

Alameda County

DEC 17 2003



Shell Oil Products US

Environmental Health

20343

December 16, 2003

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

Subject: Former Shell Service Station
461 8th Street
Oakland, California

Dear Mr. Chan:

Attached for your review and comment is a copy of the *Subsurface Investigation Report* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

A handwritten signature in cursive script that reads "Karen Petryna".

Karen Petryna
Sr. Environmental Engineer

Alameda County

DEC 17 2003

Environmental Health

December 16, 2003

C A M B R I A

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

Re: **Subsurface Investigation Report**
Former Shell Service Station
461 8th Street
Oakland, California
ACHCS File: RO0000343



Dear Mr. Chan:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), Cambria Environmental Technology, Inc. (Cambria) is submitting this *Subsurface Investigation Report* for the referenced site. Cambria's April 30, 2002 *Agency Response and Investigation Work Plan* and June 7, 2002 *Agency Response and Work Plan Addendum* proposed to install three on-site groundwater monitoring wells, two on-site soil borings, five off-site groundwater monitoring wells and one off-site soil boring. The investigation proceeded with the off-site soil borings. However, due to underground utilities, the underground San Francisco Bay Area Rapid Transit (BART) line, and shallow refusal, only one of the borings was completed. An access agreement to complete the on-site work is still in negotiation between Shell and the property owner. Presented below are summaries of the site background, investigation procedures, investigation results and conclusions.

SITE DESCRIPTION AND HISTORY

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

Oakland, CA
San Ramon, CA
Sonoma, CA

**Cambria
Environmental
Technology, Inc.**

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

C A M B R I A



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

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

Information collected by GSI and reported in a June 30, 1993 *Phase I Preliminary Site Assessment* identified seven sites with known UST leaks within a ¼-mile radius of the site. One of the seven sites identified is the Oakland Police Department site, which was noted in the *Bart Recovery Project Log* to have replaced leaking USTs in October 1979 and to have accepted product deliveries by a local Shell gasoline distributor. During a review of available regulatory files, GSI noted a permit to repair the product lines and dispensers at the Oakland Police Department parking lot taken out in 1984 by Egan and Paradiso Company, but no additional information was available. It appears that no environmental investigation has been conducted for this site.

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In July 1994, nine soil borings were installed in the vicinity of the former pump islands and the former USTs at the site. Investigation activities are described in an August 16, 1994 *Enviros Site Investigation Report*. The maximum total petroleum hydrocarbons as gasoline (TPHg) and benzene concentrations reported in soil samples were 15 parts per million (ppm) and 0.24 ppm, respectively, collected near the former pump islands. No TPHg or benzene was reported in the area of the former piping or the former UST locations.

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

Groundwater Monitoring: Periodic gauging of the offsite wells began in 1981, and quarterly groundwater monitoring began in late 1988. Quarterly monitoring of the onsite wells began in 1995 and continues today. Depth-to-water has ranged historically between 12.82 and 25.84 feet below grade (fbg), and typically flows south to south-southwest. Historical groundwater monitoring data indicates that onsite monitoring wells S-8, S-9 and S-10 have reported TPHg concentrations ranging from below method detection limits to 4,800 parts per billion (ppb) and benzene concentrations ranging from 1.0 ppb to 1,800 ppb. No SPH have been reported onsite. Prior to 1998, offsite well S-5 consistently reported SPH. Wells S-5 and S-6 have historically reported up to 142,000 ppb TPHg and 29,000 ppb benzene. Currently, Blaine Tech Services, Inc. (Blaine) extracts groundwater from wells S-5 and S-6 during quarterly monitoring activities.

INVESTIGATION PROCEDURES

The implementation of Cambria's work plans to install three on-site groundwater monitoring wells, two on-site soil borings, five off-site groundwater monitoring wells and one off-site soil boring was delayed due to an access agreement not being obtained from the current property owner. The proposed onsite work is still pending that agreement.

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Shell requested Cambria proceed with the off-site work which originally proposed five off-site groundwater monitoring wells and one off-site soil boring. Several boring locations were changed prior to drilling due to locations of underground utilities and the underground Bay Area Rapid Transit (BART) line (Figure 2). Well S-15 was originally proposed for installation within Broadway on the east side of Broadway, midway between Sixth Street and Seventh Street, but it had to be move approximately 100 feet towards Sixth Street do to the BART tunnels. It was decided S-16 would not be installed due to the revised location of proposed well S-15 being relatively close to S-16. Well S-16 was also eliminated instead of S-15 because S-15 is located closer to the former Shell site and at a safer location for a well, as it has less vehicular traffic. Also, the well located on the west side of Broadway between Sixth and Seventh Streets had to be eliminated due to the underground BART line.

The scope of work was also modified to perform only soil and water sampling without installing monitoring wells. Shell approved the work scope change to first install soil borings with water sampling to determine if monitoring wells were warranted. With these revisions, the scope of work attempted was the installation of four offsite borings to collect soil and groundwater samples for chemical analyses.

Only one of the attempted four borings was installed.

- The proposed boring S-17 within Sixth Street, located west of Broadway was unsuccessful due to an underground obstruction located at 7 fbg encountered during hand clearing. Material indicative of an underground line was observed in both attempted borings at this depth. There were no Underground Service Alert (USA) markings in this area. No other locations for the boring were possible due to the vicinity of other underground utilities (Figure 2). This boring potentially could be installed in the adjacent sidewalk, however an excavation permit with a variance to conduct work in the sidewalk would need to be obtained from the City of Oakland.
- Refusal due to concrete at approximately two fbg was encountered during an attempt to install the boring on the west side of Broadway between Seventh and Eighth Streets (near well S-6). No other drilling attempts were made at this location due to marked underground utilities in the vicinity and BART. The adjacent sidewalk has a basement below it, which is considered a potential soil boring location requiring an access agreement between Shell and the building's property owner.
- Refusal at three fbg was encountered in two attempted borings at S-15 due to concrete and brick debris.

S-5?

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- Soil boring HA-1 was advanced using a hand auger and was continuously logged for lithologic description. Soil samples were collected at approximate 5-foot intervals.

The procedures for this subsurface investigation are summarized below. Analytical results for soil are summarized in Table 1 and the laboratory analytical report is presented as Attachment A. Cambria's standard field procedures for hand-auger sampling, the permits and the boring log are presented as Attachments B, C and D, respectively. Soil disposal confirmation is presented as Attachment E.

Personnel Present:

Jason Gerke, Senior Staff Scientist, Cambria.
Jeremy Neff, Gregg Drilling Inc. (Gregg) of Martinez California.
Bobby Deason, Gregg.
Francisco David, Inspector, City of Oakland.

Permits:

City of Oakland Traffic Control Permit TSD-02039;
City of Oakland Obstruction Permit Numbers OB030671, OB030672
and OB030673;
City of Oakland Excavation Permit Numbers X0200988, and
X0200989 and X0200990;
City of Oakland Minor Encroachment Permit Number 02235;
Alameda County Public Works Agency Permit Number W03-0882;
and
San Francisco Bay Area Rapid Transit District Permit to Enter
Number M-00.2-001-OK (Attachment C).

Drilling Date:

October 14, 2003.

Drilling Company:

Gregg, C-57 License # 485-165.

Drilling Method:

Air knife and hand auger.

Number of Borings:

One boring: (HA-1 on Figure 2).

Boring Depths:

19.5 fbg (Attachment D).

Sediment Lithology:

Soil observed in the boring consisted of fine sand to the total explored depth of 19.5 fbg. The boring log is included as Attachment D.

Groundwater Depths:

Groundwater was encountered at 18.5 fbg (Attachment D).

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Chemical Analyses: Soil samples from the borings were analyzed by State-approved laboratory Severn Trent Laboratories Inc. (STL) of Pleasanton, California for TPHg, BTEX and MTBE by EPA Method 8260B.

Backfill Method: Boring HA-1 and the attempted boring were backfilled with cement grout to match the existing grade.

Soil Handling: Soil cuttings produced from the borings and attempted borings were placed in a drum and stored in the public right of way in a location approved by Mr. Francisco Dave, Inspector, City of Oakland. To characterize the soil cuttings for disposal, four brass tubes of soil were collected. STL analyzed the samples for TPHg, BTEX and MTBE by EPA Method 8260B, for total threshold limit concentration lead, soluble threshold limit concentration lead and organic lead. The drum was transported on October 23, 2003 to Forward Landfill in Manteca, California for disposal. A copy of the soil disposal confirmation is included as Attachment E.



INVESTIGATION RESULTS

Analytical Results for Soil Sampling: No TPHg, BTEX or MTBE were detected in either of the soil samples collected. Table 1 summarizes analytical results and the certified analytical laboratory report is included as Attachment B.

Analytical Results for Groundwater Sampling: No TPHg or BTEX was detected in the groundwater sample. MTBE was detected at 6.3 ppb. Table 2 summarizes analytical results and the certified analytical laboratory report is included as Attachment B.

CONCLUSIONS

Of the proposed work, only one boring was successfully extended to obtain soil and groundwater samples (HA-1). The soil samples did not indicate any impact and the water sample contained only a low concentration of MTBE. Thus, Cambria concludes that the benzene plume present as S-5 and S-6 does not extend to the southeast across Broadway.

C A M B R I A

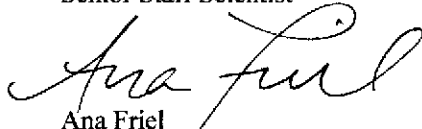
CLOSING

If you have any questions or comments concerning this submittal, please contact Ana Friel at (707) 442-2700.

Sincerely,
Cambria Environmental Technology, Inc.



Jason Gerke
Senior Staff Scientist



Ana Friel
Senior Project Geologist
R.G. 6452

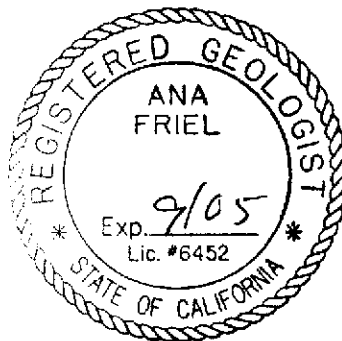


Figure: 1 - Area Well Map
2 - Soil Boring Location Map

Table: 1 - Soil Analytical Data
2 - Groundwater Analytical Data

Attachment: A - Laboratory Analytical Reports
B - Standard Field Procedures for Soil Borings
C - Permits
D - Boring Log
E - Soil Disposal Confirmation

cc: Karen Petryna, Shell Oil Products US



G:\OAKLAND 461 BTH\FIGURESWELL-SURVEY.A1

Former Shell Service Station
 461 Eighth Street
 Oakland, California
 Incident #97093399



C A M B R I A

Area Well Survey
 1/2 Mile Radius

FIGURE 1

EXPLANATION	
HA-1	Hand-augered soil boring location
⊗	Attempted soil boring location
CB-2	Proposed soil boring location
S-11	Proposed monitoring well location
S-4	Monitoring well
S-1	Abandoned monitoring well
MH	Manhole
FL = 16.50	Flow line depth below ground surface
▶	Flow direction indicator
- - - -	Underground BART line
- - - -	Storm Drain line (SD)
- - - -	Water line (W)
- - - -	Sanitary Sewer line (SS)
- - - -	Pacific Bell line (PB)
- - - -	Gas line (G)
- - - -	Electrical line (E)

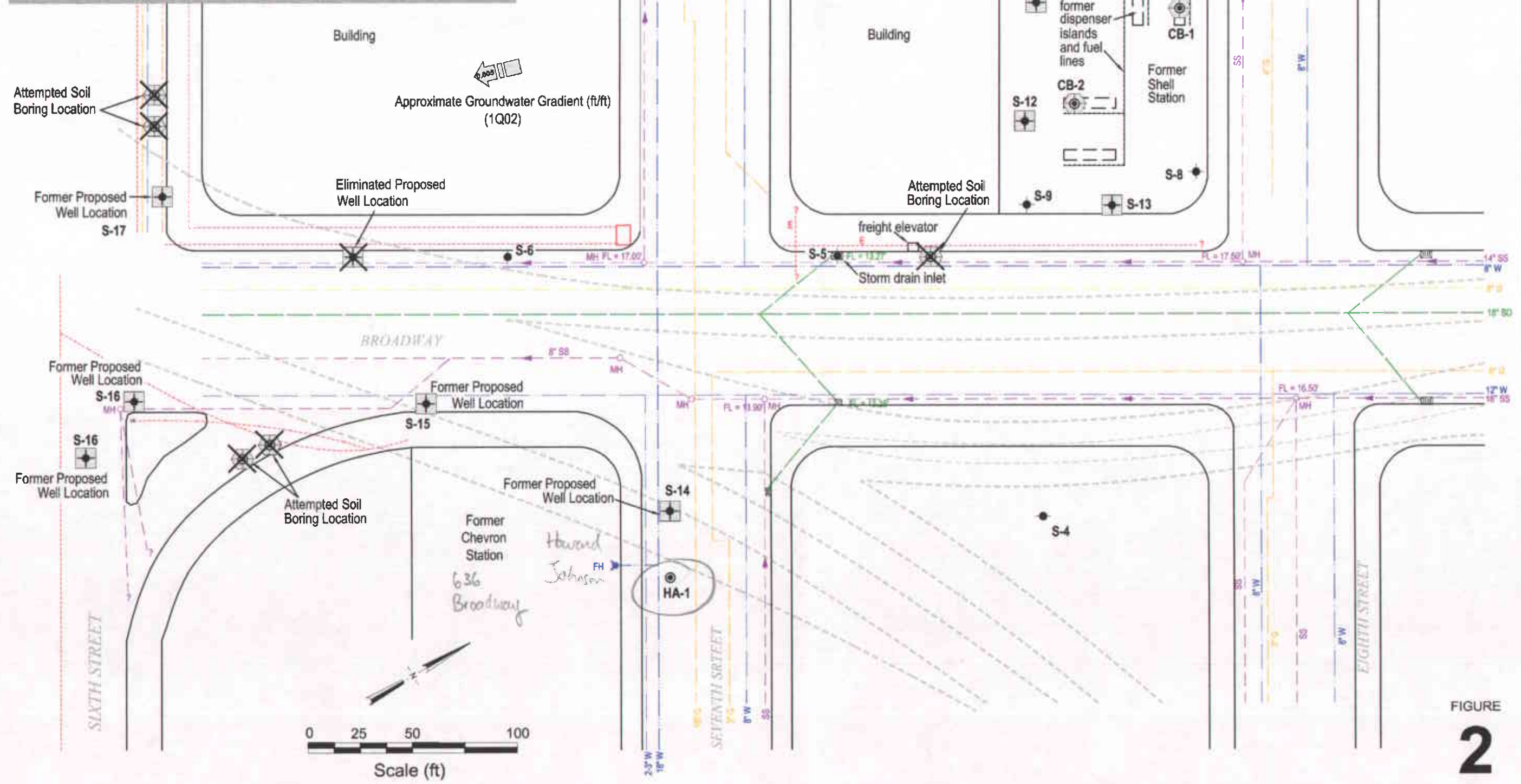


FIGURE 2

Soil Boring Location Map



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Former Shell Service Station
 461 Eighth Street
 Oakland, California
 Incident #97093399

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Table 1. Soil Analytical Data - Former Shell-branded Service Station - 461 - 8th Street, Oakland, California Incident # 97093399

Sample ID	Depth (feet below grade)	TPHg	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
		← (ppm) →					
Sample date: October 14, 2003							
HA-1-10.0	10.0	< 1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
HA-1-16.5	16.5	< 1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

Notes and Abbreviations:

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

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

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

ppm = parts per million

<X = Below laboratory detection limit of X

CAMBRIA

Table 2. Groundwater Analytical Data - Former Shell-branded Service Station - 461 - 8th Street, Oakland, California
Incident # 97093399

Sample ID	TPHg	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
	← (ppb) →					
Sample date: October 14, 2003						
HA-1	<50	6.3	<0.50	<0.50	<0.50	<1.0

Notes and Abbreviations:

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

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

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

ppb = parts per billion

<X = Below laboratory detection limit of X

Attachment A

Laboratory Analytical Reports

Cambria Environmental Emeryville

November 01, 2003

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Ana Friel

Project#: 245-1501

Project: 97093399

Site: 461-8th Street, Oakland

Attached is our report for your samples received on 10/15/2003 11:25

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 11/29/2003 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

Severn Trent Laboratories, Inc.

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

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

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

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 245-1501
97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
HA-1-10.0	10/14/2003 13:15	Soil	1
HA-1-16.5	10/14/2003 13:37	Soil	2

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

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 245-1501

97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	HA-1-10.0	Lab ID:	2003-10-0573 - 1
Sampled:	10/14/2003 13:15	Extracted:	10/22/2003 00:25
Matrix:	Soil	QC Batch#:	2003/10/21-2A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	10/22/2003 00:25	
Benzene	ND	0.0050	mg/Kg	1.00	10/22/2003 00:25	
Toluene	ND	0.0050	mg/Kg	1.00	10/22/2003 00:25	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/22/2003 00:25	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/22/2003 00:25	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/22/2003 00:25	
Surrogate(s)						
1,2-Dichloroethane-d4	99.2	70-121	%	1.00	10/22/2003 00:25	
Toluene-d8	104.1	81-117	%	1.00	10/22/2003 00:25	

Severn Trent Laboratories, Inc.

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

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

11/01/2003 13:11

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

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 245-1501

97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	HA-1-16.5	Lab ID:	2003-10-0573 - 2
Sampled:	10/14/2003 13:37	Extracted:	10/22/2003 01:37
Matrix:	Soil	QC Batch#:	2003/10/21-2A.66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	10/22/2003 01:37	
Benzene	ND	0.0050	mg/Kg	1.00	10/22/2003 01:37	
Toluene	ND	0.0050	mg/Kg	1.00	10/22/2003 01:37	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/22/2003 01:37	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/22/2003 01:37	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	10/22/2003 01:37	
Surrogate(s)						
1,2-Dichloroethane-d4	100.6	70-121	%	1.00	10/22/2003 01:37	
Toluene-d8	102.5	81-117	%	1.00	10/22/2003 01:37	

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

Cambria Environmental Emeryville

Attn.: Ana Friel

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Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-1501
97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2003/10/21-2A.66-038
Soil
Test(s): 8260B
QC Batch # 2003/10/21-2A.66
Date Extracted: 10/21/2003 21:38

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.000	mg/Kg	10/21/2003 21:38	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	10/21/2003 21:38	
Benzene	ND	0.0050	mg/Kg	10/21/2003 21:38	
Toluene	ND	0.0050	mg/Kg	10/21/2003 21:38	
Ethyl benzene	ND	0.0050	mg/Kg	10/21/2003 21:38	
Total xylenes	ND	0.0050	mg/Kg	10/21/2003 21:38	
Surrogates(s)					
1,2-Dichloroethane-d4	103.8	70-121	%	10/21/2003 21:38	
Toluene-d8	103.2	81-117	%	10/21/2003 21:38	

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

Cambria Environmental Emeryville

Attn.: Ana Friel

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

Project: 245-1501
97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Soil

QC Batch # 2003/10/21-2A.66

LCS 2003/10/21-2A.66-050

Extracted: 10/21/2003

Analyzed: 10/21/2003 20:50

LCSD 2003/10/21-2A.66-014

Extracted: 10/21/2003

Analyzed: 10/21/2003 21:14

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	0.0448	0.0460	0.05	89.6	92.0	2.6	65-165	20		
Benzene	0.0428	0.0454	0.05	85.6	90.8	5.9	69-129	20		
Toluene	0.0475	0.0494	0.05	95.0	98.8	3.9	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	492	473	500	98.4	94.6		70-121			
Toluene-d8	515	526	500	103.0	105.2		81-117			

Sewern Trent Laboratories, Inc.

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

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

11/01/2003 13:11

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

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 245-1501

97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Matrix Spike (MS / MSD)

Soil

QC Batch # 2003/10/21-2A.66

HA-1-10.0 >> MS

Lab ID: 2003-10-0573 - 001

MS: 2003/10/21-2A.66-049

Extracted: 10/22/2003

Analyzed: 10/22/2003 00:49

Dilution: 1.00

MSD: 2003/10/21-2A.66-013

Extracted: 10/22/2003

Analyzed: 10/22/2003 01:13

Dilution: 1.00

Compound	Conc. mg/Kg		Spk.Level	Recovery %			Limits %		Flags		
	MS	MSD		Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS
Methyl tert-butyl ether	0.0436	0.0439	ND	0.049019	88.9	89.6	0.7	65-165	20		
Benzene	0.0431	0.0444	ND	0.049019	88.0	90.6	2.9	69-129	20		
Toluene	0.0459	0.0469	ND	0.049019	93.7	95.7	2.1	70-130	20		
Surrogate(s)											
1,2-Dichloroethane-d4	481	506		500	96.2	101.2		70-121			
Toluene-d8	515	505		500	103.0	101.0		81-117			

Severn Trent Laboratories, Inc.

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

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

11/01/2003 13:11

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

Cambria Environmental Emeryville

Attn.: Ana Friel

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Emeryville, CA 94608

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

Project: 245-1501

97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
HA-1	10/14/2003 14:00	Water	4

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

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 245-1501

97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	HA-1	Lab ID:	2003-10-0573 - 4
Sampled:	10/14/2003 14:00	Extracted:	10/24/2003 15:14
Matrix:	Water	QC Batch#:	2003/10/24-1C.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/24/2003 15:14	
Benzene	ND	0.50	ug/L	1.00	10/24/2003 15:14	
Toluene	ND	0.50	ug/L	1.00	10/24/2003 15:14	
Ethylbenzene	ND	0.50	ug/L	1.00	10/24/2003 15:14	
Total xylenes	ND	1.0	ug/L	1.00	10/24/2003 15:14	
Methyl tert-butyl ether (MTBE)	6.3	0.50	ug/L	1.00	10/24/2003 15:14	
Surrogate(s)						
1,2-Dichloroethane-d4	101.4	76-130	%	1.00	10/24/2003 15:14	
Toluene-d8	98.5	78-115	%	1.00	10/24/2003 15:14	

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

Cambria Environmental Emeryville

Attn.: Ana Friel

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

Project: 245-1501
97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Method Blank

Water

QC Batch # 2003/10/24-1C.62

MB: 2003/10/24-1C.62-000

Date Extracted: 10/24/2003 13:00

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/24/2003 13:00	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	10/24/2003 13:00	
Benzene	ND	0.5	ug/L	10/24/2003 13:00	
Toluene	ND	0.5	ug/L	10/24/2003 13:00	
Ethylbenzene	ND	0.5	ug/L	10/24/2003 13:00	
Total xylenes	ND	1.0	ug/L	10/24/2003 13:00	
Surrogates(s)					
1,2-Dichloroethane-d4	103.9	76-130	%	10/24/2003 13:00	
Toluene-d8	97.6	78-115	%	10/24/2003 13:00	

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

Cambria Environmental Emeryville

Attn.: Ana Friel

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

Project: 245-1501
97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike			Water			QC Batch # 2003/10/24-1C.62				
LCS	2003/10/24-1C.62-016		Extracted: 10/24/2003			Analyzed: 10/24/2003 12:16				
LCSD	2003/10/24-1C.62-038		Extracted: 10/24/2003			Analyzed: 10/24/2003 12:38				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	22.0	24.3	25	88.0	97.2	9.9	65-165	20		
Benzene	21.7	18.7	25	86.8	74.8	14.9	69-129	20		
Toluene	21.7	19.9	25	86.8	79.6	8.7	70-130	20		
<i>Surrogates(s)</i>										
1,2-Dichloroethane-d4	504	498	500	100.8	99.6		76-130			
Toluene-d8	507	470	500	101.4	94.0		78-115			

Severn Trent Laboratories, Inc.

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

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

10/28/2003 10:33

Shell Project Manager to be Invoiced:

SCIENCE & ENGINEERING Karen Patryna
 TECHNICAL SERVICES
 CRM/HOUSTON

2003-10-0573

INCIDENT NUMBER (S&E ONLY)
 9 7 0 9 3 3 9 9
 LAB OR CRM NUMBER (S&E ONLY)
 1 2 9 4 5 3

DATE: 10/14/03
 PAGE: 1 of 1

1220 Quarry Lane
 Pleasanton, CA 94566
 (925) 484-1919 (925) 464-1095-fax

COMPANY NAME: CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC			SITE ADDRESS (Street and City): 461-8th Street, Oakland		
ADDRESS: 5900 HOLLIS ST., Suite A			PROJECT CONTRACT (Reporting): Ana Friel		COMPANY PROJECT NO.: 245-1501
CITY: EMERYVILLE, CA 94608			SAMPLE NAME(S) (Pkg): Jason Gerka		
TELEPHONE: 510-420-0700	FAX: 510-420-3170	E-MAIL: efriel@cambria-env.com	LAB USE ONLY		

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

LA - RIVOCB REPORT FORMAT UST AGENCY:
 RIVOCB MTEB CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT OF _____
Hold HA-1-19.0 For Further instructions.

cc: Report to jgerka@cambria-env.com

REQUESTED ANALYSIS

Field Sample Identification	SAMPLING		MTRK	NO. OF CONT.	TPH - Recoverable	TPH - Extractable (6015m)	BTEX	MTBE	TBA	S Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead <input type="checkbox"/> STLC <input type="checkbox"/> TSP	Metals LUFFS <input type="checkbox"/> STLC <input type="checkbox"/> TSP	Metals CMMT <input type="checkbox"/> STLC <input type="checkbox"/> TSP	Test for Disposal (See Attached)	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	
	DATE	TIME																			
HA-H0.0	10/14/03	1315	Soil	1	X		X	X													2.1 ^o
HA-1-16.5	↓	1337	↓	1	X		X	X													
HA-1-19.0	↓	1155	↓	1																	
HA-1	↓	1400	Water	5	X		X	Y													

Requested by (Signature): <i>Jason Gerka</i>	Received by (Signature): <i>Jason Gerka</i>	Date: 10/15/03	Time: 745
Requested by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 10/15/03	Time: 11:25
Requested by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 10/15/03	Time: 1750

Cambria Environmental Emeryville

October 16, 2003

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Ana Friel

Project#: 245-1501

Project: 97093399

Site: 461-8th Street, Oakland

Attached is our report for your samples received on 10/15/2003 11:25

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 11/29/2003 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

Severn Trent Laboratories, Inc.

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

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

Total Lead

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 245-1501

97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SP-1A,B,C,D	10/14/2003 14:35	Soil	1

Total Lead

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 245-1501
97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Prep(s):	3050B	Test(s):	6010B
Sample ID:	SP-1A,B,C,D	Lab ID:	2003-10-0561-1
Sampled:	10/14/2003 14:35	Extracted:	10/15/2003 17:04
Matrix:	Soil	QC Batch#:	2003/10/15-04.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	82	1.0	mg/Kg	1.00	10/16/2003 07:43	

Total Lead

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 245-1501

97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Batch QC Report

Prep(s): 3050B

Method Blank

MB: 2003/10/15-04.15-011

Soil

Test(s): 6010B

QC Batch # 2003/10/15-04.15

Date Extracted: 10/15/2003 17:04

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	1.0	mg/Kg	10/16/2003 07:14	

Total Lead

Cambria Environmental Emeryville
Attn.: Ana Friel

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

Project: 245-1501
97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Batch QC Report

Prep(s): 3050B

Test(s): 6010B

Laboratory Control Spike

Soil

QC Batch # 2003/10/15-04.15

LCS 2003/10/15-04.15-012

Extracted: 10/15/2003

Analyzed: 10/16/2003 07:18

LCSD 2003/10/15-04.15-013

Extracted: 10/15/2003

Analyzed: 10/16/2003 07:21

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	100	96.7	100.0	100.0	96.7	3.4	80-120	20		

Severn Trent Laboratories, Inc.

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

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

10/16/2003 15:19

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

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 245-1501

97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SP-1A,B,C,D	10/14/2003 14:35	Soil	1

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

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 245-1501

97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SP-1A,B,C,D	Lab ID:	2003-10-0561 - 1
Sampled:	10/14/2003 14:35	Extracted:	10/16/2003 11:35
Matrix:	Soil	QC Batch#:	2003/10/16-01-66

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	10/16/2003 11:35	
Benzene	ND	0.0050	mg/Kg	1.00	10/16/2003 11:35	
Toluene	ND	0.0050	mg/Kg	1.00	10/16/2003 11:35	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	10/16/2003 11:35	
Total xylenes	ND	0.0050	mg/Kg	1.00	10/16/2003 11:35	
Surrogate(s)						
1,2-Dichloroethane-d4	92.5	70-121	%	1.00	10/16/2003 11:35	
Toluene-d8	96.7	81-117	%	1.00	10/16/2003 11:35	

Severn Trent Laboratories, Inc.

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

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

10/16/2003 15:35

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

Cambria Environmental Emeryville

Attn.: Ana Friel

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

Project: 245-1501
97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2003/10/16-01.66-008

Soil

Test(s): 8260FAB
QC Batch # 2003/10/16-01.66
Date Extracted: 10/16/2003 11:08

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	10/16/2003 11:08	
Benzene	ND	0.0050	mg/Kg	10/16/2003 11:08	
Toluene	ND	0.0050	mg/Kg	10/16/2003 11:08	
Ethyl benzene	ND	0.0050	mg/Kg	10/16/2003 11:08	
Total xylenes	ND	0.0050	mg/Kg	10/16/2003 11:08	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	10/16/2003 11:08	
Surrogates(s)					
1,2-Dichloroethane-d4	96.4	70-121	%	10/16/2003 11:08	
Toluene-d8	101.8	81-117	%	10/16/2003 11:08	

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

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 245-1501

97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike				Soil			QC Batch # 2003/10/16-01.66			
LCS	2003/10/16-01.66-020			Extracted: 10/16/2003			Analyzed: 10/16/2003 10:20			
LCSD	2003/10/16-01.66-043			Extracted: 10/16/2003			Analyzed: 10/16/2003 10:43			
Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	46.1	44.1	50.0	92.2	88.2	4.4	69-129	20		
Toluene	47.8	46.5	50.0	95.6	93.0	2.8	70-130	20		
Methyl tert-butyl ether (MTBE)	47.6	46.9	50.0	95.2	93.8	1.5	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	499	491	500	99.8	98.2		70-121			
Toluene-d8	522	505	500	104.4	101.0		81-117			

Severn Trent Laboratories, Inc.

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

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

10/16/2003 15:35

CAM W.E.T. (STLC) Lead

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 245-1501

97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SP-1A,B,C,D	10/14/2003 14:35	Soil	1

CAM W.E.T. (STLC) Lead

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 245-1501

97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Prep(s):	3005A	Test(s):	6010B
Sample ID:	SP-1A,B,C,D	Lab ID:	2003-10-0561 - 1
Sampled:	10/14/2003 14:35	Extracted:	10/20/2003 05:24
Matrix:	Soil	QC Batch#:	2003/10/20-01:15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	1.8	0.50	mg/L	1.00	10/20/2003 11:44	

CAM W.E.T. (STLC) Lead

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 245-1501
97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Batch QC Report

Prep(s): 3005A

Method Blank

MB: 2003/10/20-01.15-013

Soil

Test(s): 6010B

QC Batch # 2003/10/20-01.15

Date Extracted: 10/20/2003 05:24

Compound	Conc.	RL	Unit	Analyzed	Flag
Lead	ND	0.50	mg/L	10/20/2003 09:42	

CAM W.E.T. (STLC) Lead

Cambria Environmental Emeryville

Attn.: Ana Friel

5900 Hollis Street, Ste. A

Emeryville, CA 94608

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

Project: 245-1501

97093399

Received: 10/15/2003 11:25

Site: 461-8th Street, Oakland

Batch QC Report										
Prep(s): 3005A					Test(s): 6010B					
Laboratory Control Spike			Soil			QC Batch # 2003/10/20-01.15				
LCS	2003/10/20-01.15-014		Extracted: 10/20/2003			Analyzed: 10/20/2003 09:47				
LCSD	2003/10/20-01.15-015		Extracted: 10/20/2003			Analyzed: 10/20/2003 09:51				
Compound	Conc. mg/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Lead	4.68	4.69	5.00	93.6	93.8	0.2	80-120	20		

Severn Trent Laboratories, Inc.

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

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

10/20/2003 13:51

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

CERTIFICATE OF ANALYSIS

Report # P290-05

Date: 10/20/03

STL San Francisco
1220 Quarry Lane
Pleasanton

Project: 2003-10-0561

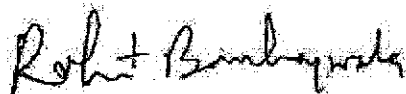
CA 94566-4756 PO#

Date Rec'd: 10/17/03
Date Started: 10/20/03
Date Completed: 10/20/03Date Sampled: 10/14/03
Time: 2:35 pm
Sampler:

Sample ID: SP-1A, B, C, D

Lab ID: P201848

Method	RL	Analyte	Results	Units
HML 939-M	0.5	Organic Lead	ND	mg/Kg

Rohit Bombaywala
Inorganic SupervisorDonna Keller
Laboratory Director

Certification # 1157

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Report# P290-05

QC REPORT

STL San Francisco
1220 Quarry Lane
Pleasanton

CA 94566-4756

Analyte	Method	Batch #	Date Analyzed	Orig.	Dupl.	MS %Rec	MSD %Rec	RPD	LCS %Rec	Blank	Comments
Organic Lead	HML 939-M	106967	10/20/03			112.0	94.0	12.5	120.0	ND	

GEO

2095728916

15:52

10/20/2003

* LCS/LCSD (see comments)

Rohit Bombaywala
Rohit Bombaywala
Inorganic Supervisor

Certification # 1157

Donna Keller
Donna Keller
Laboratory Director

Chain of Custody 2003-10-0561-1

Date Shipped: 10/17/2003

From:
STL San Francisco (CL)
1220 Quarry Lane
Pleasanton, CA 94566-4756

To: **P290-05**
GeoAnalytical Labs - SUB CONTRACT ONLY
1405 Kansas Avenue
Modesto, CA 95351

Project Manager: Vincent Vancil
Phone: (925) 484-1919
Fax: (925) 484-1096
Email: vvancil@stl-inc.com

Phone: (209) 572-0900
Fax: (209) 572-0916
Contact: Karen Cole
Phone: (209) 572-0900

CL Submission #: 2003-10-0561
CL PO#:

Project #: 245-1501
Project Name: 97093399

Client Sample ID	CL#	Sampled	Matrix	TAT
Analysis			Method	
Composite SP-1A,B,C,D	001	10/14/2003 14:35	Soil	DUE 10/20/03
Subcontract - Organic Lead	2261848		LUFT	3 Days

PLEASE INCLUDE QC WITH FAXED AND HARD-COPY RESULTS.

RUSH

RELINQUISHED BY: 1 <i>D. Harrington</i> Signature Time D. Harrington Printed Name Date STL-SF 10/17/03 Company	RELINQUISHED BY: 2 <i>V. Ambay</i> Signature Time MESSIN AMBAY Printed Name Date World C Company	RELINQUISHED BY: 3 Signature Time Printed Name Date Company
RECEIVED BY: 1 <i>V. Ambay</i> Signature Time MESSIN A. Printed Name Date World C 10-17-03 Company	RECEIVED BY: 2 <i>M. Reynolds</i> Signature Time Mimi Reynolds Printed Name Date GeoAnalytical Company	RECEIVED BY: 3 Signature Time Printed Name Date Company

1220 Quarry Lane

Pleasanton, CA 94566

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

Shell Project Manager to be involved:

SCIENCE & ENGINEERING

Karon Petryna

TECHNICAL SERVICES

CRMT POSITION

2003-10-0561

INCIDENT NUMBER (S&E ONLY)

9 7 0 9 3 3 9 9

SAP or CRMT NUMBER (S/CRMT)

1 2 9 4 5 3

DATE: 10/14/03

PAGE: 1 of 2

CONSIGLANT COMPANY CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC		SITE ADDRESS (Street and City): 461-8th Street, Oakland	
ADDRESS: 5900 HOLLIS ST., Suite A		PROJECT CONTACT (Name and Title): Ana Fried	
CITY: EMERYVILLE, CA 94508		CONSULTANT PROJECT NO.: 243-1501	
TELEPHONE: 510-420-0700	FAX: 510-420-8170	BUYER NAME(S) (Name): Jason Gerke	
E-MAIL: a.fried@sanbria-env.com		LAB USE ONLY	

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

REQUESTED ANALYSIS

LX - RWQCS REPORT FORMAT UST AGENCY

GDMS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: _____ TEMPERATURE ON RECEIPT OF _____

cc Report to jgerke@cambria-env.com

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

2.1

USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgable	TPH - Extractable (2015m)	BTEX	MTBE	DBA	5 Oxygenates	1,2 DOA and EDB	Ethanol	Methanol	VOCs by 8260s	Semi-Volatiles by 8270C	Lead <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	Metals LUGTS <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	Metals CAM17 <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	Test for Disposal (See Attached)	FIELD NOTES	
		DATE	TIME																			
	SP-1A, B, C, D	10/14/03	1435	Soil	4																X	

RUSH

Requested by: (Signature) <i>Jason Lopez</i>	Received by: (Signature) <i>Secure Location</i>	Date: 10/15/03	Time: 745
Requested by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 10/15/03	Time: 16325
Requested by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 10/15/03	Time: 1750

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

RESIDUAL MANAGEMENT PROCEDURE

ISSUED DATE: 08/01/01
CANCELS ISSUE:
ISSUED BY: LRR

RESIDUAL STREAM: SOIL WITH UNLEADED GASOLINE
VENDOR: ALLIED-BFI
LOCATION: ALLIED WASTE - MANTECA
9999 SOUTH AUSTIN ROAD
MANTECA, CA 95336

CALIFORNIA - TRANSPORTATION AND RETAIL

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

CAM METALS - TTLC METALS - LEAD ONLY

STLC ON ALL TTLC METALS 10 TIMES STLC MAXIMUM

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

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

TOTAL PETROLEUM HYDROCARBONS, METHOD 418.1 OR 8015 - GASOLINE

~~MTBE METHOD 8260B (GC/MS)~~

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

LABORATORY INSTRUCTIONS (MINIMUM GUIDELINES ONLY)

-ALTERNATE APPROVED TEST METHODS PER SW846 ARE ALSO ACCEPTABLE

-ALL REQUIRED TESTS ON COMPOSITE (MAX 4:1)

-LABORATORY IS TO SUPPLY QA/QC INFORMATION WITH ALL ANALYTICAL REPORTS

~~-MAIL OR FAX ALL ANALYSIS TO THE CENTRALIZED RESIDUAL MANAGEMENT TEAM~~

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

2003-10-0561

SAMPLE STATUS CHANGE FORM



STL San Francisco

Change request received by: W

Date Requested: 10.16.03

Submission #	Client Sample ID	Old Status Description	Description of Changes	Requested By (Client's Name)
200310-0561	SP-117A.C.D		ADD SRC Pb S Organic Pb	Cambay
			Due 10-2003	↓
Changes were done in LIMS by (login): <u>Chowley</u>			On: <u>10.17.03</u>	
CC: <input type="checkbox"/> Lab Director <input type="checkbox"/> Team Leader <input type="checkbox"/> Analyst <input type="checkbox"/> Proj. Manager				

RUSH

Attachment B

Standard Field Procedures for Soil Borings

STANDARD FIELD PROCEDURES FOR SOIL BORINGS

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

Objectives

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

Soil Classification/Logging

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

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

Soil Boring and Sampling

Soil borings are typically drilled using hollow-stem augers or hydraulic push technologies. Prior to drilling, the first 8 ft of the boring are cleared using an air or water knife and vacuum extraction. This minimizes the potential for impacting utilities.

At least one and one half ft of the soil column is collected for every five ft of drilled depth. Additional soil samples are collected near the water table and at lithologic changes. Samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments beyond the bottom of the borehole. The vertical location of each soil sample is determined by measuring the distance from the middle of the soil sample tube to the end of the drive rod used to advance the split barrel sampler. All sample depths use the ground surface immediately adjacent to the boring as a datum. The horizontal location of each boring is measured in the field from an onsite permanent reference using a measuring wheel or tape measure.

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

Sample Storage, Handling and Transport

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

Field Screening

One of the remaining tubes is partially emptied leaving about one-third of the soil in the tube. The tube is capped with plastic end caps and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable photoionization detector (PID) measures volatile hydrocarbon vapor concentrations in the tube headspace, extracting the vapor through a slit in the cap. PID measurements are used along with the field observations, odors, stratigraphy and ground water depth to select soil samples for analysis.

Water Sampling

Water samples, if they are collected from the boring, are either collected using a driven Hydropunch type sampler or are collected from the open borehole using bailers. The ground water samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4oC, and transported under chain-of-custody to the laboratory.

Duplicates and Blanks

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

Grouting

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

Waste Handling and Disposal

Soil cuttings from drilling activities are usually stockpiled onsite on top of and covered by plastic sheeting. At least four individual soil samples are collected from the stockpiles for later compositing at the analytic laboratory. The composite sample is analyzed for the same constituents analyzed in the borehole samples. Soil cuttings are transported by licensed waste haulers and disposed in secure, licensed facilities based on the composite analytic results.

Ground water removed during sampling and/or rinsate generated during decontamination procedures are stored onsite in sealed 55 gallon drums. Each drum is labeled with the drum number, date of generation, suspected contents, generator identification and consultant contact. Disposal of the water is based on the analytic results for the well samples. The water is either pumped out using a vacuum truck for transport to a licensed waste treatment/disposal facility or the individual drums are picked up and transported to the waste facility where the drum contents are removed and appropriately disposed.

F:\TEMPLATE\SOPs\Boring with Air Knife Clearance.doc

SPECIAL PROVISION 7-10.1 TRAFFIC REQUIREMENTS

Renewal
 Davis
 10-9-2003

Project Name: _____
 Project Number: 750-02039
 Reviewed By: Eric B.
 Date: 9-25-
 Permit good from 9-30-02
 to 10-9-2003
10-02 to 11-9-2003

ADD NEW SUBSECTION TO READ:
 7-10.1.4 Vehicular Traffic

Attention is directed to Section 7-10. Public Convenience and Safety, of the City of Oakland Standard Specification for Public Works Construction, 2000 Edition (Include this paragraph for p-jobs, excavation permits or obstruction permits).

The Contractor shall conduct its work in such a manner as to provide public convenience and safety and according to the provisions in this subsection. The provisions shall not be modified or altered without written approval from the Engineer.

Standard traffic control devices shall be placed at the construction zone according to the latest edition of the Work Area Traffic Control Handbook or Caltrans Traffic Manual, Chapter 5 - "Traffic Controls for Construction and Maintenance Work one," or as directed by the Engineer.

If trenches and excavations in any public street or roadway shall be back filled and opened to traffic, or covered with suitable steel plates securely placed and opened to traffic at all times except during actual construction operations unless otherwise permitted by the Engineer.

Each section of work shall be completed or temporarily paved and open to traffic in not more than 5 days after commencing work unless otherwise permitted in writing by the Engineer.

Where construction encroaches into the sidewalk area, a minimum of 5 1/2 feet of unobstructed sidewalk shall be maintained at all times for pedestrian use. Pedestrian barricades, shelter, and detour signs per Caltrans standards may be required.

The contractor shall conduct its operation in such a manner as to leave the following traffic lanes unobstructed and in a condition satisfactory for vehicular travel during the Obstruction Period. At all times traffic lanes will be restricted and reopened to travel. Emergency access shall be provided at all times.

Street Name Limits	Obstruction Period	North Bound	South Bound	East Bound	West Bound
SIXTH ST.	M-F 9AM-4PM			—	ONE LANE CLOSURE SEE TRAFFIC PLAN
BROADWAY	"	ALL LANES OPEN	ALL LANES OPEN		
7TH ST.	"			ONE LANE CLOSURE SEE TRAFFIC PLAN	—
8TH ST.	"				—

The Contractor Shall Also include all underlined item:

1. Design a construction traffic control plan and submit (2) copies to the Engineer for approval prior to starting any work.
2. Replace all signs, pavement markings, and traffic detector loops damaged or removed due to construction within 3 days of completion of work or the final pavement lift.
3. Provide advance notice to Oakland Police at (510) 615-5874 (24-hrs) and Oakland Fire at (510) 238-3331 (2-rhs) when a single lane of traffic or less is provided on any street.
4. Provide 72-hour advance notice to AC Transit at (510) 891-4909 when affecting a bus stop.
5. For Caltrans roadways, ramps, or maintained facilities, the Contractor shall obtain appropriate permits and notify the Traffic Management Center 24 hours in advance of any work.
6. Flagger control is required. Certified Flagger is required.
7. Pedestrian walkway by K-rail, Canopy or Plywood is required. (See detour plan) SEE 5-28 (INSULT)
8. Provide advance notice to Business and Residence within 72-hours.
9. Allow all traffic movement at intersection.

Nothing specified herein shall prohibit emergency work and/or repair necessary to ensure public health and safety.

Job Site 455 7TH ST Parcel# 001 -0199-001-00 Appl# OB030673
soil borings on 6th street side Permit Issued 10/09/03

455 7TH ST
Nbr of days: 2 Linear feet: 30
Effective: 10/14/03 Expiration: 10/15/03

SHORT TERM NON-METERED

Owner CAMBRIA GERKEY
Contractor
Arch/Engr
Agent
Applic Addr 5900 HOLLIS ST, EMERYVILLE, CA, 94608
Applicant X Phone# (510) 420-1320 Lic# License Classes--

\$48.00 TOTAL FEES PAID AT ISSUANCE
\$.00 Applic \$48.00 Permit
\$.00 Process \$.00 Rec Mgmt
\$.00 Gen Plan \$.00 Invstg
\$.00 Other

CITY OF OAKLAND

JOB SITE

Applicant: _____

Issued by: M. Austin 10403

DIST: ADDRESS:

Job Site 423 7TH ST

Parcel#

Appl# OB030672

soil borings
meter #7427, 7425

Permit Issued 10/09/03

Nbr of days: 2
Effective: 10/14/03

423 7TH ST

Nbr of meters: 2
Expiration: 10/15/03

SHORT TERM METERED

Owner CAMBRIA GERKEY
Contractor
Arch/Engr
Agent
Applic Addr 5900 HOLLIS ST, EMERYVILLE, CA, 94608

Applc# X Phone# (510)420-1320 Lic# -- License Classes--

\$48.00 TOTAL FEES PAID AT ISSUANCE
\$.00 Applica \$48.00 Permit
\$.00 Process \$.00 Rec Mgmt
\$.00 Gen Plan \$.00 Invstg
\$.00 Other

DIST: ADDRESS:

CITY OF OAKLAND

JOB SITE

Applicant: _____

Issued by: _____

Job Site 721 BROADWAY Parcel# Appl# OB030671

soil borings Permit Issued 10/09/03
meter # 715, 717 and 2 yellow curbs

721 BROADWAY
Nbr of days: 3 Nbr of meters: 2
Effective: 10/14/03 Expiration: 10/16/03

SHORT TERM METERED

Owner CAMBRIA GERKEY
Contractor
Arch/Engr
Agent
Applic Addr 5900 HOLLIS ST, EMERYVILLE, CA, 94608
Applicant X Phone# (510) 420-3320 Lic# License Classes--

\$144.00 TOTAL FEES PAID AT ISSUANCE
\$.00 Applic \$144.00 Permit
\$.00 Process \$.00 Rec Mgmt
\$.00 Gen Plan \$.00 Invstg
\$.00 Other

DIST: ADDRESS:

CITY OF OAKLAND

JOB SITE

Applicant: _____
Issued by: _____

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • FAX (510) 238-2263

Job Site 461 8TH ST Parcel# Appl# X0200988

Descr INSTALL (3) MONITORING WELLS ON BROADWAY BET. 6TH & 7TH ST Permit Issued 10/18/02
W/APPROVED ENMI02235

Work Type EXCAVATION-PRIVATE P

USA #

Util Co. Job #
Util Fund #:

Acctg#:

Applicant

Phone

Lic# License Classes--

Owner WELLS FARGO BANK

Contractor GREGG DRILLING & TESTING, INC

X

(510) 313

800 485165 C57

Arch/Engr

Agent CAMBRIA

Applic Addr 1144 65TH STREET STE B OAKLAND, CA 94608

\$252	0 TOTAL FEES PAID AT ISSUANCE
\$47	0 Applic \$205.00 Permit
\$	0 Process \$.00 Rec Mgmt
\$	0 Gen Plan \$.00 Invstg
\$	0 Other

ADDRESS:

DIST:

CITY OF OAKLAND

extension Granted For 90 Days

From 10/1/03

Carl Sibley

510 238-7002

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • FAX (510) 238-2263

Job Site 461 8TH ST Parcel# Appl# X0200990

Descr INSTALL (1) MONITORING WELL ON 7TH ST OFF BROADWAY
W/APPROVED ENMI02235 Permit Issued 10/18/02

Work Type EXCAVATION-PRIVATE P

USA #	Util Co. Job #	Acctg#:
	Util Fund #:	
Owner WELLS FARGO BANK	Applicant	Phone
Contractor GREGG DRILLING & TESTING, INC.	X	(510) 313
Arch/Engr		800.485165 C57
Agent CAMBRIA		
Applic Addr 1144-65TH STREET STE B, OAKLAND, CA, 94608		

\$252	0	TOTAL FEES PAID AT ISSUANCE
\$47	0	Applic
\$	0	Process
\$	0	Gen Plan
\$	0	Other
	\$205.00	Permit
	\$.00	Rec Mgmt
	\$.00	Invstg

CITY OF OAKLAND

extension granted for 30 days
 From 10/1/03
 Carl Subl
 510 238-762

DIST: ADDRESS:

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • FAX (510) 238-2263

Job Site 461 8TH ST Parcel# Appl# X0200989

Descr INSTALL (1) MONITORING WELL ON 6TH ST OFF BROADWAY
W/APPROVED ENMI02235 Permit Issued 10/18/02

Work Type EXCAVATION-PRIVATE P

USA # Util Co: Job # Acctg#:
Util Fund #:

Owner WELLS FARGO BANK
Contractor GREGG DRILLING & TESTING, INC X (510) 313 800 485165 C57
Arch/Engr
Agent CAMBRIA
Applic Addr 1144-65TH STREET STE B OAKLAND, CA 94608

\$252 0-TOTAL FEES PAID AT ISSUANCE
\$47 0 Applic \$205.00 Permit
\$ 0 Process \$.00 Rec Mgmt
\$ 0 Gen Plan \$.00 Invstg
\$ 0 Other

DIST: ADDRESS:

CITY OF OAKLAND

extension granted for 90 day
From 10/1/03 Carl Settle
510 238-7162



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94542-1395
PHONE (510) 670-6633 James Yoo
FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 461 9th Street, Oakland
within boundary between 6th and 7th streets and within 3rd and 5th streets at 9th street

PERMIT NUMBER W03-0882
WELL NUMBER _____
AFN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL/CONTAMINATION

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind with compacted settings.

E. CATHODIC

Fill hole annular zone with concrete placed by tremie.

F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

SC # 3 Attached

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

CLIENT Name Shell Oil Products Co
Address 1200 1st St Phone 510-245-9306
City Riverbank, CA Zip 94510

APPLICANT Name Cambria Environmental
Address 5700 Hollis Fax 510-410-9170
City Emeryville, CA Phone 510-920-0400 Zip 94608

TYPE OF PROJECT

- | | | | |
|---------------------|--------------------------|----------------------------|--------------------------|
| Well Construction | | Geotechnical Investigation | |
| Cathodic Protection | <input type="checkbox"/> | General | <input type="checkbox"/> |
| Water Supply | <input type="checkbox"/> | Contamination | <input type="checkbox"/> |
| Monitoring | <input type="checkbox"/> | Well Destruction | <input type="checkbox"/> |

PROPOSED WATER SUPPLY WELL USE

- | | | | |
|--------------|--------------------------|----------------------|--------------------------|
| New Domestic | <input type="checkbox"/> | Replacement Domestic | <input type="checkbox"/> |
| Municipal | <input type="checkbox"/> | Irrigation | <input type="checkbox"/> |
| Industrial | <input type="checkbox"/> | Other | <input type="checkbox"/> |

DRILLING METHOD:

- | | | | | | |
|------------|--------------------------|------------|--------------------------|-------|-------------------------------------|
| Mud Rotary | <input type="checkbox"/> | Air Rotary | <input type="checkbox"/> | Auger | <input checked="" type="checkbox"/> |
| Cable | <input type="checkbox"/> | Other | <input type="checkbox"/> | | |

DRILLER'S NAME Gregg Drilling

DRILLER'S LICENSE NO. CS7-485165

WELL PROJECT'S

Drill Hole Diameter	_____ in.	Maximum	_____ ft.
Casing Diameter	_____ in.	Depth	_____ ft.
Surface Seal Depth	_____ ft.	Owner's Well Number	_____

GEOTECHNICAL PROJECTS

Number of Borings 5 / Environmental Borings
Hole Diameter 3 in. Maximum Depth 30 ft.

STARTING DATE 10/13/03

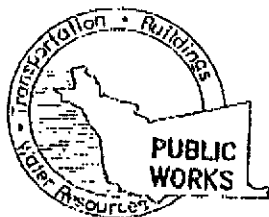
COMPLETION DATE 10/31/03

APPROVED [Signature] DATE 9/29/03

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE [Signature] DATE 9/29/03

PLEASE PRINT NAME Jason Geick Rev. 9-18-02

**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****PERMIT NO. W03-0882****WATER RESOURCES SECTION
GROUNDWATER PROTECTION ORDINANCE****G. SPECIAL CONDITIONS #3****PLACEMENT OF GEOTECHNICAL BOREHOLES, CPT, GEO-PROBES AND CONTAMINATION INVESTIGATIONS
IN PUBLIC RIGHT-OF-WAY**

1. Prior to any drilling activities into any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that Federal, State, County or to the City and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
2. Borings shall be sealed within 24 hours following completion of testing or sampling activities. Borings shall not be left in a condition as to allow for the introduction of surface waters or foreign materials into them. No borehole(s) shall be left in a manner to act as a conduit at any time. Borings shall be secured such that they do not endanger public health. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes.
3. Permitte, permittee's, contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statues regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on-or off site storm sewers, dry wells, or waterways or be allowed to move off the property where wok is being completed.
4. Permit is valid only for the purpose specified herein **October 13 to October 31, 2003**. No changes in construction procedures, as described on this permit application. Borings shall not be converted to monitoring wells, without a permit application process.
5. Drilling Permit(s) can be voided/ canceled only in writing. It is the applicants responsibilities to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
6. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
7. This permit may be voided if it contains incorrect information.



SAN FRANCISCO BAY AREA RAPID TRANSIT DISTRICT

800 Madison Street, P.O. Box 12688
Oakland, CA 94604-2688
(510) 464-6000

**CAMBRIA ENVIRONMENTAL
TECHNOLOGY**

PERMIT NO. M-00.2-001-OK(X)

**5900 Hollis Street, Suite A
Emeryville, CA 94608**

Peter W. Snyder
PRESIDENT

James Fang
VICE-PRESIDENT

Thomas E. Margro
GENERAL MANAGER

AMENDMENT TO EXTEND TERM OF PERMIT NO. M-00.2-001-OK

DIRECTORS

Dan Richard
1ST DISTRICT

Joel Keller
2ND DISTRICT

Roy Nakadegawa
3RD DISTRICT

Carole Ward Allen
4TH DISTRICT

Peter W. Snyder
5TH DISTRICT

Thomas M. Blalock
6TH DISTRICT

Lynette Sweet
7TH DISTRICT

James Fang
8TH DISTRICT

Tom Radulovich
9TH DISTRICT

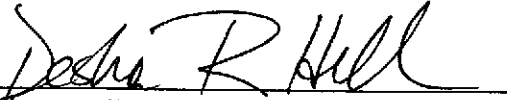
Subject to all covenants, terms, conditions and restrictions of the original permit (M-00.2-001-OK), the term of this permit is extended from November 30, 2002 to December 31, 2003.

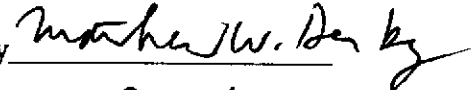
Any additional change in the scope of this amendment or of the original permit is subject to a separate amendment.

**SAN FRANCISCO BAY AREA
RAPID TRANSIT DISTRICT**

PERMITTEE

**CAMBRIA
ENVIRONMENTAL
TECHNOLOGY**

By 
Desha R. Hill
Department Manager, Real Estate Services

By 
Title Sr. Project Engineer

Date 9/18/03

Date 8.29.03

\\BB-01\DATA\GROUP\REAL_EST\GARY\PERMITS\M-00.2-001-OK(X).PTE.doc

Attachment D

Boring Log



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

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	HA-1
JOB/SITE NAME	Former Shell-branded service station	DRILLING STARTED	14-Oct-03
LOCATION	461-8th Street, Oakland	DRILLING COMPLETED	14-Oct-03
PROJECT NUMBER	245-1501	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hand Auger	TOP OF CASING ELEVATION	NA
BORING DIAMETER	3"	SCREENED INTERVAL	NA
LOGGED BY	J. Gerke	DEPTH TO WATER (First Encountered)	18.1 ft (14-Oct-03)
REVIEWED BY	M. Derby, PE# 55475	DEPTH TO WATER (Static)	NA
REMARKS	Located in the parking lane in the south side of 7th Street, approximately 85 feet east of Broadway.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							CONCRETE	1.5	<p>Portland Type III</p> <p>Bottom of Boring @ 19.5 ft</p>
							SAND (SW); brown; damp; 100% fine sand; no plasticity.		
0		HA-1-19.0		5					
0		HA-1-10.0		10	SW		@ 10.0 fbg - brown with light gray mottling; moist.		
							@ 14.8 fbg - brown with reddish brown mottling and an increase in gray mottling; 10% silt, 90% sand.		
0		HA-1-16.5		15			@ 18.1 fbg - wet.	19.5	

WELL LOG (PID): G:\OAKLAND 461 EIGHTH\GINT461 - 8TH STREET.GPJ DEFAULT.GDT 12/6/03

Attachment E

Soil Disposal Confirmation



NOV - 7 2003

FAXED
RECEIVED OCT 25 2003

Hazardous Waste Hauler (Registration #2843)

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

Disposal Confirmation

Request for Transportation Received: 10/16/03

Consultant Information

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

Site Information

Station #: N/A
Street Address: 461 8th Street
City, State, ZIP: Oakland, CA

Customer: Shell Oil Company RESA-0023-LDC
RIPR #: 29343
SAP # / Location: 129453
Incident #: 97093399
Location / WIC #: N/A
Environmental Engineer: Karen Petryna

Material Description: Contaminated Soil
Estimated Quantity: 1 drum
Service Requested Date: _____

Disposal Facility: Forward
Contact: Griffith, Joe
Phone: 800-204-4242
Approval #: 3878
Date of Disposal: 10-23-03
Actual Tonnage: 1 drum - .33 tons

Transporter: Manley & Sons Trucking, Inc.
Contact: Glenell Manley
Phone: 916 381-6864
Fax: 916 381-1573
Invoice: _____
Date of Invoice: _____



Shell Oil Products US

December 18, 2003

20243

Alameda County
DEC 23 2003
Environmental Health

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

Subject: Former Shell Service Station
461 8th Street
Oakland, California

Dear Mr. Chan:

Attached for your review and comment is a copy of the *Fourth Quarter 2003 Monitoring Report* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

Karen Petryna

Karen Petryna
Sr. Environmental Engineer