CAMBRIA

March 27, 1998

Mr. Scott O. Seery, CHMM
Alameda County Department of Environmental Health
Hazardous Materials Division
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Dispenser Soil Sampling**
Shell Service Station
1784 150th Avenue
San Leandro, California
WIC #204-6852-1404
Cambria Project #24-612-200

Dear Mr. Seery:

On behalf of Shell Oil Products Company (Shell), Cambria Environmental Technology, Inc. (Cambria) is submitting this report presenting the results of the December 4, 1997 soil sampling at the site referenced above. Sampling was conducted during equipment upgrade activities. Presented below are the site conditions, sampling activities, analytical results and conclusions.

SITE CONDITIONS

The site is located at the southeast corner of the intersection of Freedom Avenue and 150th Avenue in San Leandro, California. The site is an active Shell service station. During upgrade activities, Paradiso Mechanical of San Leandro, California (Paradiso) replaced four gasoline dispensers, installed turbine containment sumps, new leak detection sensors and removed a waste oil tank remote fill. (Figure 1).

SAMPLING ACTIVITIES

Sampling Activities: Cambria engineers Paul Waite and Gina Kathuria collected soil samples beneath the four dispensers on December 4, 1997. Initial samples were collected from approximately 2 feet into native soil beneath each dispenser. Perched water seeped into the dispenser areas from the soil and from the pavement base course. There was visual evidence of petroleum hydrocarbons in the soil along with a mild petroleum odor.

Cambria collected deeper samples approximately 4.5 feet into native soil beneath each dispenser using a hand auger. Soil types beneath each of the dispensers consisted of a tight, black, organic clay, and no hydrocarbon staining or odor was observed in any of the deeper samples. Cambria's standard procedures for dispenser and piping sampling are presented as Attachment A.

CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.
1144 65TH STREET,
SUITE B
OAKLAND,
CA 94608
PH: (510) 420-0700
FAX: (510) 420-9170

Regulatory Contact: Amir Gholami with the Alameda County Department of Environmental Health (ACDEH) was on site to observe the collection of samples at two feet. Based on the field indications of hydrocarbons in soil, Mr. Gholami stated that Shell should wait for analytical results of the samples before reinstalling the dispensers, and that over-excavation of impacted soils may be required. However, Mr. Waite contacted Scott Seery of the ACDEH by telephone from the site, and Mr. Seery later decided that over-excavation was not required. These details are provided in the December 4, 1997 facsimile sent to Mr. Seery, which is included as Attachment C.

Sample Analyses: All samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by modified EPA Method 8015, benzene, toluene, ethylbenzene, xylene (BTEX), and methyl tert-butyl ether (MTBE) by EPA Method 8020.

ANALYTICAL RESULTS

Samples were analyzed by VOC Analytical of Glendale, California (VOC). Analytical results are summarized in Table 1, and the laboratory analytical reports are presented as Attachment B.

Trace concentrations of petroleum hydrocarbons were detected in the 4.5 feet samples beneath dispensers A, B, and D. Soil samples from beneath dispenser C contained 590 milligrams per kilogram (mg/kg) TPHg at 4.5 feet, and 1.8 mg/kg benzene and 1.4 mg/kg MTBE at 2.0 feet.

CONCLUSIONS

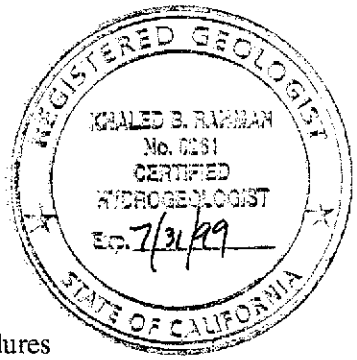
The trace concentrations of benzene detected at 4.5 ft indicate that hydrocarbons are limited to the surface soil. Additional investigation of the dispenser area is not warranted at this time.

CLOSING

We appreciate your assistance with this project. Please call if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc.

Khaled B. Rahman, R.G., C.H.G.
Senior Geologist



Attachments: A - Standard Piping and Dispenser Removal Sampling Procedures
B - Laboratory Analytical Reports for Dispenser Soil Samples
C - December 4, 1997 Fax to Mr. Scott Seery, ACDEH

cc: Tim Hargraves, Shell Oil Products Company, P.O. Box 8080, Martinez, California 94553
A.E. (Alex) Perez, Shell Oil Products Company, P.O. Box 8080, Martinez, California 94553
Amir Gholami, Alameda County Department of Environmental Health, 1131 Harbor Bay Parkway, Suite 250, Alameda, California 94502-6577

G:\SNL1784\REPORTS\Dispenser Soil Sampling.wpd

ATTACHMENT A

Standard Piping and Dispenser Removal
Sampling Procedures

STANDARD PIPING AND DISPENSER REMOVAL SAMPLING PROCEDURES

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

Piping and Dispenser Removal Sampling

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

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

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

ATTACHMENT B

Laboratory Analytic Reports for Dispenser Soil Samples

ANALYTICAL REPORT

Our Quality Control Is Your Quality Assurance

SAMPLE NO: 9712157*1

Received: 12.05.97

Mailed: DEC 22 1997

Mr. Paul Waite
Cambria Environmental Technology
1144 65th Street Suite C
Oakland, CA 94608

P.O.#: WIC204-6852-1404
Req#: 4441
Project: PW/CAMBRIA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE					DATE SAMPLED
9712157*1 Disp-A					12.04.97
PARAMETER	**METHOD**	**ANALYZED**	**UNITS**	**RESULT**	**RDL**
GRO (8020)					
Date Analyzed	8015M	12.12.97	Date	12/12/97	
Dilution Factor	8015M	12.12.97	Times	1	
Carbon Range	8015M	12.12.97	.	C6-C12	
Benzene	8015M	12.12.97	mg/kg	<0.005	0.005
Toluene	8015M	12.12.97	mg/kg	0.037	0.005
Ethylbenzene	8015M	12.12.97	mg/kg	0.022	0.005
Methyl-tert-butylether	8015M	12.12.97	mg/kg	0.019	0.005
Total Xylene Isomers	8015M	12.12.97	mg/kg	<0.01	0.01
TPH (Gasoline Range)	8015M	12.12.97	mg/kg	3.1	0.05
Surrogates **					
a,a,a-Trifluorotoluene Rep.	8015M	12.12.97	Percent	89	
Data Review		12.26.97	Date	12/22/97	

Greta Galoustian, Laboratory Director

ANALYTICAL REPORT

SAMPLE NO: 9712157*2

Received: 12.05.97

Mailed: DEC 22 1997

Mr. Paul Waite
Cambria Environmental Technology
1144 65th Street Suite C
Oakland, CA 94608

P.O.#: WIC204-6852-1404
Req#: 4441
Project: PW/CAMBRIA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE					DATE SAMPLED
9712157*2	Disp-B				12.04.97
PARAMETER	**METHOD**	**ANALYZED**	**UNITS**	**RESULT**	**RDL**
GRO (8020)					
Date Analyzed	8015M	12.13.97	Date	12/13/97	
Dilution Factor	8015M	12.13.97	Times	200	
Carbon Range	8015M	12.13.97	.	C6-C12	
Benzene	8015M	12.13.97	mg/kg	<1	1
Toluene	8015M	12.13.97	mg/kg	<1	1
Ethylbenzene	8015M	12.13.97	mg/kg	<1	1
Methyl-tert-butylether	8015M	12.13.97	mg/kg	<1	1
Total Xylene Isomers	8015M	12.13.97	mg/kg	<2	2
TPH (Gasoline Range)	8015M	12.13.97	mg/kg	130	10
Surrogates **					
a,a,a-Trifluorotoluene Rep.	8015M	12.13.97	Percent	114	
Data Review		12.26.97	Date	12/22/97	

Greta Galoustian, Laboratory Director

ANALYTICAL REPORT

SAMPLE NO: 9712157*3

Received: 12.05.97

Mailed: DEC 22 1997

Mr. Paul Waite
Cambria Environmental Technology
1144 65th Street Suite C
Oakland, CA 94608

P.O.#: WIC204-6852-1404
Req#: 4441
Project: PW/CAMBRIA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9712157*3	Disp-C	12.04.97

PARAMETER	METHOD	ANALYZED	UNITS	RESULT	RDL
GRO (8020)					
Date Analyzed	8015M	12.13.97	Date	12/13/97	
Dilution Factor	8015M	12.13.97	Times	200	
Carbon Range	8015M	12.13.97	.	C6-C12	
Benzene	8015M	12.13.97	mg/kg	1.8	1
Toluene	8015M	12.13.97	mg/kg	2.1	1
Ethylbenzene	8015M	12.13.97	mg/kg	3.6	1
Methyl-tert-butylether	8015M	12.13.97	mg/kg	1.4	1
Total Xylene Isomers	8015M	12.13.97	mg/kg	20	2
TPH (Gasoline Range)	8015M	12.13.97	mg/kg	190	10
Surrogates **					
a,a,a-Trifluorotoluene Rep.	8015M	12.13.97	Percent	107	
Data Review		12.26.97	Date	12/22/97	

Greta Galoustian, Laboratory Director

ANALYTICAL REPORT

SAMPLE NO: 9712157*4

Received: 12.05.97

Mailed: DEC 22 1997

Mr. Paul Waite
Cambria Environmental Technology
1144 65th Street Suite C
Oakland, CA 94608

P.O.#: WIC204-6852-1404
Req#: 4441
Project: PW/CAMBRIA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE					DATE SAMPLED
9712157*4 Disp-D					12.04.97
PARAMETER	**METHOD**	**ANALYZED**	**UNITS**	**RESULT**	**RDL**
GRO (8020)					
Date Analyzed	8015M	12.08.97	Date	12/08/97	
Dilution Factor	8015M	12.08.97	Times	1	
Carbon Range	8015M	12.08.97	.	C6-C12	
Benzene	8015M	12.08.97	mg/kg	0.11	0.005
Toluene	8015M	12.08.97	mg/kg	<0.005	0.005
Ethylbenzene	8015M	12.08.97	mg/kg	0.15	0.005
Methyl-tert-butylether	8015M	12.08.97	mg/kg	0.11	0.03
Total Xylene Isomers	8015M	12.08.97	mg/kg	0.17	0.01
TPH (Gasoline Range)	8015M	12.08.97	mg/kg	3.8	0.05
Surrogates **					
a,a,a-Trifluorotoluene Rep.	8015M	12.08.97	Percent	100	
Data Review		12.26.97	Date	12/22/97	

Greta Galoustian, Laboratory Director

ANALYTICAL REPORT

SAMPLE NO: 9712157*5

Received: 12.05.97

Mailed: DEC 22 1997

Mr. Paul Waite
Cambria Environmental Technology
1144 65th Street Suite C
Oakland, CA 94608

P.O.#: WIC204-6852-1404
Req#: 4441
Project: PW/CAMBRIA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE					DATE SAMPLED
9712157*5 Disp-A,4.5					12.04.97
PARAMETER	**METHOD**	**ANALYZED**	**UNITS**	**RESULT**	**RDL**
GRO (8020)					
Date Analyzed	8015M	12.12.97	Date	12/12/97	
Dilution Factor	8015M	12.12.97	Times	2	
Carbon Range	8015M	12.12.97	.	C6-C12	
Benzene	8015M	12.12.97	mg/kg	0.096	0.01
Toluene	8015M	12.12.97	mg/kg	0.012	0.01
Ethylbenzene	8015M	12.12.97	mg/kg	0.46	0.01
Methyl-tert-butylether	8015M	12.12.97	mg/kg	0.056	0.01
Total Xylene Isomers	8015M	12.12.97	mg/kg	0.037	0.02
TPH (Gasoline Range)	8015M	12.12.97	mg/kg	6.3	0.1
Surrogates **					
a,a,a-Trifluorotoluene Rep.	8015M	12.12.97	Percent	88	
Data Review		12.26.97	Date	12/22/97	

Greta Galoustian, Laboratory Director

ANALYTICAL REPORT

SAMPLE NO: 9712157*6

Received: 12.05.97

Mailed: DEC 22 1997

Mr. Paul Waite
Cambria Environmental Technology
1144 65th Street Suite C
Oakland, CA 94608

P.O.#: WIC204-6852-1404
Req#: 4441
Project: PW/CAMBRIA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9712157*6	Disp-B,4.5	12.04.97

PARAMETER	METHOD	ANALYZED	UNITS	RESULT	RDL
GRO (8020)					
Date Analyzed	8015M	12.08.97	Date	12/08/97	
Dilution Factor	8015M	12.08.97	Times	1	
Carbon Range	8015M	12.08.97	.	C6-C12	
Benzene	8015M	12.08.97	mg/kg	0.045	0.005
Toluene	8015M	12.08.97	mg/kg	<0.005	0.005
Ethylbenzene	8015M	12.08.97	mg/kg	0.064	0.005
Methyl-tert-butylether	8015M	12.08.97	mg/kg	<0.03	0.03
Total Xylene Isomers	8015M	12.08.97	mg/kg	0.32	0.01
TPH (Gasoline Range)	8015M	12.08.97	mg/kg	1.0	0.05
Surrogates **					
a,a,a-Trifluorotoluene Rep.	8015M	12.08.97	Percent	109	
Data Review		12.26.97	Date	12/22/97	

Greta Galoustian, Laboratory Director

ANALYTICAL REPORT

SAMPLE NO: 9712157*7

Received: 12.05.97

Mailed: DEC 22 1997

Mr. Paul Waite
Cambria Environmental Technology
1144 65th Street Suite C
Oakland, CA 94608

P.O.#: WIC204-6852-1404
Req#: 4441
Project: PW/CAMBRIA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE					DATE SAMPLED
9712157*7 Disp-C,4.5					12.04.97
PARAMETER	**METHOD**	**ANALYZED**	**UNITS**	**RESULT**	**RDL**
GRO (8020)					
Date Analyzed	8015M	12.12.97	Date	12/12/97	
Dilution Factor	8015M	12.12.97	Times	100	
Carbon Range	8015M	12.12.97	.	C6-C12	
Benzene	8015M	12.12.97	mg/kg	<0.5	0.5
Toluene	8015M	12.12.97	mg/kg	0.98	0.5
Ethylbenzene	8015M	12.12.97	mg/kg	2.3	0.5
Methyl-tert-butylether	8015M	12.12.97	mg/kg	<0.5	0.5
Total Xylene Isomers	8015M	12.12.97	mg/kg	3.1	1
TPH (Gasoline Range)	8015M	12.12.97	mg/kg	590	5
Surrogates **					
a,a,a-Trifluorotoluene Rep.	8015M	12.12.97	Percent	100	
Data Review		12.26.97	Date	12/22/97	

Greta Galoustian, Laboratory Director

ANALYTICAL REPORT

SAMPLE NO: 9712157*8

Received: 12.05.97

Mailed: DEC 22 1997

Mr. Paul Waite
Cambria Environmental Technology
1144 65th Street Suite C
Oakland, CA 94608

P.O.#: WIC204-6852-1404
Req#: 4441
Project: PW/CAMBRIA

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION, NON-AQUEOUS SAMPLE		DATE SAMPLED
9712157*8	Disp-D,4.5	12.04.97

PARAMETER	METHOD	ANALYZED	UNITS	RESULT	RDL
GRO (8020)					
Date Analyzed	8015M	12.16.97	Date	12/16/97	
Dilution Factor	8015M	12.16.97	Times	1	
Carbon Range	8015M	12.16.97	.	C6-C12	
Benzene	8015M	12.16.97	mg/kg	0.027	0.005
Toluene	8015M	12.16.97	mg/kg	<0.005	0.005
Ethylbenzene	8015M	12.16.97	mg/kg	0.036	0.005
Methyl-tert-butylether	8015M	12.16.97	mg/kg	0.0050	0.005
Total Xylene Isomers	8015M	12.16.97	mg/kg	0.178	0.01
TPH (Gasoline Range)	8015M	12.16.97	mg/kg	1.4	0.05
Surrogates **					
a,a,a-Trifluorotoluene Rep.	8015M	12.16.97	Percent	104	
Data Review		12.26.97	Date	12/22/97	

Greta Galoustian, Laboratory Director

: ORDER PLACED FOR CLIENT: Cambria Environmental Technology 9712157 :
: VOC ANALYTICAL : GLEN LAB : 12:19:09 26 DEC 1997 - P. 1 :

SAMPLES...	SAMPLE DESCRIPTION..	DETERM.....	DATE..... ANALYZED	METHOD.....	EQUIP.	BATCH..	ID.NO
9712157*1	Disp-A	GAS.TPH.MTBE	12.12.97	8015M	536-33	9787146	6843
		DATA.REVIEW	12.26.97				7524
9712157*2	Disp-B	GAS.TPH.MTBE	12.13.97	8015M	536-33	9787147	6843
		DATA.REVIEW	12.26.97				7524
9712157*3	Disp-C	GAS.TPH.MTBE	12.13.97	8015M	536-33	9787147	6843
		DATA.REVIEW	12.26.97				7524
9712157*4	Disp-D	GAS.TPH.MTBE	12.08.97	8015M	536-33	9787141	6843
		DATA.REVIEW	12.26.97				7524
9712157*5	Disp-A,4.5	GAS.TPH.MTBE	12.12.97	8015M	536-33	9787146	6843
		DATA.REVIEW	12.26.97				7524
9712157*6	Disp-B,4.5	GAS.TPH.MTBE	12.08.97	8015M	536-33	9787141	6843
		DATA.REVIEW	12.26.97				7524
9712157*7	Disp-C,4.5	GAS.TPH.MTBE	12.13.97	8015M	536-33	9787147	6843
		DATA.REVIEW	12.26.97				7524
9712157*8	Disp-D,4.5	GAS.TPH.MTBE	12.16.97	8015M	536-44	9711171	1030
		DATA.REVIEW	12.26.97				7524

***

Notes: Equipment = VOC Analytical identification number for a particular piece of analytical equipment.

ID.NO = VOC Analytical employee identification number of analyst.

VOC ANALYTICAL, GLENDALE
QC REPORT FOR 9712157
DATE PRINTED: 26 DEC 1997

NON-AQUEOUS SAMPLES		METHOD BLANK			LAB CONTROL								MATRIX QC								
					LCS		LCSD					RPD	RPD	MS		MSD				RPD	RPD
	UNITS	RESULT	PQL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG	%REC	FLG	%REC	FLG	LCL	UCL	RPD	UCL	FLG
Batch: GAS*9711171 Method: 8015M - Modified 8015																						
Benzene	mg/kg	0	0.005	-	100	-	103	-	88	150	3	-	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	0	0.005	-	101	-	104	-	75	130	3	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	0	0.005	-	100	-	104	-	83	118	3	-	-	-	-	-	-	-	-	-	-	-
Methyl-tert-butylether	mg/kg	0	0.005	-	104	-	135	-	51	140	26	-	-	-	-	-	-	-	-	-	-	-
Total Xylene Isomers	mg/kg	0	0.02	-	100	-	103	-	80	117	3	-	-	-	-	-	-	-	-	-	-	-
TPH (Gasoline Range)	mg/kg	0	0.3	-	105	-	95	-	79	123	10	-	-	99	-	96	-	45	134	3	30	-
[a,a,a-Trifluorotoluene]	Percent	111	-	-	107	-	108	-	71	131	-	-	-	131	-	121	-	71	131	-	-	-
Batch: GAS*9787141 Method: 8015M - Modified 8015																						
Benzene	mg/kg	0	0.005	-	88	-	89	-	88	150	0	-	-	133	-	127	-	67	134	5	25	-
Toluene	mg/kg	0	0.005	-	91	-	92	-	75	130	2	-	-	89	-	86	-	65	137	3	25	-
Ethylbenzene	mg/kg	0	0.005	-	93	-	95	-	83	118	3	-	-	97	-	95	-	51	150	3	25	-
Methyl-tert-butylether	mg/kg	0	0.005	-	76	-	83	-	51	140	8	-	-	27	Q	29	Q	50	150	5	30	-
Total Xylene Isomers	mg/kg	0	0.02	-	92	-	95	-	80	117	3	-	-	81	-	79	-	53	140	2	25	-
TPH (Gasoline Range)	mg/kg	0	0.3	-	88	-	95	-	79	123	8	-	-	82	-	79	-	45	134	4	30	-
[a,a,a-Trifluorotoluene]	Percent	135	-	Q	104	-	103	-	71	131	-	-	-	125	-	119	-	71	131	-	-	-
Batch: GAS*9787146 Method: 8015M - Modified 8015																						
Benzene	mg/kg	0	0.005	-	104	-	-	-	88	150	-	-	-	113	-	110	-	67	134	3	25	-
Toluene	mg/kg	0	0.005	-	107	-	-	-	75	130	-	-	-	75	-	74	-	65	137	2	25	-
Ethylbenzene	mg/kg	0	0.005	-	110	-	-	-	83	118	-	-	-	86	-	83	-	51	150	3	25	-
Methyl-tert-butylether	mg/kg	0	0.005	-	88	-	-	-	51	140	-	-	-	107	-	102	-	50	150	5	30	-
Total Xylene Isomers	mg/kg	0	0.02	-	110	-	-	-	80	117	-	-	-	74	-	73	-	53	140	2	25	-
TPH (Gasoline Range)	mg/kg	0	0.3	-	93	-	-	-	79	123	-	-	-	96	-	91	-	45	134	6	30	-
[a,a,a-Trifluorotoluene]	Percent	102	-	-	106	-	-	-	71	131	-	-	-	101	-	105	-	71	131	-	-	-
Batch: GAS*9787147 Method: 8015M - Modified 8015																						
Benzene	mg/kg	0	0.5	-	101	-	94	-	88	150	7	25	-	-	-	-	-	-	-	-	-	-
Toluene	mg/kg	0	0.5	-	103	-	96	-	75	130	7	25	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	mg/kg	0	0.5	-	105	-	98	-	83	118	7	25	-	-	-	-	-	-	-	-	-	-
Methyl-tert-butylether	mg/kg	0	0.5	-	94	-	106	-	51	140	12	30	-	-	-	-	-	-	-	-	-	-
Total Xylene Isomers	mg/kg	0	2	-	105	-	100	-	80	117	5	25	-	-	-	-	-	-	-	-	-	-
TPH (Gasoline Range)	mg/kg	0	30	-	94	-	85	-	79	123	9	30	-	-	-	-	-	-	-	-	-	-
[a,a,a-Trifluorotoluene]	Percent	100	0	-	102	-	92	-	71	131	-	-	-	-	-	-	-	-	-	-	-	-

: SURROGATE RECOVERIES :
: BC ANALYTICAL : GLEN LAB : 12:12:34 26 DEC 1997 - P. 1 :

METHOD	ANALYTE	BATCH	ANALYZED	REPORTED	TRUE	%REC	FLAG
9712157*1							
8015M	a,a,a-Trifluorotoluene	Re9787146	12/12/97	0.0445	0.0500	89	
9712157*2							
8015M	a,a,a-Trifluorotoluene	Re9787147	12/13/97	11.4	10.0	114	
9712157*3							
8015M	a,a,a-Trifluorotoluene	Re9787147	12/13/97	10.7	10.0	107	
9712157*4							
8015M	a,a,a-Trifluorotoluene	Re9787141	12/08/97	0.100	0.100	100	
9712157*5							
8015M	a,a,a-Trifluorotoluene	Re9787146	12/12/97	0.0876	0.100	88	
9712157*6							
8015M	a,a,a-Trifluorotoluene	Re9787141	12/08/97	0.109	0.100	109	
9712157*7							
8015M	a,a,a-Trifluorotoluene	Re9787147	12/13/97	5.00	5.00	100	
9712157*8							
8015M	a,a,a-Trifluorotoluene	Re9711171	12/16/97	0.0522	0.0500	104	

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 12/4/97
Page 1 of 1

Site Address: 1784 ~~@~~ 150th Av, San Leandro

WIC#: 204-6852-1404

Shell Engineer: Lisa Maglines
Phone No.: 510-335-5033
Fax #: 335-5016

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1144 65th St. Suite C, Oakland, CA 94608

Consultant Contact: Paul Waite
Phone No.: 510-420-0700
Fax #: 420-9170

Comments: Confirm highest MTBE result by 8260

Sampled by: P. Kay

Printed Name: Paul Waite

LAB: VOC

CHECK ONE (1) BOX ONLY	C1/D1
G.W. Monitoring	4441
Site Investigation	X 4441
Soil Classify/Disposal	4442
Water Classify/Disposal	4443
Soil/Air Remt. or Sys. O & M	4452
Water Remt. or Sys. O & M	4453
Other	

TURN AROUND TIME
24 hours
48 hours
15 days (Normal)
Other

NOTE: Notify Lab as soon as Possible of 24/48 hr. TAT.

UST AGENCY: Alameda County

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 MTBE			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
D-3P-A	12/4					1						X							So. 1	
D-3P-B						1						X							"	
D-3P-C						1						X							"	
D-3P-D						1						X							"	
D-3P-A, 4.5						1						X							"	
D-3P-B, 4.5						1						X							"	
D-3P-C, 4.5						1						X							"	
D-3P-D, 4.5						1						X							"	

FAXed 12/5 3:35

Relinquished By (signature):	Printed Name: Paul Waite	Date: 12/5/97 Time:	Received (signature): Donna Mather
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):

Printed Name: DONNA Mather	Date: 12/5/97 Time: 1330	
Printed Name:	Date: Time:	
Printed Name:	Date: Time:	

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

ATTACHMENT C

December 4, 1997 Fax to Mr. Scott Seery, ACDEH

To:	Scott Seery
Organization:	Alameda County Department of Environmental Health
Fax #:	(510) 337-9335
Re:	Shell Service Station, 1784 150th Avenue, San Leandro CA
Date:	December 4, 1997
Pages:	2, including this cover

FACSIMILE

Mr. Seery,

Shell Oil Products Company (Shell) is currently performing 1998 upgrade activities at this site. Paradiso Mechanical, the construction contractor for Shell, is installing dispenser sumps and accessing the tank turbine areas for the upgrades. Cambria, on behalf of Shell, performed soil sampling beneath the former dispensers today. As you and I discussed, I was on site today and met with Amir Gholami with the Alameda County Department of Environmental Health (ACDEH).

Cambria collected one soil sample approximately one foot into native soil beneath each of the four former dispensers. Based on his visual observations, Mr. Gholami stated that he wanted Shell to wait for the analytical results of the sampling before installing the new sumps and replacing the dispensers. He also said that overexcavation of the impacted soil may be required at the site. I told Mr. Gholami that we would use a hand auger to collect samples at approximately 5 feet into native soil beneath each dispenser. He said that was a good idea and that we could proceed without his observation. Mr. Gholami left the site and said that he would not be in his office Thursday afternoon or Friday and that Mr. Seery with ACDEH would be responsible for deciding if Shell could continue with the dispenser replacement or if they had to wait for the analytic results and possibly have to overexcavate.

After Mr. Gholami left, Cambria collected samples approximately 4.5 feet into native soil beneath each dispenser using a hand auger. In three of the sample locations, the deeper soils consisted of a tight, black, organic clay. No hydrocarbon staining or odor was observed at the lower depths of these three locations. In the other sampling location, surficial water was seeping into the sample location from the upper fill material. This water appeared to be perched in the upper fill material from the recent rains at the site. The water interfered with the augering and sampling. A soil sample was collected at approx. 4.5 foot depth and the sample appeared to consist of tight, black, organic clay with no hydrocarbon impact; however, the water seeping in from the surface mixed with the

From the desk of...

Paul Waite
Project Engineer
Cambria Environmental Technology
1144 65th Street, Suite C
Oakland, CA 94608

(510) 420-3305
Fax: (510) 420-9170

CAMBRIA

sample and may affect the analytic results.

You stated today that based on the above information, Shell can continue the installation of the new dispensers. They do not have to wait for the soil sampling analytic results, and no overexcavation of surficial soils will be necessary. I informed you that Shell will continue with the dispenser installation on Friday, December 5, and you stated that was acceptable. We will submit the soil samples for analysis of total petroleum hydrocarbons as gasoline, benzene, toluene, ethylbenzene, xylenes, and methyl tert-butyl ether using a regular turn around time and we will present the results to you.

Please call me at (510) 420-3305 to confirm your receipt of this notification. If you have any questions or comments, please call me as soon as possible.

Thank You,

Paul Waite

cc: Alex Perez, Shell Oil Products Company, (510) 335-5029
Lisa Maglines, Shell Oil Products Company, (510) 335-5016
Amir Gholami, ACDEH, (510) 337-9335
Rob Weston, ACDEH, (510) 337-9335
Paul Paradiso, Paradiso Mechanical, (510) 614-8396

From the desk of...

Paul Waite
Project Engineer
Cambria Environmental Technology
1144 65th Street, Suite C
Oakland, CA 94608

(510) 420-3305
Fax: (510) 420-9170