three hydropunch borings off site (Figure 2). The highest hydrocarbon concentrations were detected in boring HP-1, located crossgradient of the USTs. Maximum concentrations in that boring were 1,500 ppm TPHg, 18 ppm TPHd, and 0.11 ppm benzene in soil at 6.5 fbg and 22,000 ppb TPHg, 14,000 ppb TPHd, and 2,500 ppb benzene in groundwater. TPHg and benzene were not detected in soil or groundwater samples from borings HP-2 and HP-3, located downgradient of the USTs.

1996 Tank Removal: On April 22, 1996, Weiss Associates of Emeryville, California (WA) observed the removal of three 10,000-gallon gasoline USTs and one 10,000-gallon diesel UST and collected soil samples. Up to 4,800 ppm TPHg, 2,800 ppm TPHd, and 22 ppm benzene were detected in samples collected from the UST excavation, product piping trenches, and beneath the product dispensers.

1998 Potential Receptor Survey: In April 1998, Cambria identified wells and surface water bodies within a ½-mile radius of the site. As depicted on Figure 1, three water producing wells are located between 2,640 feet and 3,960 feet crossgradient of the site. Lake Merritt is located approximately 900 feet downgradient of the site. The potential receptor survey results were presented to the ACHCSA in Cambria's May 31, 1998 MTBE Investigation Report.

is 🛶 Sir 🦼

1998 Conduit Study: In September 1998, Cambria performed an investigation to locate underground utilities and local drainage systems near the site in an effort to identify potential preferential pathways for contaminant migration. Cambria contacted Underground Service Alert and used a private utility line locator to identify underground utilities. The City of Oakland was contacted to research locations, depths, and construction information of water, storm drain and sanitary sewer conduits. The Watershed Map of the Oakland-Berkeley Area was reviewed to identify buried creeks, underground culverts, storm drains, and engineered channels in the area. The results of the study are depicted graphically on Figure 2.



1998 Geoprobe Well Installation: On April 16, 1998, Cambria installed two ¾-inch diameter pre-packed wells (S-4 and S-5) within the Grand Avenue right-of-way, downgradient of the site. No TPHg, benzene, toluene, ethylbenzene, or xylenes (BTEX), or methyl tertiary butyl ether (MTBE) were detected in soil or groundwater from wells (S-4 and S-5).

1999 Geoprobe Boring Installation: In March 1999, Cambria installed three Geoprobe borings to evaluate whether utility conduit trenches serve as preferential pathways for the migration of impacted groundwater. Two borings (HP-4 and HP-5) were advanced within the sanitary sewer conduit trench along the north sidewalk on Grand Ave, and the third boring (HP-6) was advanced within Perkins Street. The maximum TPHg concentration detected in soil was 408 ppm in soil sample HP-4-10. The maximum MTBE concentration reported (by EPA Method 8020) in soil was 2.52 ppm in soil sample HP-4-10. Grab groundwater samples collected from HP-4 contained 100,000 ppb TPHg, 83,000 ppb TPHd, and 2,000 ppb MTBE (by EPA Method 8020). Grab groundwater samples from HP-5, near the diesel UST complex, contained 160 ppb TPHg. TPHg, BTEX, and MTBE were below detection limits in grab groundwater samples from HP-5 and HP-6.

2001 Dual-Phase Vapor Extraction (DVE) Pilot Test: In June 2001, Cambria conducted an 8-hour DVE pilot test on groundwater monitoring well S-2. DVE is the process of applying high vacuum through an airtight well seal to simultaneously extract soil vapors from the vadose zone and enhance groundwater extraction from the saturated zone. Approximately 50 gallons of groundwater were extracted during the 8-hour test. This data is consistent with the low permeability soil (sandy silt and silt) encountered at this site. Estimated mass removal through groundwater extraction of TPHg, benzene, and MTBE was 0.008, 0.0004, and 0.009 pounds, respectively. Estimated mass removal through vapor extraction of TPHg, benzene, and MTBE was 2.44, 0.002, and 0.005 pounds, respectively. Based on this data, DVE from monitoring well S-2 does not appear to effectively recover hydrocarbons and MTBE from the subsurface.

Groundwater Monitoring: Groundwater monitoring has been conducted at the site since well installation in 1991. Historical onsite maximum concentrations of constituents have been found in well S-2 with up to 120,000 ppb TPHg, 36,000 ppb TPHd, 10,000 ppb benzene, and 30,200 ppb MTBE, by EPA Method 8260. The current onsite maximum concentrations of constituents are also reported in well S-2 with 16,000 ppb TPHg, 7,000 ppb TPHd, 650 ppb benzene, and 10,000 ppb MTBE, by EPA Method 8260. The majority of the TPHd found in well S-2 can be attributed to the heavier portion of weathered gasoline that falls in the TPHd range. Although still elevated, the concentrations in well S-2, and other site wells, are declining. Offsite wells S-4 and S-5 delineate the downgradient extent of the plumes.



July 2002 - Tank Backfill Wells: On July 10, 2002, two UST backfill wells were installed (T-1 and T-2). The installation activities were documented in Cambria's Tank Backfill Well Installation Report and Investigation Work Plan Addendum dated September 26, 2002.

2002 Groundwater Remediation: Cambria initiated mobile groundwater extraction (GWE) from the tank backfill wells using a vacuum truck at the site in October 2002 and continued until January 2004. The cumulative estimated volume of water removed from the site through GWE is 54,679 gallons. This volume of water corresponds to the removal of approximately 2.56 pounds of MTBE.

2003 Interim Remediation: In an attempt to reduce the elevated concentrations of contaminants localized at well S-2, Cambria conducted DVE from groundwater monitoring well S-2 between September 16 and September 18, 2003. Approximately 35 gallons of groundwater were extracted during approximately 50 hours of DVE from S-2. Estimated mass removal through groundwater extraction is considered negligible. Cambria also conducted soil vapor extraction (SVE) from tank backfill well T-1 on September 18 in an effort to maximize mass removal and gain additional information about the site. Estimated mass removal from the site through vapor extraction of TPHg, benzene, and MTBE was 0.152 pounds, 0.0009 pounds, and 0.0042 pounds, respectively.

In correspondence dated March 29, 2002 and July 9, 2002, the ACHCSA requested sampling of groundwater near utility lines and also downgradient of the UST complex. Cambria proposed the installation of four borings (HP-7 through HP-10) in the *Tank Backfill Well Installation Report* and *Investigation Work Plan Addendum* dated September 26, 2002. In Cambria's *Groundwater Monitoring Report – Fourth Quarter 2003*, dated January 26, 2004, Cambria notified the ACHCSA of Shell's intent to implement the work plan addendum, although no written approval had been received. The results of this investigation are presented herein.

INVESTIGATION RESULTS

Personnel Present: Cambria geologist Scott Lewis directed the field activities,

working under the supervision of California Registered

Geologist Ana Friel.

Permits: Boring permit No. W04-0367 was obtained from Alameda

County Public Works Agency and an excavation permit (Appl # X0400778) was obtained from the City of Oakland

(Appendix A).

Drilling Company: Gregg Drilling and Testing, Inc. of Martinez, California (C57)

License No. 485165).

Drilling Date: April 13, 2004.

Drilling Method: Hand-auger and Geoprobe.

Number of Borings: Four soil borings (HP-7 through HP-10) were drilled. Boring

specifications are described in Table 1 and locations are shown

on Figure 3.

Boring Depths: Boring HP-7 was extended to 20 fbg, HP-8 to 16 fbg, and HP-9

and HP-10 to 10 fbg.

Soil Sampling Methods: Soil types were logged using the Unified Soil Classification

System and Munsell Soil Color Charts. Encountered soil is described on the exploratory boring logs presented in Appendix B. In boring HP-7, soil samples were collected continuously for lithologic description. In all borings, soil samples were retained at five-foot intervals for logging and potential chemical analyses. Soil samples were screened in the field for the presence of organic vapors using a photo-ionization detector (PID). PID readings are recorded on the boring logs.

0715

Groundwater Depths: During drilling activities, first encountered groundwater was

observed in boring HP-7 at 19.5 fbg, in boring HP-8 at 11 fbg,

and in borings HP-9 and HP-10 at 9.5 fbg.

Soil Types: Soil types encountered while drilling the borings generally

consisted of layers of clayey silt, and clayey sandy silt (ML) interbedded with layers of sandy gravel (GW) to the total

explored depth of 20 fbg (Appendix B).

Soil Disposal: Soil generated during field activities was stored on and covered

with plastic sheeting, sampled, and profiled for disposal. On April 29, 2004, Manley and Sons Trucking, Inc. (Manley) of Sacramento, California transported approximately 0.26 tons of soil from the site to Allied Waste Industries' Forward Landfill in Manteca, California. The disposal documentation and profile

results are included in Appendix C.

Chemical Analyses: Groundwater and soil samples were analyzed for TPHg, BTEX,

and MTBE by EPA Method 8260B. The certified analytical

reports are included in Appendix D.

HYDROCARBON DISTRIBUTION IN SOIL

TPHg was detected in soil samples collected from boring HP-7 at depths of 5, 10, and 15 fbg at concentrations ranging from 3.3 to 85 ppm. MTBE was detected in soil samples collected from boring HP-7 at depths of 5 and 15 fbg at concentrations of 0.045 and 0.023 ppm, respectively. No benzene was detected in the soil samples collected from boring HP-7.

TPHg was detected in a soil sample collected from boring HP-9 at a depth of 10 fbg at a concentration of 4,300 ppm. No BTEX or MTBE were detected in the soil samples collected from boring HP-9.

No TPHg, BTEX, or MTBE were detected in soil from HP-8 or HP-10.

The soil chemical analytical data is summarized on Table 2, the TPHg, benzene, and MTBE concentrations are presented on Figure 3, and the laboratory analytical report is included in Appendix D.

HYDROCARBON DISTRIBUTION IN WATER

TPHg was reported in water samples from all four borings, at concentrations ranging from 57 ppb in HP-8 to 89,000 ppb in HP-9. In samples from HP-8 and HP-10, the laboratory noted that the material reported as TPHg did not resemble their gasoline standard.

Benzene was detected at boring HP-9 only, at a concentration of 480 ppb.



MTBE was reported in water from HP-7, HP-8, and HP-9 at concentrations of 89, 6.2, and 730 ppb, respectively. The water sample from HP-10 did not contain MTBE at, or above, the detection limit of 0.50 ppb.

The groundwater chemical analytical data are summarized on Table 3. The TPHg, benzene, and MTBE concentrations are presented on Figure 3. The laboratory analytical report is included in Appendix D.

DISCUSSION

The purpose of this work was to assess the lateral extent of hydrocarbons in the soil and groundwater downgradient of the current dispensers, the USTs and in the vicinity of utility lines. Based on these efforts, it appears that the elevated contaminant concentrations observed near well S-2 and HP-4 are not laterally extensive to the east (as demonstrated by data from HP-5, HP-7, and HP-8); to the south (as demonstrated by well S-4 and boring HP-3); to the southwest (as demonstrated by well S-5); to the west (as demonstrated by boring HP-2 and HP-6); or to the north (as demonstrated by HP-10 and S-3).

Based on the data from this and previous investigative activities, it appears that the petroleum impacted groundwater is limited in its' lateral extent to a relatively short distance from the source area. The borings installed near the subsurface utilities do not suggest that preferential contaminant migration is occurring via the water, electrical or sanitary sewer lines. The groundwater near the two storm drain lines located in Perkins Street, across from boring HP-3 has not yet been assessed.

Based on historical shallow soil data near the on-site commercial building (kiosk), soil gas samples would be needed to assess the potential threat to onsite commercial workers. However, during construction of the onsite building, it is often standard practice to install a layer of plastic

as a moisture barrier. If present, the moisture barrier (plastic) would also act as a vapor barrier, prohibiting direct migration of vapors from soil through any cracks in the foundation and into the building. Further, given that the commercial business is a gasoline service station, there are likely concentrations of petroleum constituents in ambient air that are migrating into the kiosk, making soil-gas migration relatively insignificant.

RECOMMENDATIONS



Since the nearest sensitive receptor to this site is Lake Merritt, located approximately 660 feet south of the site along Perkins Street, and since the storm drains that lie in Perkins Street intersect the water table and discharge into Lake Merritt, Cambria recommends additional groundwater assessment near the storm drains in Perkins Street, South of Grand Avenue.

In order to complete a site conceptual model and proceed towards closure, vertical delineation of soil impact in the are of the dispenser islands (refer to Table 2 – samples from 1996) is needed, and vertical delineation of groundwater impact in the vicinity of well S-2 is also needed. Thus, Cambria recommends onsite borings for collection and analyses of soil and grab-groundwater samples.

In order to determine whether migration of impacted soil vapors into the kiosk is a complete pathway, Cambria recommends investigating the construction methods used when the kiosk was built, to determine if a possible vapor barrier is present beneath the structure. Also, additional information regarding background concentrations of petroleum constituents in air at an operating service station will be researched.

And, to confirm whether groundwater in the vicinity of the site is potable, select monitoring wells should be sampled and analyzed for salinity and total dissolved solids.

Once this additional information is obtained, a site conceptual model and risk assessment can be prepared that will identify whether the current conditions at this site pose a threat to human health or the environment, and whether additional investigation, remediation, monitoring, or case closure is warranted.

SCHEDULE

Cambria will prepare a work plan detailing the scope of work to meet the above objectives for submittal to the ACHCSA during the fourth quarter of 2004.

CLOSING

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

Sincerely,

Cambria Environmental Technology, Inc.

Scott Lewis

Senior Staff Geologist

Million

Ana Friel, RØ

Senior Proje ct Geologist

RG 6452

EXP. 9/05

* EXP. 9/05

* EXP. 9/05

* CALFORNIA

Attachments:

Table 1. Well/Boring Data

Table 2. Soil Analytical Data

Table 3. Grab Groundwater Analytical Data

Figure 1. Site Vicinity Map

Figure 2. Soil/Groundwater Chemical Concentration Map

Appendix A. Permits

Appendix B. Boring Logs

Appendix C. Disposal Documentation and Profile Analytical Report

Appendix D. Certified Analytical Report

cc: Karen Petryna, Shell

Gursharnjeet Cheema, 1060 St. Raphael Drive, Bay Point, CA 94565

Table 1. Well/Boring Data, Shell-branded Service Station, 350 Grand Avenue, Oakland, California

		Date	TOC	Total	Soil Sa	imple (ft)	First Enco	untered GW	Screen	Screen :	Depth (ft)	
Vame	Type	Installed	Elev (ft msl)	Depth (ft)	Incr. or	Depth(s)	Depth (ft)	Elev (ft msl)	Diam. (In)	Тор	Bottom	Comments
S-1	Well (HSA)	07-Jan-91	23.36	19.5	5	-	9.5	-	3	7	16	
S-2	Well (HSA)	07-Jan-91	23.73	17.5	5	•	8.5	-	3	7	15	
S-3	Well (HSA)	07-Jan-91	25.14	15	5	=	9	-	3	7	15	
S-4	Well (HSA)	16-Арг-98	22.34	15	5	-	7	-	0.75	4	14	
S-5	Well (HSA)	16-Арг-98	23.55	15	5	-	13.5	-	0.75	4	15	
S-A	Boring (Geoprobe)	1-May-90	-	13.5	5	-	8.0	-	-		-	
S-B	Boring (Geoprobe)	1-May-90	-	15	5	-	8.5	-	•	-	-	
S-C	Boring (Geoprobe)	1-May-90	-	13.5	5	-	9.5	-	-		-	
S-D	Boring (Geoprobe)	1-May-90	-	15	5	-	8.5	-	-	-	-	
HP-1	Boring (HSA)	27-Jan-93	-	10	5	-	NA	-	-	-	-	
IP-2	Boring (HSA)	27-Jan-93	-	13	5	-	NA		-	-	_	
HP-3	Boring (HSA)	27-Jan-93	-	14	5	-	13	-	-	-		
HP-4	Boring (Geoprobe)	17-Mar-99	-	15.5	С	-	8	-	-	-	-	
HP-5	Boring (Geoprobe)	17-Mar-99	•	15	С	-	8	-	-	_	•	
HP-6	Boring (Geoprobe)	17-Mar-99	-	20	C	-	10	-	-	-	-	
HP-7	Boring (Geoprobe)	13-Apr-04	•	20	\mathbf{c}	-	19.5		-	-	-	
HP-8	Boring (Geoprobe)	13-Apr-04	_	16	\mathbf{c}		11	-		-	-	
HP-9	Boring (Hand auger)	13-Apr-04	-	10	\mathbf{c}		10	-	-	-	-	
HP-10	Boring (Hand auger)	13-Apr-04	-	10	\mathbf{c}	-	10	-			u	

Abbreviations:

C = Continuous

TOC = Top of Casing referenced to mean sea level

HSA = Hollow-stem auger

Table 3. Grab Groundwater Analytical Data, Shell-branded Service Station, 350 Grand Avenue, Oakland, California

Sample	Date	TPHg	TPHd	В	Т	E	Х	МТВЕ
ID	Sampled	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
HP-7-W	13-Apr-04	1,300	NA	<1.0	<1.0	25	17	89
HP-8-W	13-Арт-04	57*	NA	<0.50	<0.50	<0.50	<1.0	6.2
HP-9-W	13-Apr-04	89,000	NA	480	68	280	<100	730
HP-10-W	13-Apr-04	67*	NA	<0.50	<0.50	<0.50	<1.0	<0.50
HP-4	17-Mar-99	83,000	100,000	1,000	420	590	280	2,000
HP-5	17-Mar-99	160	<50	<0.50	<0.50	<0.50	<0.50	<2.5
НР-6	17-Mar-99	<50	<50	<0.50	<0.50	<0.50	<0.50	<2.5 (<2.0)
SB-1	16-Арг-98	<50	140*	<0.50	<0.50	<0.50	<0.50	<2.5 (<2.0)
SB-2	16-Apr-98	<50	NA	<0.50	<0.50	<0.50	<0.50	NA
HP-1	06-Jan-93	22,000	14,000	2,500	130	1,400	140	NA
HP-2	06-Jan-93	<50	NA	<0.5	4.4	<0.5	<0.5	NA
HP-3	06-Jan-93	<50	NA	<0.5	<0.5	<0.5	<0.5	NA

Abbreviations:

The following constituents analyzed by EPA Method 8260B:

TPHg = Total petroleum hydrocarbons as gasoline

BTEX = Benzene, toluene, ethylbenzene, and xylenes

MTBE = Methyl tertiary butyl ether

 $\mu g/L = Micrograms per liter$

<x = Not detected at reporting limit x

NA = Not analyzed

* = TPHg does not match laboratory standard

Table 2. Soil Analytical Data, Shell-branded Service Station, 350 Grand Avenue, Oakland, California

ID Sampled fbg HP-7-5' 13-Apr-04 5.0 HP-7-10' 13-Apr-04 10.0 HP-7-15' 13-Apr-04 15.0 HP-7-19.5' 13-Apr-04 19.5 HP-8-5' 13-Apr-04 5.0 HP-8-10' 13-Apr-04 10.0 HP-8-11' 13-Apr-04 11.0 HP-8-14.5' 13-Apr-04 14.5	mg/kg 4.0 85 3.3 <1.0	mg/kg NA NA NA NA	mg/kg <0.0050 <0.50 <0.0050 <0.0050	mg/kg <0.0050 <0.50 <0.0050	mg/kg 0.013 0.53	0.019	mg/kg 0.045	mg/kg NA	Work performed by Cambria
HP-7-10' 13-Apr-04 10.0 HP-7-15' 13-Apr-04 15.0 HP-7-19.5' 13-Apr-04 19.5 HP-8-5' 13-Apr-04 5.0 HP-8-10' 13-Apr-04 10.0 HP-8-11' 13-Apr-04 11.0	85 3.3 <1.0	NA NA	<0.50 <0.0050	<0.50				NA	Cambria
HP-7-10' 13-Apr-04 10.0 HP-7-15' 13-Apr-04 15.0 HP-7-19.5' 13-Apr-04 19.5 HP-8-5' 13-Apr-04 5.0 HP-8-10' 13-Apr-04 10.0 HP-8-11' 13-Apr-04 11.0	85 3.3 <1.0	NA NA	<0.50 <0.0050	<0.50				NA	Cambria
HP-7-15' 13-Apr-04 15.0 HP-7-19.5' 13-Apr-04 19.5 HP-8-5' 13-Apr-04 5.0 HP-8-10' 13-Apr-04 10.0 HP-8-11' 13-Apr-04 11.0	3.3 <1.0	NA	<0.0050		0.53	0.70			
HP-7-19.5' 13-Apr-04 19.5 HP-8-5' 13-Apr-04 5.0 HP-8-10' 13-Apr-04 10.0 HP-8-11' 13-Apr-04 11.0	<1.0			~0.0050		0.68	<0.50	NA	Cambria
HP-8-5' 13-Apr-04 5.0 HP-8-10' 13-Apr-04 10.0 HP-8-11' 13-Apr-04 11.0		NA	<0.0050	<0.0000	0.036	0.025	0.023	NA	Cambria
HP-8-10' 13-Apr-04 10.0 HP-8-11' 13-Apr-04 11.0	<1.0		~0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	Cambria
HP-8-11' 13-Apr-04 11.0	71.0	NA	< 0.0050	< 0.0050	<0.0050	<0.0050	<0.0050	NA	Cambria
-	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA	Cambria
HP-8-14.5' 13-Apr-04 14.5	<1.0	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA	Cambria
	<1.0	NA	<0.0050	< 0.0050	< 0.0050	<0.0050	<0.0050	NA	Cambria
HP-9-5' 13-Apr-04 5.0	<1.0	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	Cambria
HP-9-10' 13-Apr-04 10.0	4,300	NA	<5.0	<5.0	<5.0	<5.0	<5.0	NA	Cambri a
HP-10-5' 13-Apr-04 5.0	<1.0	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	Cambria
HP-10-9.5' 13-Apr-04 9.5	<1.0	NA	<0.0050	<0.0050	< 0.0050	< 0.0050	<0.0050	NA	Cambria
HP-4-5.5' 17-Mar-99 5.5	<1.00	<1.0	<0.00500	<0.00500	<0.00500	<0.00500	<0.0500	NA	Cambria
HP-4-10' 17-Mar-99 10.0	408	140	2.22	2.57	< 0.250	0.35	2.52	NA	Cambria
HP-4-15' 17-Mar-99 15.0	1.91	<1.0	<0.00500	< 0.00500	0.0151	0.00510	0.132	NA	Cambria
HP-4-15.5' 17-Mar-99 15.5	<1.00	5.1	0.00560	<0.00500	<0.00500	<0.00500	0.110	NA	Cambria
HP-5-5' 17-Mar-99 5.0	<1.00	1.1	<0.00500	<0.00500	<0.00500	<0.00500	<0.0500	NA	Cambria
HP-5-7' 17-Mar-99 7.0	<1.00	4.8	<0.00500	< 0.00500	< 0.00500	<0.00500	<0.0500	NA	Cambria
HP-5-10.5' 17-Mar-99 10.5	<1.00	1.8	< 0.00500	< 0.00500	<0.00500	<0.00500	<0.0500	NA	Cambria
HP-5-14.5' 17-Mar-99 14.5		E 6	-0.00500						
HP-5-15' 17-Mar-99 15.0	<1.00	5.6	<0.00500	< 0.00500	<0.00500	<0.00500	< 0.0500	NA	Cambria

Table 2. Soil Analytical Data, Shell-branded Service Station, 350 Grand Avenue, Oakland, California

Sample	Date	Depth	TPHg	TPHd	В	T	Е	X	MTBE	Lead	Comments
ID	Sampled	fbg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	Work performed by
HP-6-5'	17-Mar-99	5.0	<1.00	<1.0	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.0500	NA	Cambria
HP-6-8'	17-Mar-99	8.0	<1.00	5.2	< 0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.0500	NA	Cambria
HP-6-10'	17-Mar-99	10.0	<1.00	3.1	<0.00500	< 0.00500	< 0.00500	< 0.00500	< 0.0500	NA	Cambria
HP-6-15'	17-Mar-99	15.0	<1.00	3.8	<0.00500	< 0.00500	< 0.00500	< 0.00500	<0.0500	NA	Cambria
HP-6-19.5'	17-Mar-99	19.5	<1.00	5.8	<0.00500	<0.00500	< 0.00500	< 0.00500	< 0.0500	NA	Cambria
HP-6-20'	17-Mar-99	20.0	<1.00	1.4	<0.00500	<0.00500	<0.00500	< 0.00500	< 0.0500	NA	Cambria
SB-1-7.5' (S-5)	16-Apr-98	7.5	<1.0	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	NA	Cambria
SB-2-6.0' (S-4)	16-Apr-98	6.0	<1.0	NA	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	NA	Cambria
G -1	22-Apr-96	7.0	840	430	<1.5	<1.5	7.0	5.0	NA	NA	Weiss Associates
G-2	22-Арг-96	7.0	9.1	17	0.025	0.34	0.072	0.93	NA	NA	Weiss Associates
G-3	22-Арг-96	7.0	4.4	11	0.0087	0.020	< 0.005	0.014	NA	NA	Weiss Associates
G-4	22-Apr-96	7.0	830	420	<1.5	<1.5	10	5.5	NA	NA	Weiss Associates
G-5	22-Apr-96	7.0	130	100	< 0.10	< 0.10	0.17	0.74	NA	NA	Weiss Associates
G-6	22-Apr-96	7.0	4,100	1,600	<10	<10	17	12	NA	NA	Weiss Associates
G-7	22-Apr-96	7.0	2,700	1,900	<3.0	<3.0	8.8	14	NA	NA	Weiss Associates
G-8	22-Apr-96	7.0	340	210	<0.25	<0.25	0.77	0.94	NA	NA	Weiss Associates
D-1	22-Apr-96	8.5	250	59	<0.25	<0.25	0.89	2.7	NA	NA	Weiss Associates
D-2	22-Apr-96	8.5	230	230	< 0.12	<0.12	0.46	1.3	NA	NA	Weiss Associates
DISP-1	22-Apr-96	2.0	0.57	2.0	< 0.005	<0.005	<0.005	<0.005	NA	NA	Weiss Associates
DISP-2	22-Apr-96	2.0	420	64	<0.5	1.4	5.1	22	NA	NA	Weiss Associates
DISP-3	22-Apr-96	2.0	9,2	49	< 0.012	0.018	0.059	0.29	NA	NA	Weiss Associates
DISP-4	22-Apr-96	2.0	2.6	14	0.065	<0.005	0.053	0.095	NA	NA	Weiss Associates
DISP-5	22-Apr-96	2.0	1.4	3.3	< 0.005	0.0056	< 0.005	0.0085	NA	NA.	Weiss Associates
DISP-6	22-Apr-96	2.0	7.2	4.6	0.0072	0.012	0.012	0.0075	NA	NA	Weiss Associates
DISP-7	22-Apr-96	2.0	4,800	2,800	<10	85	35	280	NA	NA	Weiss Associates
DISP-8	22-Apr-96	2.0	4,000	1,400	<5.0	120	49	420	NA	NA	Weiss Associates

Table 2. Soil Analytical Data, Shell-branded Service Station, 350 Grand Avenue, Oakland, California

Sample	Date	Depth	TPHg	TPHd	В	T	Е	X	MTBE	Lead	Comments
ID	Sampled	fbg	mg/kg	Work performed by							
DISP-9	22-Apr-96	2.0	770	2,800	3.6	11	8	61	NA	NA	Weiss Associates

Table 2. Soil Analytical Data, Shell-branded Service Station, 350 Grand Avenue, Oakland, California

Sample	Date	Depth	TPHg	TPHd	В	T	E	Х	MTBE	Lead	Comments
ID	Sampled	fbg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	Work performed by
P-1	22-Арт-96	4.0	1,300	820	5.5	57	24	140	NA	NA	Weiss Associates
P-1	23-Арт-96	7.0	68	6.2	0.80	<0.05	0.32	0.28	NA	NA	Weiss Associates
P-2	22-Арг-96	3.0	3,200	1,000	22	130	48	290	NA	NA	Weiss Associates
P-3	22-Арт-96	3.0	12	5.8	0.31	0.032	0.37	1.0	NA	NA	Weiss Associates
P-4	22-Apr-96	3.0	11	10	0.23	0.085	0.26	0.83	NA	NA	Weiss Associates
P-5	22-Apr-96	2.5	1.5	2.1	< 0.005	< 0.005	<0.005	0.0077	NA	NA	Weiss Associates
P-6	22-Apr-96	2.0	1.1	1.6	< 0.005	< 0.005	< 0.005	0.0055	NA	NA	Weiss Associates
P-7	22-Apr-96	2.0	21	3.7	< 0.010	< 0.010	0.075	0.20	NA	NA	Weiss Associates
P-8	22-Apr-96	2.0	1,400	650	<2.5	17	11	83	NA	NA	Weiss Associates
P-9	22-Apr-96	2.0	4,200	610	6.8	210	74	490	NA	NA	Weiss Associates
P-10	22-Apr-96	2.0	2.3	3.7	< 0.005	0.017	0.010	0.055	NA	NA	Weiss Associates
P-11	22-Apr-96	2.5	360	13	1.9	17	6.5	45	NA	NA	Weiss Associates
P-12	22-Apr-96	2.5	240	460	4.7	< 0.5	4.8	2.1	NA	NA	Weiss Associates
P-13	23-Apr-96	5.5	3.8	1.6	0.053	0.0083	0.0098	0.020	NA	NA	Weiss Associates
DSW-1	23-Арг-96	2.5	510	130	<0.5	<0.5	1.2	3.0	NA	NA	Weiss Associates
DSW-2	23-Арг-96	2.5	87	130	0.34	2.2	0.94	7.1	NA NA	NA NA	
DSW-3	23-Арг-96	2.5	<1.0	1.6	< 0.005	< 0.005	< 0.005	<0.005	NA NA		Weiss Associates
DSW-4	23-Арг-96	2.5	3.8	2.5	<0.005	0.014	0.003	<0.003 0.077		NA NA	Weiss Associates
DSW-4	23-Apr-96	2.0	270	2.5 31	< 0.25	< 0.25	0.68	1.6	NA NA	NA	Weiss Associates
D3W-3	23-Api-90	2.0	270	31	<0.23	<0.23	0.08	1.0	NA	NA	Weiss Associates
DB-1	23-Apr-96	4.0	46	5.2	0.091	0.13	0.66	1.7	NA	NA	Weiss Associates
DB-2	23-Apr-96	4.0	8.1	4.5	0.081	0.078	0.11	0.34	NA	NA	Weiss Associates
DB-3	23-Apr-96	3.5	33	3.6	0.34	0.077	0.20	0.14	NA	NA	Weiss Associates
HP-1-6.5	27-Jan-93	6.5	1,500	18.0	0.11	0.81	0.86	1.2	NA	NA	GeoStrategies
HP-2-6.5	27-Jan-93	6.5	<1.0	<1	<0.0025	<0.0025	< 0.0025	<0.0025	NA	NA	GeoStrategies
HP-3-6.5	27-Jan-93	6.5	<1.0	<1	<0.0025	<0.0025	<0.0025	< 0.0025	NA	NA	GeoStrategies

Table 2. Soil Analytical Data, Shell-branded Service Station, 350 Grand Avenue, Oakland, California

Sample	Date	Depth	TPHg	TPHd	В	T	Е	X	MTBE	Lead	Comments
ID	Sampled	fbg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	Work performed by
S-1-4.5	07-Jan-91	4.5	<1.0	<1.0	<0.005	0.005	<0.005	<0.005	NA	NA	GeoStrategies
S-1-9.5	07-Jan-91	9.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	NA	NA	GeoStrategies
S-2-4.5	07-Jan-91	4.5	<1.0	2.9*	0.031	0.006	<0.005	0.007	NA	NA	GeoStrategies
S-2-8.5	07-Jan-91	8.5	440	360*	4.5	1.6	11	12	NA	NA	GeoStrategies
S-2-14.5	07-Jan-91	14.5	<1.0	<1.0	< 0.005	< 0.005	< 0.005	< 0.005	NA	NA	GeoStrategies
S-2-17.5	07-Jan-91	17.5	<1.0	<1.0	< 0.005	<0.005	<0.005	<0.005	NA	NA	GeoStrategies
S-3-4.5	07-Jan-91	4.5	20	23*	0.33	0.17	0.50	2.0	NA	NA	GeoStrategies
S-3-9.0	07-Jan-91	9.0	<1.0	<1.0	< 0.005	< 0.005	<0.005	<0.005	NA	NA	GeoStrategies
S-A-4.5	11-May-90	4.5	<2.5	<5	0.045	<0.025	<0.025	<0.05	NA	5.3	GeoStrategies
S-A-9.5	11-May-90	9.5	2,900	2400*	13	7	44	210	NA	8.7	GeoStrategies
S-A-13.5	11-May-90	13.5	<2.5	<5	< 0.025	< 0.025	< 0.025	<0.05	NA	5.7	GeoStrategies
S-B-6.5	11-May-90	6.5	21	42*	0.082	<0.025	0.24	0.91	NA	38	GeoStrategies
S-B-9.0	11-May-90	9.0	1,400	1300*	7	3	31	130	NA	6.3	GeoStrategies
S-B-13.5	11-May-90	13.5	2.5	<5	0.30	<0.025	0.027	0.09	NA	9.3	GeoStrategies
S-C-9.5	11- Ma y-90	9.5	22	20*	0.30	0.052	0.57	1.3	NA	3.5	GeoStrategies

Table 2. Soil Analytical Data, Shell-branded Service Station, 350 Grand Avenue, Oakland, California

Sample ID	Date Sampled	Depth fbg	TPHg mg/kg	TPHd mg/kg	B mg/kg	T mg/kg	E mg/kg	X mg/kg	MTBE mg/kg	Lead mg/kg	Comments Work performed by
				-					-		
S-D-4.5	11-May-90	4.5	<2.5	<5	< 0.025	< 0.025	< 0.025	< 0.05	NA	7.6	GeoStrategies
S-D-9.0	11-May-90	9.0	<2.5	36*	< 0.025	< 0.025	< 0.025	<0.05	NA	9.2	GeoStrategies
S-D-15.0	11-May-90	15.0	<2.5	<5	< 0.025	< 0.025	< 0.025	<0.05	NA	6.8	GeoStrategies
S-E-9.5	11-May-90	9.5	<2.5	<5	0.10	< 0.025	< 0.025	0.21	NA	2.6	GeoStrategies
S-E-13.5	11-May-90	13.5	<2.5	<5	< 0.025	< 0.025	< 0.025	< 0.05	NA	8.1	GeoStrategies

Abbreviations:

Lead by EPA Method 7421

The following constituents analyzed by EPA Method 8015M, 8020, or 8260B:

TPHg = Total petroleum hydrocarbons as gasoline

TPHd = Total petroleum hydrocarbons as diesel

BTEX = Benzene, toluene, ethylbenzene, and xylenes

MTBE = Methyl tertiary butyl ether

mg/kg = Milligrams per kilogram

NA = Not analyzed

* = Does not match typical diesel chromatograph pattern

<x = Not detected at reporting limit x

Shell-branded Service Station

350 Grand Avenue Oakland, California Incident #98995755



SCALE : 1" = ~1/4 MILE

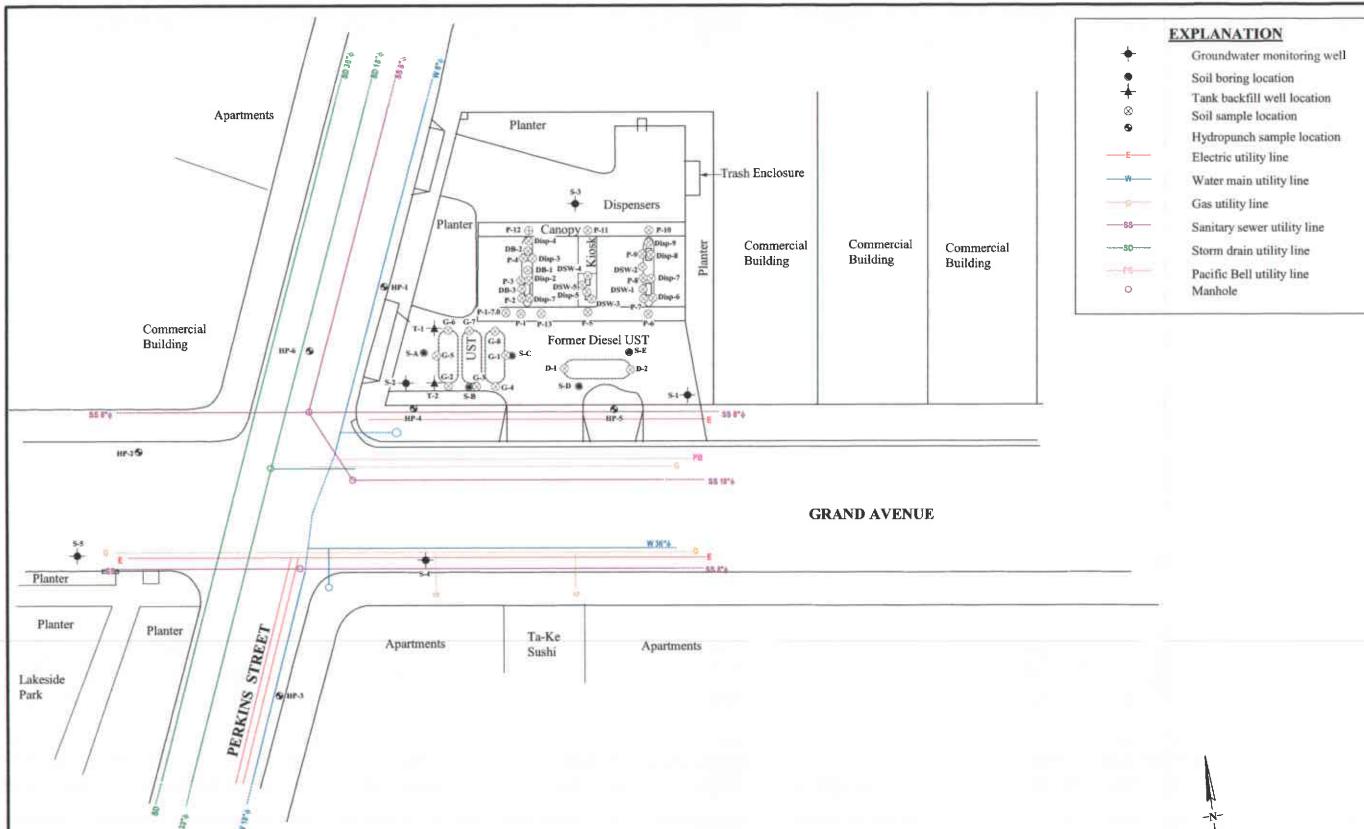
Vicinity/Area Well Survey Map

CAMBRIA



FIGURE

Scale (ft)

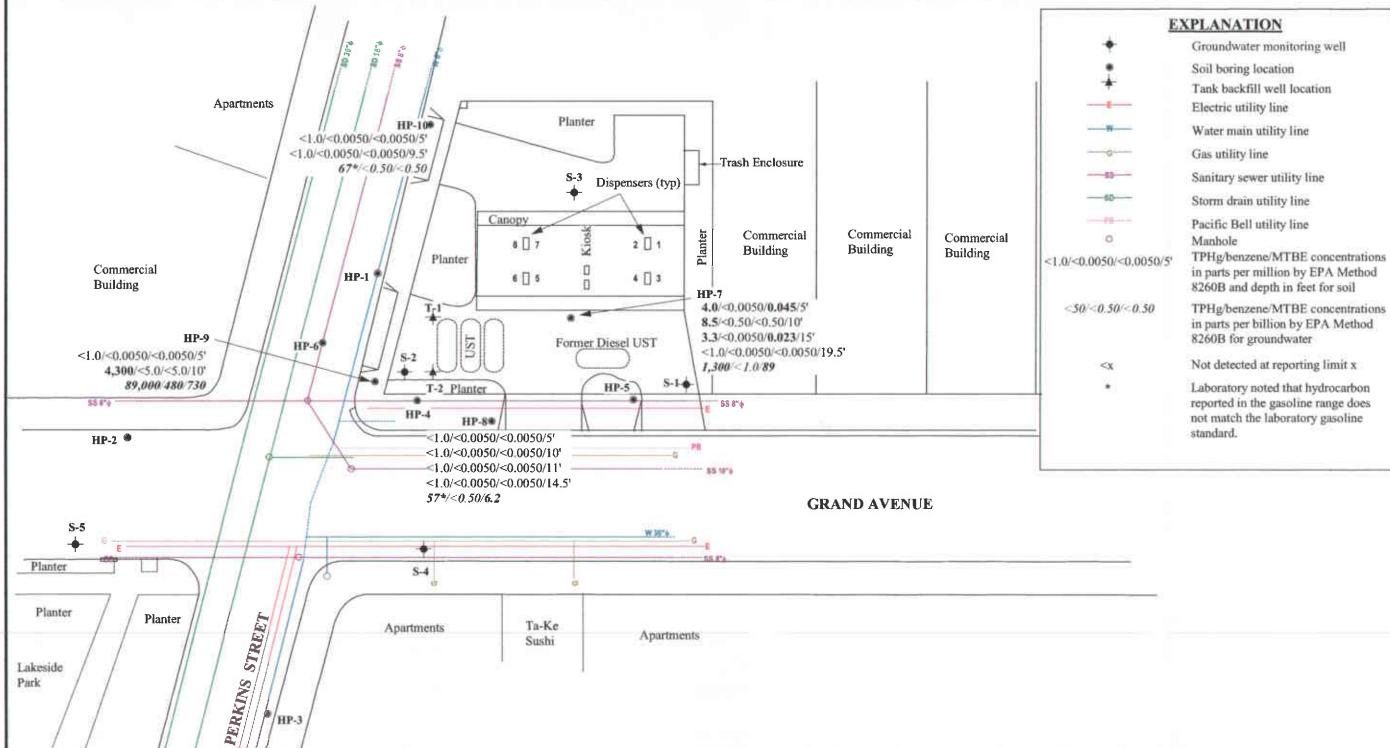


are the g

April 13, 2004

FIGURE

Shell-branded Service Station 350 Grand Avenue Oakland, California



.

r. Ub



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-6633 James Yoo
FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SILE MAP FOR ALL DRILLING PERMIT APPLICATIONS DESTRUCTION OF WELLS OVER 45 FRET REQUIRES A SETARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT	101-0367
350 Grand Avenue, Oakland, CA	PERMIT NUMBER WU4
100 State Moente, Oak God, CA	WELL NUMBER
700	APN
1112 1112 1112 1112 1112 1112 1112 111	
	PERMIT CONDITIONS
CLIENT . / /	Circled Permit Requirements Apply
Name Shell Oil Products US	
Address 20145 5. Wilmington Ave Phone 557 - (45 - 9306	A. GENERAL
City Carson, CA Zip 108/0	I. A permit application should be submitted so as to
the toolo	arrive at the ACPWA office five days prior to
APPLICANT	proposed starting date.
Name Scott Levis Cambria Environmental Technology, In	2. Submit to ACPWA within 60 days after completion of
Fax 707-735-6689	barrens original population of trater responsed?
Address 270 Peckins Street Phone 707-933-2369	Well Completion Report.
Address 270 Peckins Street Phone 707-433-2369 City Some Zip 95476	3. Permit is void if project not begun within 90 days of
	approval date
	B. WATER SUPPLY WELLS
TYPE OF PROJECT	1. Minimum surface seal thickness is two inches of
	coment grout placed by tremie.
Corb alla Bastanian	2. Minimum seal depth is 50 feet for municipal and
11/- 6 1	Industrial wells or 20 feet for domestic and irrigation
Water Supply U Contamination	wells unless a lesser depth is specially approved.
Monitoring (1) Well Destruction (1)	C. GROUNDWATER MONITORING WELLS
	INCLUDING PIEZOMETERS
PROPOSED WATER SUPPLY WELL USE	1. Minimum surface seal thickness is two inches of
New Domestic D Replacement Domestic O	coment grout placed by tremic
Municipal () Irrigation ()	2. Minimum seal depth for monitoring wells is the
Industrial () Other ()	maximum depth pencticable or 20 feet.
	D GEOTECHNICAL / CARLE M. Inster
PRILLING METHOD:	Backfill bore hole by tremie with coment grout or coince
Mud Rotary () Auger ()	emut/sand mixture. Upper two-three feet replaced in kir
Mud Rocary 0 Air Rocary 0 Auger 0 Cable 0 Other & Direct resh	or with compared change
	E. CATHODIC
DRILLER'S NAME Grego Dolling and Testing I-c	Fill hole anode zone with onnerete placed by tremic.
	F. WELL DESTRUCTION
DRILLER'S LICENSE NO. 485/65	Send a map of work site A separate permit is required
	for wells downer than 45 feet
	G PECETAL CONDITIONS - RAI
WELL PROJECTS	WINCELE CONDITIONS -BFT
Drill Hole Diameterin Maximum	NOTE: Our analisation must be a ballout for a district
Casing Diameter in Depth ft,	NOTE: One application must be submitted for each well or well
Surface Scal DepthR. Owner's Well Number	description. Multiple borings on one application are acceptable
Owner 2 Men Unititle	for geotechnical and contamination investigations.
GEOTECHNICAL PROJECTS	
Number of Bosines: 4 Marinum	
Number of Bosings Maximum Hole Diameter 21 in. Depth 15 R.	19
TARTING DATE 4-13-04	
TO THE STATE OF TH	4
COMPLETION DATE 4-13-0 4	TAN
CONTRACTION DATE TO TO TO T	MA7/1) DE-0
	APPROVED DATE

___DATE 3-12-04

Rev.9-18-02

Thereby agree to comply with all requirements of this pennit and Alameda County Ordinance No. 73-63.

APPLICANT'S SIGNATURE Sent of wis

PLEASE PRINT NAME Scott Lewis

CITY O AKLAND • Community and Economic Devi ment Agency
250 Frank H. Ogawa Piaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • FAX (510) 238-2263

Job Site 350 GRAND AV

Parcel# 010 -0776-013-00

Appl# X0400778

Descr soil boring on Perkins St

Permit Issued 03/29/04

Work Type EXCAVATION-PRIVATE P

USA #

Util Co. Job #

Accta#:

Util Fund #:

Applent

Phone#

Lic# 12-License Classes --

Owner MAJOR BRAND GAS INC

Contractor GREGG DRILLING & TESTING, INC.

X (5

(510) 313-5800 485165 C57

Arch/Engr Agent

Applic Addr 950 HOWE RD, MARTINEZ, CA., 94553

JOB SITE

\$291.84 TOTAL FEES PAID AT ISSUANCE

\$51.00 Applic

\$205.00 Permit

\$.00 Process

\$23.04 Rec Mgmt

\$.00 Gen Plan

\$.00 Invstg

\$.00 Other

\$12.80 Tech Enh



ADDR

TSIC

Appendix B
Boring Logs



Cambria Environmental Technology, Inc. 270 Perkins Street Sonoma, California 95476 Telephone: (707) 935-4850

Fax: (707) 935-6649

HP-7 **CLIENT NAME** Shell Oil Products US BORING/WELL NAME **JOB/SITE NAME** Shell-branded Service Station **DRILLING STARTED** 13-Apr-04 DRILLING COMPLETED 13-Apr-04 LOCATION 350 Grand Avenue, Oakland, California WELL DEVELOPMENT DATE (YIELD) NA PROJECT NUMBER 0715 Not Surveyed Grega Drilling **GROUND SURFACE ELEVATION** DRILLER **DRILLING METHOD** Hydraulic push TOP OF CASING ELEVATION Not Surveyed BORING DIAMETER SCREENED INTERVAL 19.5 ft (13-Apr-04) **LOGGED BY** S. Lewis DEPTH TO WATER (First Encountered) **REVIEWED BY** A. Friel, RG 6452 **DEPTH TO WATER (Static)** NA

REMARKS CONTACT DEPTH (fbg) BLOW GRAPHIC (mdd) U.S.C.S. EXTENT DEPTH SAMPLE (gg) WELL DIAGRAM LITHOLOGIC DESCRIPTION OH. 0.6 GW Sandy GRAVEL (GW); brown (10YR 5/3); moist; 40% 1.0 SM fine to coarse sand, 60% fine to coarse gravel.

Silty SAND (SM); brown (10YR 5/3); moist; 40% silt, 2.0 60% fine sand. Clayey SiLT (ML); gray (10YR 5/1); moist; 20% clay, 80% silt; low to medium plasticity. HP-7-5 63 @ 8' - Clayey Sandy SILT (ML); brown (10YR 5/3); moist; 15% clay, 50% silt, 35% fine to coarse sand; low plasticity. Portland Type HP-7- 10 59 ML @ 12' - Clayey SILT (ML); brown (10YR 5/3); moist; 20% clay, 80% silt; low plasticity. HP-7- 15 8 V HP-7-@ 19' - light brownish gray (10YR 6/2); moist to wet. 0 20.0 19.5 Bottom of Boring @ 20 ft MELL LOG (PID) 110AKLAN-21GINTIO715.GPJ DEFAULT GDT 5/3/04



Cambria Environmental Technology, Inc. 270 Perkins Street Sonoma, California 95476 Telephone: (707) 935-4850 Fax: (707) 935-6649

CLIENT NAME Shell Oil Products US JOB/SITE NAME Shell-branded Service Station LOCATION 350 Grand Avenue, Oakland, California PROJECT NUMBER 0715 DRILLER Gregg Drilling DRILLING METHOD Hydraulic push **BORING DIAMETER** 4"

S. Lewis

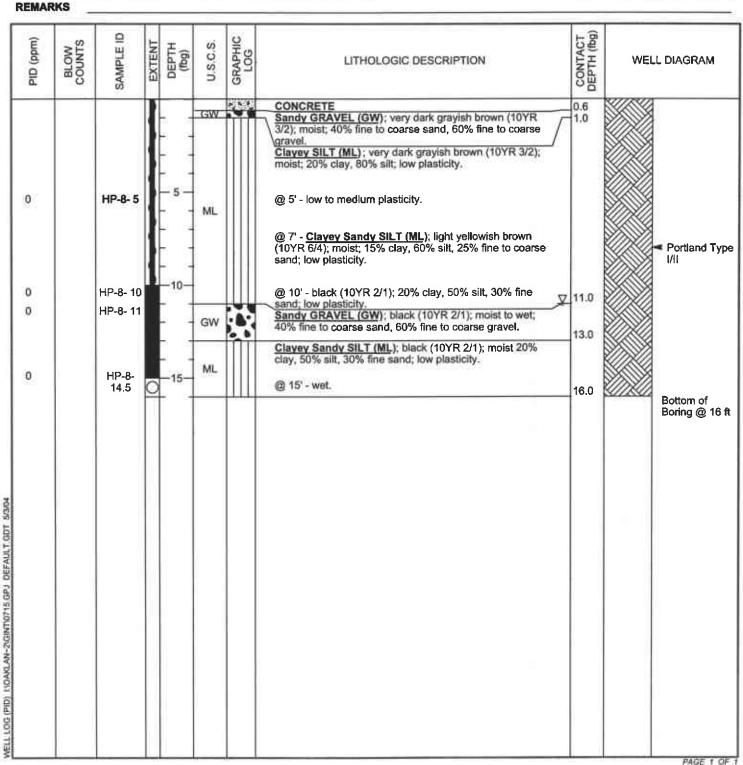
A. Friel, RG 6452

BORING/WELL NAME HP-8 13-Apr-04 **DRILLING STARTED** DRILLING COMPLETED 13-Apr-04 WELL DEVELOPMENT DATE (YIELD) NA Not Surveyed **GROUND SURFACE ELEVATION** TOP OF CASING ELEVATION Not Surveyed SCREENED INTERVAL

DEPTH TO WATER (Static)

DEPTH TO WATER (First Encountered) 11.0 ft (13-Apr-04) NA

LOGGED BY REVIEWED BY





Cambria Environmental Technology, Inc. 270 Perkins Street Sonoma, California 95476 Telephone: (707) 935-4850

Fax: (707) 935-6649

CLIENT NAME Shell Oil Products US **JOB/SITE NAME** Shell-branded Service Station LOCATION 350 Grand Avenue, Oakland, California PROJECT NUMBER 0715 DRILLER Gregg Drilling DRILLING METHOD Hand Auger BORING DIAMETER S. Lewis LOGGED BY **REVIEWED BY** A. Friel, RG 6452

BORING/WELL NAME HP-9

DRILLING STARTED 13-Apr-04

DRILLING COMPLETED 13-Apr-04

WELL DEVELOPMENT DATE (YIELD) NA

GROUND SURFACE ELEVATION Not Surveyed

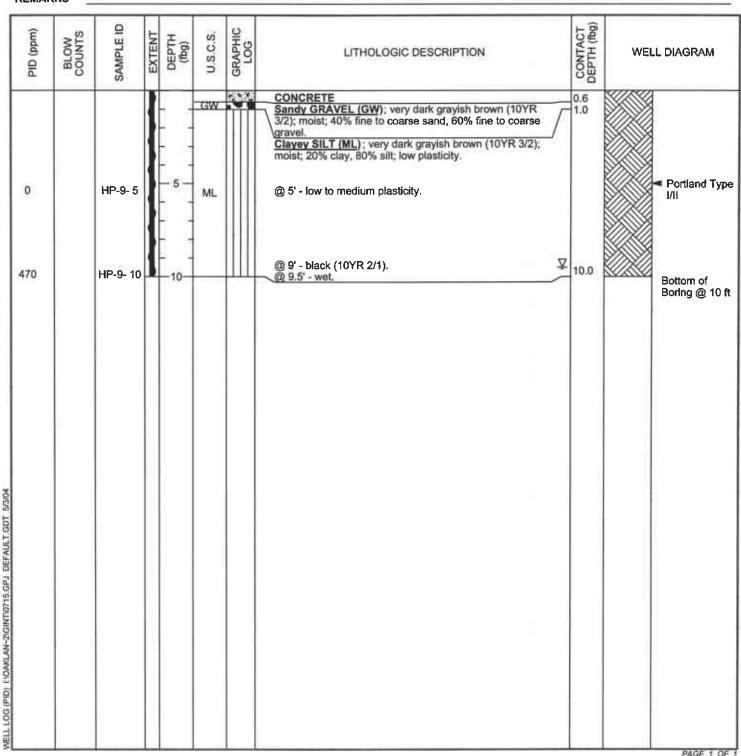
TOP OF CASING ELEVATION Not Surveyed

SCREENED INTERVAL NA

DEPTH TO WATER (First Encountered) 9.5 ft (13-Apr-04)

DEPTH TO WATER (Static) NA

REMARKS





Cambria Environmental Technology, Inc. 270 Perkins Street Sonoma, California 95476 Telephone: (707) 935-4850

Fax: (707) 935-6649

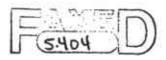
CLIENT NAME Shell Oil Products US HP-10 BORING/WELL NAME JOB/SITE NAME Shell-branded Service Station **DRILLING STARTED** 13-Apr-04 DRILLING COMPLETED 13-Apr-04 LOCATION 350 Grand Avenue, Oakland, California PROJECT NUMBER 0715 WELL DEVELOPMENT DATE (YIELD) NA Gregg Drilling **GROUND SURFACE ELEVATION** Not Surveyed DRILLER DRILLING METHOD Hand Auger TOP OF CASING ELEVATION Not Surveyed BORING DIAMETER SCREENED INTERVAL DEPTH TO WATER (First Encountered) 9.5 ft (13-Apr-04) S. Lewis **LOGGED BY REVIEWED BY** A. Friel, RG 6452 **DEPTH TO WATER (Static)** NA

REMARKS CONTACT DEPTH (fbg) GRAPHIC (mdd) BLOW U.S.C.S. EXTENT DEPTH (fbg) SAMPLE LITHOLOGIC DESCRIPTION WELL DIAGRAM Old 0.6 Sandy GRAVEL (GW); yellowish brown (10YR 5/4); 1.0 moist; 40% fine to coarse sand, 60% fine to coarse gravel.

Clayey Sandy SILT (ML): yellowish brown (10YR 5/4);
moist; 20% clay, 75% silt, 15% fine sand; low to medium plasticity. @ 4' - gray (10YR 5/1) Portland Type HP-10 -5 0 Ā 0 HP-10 10.0 @ 9.5' - wet. -9.5 Bottom of Boring @ 10 ft WELL LOG (PID) I YOAKLAN-2/GINTIO715 GP.J. DEFAULT GDT 5/3/04

Appendix C Disposal Confirmation and Profile Analytical Report

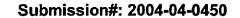




Hazardous Waste Hauler (Registration #2843)

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

_	Disposal Confirmation	
Request for Transportation	on Received:	04/26/04
	Consultant Information	
Company:	Cambria Environmental	
Contact:	Geno Mammini	
Phone:	707 933-2371	
Fax:	707 935-6649	
5	Site Information	
Station #:	N/A	
Street Address:	350 Grand Ave	
City, State, ZIP:	Oakland, CA	
Customer:	Shell Oil Company	RESA-0023-LDC
RIPR#:	34163	NEGA-0025-EDC
SAP # / Location:	N/A	
Incident #:	98995755	
Location / WIC #;	N/A	
Environmental Engineer:	Karen Petryna	
Material Description:	Contaminated Soil	
Estimated Quantity:	_5 yards	
Service Requested Date:		
Disposal Facility:	Forward Landfill	II 0020
Contact:	Joe Griffith	
Phone:	800 204-4242	
Approval #:	4415	
Date of Disposal:	04/29/04	
Actual Tonnage	.26	
Transporter:	Manley & Sons Trucking, Inc.	· ·
Contact:	Glenell Manley	
Phone:	916 381-6864	
ax:	916 381-1573	
nvoice:	52142	
Date of Invoice:		





Cambria Environmental Sonoma

April 21, 2004

270 Perkins Street Sonoma, CA 95476

Attn.:

Ana Friel

Project#: 246-0715

Project:

98995755

Site:

350 Grand Avenue, Oakland, CA

Attached is our report for your samples received on 04/14/2004 15:45 This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 05/29/2004 unless you have requested otherwise.

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

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

Sincerely,

Vincent Vancil

Project Manager



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 15:45

Site: 350 Grand Avenue, Oakland, CA

Samples Reported

Sample Name	engele († 1865) Pratigorius Saintigas († 1866)		Sele W
SP-1	04/13/2004 13:00	Soil	1



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 15:45



Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	11	1.0	mg/Kg	1.00	04/15/2004 22:25	



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 15:45

Compound	Conc.	RL	Unit	Analyzed	Flag
Leinogesiens Me 2002/02/16/07/36/2022		Solit Leden	Burgaya Carana Bura G	elo i saleli el 1900 di 200 : Extravilede 1947 estato	3.07 4.23
কিন্তু, ভাতুরগট কেন্দ্র হছিল বিব্যুক্ত				iti e tropication. Le le tropication.	101.1431
		a kanamana			the desired



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

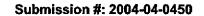
Project: 246-0715

98995755

Received: 04/14/2004 15:45

	Buch Octabi	
Ried St. 3050E		SSUS) (Bening)
ু বিভারত ইউল্লেখ্য ভাগতে	Sull is	OCERIAN/AUNE/UKYA-107/15
(ICS)) 2004/04/15 07/154	V.S 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	Apalyzes 63/15/2064 / 42
7,408 <i>02=2,42104(04)</i> 153974154 	24 4 15 xtracted (04/615/2004) 8	Analyzeő 1020 5/29647/297

Compound	Conc.	mg/Kg	Exp.Conc.	Recovery %		Recovery %		y % RPD Ctrl.Limits		nits %	Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD		
Lead	92.8	94.1	100.0	92.8	94.1	1.4	80-120	20				





Gas/BTEXFuel Oxygenates by 8260B (High Level)

Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 15:45

Site: 350 Grand Avenue, Oakland, CA

Samples Reported

Sangaledyemes 1991 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992							
SP-1	04/13/2004 13:00	Soil	1				



Gas/BTEXFuel Oxygenates by 8260B (High Level)

Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 15:45



Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	170	50	mg/Kg	1.00	04/21/2004 14:51	g
Benzene	ND	0.50	mg/Kg	1.00	04/21/2004 14:51	J
Toluene	ND	0.50	mg/Kg	1.00	04/21/2004 14:51	
Ethyl benzene	ND	0.50	mg/Kg	1.00	04/21/2004 14:51	
Total xylenes	ND	0.50	mg/Kg	1.00	04/21/2004 14:51	
Surrogate(s)						
1,2-Dichloroethane-d4	76.9	70-121	%	1.00	04/21/2004 14:51	
Toluene-d8	88.9	81-117	%		04/21/2004 14:51	





Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 15:45

		Bateli (00 Repsis 19		
Haramene Andrea Alianos de Berto		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		S(0) #3
ANE Zolezkeztus ta	151 <u>4</u> 113		Daile (Britania de 1827/2017/01) 2	e-510 -

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	mg/Kg	04/20/2004 22:30	
Benzene	ND	0.50	mg/Kg	04/20/2004 22:30	
Toluene	ND	0.50	mg/Kg	04/20/2004 22:30	
Ethyl benzene	ND	0.50	mg/Kg	04/20/2004 22:30	
Total xylenes	ND	0.50	mg/Kg	04/20/2004 22:30	
Surrogates(s)					
1,2-Dichloroethane-d4	93.9	70-121	%	04/20/2004 22:30	
Toluene-d8	93.0	81-117	%	04/20/2004 22:30	



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 15:45

Kieds (50608)		100 (ca) 28 26 (b)
Eaborator Control Spile		ે (ાં ક ારાના કે ન્યોમદેશમાં ત્યાં હું છું, તે
<u>A (</u>	조 기술 (Extrateles 10년) 2012(002) - 등	Anelyzeriki 47200 inga 245

Compound	Conc.	mg/Kg Exp.Con		. Recovery %		RPD	Ctrl.Lin	nits %	Flags		
	LCS	LCSD	[LCS	LCSD	%	Rec.	RPD	LCS	LCSD	
Benzene Toluene	11.2 10.5	11.4 10.4	10 10	112.0 105.0	114.0 104.0	1.8 1.0	69-129 70-130	20 20			
Surrogates(s) 1,2-Dichloroethane-d4 Toluene-d8	219 245	217 249	250 250	87.6 98.0	86.8 99.6		70-121 81-117				





Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 15:45

Site: 350 Grand Avenue, Oakland, CA

Result Flag

g

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

STL-San Francisco	Sha	ll Proj	eoi Mai	ager t	ودا د	lavo	41/391	1	IEL					0) (e		-	CONTRACTOR OF STREET	MATERIAL STREET	21,40000	(O)	74001.00	: - 'V'	: <u></u>	84818
1220 Quany Lane Pleasanton, CA 94586	126				je.			P	. (7		V				4								MAK.	DATE: 4-3-04
(925):484-1919: (925):484-1098: lax											4					Linn	******	•	77		i) Liv.	7817			PAGE L of L
Cambria Environmental Technology, Inc.	CETS	30°		,	1	5	بىلىد 2- ك	(Pares		u A		12.20			Ì.,	ĺ			7.0	COL.	4. 4. 4.		ا در د	eli ž	1/245
270 Pendin Bry (1) Schools (0) 85978)			2						7 C					2000	NATA ANGELY	• .			***	4.5		·			
And Friel	the state of the s					n di			1					A	0 T.	48.	56	LL C	100	OTTAL	d Q	etribi	le-en	v.com	₹16-67L
ATEMICA PROPERTY.	a.A.	JQ.	ملسه	* -e*	٠.		··-?		5	, sh	16	KJ.	<i>\$</i>												
🗖 10 DAYS 🖺 FOAKS 🗇 72 HOURS 🖸 44 HOURS	□ино	VS E	EŞ TIWI	II HOURS	i e										ħ	EOL	ES	/EO	ANA	LYS	(8	*		or, C	Control of the second s
ET LA MANGE REPORT FORMAT ET LIST ACENCY COMME LITHE COMPRELATION HONGERT APPENDAL IMPERILIOFICHE ON NOTERE CALL COMPANY OF MANY ACENCY APPENDAL IMPERILIOFICHE ON NOTERE APPENDAL IMPERILIORITE APPENDAL IMPERILIOR	KBOK IF	ed a [insign) egyptau		The second secon								Comment Company Co. Trans.	G THE STATE OF THE	- P							FIELD NOTES: ContainedProcerositive or FID Readings or Laboratory Hotes
Fleid Sample Identification	BAU PAYE	打掉点	MATRIX	NO. 00	7	HK.E	Ŏ B		B.A.	Stros	12004	I	, et a	8	Swall-Yo				73.19						INTERVIOR CHARGEBAO
SR-1AHL-ONG SLID	1/13	1300	E.	4	35° 74° 1	1						o reading				·		To the State of th	7	100	priotics:		i,		
A STATE OF THE STA		8 3-3 A		ģ. 19					41				eni duğ Sanrası	i li ≱∸naji				3	 		*				
				Å.	200		60 (1) 3-4-4-6 1-1-1-1-1					***		1 2		i me janomi i mari			linesis =	-		, mag	1		
	ال ديد	Carriery V	6		*	ές		1					2. — } 1 × 3 }		ļ.	r t	. · .	};;; (7₹%)] 33	بالحدي 14 م) }		•
The second secon	: 			ince or											ž.	1	- 1				i .			-4	And the second s
	and the second	ACT ACT	and the second s	Marin wasses of		20 TO 10 TO	100	9	e sy j					.,			ы :1 		1 (4)	198 	لوم اورد الاستنداد				The state of the s
		Wilder De L													i.	, (5)	1) 1 _ H			از ایندازی از ایندازید	2 (1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	3., 2. 3		
	/		1		- X							Mounts:	4		, Δ vià		ruma italia pina	V	2003) 	- X		·		(merce) (c)	
		Consession							- C								, ,		1		100		ritina Stanta		Mariana da Cara da Car Mariana da Cara da Car
		(PA)	Fland of Flan	,	or oa s	المالية		the contract of the contract o	en de la Recordina	2000 :	7-	782					1	- 4	-7	3	Ó	9	telungial		1600
		7		تدين	<u> </u>		<u> </u>		24	_		man	To the second		*			¥	1/1		OC,			Here:	
en Grafiel 1555					4	4			L	^		 مسين						34	11	1/0	¥				545

This information is business proprietary and confidential and must not be divutoed or shared outside the company. The use of this information is strictly for the purpose of doing business with the entralized Residual Management Team (CRMT). Upon termination of the relationship with the CRMT, his information is not to be forwarded, duplicated, shared or used for any purpose other than for the documentation of past actions.

RESIDUAL MANAGEMENT PROCEDURE

ISSUED DATE: 08/01/01

CANCELS ISSUE:

ISSUED BY: LRR

ESIDUAL STREAM:

SOIL WITH UNLEADED GASOLINE

INDOR:

ALLIED-BFT

)CATION:

ALLIED WASTE - MANTECA 9999 SOUTH AUSTINGAD

MANTECA, CA 95336

WIFORNIA - TRANSPORTATION AND RETAIL

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

IM MÉTALS = TTLC METALS - L'EAD ONLY

STIC ON ALL TILC METALS: 10 FIMES STIC MAXIMUM TILC LEAD=>13 MG/KG REQUIRES ORGANIC LEAD ANALYSIS IF ANY TILC TOTAL METAL IS > OR = TO 20 TIMES TELP REGULATORY LEVELS; TICLP IS REQUIREE

STAL PETROLEUM HYDROCARBONS, METHOD 418.1 OK 8015

TOÉMETHOD 02008 (GCMS)

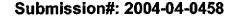
QUATIC BIOASSAY (FISH TOX) IS ONLY TO BE RUN ON SAMPLES > OR = TO 5000 PPM TRH. ADUATIC DASSAY (FISH TOX) = PART 800 OF STANDARD METHODS FOR THE EXAMINATION OF WARER AND ASTEWATER (15TH EDITION)

(BORATORY INSTRUCTIONS (MINIMUM GUIDELINES ONLY) LTERNATE APPROVED TEST METHODS PER SW846 ARE ALSO ACCEPTABLE UL REQUIRED TESTS ON COMPOSITE (MAX.4:1): ABORATORY IS TO SUPPLY DAYOC INFORMATION WITH ALL ANALYTICAL REPORTS CATE ON FAX ALL ANTALYSIS TO THE CENTRALIZED RESIDUAL MANAGEMENT, TEAM

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



Appendix D Certified Analytical Report





Cambria Environmental Sonoma

April 28, 2004

270 Perkins Street Sonoma, CA 95476

Attn.:

Ana Friel

Project#: 246-0715

Project:

98995755

Site:

350 Grand Avenue, Oakland, CA

Attached is our report for your samples received on 04/14/2004 10:35 This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 05/29/2004 unless you have requested otherwise.

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

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

Sincerely,

Vincent Vancil **Project Manager**



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35

Site: 350 Grand Avenue, Oakland, CA

Samples Reported

Sangle Name & Sangle Sangle			
HP-7-W	04/13/2004 12:20	Water	5
HP-8-W	04/13/2004 12:06	Water	10
HP-9-W	04/13/2004 13:35	Water	13
HP-10-W	04/13/2004 13:06	Water	16



Cambria Environmental Sonoma

Attn.: Ana Friel

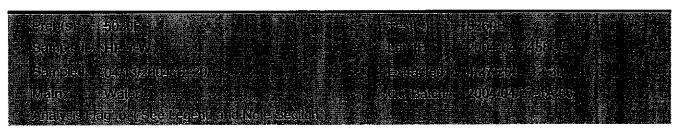
270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1300	100	ug/L	2.00	04/27/2004 12:30	
Benzene	ND	1.0	ug/L	2.00	04/27/2004 12:30	
Toluene	ND	1.0	ug/L	2.00	04/27/2004 12:30	
Ethylbenzene	25	1.0	ug/L	2.00	04/27/2004 12:30	
Total xylenes	17	2.0	ug/L	2.00	04/27/2004 12:30	
Methyl tert-butyl ether (MTBE)	89	1.0	ug/L	2.00	04/27/2004 12:30	
Surrogate(s)						
1,2-Dichloroethane-d4	102.1	76-130	%	2.00	04/27/2004 12:30	
Toluene-d8	95.4	78-115	%	2.00	04/27/2004 12:30	



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	57	50	ug/L	1.00	04/27/2004 02:40	g
Benzene	ND	0.50	ug/L	1.00	04/27/2004 02:40	3
Toluene	ND	0.50	ug/L	1.00	04/27/2004 02:40	
Ethylbenzene	ND	0.50	ug/L	1.00	04/27/2004 02:40	
Total xylenes	ND	1.0	ug/L		04/27/2004 02:40	
Methyl tert-butyl ether (MTBE)	6.2	0.50	ug/L		04/27/2004 02:40	
Surrogate(s)		Ì				
1,2-Dichloroethane-d4	124.6	76-130	%	1.00	04/27/2004 02:40	
Toluene-d8	108.6	78-115	%	1.00	04/27/2004 02:40	



Cambria Environmental Sonoma

Attn.: Ana Friel

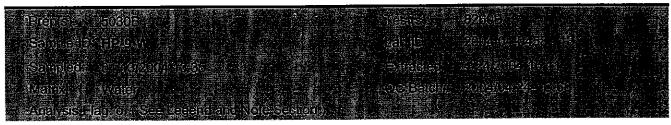
270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	89000	5000	ug/L	100.00	04/24/2004 16:11	
Benzene	480	50	ug/L	100.00	04/24/2004 16:11	
Toluene	68	50	ug/L	100.00	04/24/2004 16:11	
Ethylbenzene	280	50	ug/L	100.00	04/24/2004 16:11	
Total xylenes	ND	100	ug/L	100.00	04/24/2004 16:11	
Methyl tert-butyl ether (MTBE)	730	50	ug/L	100.00	04/24/2004 16:11	
Surrogate(s)	ŀ					
1,2-Dichloroethane-d4	87.4	76-130	%	100.00	04/24/2004 16:11	
Toluene-d8	80.1	78-115	%	100.00	04/24/2004 16:11	



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/26/2004 20:03	
Benzene	ND	0.5	ug/L	04/26/2004 20:03	
Toluene	ND	0.5	ug/L	04/26/2004 20:03	
Ethylbenzene	ND	0.5	ug/L	04/26/2004 20:03	
Total xylenes	ND	1.0	ug/L	04/26/2004 20:03	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/26/2004 20:03	
Surrogates(s)		1			
1,2-Dichloroethane-d4	108.5	76-130	%	04/26/2004 20:03	
Toluene-d8	112.4	78-115	%	04/26/2004 20:03	



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	04/27/2004 08:26	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/27/2004 08:26	
Benzene	ND	0.5	ug/L	04/27/2004 08:26	
Toluene	ND	0.5	ug/L	04/27/2004 08:26	
Ethylbenzene	ND	0.5	ug/L	04/27/2004 08:26	
Total xylenes	ND	1.0	ug/L	04/27/2004 08:26	
Surrogates(s)					
1,2-Dichloroethane-d4	98.8	76-130	%	04/27/2004 08:26	
Toluene-d8	100.8	78-115	%	04/27/2004 08:26	



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	ug/L	Exp.Conc.	Recov	ery %	RPD	Ctrl.Lim	nits %	Fla	ags
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	23.8	22.3	25	95.2	89.2	6.5	65-165	20		
Benzene	24.1	21.5	25	96.4	86.0	11.4	69-129	20		
Toluene	23.3	20.8	25	93.2	83.2	11.3	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	399	393	500	79.8	78.6		76-130			
Toluene-d8	424	428	500	84.8	85.6		78-115			



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	ug/L	Exp.Conc.	Recov	/ery %	RPD	Ctrl.Lin	nits %	Fla	igs
	LCS	LCSD		LCS	LCSD	.%	Rec.	RPD	LCS	LCSD
Benzene Toluene Methyl tert-butyl ether (MTBE)	30.1 29.4 29.8	30.0 29.8 34.6	25 25 25	120.4 117.6 119.2	120.0 119.2 138.4	0.3 1.4 14.9	69-129 70-130 65-165	20 20 20		
Surrogates(s) 1,2-Dichloroethane-d4 Toluene-d8	543 561	535 574	500 500	108.6 112.2	107.0 114.8		76-130 78-115			



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	ug/L	Exp.Conc.	Reco	very %	RPD	Ctrl.Lin	nits %	Fla	ags
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE) Benzene Toluene	22.9 23.7 23.2	21.3 23.3 23.1	25 25 25	91.6 94.8 92.8	85.2 93.2 92.4	7.2 1.7 0.4	65-165 69-129 70-130	20 20 20		
Surrogates(s) 1,2-Dichloroethane-d4 Toluene-d8	457 488	444 507	500 500	91.4 97.6	88.8 101.4		76-130 78-115			



Cambria Environmental Sonoma

Attn.: Ana Friel

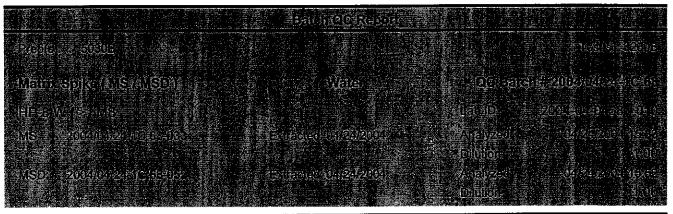
270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	u	g/L	Spk.Level	F	Recovery	%	Limits	s %	FI	ags
Compound	MS	MSD	Sample	ug/L	MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	24.2	24.4	ND	25	96.8	97.6	8.0	69-129	20		
Toluene	24.9	23.1	ND	25	99.6	92.4	7.5	70-130	20		
Methyl tert-butyl ether	31.3	32.5	6.42	25	99.5	104.3	4.7	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	391	409		500	78.2	81.8		76-130			
Toluene-d8	433	445		500	86.6	89.0		78-115	!		





Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35

Site: 350 Grand Avenue, Oakland, CA

Analysis Flag

0

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

Result Flag

g

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



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35

Site: 350 Grand Avenue, Oakland, CA

Samples Reported

Bangoledkiahijevs – egyveikyr	e de organista e de		
HP-7-5`	04/13/2004 11:16	Soil	1
HP-7-15`	04/13/2004 11:46	Soil	3
HP-7-19.5`	04/13/2004 11:48	Soil	4
HP-8-5'	04/13/2004 09:49	Soil	6
HP-8-10`	04/13/2004 10:02	Soil	7
HP-8-11`	04/13/2004 10:25	Soil	8
HP-8-14.5`	04/13/2004 10:58	Soil	9
HP-9-5`	04/13/2004 11:10	Soil	11
HP-10-5`	04/13/2004 12:41	Soil	14
HP-10-9.5`	04/13/2004 12:52	Soil	15



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	4.0	1.0	mg/Kg	1.00	04/27/2004 14:39	
Benzene	ND	0.0050	mg/Kg	1.00	04/27/2004 14:39	
Toluene	ND	0.0050	mg/Kg		04/27/2004 14:39	
Ethyl benzene	0.013	0.0050	mg/Kg		04/27/2004 14:39	
Total xylenes	0.019	0.0050	mg/Kg		04/27/2004 14:39	
Methyl tert-butyl ether (MTBE)	0.045	0.0050	mg/Kg		04/27/2004 14:39	
Surrogate(s)	ļ					
1,2-Dichloroethane-d4	129.8	70-121	%	1.00	04/27/2004 14:39	sh
Toluene-d8	97.8	81-117	%		04/27/2004 14:39	311



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	3.3	1.0	mg/Kg	1.00	04/27/2004 14:16	
Benzene	ND	0.0050	mg/Kg	1.00	04/27/2004 14:16	
Toluene	ND	0.0050	mg/Kg	1.00	04/27/2004 14:16	
Ethyl benzene	0.036	0.0050	mg/Kg	1.00	04/27/2004 14:16	
Total xylenes	0.025	0.0050	mg/Kg	1.00	04/27/2004 14:16	
Methyl tert-butyl ether (MTBE)	0.023	0.0050	mg/Kg	1.00	04/27/2004 14:16	
Surrogate(s)		1				
1,2-Dichloroethane-d4	108.6	70-121	%	1.00	04/27/2004 14:16	
Toluene-d8	90.9	81-117	%	1.00	04/27/2004 14:16	



Cambria Environmental Sonoma

Attn.: Ana Friel

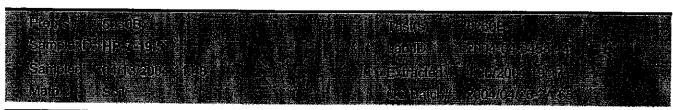
270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/26/2004 19:17	
Benzene	ND	0.0050	mg/Kg	1.00		
Toluene	ND	0.0050	mg/Kg	1.00	04/26/2004 19:17	
Ethyl benzene	ND	0.0050	mg/Kg	1.00		
Total xylenes	ND	0.0050	mg/Kg	1.00		
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	04/26/2004 19:17	
Surrogate(s)						
1,2-Dichloroethane-d4	99.2	70-121	%	1.00	04/26/2004 19:17	
Toluene-d8	98.0	81-117	%			



Cambria Environmental Sonoma

Attn.: Ana Friel

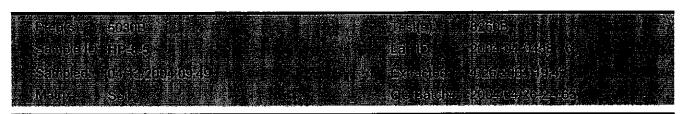
270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/26/2004 19:42	
Benzene	ND	0.0050	mg/Kg	1.00	04/26/2004 19:42	
Toluene	ND	0.0050	mg/Kg	1.00	04/26/2004 19:42	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/26/2004 19:42	
Total xylenes	ND	0.0050	mg/Kg	1.00	04/26/2004 19:42	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	04/26/2004 19:42	
Surrogate(s)						
1,2-Dichloroethane-d4	97.0	70-121	%	1.00	04/26/2004 19:42	
Toluene-d8	91.1	81-117	%	1.00	04/26/2004 19:42	



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/26/2004 20:06	
Benzene	ND	0.0050	mg/Kg	1.00	04/26/2004 20:06	
Toluene	ND	0.0050	mg/Kg	1.00	04/26/2004 20:06	
Ethyl benzene	ND	0.0050	mg/Kg		04/26/2004 20:06	
Total xylenes	ND	0.0050	mg/Kg	1.00	04/26/2004 20:06	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	04/26/2004 20:06	
Surrogate(s)	l					
1,2-Dichloroethane-d4	101.0	70-121	 %	1.00	04/26/2004 20:06	
Toluene-d8	103.6	81-117	%	1.00	04/26/2004 20:06	



Cambria Environmental Sonoma

Attn.: Ana Friel

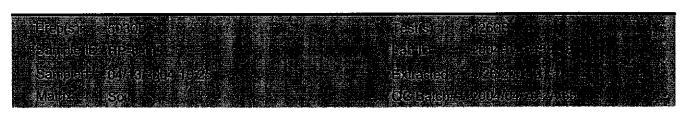
270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/26/2004 21:18	
Benzene	ND	0.0050	mg/Kg	1.00	04/26/2004 21:18	
Toluene	ND	0.0050	mg/Kg	1.00	04/26/2004 21:18	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/26/2004 21:18	
Total xylenes	ND	0.0050	mg/Kg	1.00	04/26/2004 21:18	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	04/26/2004 21:18	
Surrogate(s)		<u> </u>				
1,2-Dichloroethane-d4	98.2	70-121	%	1.00	04/26/2004 21:18	
Toluene-d8	97.3	81-117	%	1.00	04/26/2004 21:18	



Cambria Environmental Sonoma

Attn.: Ana Friel

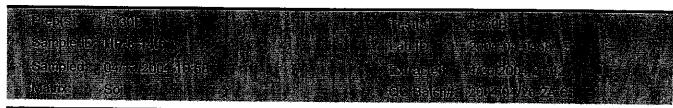
270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/26/2004 21:42	
Benzene	ND	0.0050	mg/Kg	1.00	04/26/2004 21:42	
Toluene	ND	0.0050	mg/Kg	1.00	04/26/2004 21:42	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	: · · · · I	
Total xylenes	ND	0.0050	mg/Kg	1.00		
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg		04/26/2004 21:42	
Surrogate(s)	ř	1				
1,2-Dichloroethane-d4	97.9	70-121	%	1.00	04/26/2004 21:42	
Toluene-d8	98.1	81-117	%	1.00	04/26/2004 21:42	



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/26/2004 22:04	
Benzene	ND	0.0050	mg/Kg	1.00	04/26/2004 22:04	
Toluene	NĐ	0.0050	mg/Kg	1.00	04/26/2004 22:04	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/26/2004 22:04	
Total xylenes	ND	0.0050	mg/Kg	1.00	04/26/2004 22:04	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	04/26/2004 22:04	
Surrogate(s)	į		1			
1,2-Dichloroethane-d4	102.9	70-121	%	1.00	04/26/2004 22:04	
Toluene-d8	101.1	81-117	%	1.00	04/26/2004 22:04	



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/26/2004 22:28	······································
Benzene	ND	0.0050	mg/Kg	1.00	04/26/2004 22:28	
Toluene	ND	0.0050	mg/Kg		04/26/2004 22:28	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/26/2004 22:28	
Total xylenes	ND	0.0050	mg/Kg	1.00	04/26/2004 22:28	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	04/26/2004 22:28	
Surrogate(s)						
1,2-Dichloroethane-d4	99.1	70-121	%	1.00	04/26/2004 22:28	
Toluene-d8	91.8	81-117	%		04/26/2004 22:28	



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/26/2004 22:52	
Benzene	ND	0.0050	mg/Kg	1.00	04/26/2004 22:52	
Toluene	ND	0.0050	mg/Kg	1.00	04/26/2004 22:52	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/26/2004 22:52	
Total xylenes	ND	0.0050	mg/Kg	1.00	04/26/2004 22:52	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	04/26/2004 22:52	
Surrogate(s)						
1,2-Dichloroethane-d4	94.7	70-121	%	1.00	04/26/2004 22:52	
Toluene-d8	100.7	81-117	%	1.00	04/26/2004 22:52	



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.000	mg/Kg	04/26/2004 18:19	X
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	04/26/2004 18:19	
Benzene	ND	0.0050	mg/Kg	04/26/2004 18:19	
Toluene	ND	0.0050	mg/Kg	04/26/2004 18:19	
Ethyl benzene	ND	0.0050	mg/Kg	04/26/2004 18:19	
Total xylenes	ND	0.0050	mg/Kg	04/26/2004 18:19	
Surrogates(s)					
1,2-Dichloroethane-d4	96.8	70-121	%	04/26/2004 18:19	
Toluene-d8	93.1	81-117	%	04/26/2004 18:19	



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.000	mg/Kg	04/27/2004 10:10	
Benzene	ND	0.0050	mg/Kg	04/27/2004 10:10	
Toluene	ND	0.0050	mg/Kg	04/27/2004 10:10	
Ethyl benzene	ND	0.0050	mg/Kg	04/27/2004 10:10	
Total xylenes	ND	0.0050	mg/Kg	04/27/2004 10:10	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	04/27/2004 10:10	
Surrogates(s)					
1,2-Dichloroethane-d4	99.3	70-121	%	04/27/2004 10:10	
Toluene-d8	93.3	81-117	%	04/27/2004 10:10	



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	mg/Kg	Exp.Conc.	Reco	very %	RPD	Ctrl.Lin	nits %	Fla	ags
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE) Benzene Toluene	0.0510 0.0479 0.0458	0.0616 0.0509 0.0470	0.05 0.05 0.05	102.0 95.8 91.6	123.2 101.8 94.0	18.8 6.1 2.6	65-165 69-129 70-130	20 20 20		. .
Surrogates(s) 1,2-Dichloroethane-d4 Toluene-d8	473 456	520 466	500 500	94.6 91.2	104.0 93.2		70-121 81-117			





Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	mg/Kg	Exp.Conc.	Reco	very %	RPD	Ctrl.Lin	nits %	Fla	ags
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene	0.0470	0.0471	0.05	94.0	94.2	0.2	69-129	20		
Toluene	0.0513	0.0505	0.05	102.6	101.0	1.6	70-130	20		1
Methyl tert-butyl ether (MTBE)	0.0498	0.0540	0.05	99.6	108.0	8.1	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	497	549	500	99.4	109.8	1	70-121			
Toluene-d8	511	502	500	102.2	100.4		81-117			



Cambria Environmental Sonoma

Attn.: Ana Friel

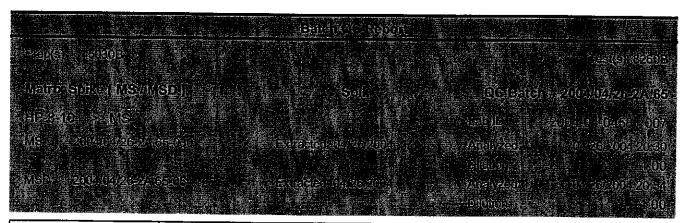
270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	Conc. mg/Kg		Spk.Level	Recovery %		Limits %		Flags		
MS	MS	MSD	Sample	mg/Kg	мѕ	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether Benzene Toluene	0.0514 0.0548 0.0497	0.0406 0.0465 0.0424	ND ND ND	0.047619 0.047619 0.047619	115.1	84.4 96.7 88.1	24.5 17.4 16.9	65-165 69-129 70-130	20 20 20		rpd
Surrogate(s) 1,2-Dichloroethane-d4 Toluene-d8	513 499	503 509		500 500	102.6 99.7	100.6 101.7		70-121 81-117			





Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35

Site: 350 Grand Avenue, Oakland, CA



Result Flag

rpd

Analyte RPD was out of QC limits due to sample heterogeneity.

sh

Surrogate recovery was higher than QC limit due to matrix interference.





Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35

Site: 350 Grand Avenue, Oakland, CA

Samples Reported

Samuel Name of the second of the second		en Benadaharan	强性的性
HP-7-10`	04/13/2004 11:39	Soil	2
HP-9-10'	04/13/2004 11:22	Soil	12



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	85	50	mg/Kg	1.00	04/27/2004 13:31	
Benzene	ND	0.50	mg/Kg	1.00	04/27/2004 13:31	
Toluene	ND	0.50	mg/Kg	1.00	04/27/2004 13:31	
Ethyl benzene	0.53	0.50	mg/Kg	1.00	04/27/2004 13:31	
Total xylenes	0.68	0.50	mg/Kg	1.00	04/27/2004 13:31	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	1.00	04/27/2004 13:31	
Surrogate(s)	ŀ					
1,2-Dichloroethane-d4	93.0	70-121	%	1.00	04/27/2004 13:31	
Toluene-d8	87.0	81-117	%	1.00	04/27/2004 13:31	



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	4300	500	mg/Kg	10.00	04/27/2004 14:43	
Benzene	ND	5.0	mg/Kg	10.00		
Toluene	ND	5.0	mg/Kg	10.00	04/27/2004 14:43	
Ethyl benzene	ND	5.0	mg/Kg		04/27/2004 14:43	
Total xylenes	ND	5.0	mg/Kg		04/27/2004 14:43	
Methyl tert-butyl ether (MTBE)	ND	5.0	mg/Kg		04/27/2004 14:43	
Surrogate(s)			" "			
1,2-Dichloroethane-d4	NA	70-121	%	10.00	04/27/2004 14:43	sd
Toluene-d8	NA	81-117	%		04/27/2004 14:43	sd



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	mg/Kg	04/27/2004 13:13	
Benzene	ND	0.50	mg/Kg	04/27/2004 13:13	
Toluene	ND	0.50	mg/Kg	04/27/2004 13:13	
Ethyl benzene	ND	0.50	mg/Kg	04/27/2004 13:13	
Total xylenes	ND	0.50	mg/Kg	04/27/2004 13:13	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	04/27/2004 13:13	
Surrogates(s)					
1,2-Dichloroethane-d4	108.5	70-121	%	04/27/2004 13:13	
Toluene-d8	111.0	81-117	%	04/27/2004 13:13	





Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35



Compound	Conc.	mg/Kg	Exp.Conc.	Reco	very %	RPD	Ctrl.Lin	nits %	Fla	ags
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene Toluene Methyl tert-butyl ether (MTBE)	10.5 10.3 9.85	11.0 10.4 10.4	10.00 10.00 10.00	105.0 103.0 98.5	110.0 104.0 104.0	4.7 1.0 5.4	69-129 70-130 65-165	20 20 20	, -	
Surrogates(s) 1,2-Dichloroethane-d4 Toluene-d8	225 243	240 249	250 250	90.0 97.2	96.0 99.6		70-121 81-117			



Cambria Environmental Sonoma

Attn.: Ana Friel

270 Perkins Street Sonoma, CA 95476

Phone: (707) 442-2700 Fax: (707) 442-2700

Project: 246-0715

98995755

Received: 04/14/2004 10:35

Site: 350 Grand Avenue, Oakland, CA



Analysis Flag

0

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

Result Flag

sd

Surrogate recovery not reportable due to required dilution.

STL-San Francisco	Tac					SHELL Chain Of Gustody Record														84819								
1220 Quarry Lane			(A) (A) (A)	nager Ma	lo be		olosi	d:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_	Track /					l. G	MG	7 9				77 (B) 27	- S			4-13		
Placeanton, CA 94566	1 15000									ن د		_	a :			-		20,1				A			DATE	1		
(925) 484-1919 (925) 484-1096 lax	100 00	30(14)(4)	HOO!		20	#		- ("	f.	- 6) {	P.	5	8	3186245					T	i dia			PAGE	ol		
Production and the control of the co																				Color in this								
270 Parking Street, Bonomy, CA 85478);	<u> </u>	7	U A	vez	G.A.	9.0	4	4	7 60	00	/(27	<u> 25-</u>) commentants	Acres Inc.	
TELEPHONE							Ana Friel 207-442-																	COM				
76 7- 441-2700 707- 442-270 TURKAROUND TIME (BUSINESS DAYS):	o ar	i.06	Parl					F.	•		50	ز بر	# 2	1	مرت	2_												
A 16 DAYS - 5 DAYS - 72 HOURS - 45 HOURS - 24 HOURS - LESS THAN 24 HOURS							REQUESTED ANALYSIS																indi	alan Ülirle besehs a	ب الله مظام			
☐ LA - RANGOS REPORT FORMAT ☐ UST AGENCY:							1	T	Τ	7		Ť	Ţ	T	1	1		T		- x 2	*** 	T	1	7	Ţ.		****	
Market Agency Agency and the Company of the Company	OHEST PE			»Ц		6 (8015m)							The state of the s	The state of the s	8270C	O STLO D TOLP	O State or Tale	Serie D resp			- Control of the Cont			The state of the s		FIELD NO Containen/Presi or PID Read or Laboratory	ervatiyo Inga	
I.					ST.	Tracta .				emadore	A and ED		3	7 828EDB	ni-Yolediles by	10 14 14	7	1	Tarod NO				-			3.6	4.0	
Field Sample Identification	DATE	PLING	натак	HO, OF CONT.	ÌĖ	-H-L	DIEX.	KTBE	ă	S Oxyg	T DCA	than	tethenot	focs by	7. JE	P	FTS	CAMP77	Š						TEMPE	RATURE ON REC	ERICE:	
HP-7-5	1/13	11/6	50	7	×		X	-		-		-QJ	. 2	5	#	J:	7	Ö	12			-	_					
HP-7-10'	1/13	1/37	50	1	à		K											-				<u> </u>	_					
HP-7-15	1/3	1146	50	1	a	1	X	_	······································	•								4				_		╀-				
HP-7-19.5'	41		50	1	K			X	3	-											:			_		N.V.	· · · · · · · · · · · · · · · · · · ·	
HP-7-W	1/3	1220	64	3	X		χ,	-		-			_		~		+				-			-				
HP-8-5'	1/2	0999	50	,	X			a_				1		-											-			
HP-8-10'	1/3	00 2	50	1	N.		a	-						-	+		+									0-20-17-18-18-18-18-18-18-18-18-18-18-18-18-18-		
HP-8-11	1/13	025	50		7		X I	_	7		1			+	\dashv		+				-							
HP-8-14,5	1/3	058	40	1	$\vec{\lambda}$	T	æ,		7		<u> </u>					\dashv	+			_		-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
HP-8-W	1/13 1	206 6	54	3	X		7	777	十	十	1	7			\dashv		\dashv	\dashv	-	-								
had Bi														+							: Through							
Reservedby: (Signature)																		4-14-04							0700			
Maryland by (Square)						1771												4/191/04							1035			
STRUME COSS SENSE							Then																	Time;	1545			
or PERSONAL PARTY WHITE WHITE Read Perport, Chrosel to Pills, Yestow and Print to C	Nord.	7	70		77	IV					*************************************	*************************************				-		7 (1/	Ų	1			19	()		

torioroo flesiston

SHELL Chain Of Custody Record STL-San Francisco Shall Project Manager to be involced: karen Petgna 004-04-0458 A STREET, A CHARLESTON 98995755 1220 Quarry Lane Pleasanton, CA 94566 Controverse // (925) 484-1919 (925) 484-1096 fax LUKUM TERRIT T0600100255 CON COME Cambria Environmental Technology, Inc. CET8 270 Perkins Street, Schoms, CA 95478 An Frid 246-075 707-4422740 ecnomaedi@cambris-env.com Anctrice Scottleris 707-442-2700 atricle contra en en 442-2700 TURNARCUND TIME (BUSINESS DAYE): ☐ 10 DAYS ☐ SDAYS ☐ 72 HOURS ☐ 46 HOURS ☐ 26 HOURS ☐ LESS THAN 24 HOURS REQUESTED ANALYSIS LA - RIVOCO REPORT PORNAT L UST AGENCY: OCALS LATES CONFERMATION: HIGHERT HIGHEST our BORNING FIELD NOTES: CHECK BOX IF EDO IS NOT HEEDED SPECIAL INSTRUCTIONS OF NOTES: Container/Preservative or PID Readings or Laboratory Notice <u>...</u> MARKET BAMPLING TEMPERATURE CHARGOSTIVE CO Field Sample Identification NO. OF DATE TIME HP-9-5 HP-10-9.5 HP-10-W 4-14-04 0700