



ST10 3714  
PE

December 8, 1997

Jennifer Eberle  
Alameda Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

Re: **Third Quarter 1997 Quarterly Monitoring Report**  
Shell Service Station  
350 Grand Avenue  
Oakland, California  
WIC #204-5510-0204  
Cambria Project #24-314-397

Dear Ms. Eberle:

On behalf of Shell Oil Products Company, Cambria Environmental Technology, Inc. (Cambria) is submitting this status report to satisfy the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Division 3, Chapter 16, Article 5, Section 2652.d.

### **THIRD QUARTER 1997 ACTIVITIES**

**Ground Water Monitoring:** Blaine Tech Services, Inc. (Blaine) of San Jose, California measured ground water depths and collected water samples from the site wells (Figure 1). The Blaine report describing these sampling activities and presenting the analytic results is included as Attachment A. Cambria calculated ground water elevations (Table 1), compiled the analytic data (Table 2), and prepared a ground water elevation contour map (Figure 1).

**MTBE Investigation Work Plan:** Cambria submitted an *MTBE Investigation Work Plan* dated September 15, 1997. We will begin work on this investigation once we have received written approval from your office.

CAMBRIA  
ENVIRONMENTAL  
TECHNOLOGY, INC.  
1144 65TH STREET,  
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97 DEC 23 AM 3:41  
ENVIRONMENTAL  
PROTECTION

Jennifer Eberle  
December 8, 1997

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### ANTICIPATED FUTURE ACTIVITIES

The next ground water monitoring event is scheduled for the first quarter of 1998. At that time, Blaine will measure ground water depths and collect ground water samples from the site wells and Cambria will submit a report summarizing activities at the site.

### CLOSING

We appreciate the opportunity to work with you on this project. Please call if you have any questions.

Sincerely,  
Cambria Environmental Technology, Inc.



Maureen D. Feineman  
Staff Geologist



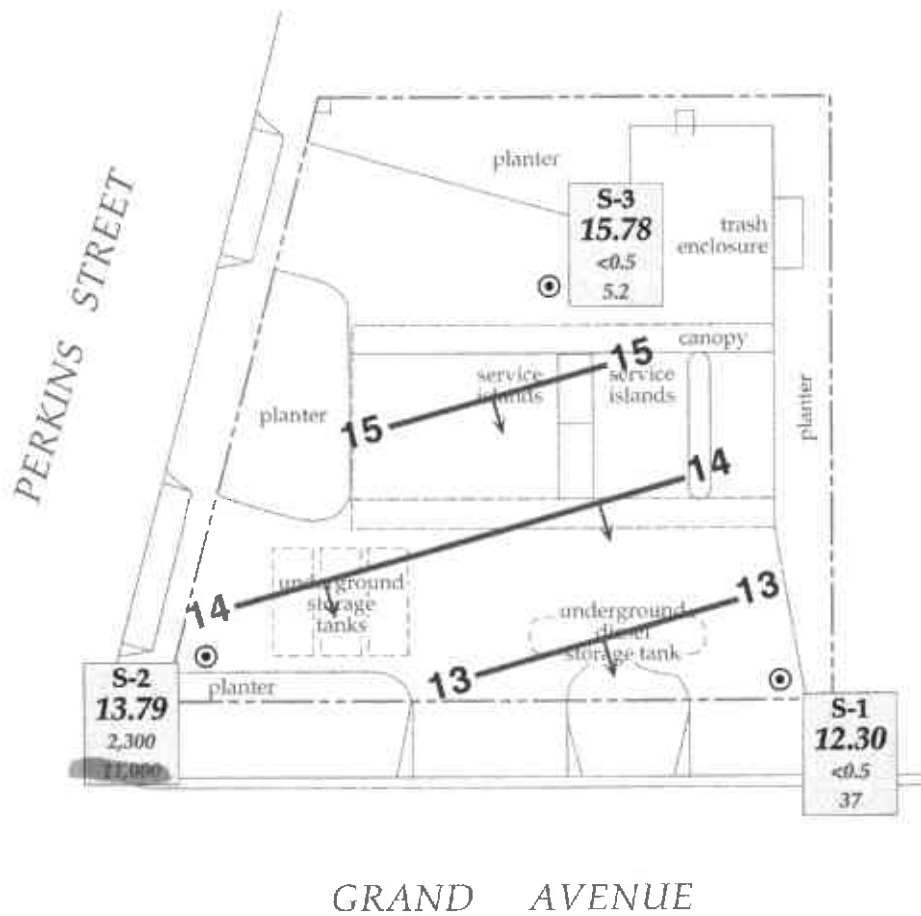
Khaled B. Rahman, R.G., C.H.G.  
Senior Geologist



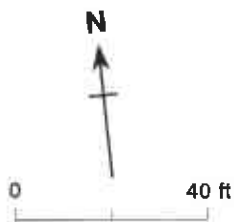
Attachments: A - Blaine Quarterly Ground Water Monitoring Report

cc: A.E. (Alex) Perez, Shell Oil Products Company, P.O. Box 8080, Martinez, California 94553

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GRAND AVENUE



**EXPLANATION**

- ⊙ S-3 Monitoring well
- xx.x Ground water elevation contour, ft above msl, approximately located, dashed where inferred
- Inferred ground water flow direction

S-1	1. Ground water elevation, ft above mean sea level
<b>ELEV.</b>	2. Benzene and MTBE concentrations are in parts per billion (ppb)
Benz. - Date	3. Date is most recent sampling unless otherwise indicated
MTBE - Date	

Base map from GeoStrategies Inc.

Figure 1. Ground Water Elevation Contours - September 19, 1997 - Shell Service Station WIC #204-5510-0204, 350 Grand Avenue, Oakland, California

**Table 1. Ground Water Elevations - Shell Service Station WIC #204-5510-0204, 350 Grand Avenue, Oakland, California**

Well ID	Date	Top-of-Vault Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
S-1	01/23/91	20.84	9.73	11.11
	04/25/91		7.37	13.47
	07/19/91		8.92	11.92
	10/09/91		9.62	11.22
	01/23/92		8.94	11.90
	04/27/92		7.06	13.78
	07/10/92		8.31	12.53
	10/06/92		9.55	11.29
	01/06/93		9.86	10.98
	04/26/93		6.30	14.54
	07/20/93		8.78	12.06
	10/18/93		9.20	11.64
	01/07/94		9.53	11.31
	04/11/94		8.50	12.34
	07/14/94		8.45	12.39
	07/19/94		9.07	11.77
	10/06/94		11.68	9.16
	01/04/95		8.51	12.33
	04/12/95		6.66	14.18
	07/07/95		6.95	13.89
	10/05/95		8.50	12.34
	01/12/96		8.02	12.82
04/02/96	4.98	15.86		
07/30/96	6.40	14.44		
10/02/96	7.53	13.31		
09/19/97	8.54	12.30		
S-2	01/23/91	21.24	10.55	10.69
	04/25/91		8.24	13.00
	07/19/91		9.55	11.69
	10/09/91		10.26	10.98
	01/23/92		9.51	11.73
	04/27/92		7.83	13.41
	07/10/92		8.57	12.67
	10/06/92		9.49	11.75
	01/06/93		8.56	12.68
	04/26/93		6.84	14.40
	07/20/93		8.52	12.72
	10/18/93		9.36	11.88
	01/07/94		8.37	12.87
	04/11/94		6.96	14.28
	07/14/94		7.49	13.75
	07/19/94		8.02	13.22
	10/06/94		11.00	10.24

*highest in spring*

**Table 1. Ground Water Elevations - Shell Service Station WIC #204-5510-0204, 350 Grand Avenue, Oakland, California (continued)**

Well ID	Date	Top-of-Vault Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
	01/04/94		8.07	13.17
	04/12/95		6.12	15.12
	07/07/95		6.35	14.89
	10/05/95		7.36	13.88
	01/12/96		7.64	13.60
	04/02/96		6.18	15.06
	07/30/96		7.22	14.02
	10/02/96		7.60	13.64
	09/19/97		7.45	13.79
S-3	01/23/91	22.70	14.67	8.03
	04/25/91		12.96	9.74
	07/19/91		12.45	10.25
	10/09/91		12.98	9.72
	01/23/92		13.06	9.64
	04/27/92		7.25	15.45
	07/10/92		8.46	14.24
	10/06/92		11.77	10.93
	01/06/93		12.53	10.17
	04/26/93		4.28	18.42
	07/20/93		5.70	17.00
	10/18/93		10.30	12.40
	01/07/94		12.40	10.30
	04/11/94		10.94	11.76
	07/14/94		7.90	14.80
	07/19/94		8.12	14.58
	10/06/94		12.15	10.55
	01/04/95		11.18	11.52
	04/12/95		3.76	18.94
	07/07/95		4.72	17.98
	10/05/95		5.80	16.90
	01/12/96		7.00	15.70
	04/02/96		3.42	19.28
	07/30/96		5.89	16.81
	10/02/96		7.20	15.50
	09/19/97		6.92	15.78

**Notes and Abbreviations**

ft = feet  
msl = mean sea level

**Table 2. Analytic Results for Ground Water - Shell Service Station, WIC #204-5510-0204, 350 Grand Avenue, Oakland, California**

Sample ID	Date	Depth to Water (ft)	TPH-D	TPH-G	parts per billion (µg/L)					DO (mg/L)
					B	E	T	X	MTBE	
S-1	01/23/91	9.73	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/25/91	7.37	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/19/91	8.92	<50	<50	6.8	<0.5	<0.5	<0.5	---	---
	10/09/91	9.62	260 <sup>a</sup>	120	10	<0.5	<0.5	<0.5	---	---
	01/23/92	8.94	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/27/92	7.06	70 <sup>b</sup>	<50	1.2	<0.5	<0.5	<0.5	---	---
	07/10/92	8.31	930	<50	13	<0.5	<0.5	<0.5	---	---
	10/06/92	9.55	110	62	<0.5	<0.5	<0.5	<0.5	---	---
	01/06/93	9.86	81	85	1.1	<0.5	<0.5	<0.5	---	---
	04/26/93	6.30	53 <sup>c</sup>	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/26/93 <sup>dup</sup>	6.30	53 <sup>c</sup>	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/20/93	8.78	140	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/18/93	9.20	210	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/07/94	9.53	<50	<50	1.4	0.55	1.5	2.8	---	---
	01/07/94 <sup>dup</sup>	9.53	53	<50	1.2	<0.5	1.5	2.7	---	---
	04/11/94	8.50	320	<50	2.8	<0.5	<0.5	<0.5	---	---
	04/11/94 <sup>dup</sup>	8.50	220	<50	2.6	<0.5	<0.5	<0.5	---	---
	07/19/94	9.07	110	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/06/94	11.68	370	110	1.4	<0.5	<0.5	<0.5	---	---
	01/04/95	8.51	1,000	120	2.5	1.5	<0.5	1.7	---	---
	04/12/95	6.66	290	<50	2.1	<0.5	<0.5	<0.5	---	---
	04/12/95 <sup>dup</sup>	6.66	480	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/07/95	6.95	370	<50	5.5	<0.5	<0.5	<0.5	---	---
	07/07/95 <sup>dup</sup>	6.95	450	<50	6.5	<0.5	<0.5	<0.5	---	---
	10/05/95	8.50	200	<50	3.9	<0.5	1.2	2.4	---	---
	01/12/96	8.02	1,500	230	2.5	0.9	<0.5	0.6	---	---
	04/02/96	4.98	2,000	95	0.91	<0.5	<0.5	<0.5	140	---
	07/30/96	6.40	510	<50	<0.5	<0.5	<0.5	<0.5	67	---
	07/30/96 <sup>dup</sup>	6.40	380	<50	<0.5	<0.5	<0.5	<0.5	68	---
	10/02/96	7.53	250	<50	<0.5	<0.5	<0.5	<0.5	96	---
	09/19/97	8.54	120	<50	<0.50	<0.50	<0.50	<0.50	37	0.8

*Going down*

**Table 2. Analytic Results for Ground Water - Shell Service Station, WIC #204-5510-0204, 350 Grand Avenue, Oakland, California (continued)**

Sample ID	Date	Depth to Water (ft)	TPH-D	TPH-G	B	E	T	X	MTBE	DO
S-2	01/23/91	10.55	1,200	2,500	550	33	15	42	---	---
	04/25/91	8.24	20,000 <sup>b</sup>	32,000	2,900	1,400	480	2,300	---	---
	07/19/91	9.55	30,000 <sup>b</sup>	21,000	4,700	1,200	430	2,400	---	---
	10/09/91	10.26	32,000 <sup>b</sup>	29,000	6,300	1,700	510	2,400	---	---
	01/23/92	9.51	36,000 <sup>b</sup>	31,000	5,800	2,000	480	2,700	---	---
	04/27/92	7.83	12,000 <sup>b</sup>	21,000 <sup>d</sup>	4,800	1,600	320	1,400	---	---
	07/10/92	8.57	3,700 <sup>e</sup>	31,000	7,500	3,400	940	3,500	---	---
	10/06/92	9.49	4,500 <sup>e</sup>	57,000	9,300	4,000	1,200	4,900	---	---
	01/06/93	8.56	5,600	55,000	5,600	3,000	360	3,000	---	---
	04/26/93	6.84	9,400 <sup>e</sup>	32,000	10,000	4,400	500	3,600	---	---
	07/20/93	8.52	8,400 <sup>e</sup>	25,000	5,800	2,700	300	1,400	---	---
	07/20/93 <sup>dup</sup>	8.52	8,900 <sup>e</sup>	25,000	5,900	2,800	310	1,400	---	---
	10/18/93	9.36	18,000 <sup>e</sup>	23,000	3,700	2,100	200	1,600	---	---
	10/18/93 <sup>dup</sup>	9.36	14,000 <sup>e</sup>	28,000	3,700	2,100	210	1,600	---	---
	01/07/94	8.37	22,000 <sup>e</sup>	120,000	6,900	3,100	400	2,600	---	---
	04/11/94	6.96	17,000 <sup>e</sup>	34,000	4,800	1,900	170	880	---	---
	07/19/94	8.02	---	23,000	4,300	1,100	210	1,000	---	---
	07/19/94 <sup>dup</sup>	8.02	---	29,000	4,700	1,200	270	1,200	---	---
	10/06/94	11.00	---	61,000	4,600	1,900	290	1,900	---	---
	10/06/94 <sup>dup</sup>	11.00	---	52,000	5,200	2,100	270	1,900	---	---
	01/04/95	8.07	---	23,000	4,500	1,300	49	500	---	---
	01/04/95 <sup>dup</sup>	8.07	---	18,000	3,800	1,100	33	390	---	---
	04/12/95	6.12	---	29,000	4,300	990	210	700	---	---
	07/07/95	6.35	---	26,000	4,200	1,100	180	730	---	---
	10/05/95	7.36	10,000	26,000	3,500	1,100	150	640	---	---
	10/05/95 <sup>dup</sup>	7.36	9,400	33,000	4,200	1,500	210	850	---	---
	01/12/96	7.64	13,000	36,000	4,100	1,400	240	790	---	---
	01/12/96 <sup>dup</sup>	7.64	11,000	40,000	4,100	1,400	260	860	---	---
	04/02/96	6.18	7,300	12,000	1,300	460	120	150	4,000	---
	04/02/96 <sup>dup</sup>	6.18	5,800	17,000	1,800	590	29	140	7,600	---
	07/30/96	7.22	13,000	18,000	3,000	1,200	100	420	≠17,000*	---

*continued high levels w/ some fluctuation*

**Table 2. Analytic Results for Ground Water - Shell Service Station, WIC #204-5510-0204, 350 Grand Avenue, Oakland, California (continued)**

Sample ID	Date	Depth to Water (ft)	TPH-D	TPH-G	B	E	T	X	MTBE	DO (mg/L)
	10/02/96	7.60	18,000	28,000	3,700	1,100	110	260	20,000	---
	10/02/96 <sup>dup</sup>	7.60	31,000	25,000	3,500	1,100	100	260	19,000	---
	09/19/97	7.45	11,000	21,000	2,300	500	120	110	10,000	2.1
S-3	01/23/91	14.67	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/25/91	12.96	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/19/91	12.45	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/09/91	12.98	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/23/92	13.06	---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/27/92	7.25	100	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/10/92	8.46	68	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/06/92	11.77	<10	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/06/93	12.53	<10	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/26/93	4.28	69	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/20/93	5.70	120	<50	<0.5	<0.5	0.6	<0.5	---	---
	10/18/93	10.30	160	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/07/94 <sup>f</sup>	12.40	58	160	59	4.9	26	22	---	---
	04/11/94	10.94	<50	<50	<0.52	<0.5	<0.5	<0.5	---	---
	07/19/94	8.12	110 <sup>a</sup>	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/06/94	12.15	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/04/95	11.18	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/12/95	3.76	110	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/07/95	4.72	410	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/05/95	5.80	160	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/12/96	7.00	<50	100	<0.5	<0.5	<0.5	<0.5	---	---
	04/02/96	3.42	170	<50	<0.5	<0.5	<0.5	<0.5	3.4	---
	07/30/96	5.89	92	<50	<0.5	<0.5	<0.5	<0.5	4.3	---
	10/02/96	7.20	160	<50	<0.5	<0.5	<0.5	<0.5	4.1	---
	09/19/97	6.92	260	<50	<0.50	<0.50	<0.50	<0.50	4.3	1.4
	09/19/97 <sup>dup</sup>	6.92	290	<50	<0.50	<0.50	<0.50	<0.50	5.2	1.4

*TPH d continues at low levels why?*



**Table 2. Analytic Results for Ground Water - Shell Service Station, WIC #204-5510-0204, 350 Grand Avenue, Oakland, California (continued)**

Sample ID	Date	Depth to Water (ft)	TPH-D	TPH-G	B	E	T	X	MTBE	DO (mg/L)
HP-1	01/27/93		14,000	22,000	2,500	1,400	130	140	---	---
HP-2	01/27/93		---	<50	<0.5	<0.5	4.4	<0.5	---	---
HP-3	01/27/93		---	<50	<0.5	<0.5	<0.5	<0.5	---	---
Trip Blank	01/23/91		---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/25/91		---	---	---	---	---	---	---	---
	07/19/91		---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/09/91		---	---	---	---	---	---	---	---
	01/23/92		<50	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/26/93		<50	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/20/93		---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/18/93		<50	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/07/94		<50	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/11/94		<50	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/19/94		<50	<50	<0.5	<0.5	<0.5	<0.5	---	---
	10/06/94		---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	01/04/95		---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	04/12/95		---	<50	<0.5	<0.5	<0.5	<0.5	---	---
	07/07/95		---	<50	<0.5	<0.5	<0.5	<0.5	---	---
10/05/95		---	<50	<0.5	<0.5	<0.5	<0.5	---	---	
01/12/96		---	<50	<0.5	<0.5	<0.5	<0.5	---	---	
MCLs				NE	1	700	150	1,750	NE	---

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**Table 2. Analytic Results for Ground Water - Shell Service Station, WIC #204-5510-0204, 350 Grand, Oakland, California  
(continued)**

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**Abbreviations:**

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015  
TPH-D = Total petroleum hydrocarbons as diesel by Modified EPA Method 8015  
MTBE = Methyl t-butyl ether by EPA Method 8020  
B = Benzene by EPA Method 8020  
E = Ethylbenzene by EPA Method 8020  
T = Toluene by EPA Method 8020  
X = Xylenes by EPA Method 8020  
DO = Dissolved oxygen  
--- = Not analyzed  
MCLs = California Primary maximum contaminant levels for drinking water (22 CCR 64444)  
NE = Not established  
<n = Not detected at detection limits of n ppb  
dup = Duplicate sample  
HP = Hydropunch ground water sample  
µg/L = micrograms per liter, equivalent to parts per billion  
mg/L = milligrams per liter, equivalent to parts per million

**Notes:**

a = compounds detected and calculated as diesel are not characteristic of the standard diesel chromatographic pattern  
b = Compounds detected and calculated as diesel appear to be the less volatile constituents of gasoline  
c = Concentration reported as diesel primarily due to the presence of a heavier petroleum product, possibly motor oil  
d = Compounds detected and calculated as gasoline are not characteristic of the standard gasoline chromatographic pattern  
e = Concentration reported as diesel is primarily due to the presence of lighter petroleum product, possibly gasoline  
f = TPH-G/BETX concentrations anomalous with historical data. Lab verified concentrations.  
\* = MTBE confirmed by EPA Method 8260

CAMBRIA

**ATTACHMENT A**

Blaine Quarterly Ground Water Monitoring Report



1680 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112  
(408) 573-7771 FAX  
(408) 573-0555 PHONE

October 20, 1997

Shell Oil Company  
P.O. Box 5278  
Concord, CA 94520-998

Attn: Alex Perez

Shell WIC #204-5510-0204  
350 Grand Avenue  
Oakland, California

3rd Quarter 1997

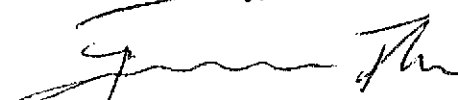
## Groundwater Monitoring Report 970919-A-1

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Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. Copies of our Sampling Report along with the laboratory's Certified Analytical Report are forwarded to the consultant overseeing work at this site. Submission of the assembled documents to interested regulatory agencies will be made by the designated consultant.

Groundwater monitoring at this site was performed in accordance with Standard Operating Procedures provided to the interested regulatory agencies. If you have any questions about the work performed at this site please call me at (408) 573-0555 ext. 201.

Yours truly,



Francis Thie

attachments: Table of Well Gauging Data  
Chain of Custody  
Field Data Sheets  
Certified Analytical Report

cc: Cambria Environmental Technology, Inc.  
1144 65th Street, Suite C  
Oakland, CA 94608  
Attn: Josh Bergstrom

(Any professional evaluations or recommendations will be made by the consultant under separate cover.)

## TABLE OF WELL GAUGING DATA

WELL I.D.	DATA COLLECTION DATE	MEASUREMENT REFERENCED TO	QUALITATIVE OBSERVATIONS (sheen)	DEPTH TO FIRST IMMISCIBLES LIQUID (FPZ) (feet)	THICKNESS OF IMMISCIBLES LIQUID ZONE (feet)	VOLUME OF IMMISCIBLES REMOVED (ml)	DEPTH TO WATER (feet)	DEPTH TO WELL BOTTOM (feet)
S-1	09/19/97	TOB	ODOR	NONE	--	--	8.54	17.75
S-2	09/19/97	TOB	ODOR	NONE	--	--	7.45	15.08
S-3*	09/19/97	TOB	--	NONE	--	--	6.92	15.10

\* Sample DUP was a duplicate sample taken from well S-3.



**SHELL OIL COMPANY**  
RETAIL ENVIRONMENTAL ENGINEERING - WEST

**CHAIN OF CUSTODY RECORD**

Serial No: 970919-1A

Date:

Page 1 of 1

Site Address: 350 Grand Ave., Oakland, CA

WIC#: 204-5510-0204

Shell Engineer: Alex Perez Phone No.: (510) 675-6168  
Fax #: 675-6172

Consultant Name & Address: Blaine Tech Services, Inc.  
1680 Rogers Ave., San Jose, CA 95112

Consultant Contact: Fran Thie Phone No.: (408) 573-0555  
Fax #: 573-7771

Comments:

Sampled by: SA

Printed Name: Steve Allen

**Analysis Required**

LAB: Sequoia

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring <input checked="" type="checkbox"/>	4461	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	4442	15 days <input checked="" type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

NOTE: Notify Lab as soon as possible of 24/48 hr. TAL

UST AGENCY:

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	MTE	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
<u>S1</u>	<u>9/19/97</u>			<u>W</u>		<u>5</u>	<u>X</u>	<u>X</u>	<u>X</u>				<u>X</u>						<u>01</u>
<u>S2</u>						<u>5</u>	<u>X</u>	<u>X</u>	<u>X</u>				<u>X</u>						<u>02</u>
<u>S3</u>						<u>5</u>	<u>X</u>	<u>X</u>	<u>X</u>				<u>X</u>						<u>03</u>
<u>EB</u>						<u>5</u>	<u>X</u>	<u>X</u>	<u>X</u>				<u>X</u>						<u>04</u>
<u>DUP</u>						<u>5</u>	<u>X</u>	<u>X</u>	<u>X</u>				<u>X</u>						<u>05</u>

Released By (signature): <u>[Signature]</u>	Printed Name: <u>Steve Allen</u>	Date: <u>9/22/97</u>	Time: <u>3:15 PM</u>	Received (signature): <u>[Signature]</u>	Printed Name: <u>Steve Ten</u>	Date: <u>9/22/97</u>	Time: <u>3:15</u>
Released By (signature): <u>[Signature]</u>	Printed Name:	Date:	Time:	Received (signature): <u>[Signature]</u>	Printed Name:	Date:	Time:
Released By (signature): <u>[Signature]</u>	Printed Name:	Date:	Time:	Received (signature): <u>[Signature]</u>	Printed Name: <u>Steve Ten</u>	Date: <u>9/22/97</u>	Time: <u>3:15</u>

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



# Sequoia Analytical

680 Chesapeake Drive  
404 N. Wiget Lane  
819 Striker Avenue, Suite 8

Redwood City, CA 94063  
Walnut Creek, CA 94598  
Sacramento, CA 95834

(650) 364-9600  
(510) 988-9600  
(916) 921-9600

FAX (650) 364-9233  
FAX (510) 988-9673  
FAX (916) 921-0100

Blaine Tech Services  
1680 Rogers Avenue  
San Jose, CA 95112  
Attention: Fran Thie

Project: Shell Oakland/970919-A1

Enclosed are the results from samples received at Sequoia Analytical on September 22, 1997.  
The requested analyses are listed below:

<u>SAMPLE #</u>	<u>SAMPLE DESCRIPTION</u>	<u>DATE COLLECTED</u>	<u>TEST METHOD</u>
9709E18 -01	LIQUID, S1	09/19/97	TPHD_W Extractable TPH
9709E18 -01	LIQUID, S1	09/19/97	TPGM2W Purgeable TPH/BTEX
9709E18 -02	LIQUID, S2	09/19/97	TPHD_W Extractable TPH
9709E18 -02	LIQUID, S2	09/19/97	TPGM2W Purgeable TPH/BTEX
9709E18 -03	LIQUID, S3	09/19/97	TPHD_W Extractable TPH
9709E18 -03	LIQUID, S3	09/19/97	TPGM2W Purgeable TPH/BTEX
9709E18 -04	LIQUID, EB	09/19/97	TPHD_W Extractable TPH
9709E18 -04	LIQUID, EB	09/19/97	TPGM2W Purgeable TPH/BTEX
9709E18 -05	LIQUID, DUP	09/19/97	TPHD_W Extractable TPH
9709E18 -05	LIQUID, DUP	09/19/97	TPGM2W Purgeable TPH/BTEX

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

**SEQUOIA ANALYTICAL**

  
Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970919-A1 Sample Descript: S1 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9709E18-01	Sampled: 09/19/97 Received: 09/22/97 Extracted: 09/29/97 Analyzed: 09/30/97 Reported: 10/06/97
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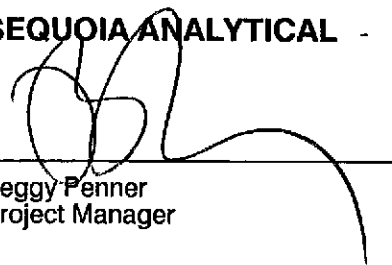
QC Batch Number: GC0929970HBPEXC  
Instrument ID: GCHP4A

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	120 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50                      150	87

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager







Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970919-A1 Sample Descript: S1 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9709E18-01	Sampled: 09/19/97 Received: 09/22/97  Analyzed: 10/03/97 Reported: 10/06/97
Attention: Fran Thie		

QC Batch Number: GC100397BTEX06A  
Instrument ID: GCHP06

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	37
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	99

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell Oakland/970919-A1 Sample Descript: S2 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9709E18-02	Sampled: 09/19/97 Received: 09/22/97 Extracted: 09/30/97 Analyzed: 10/02/97 Reported: 10/06/97
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QC Batch Number: GC0925970HBPEXZ  
Instrument ID: GCHP4B

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	11000 C9-C24
Surrogates	Control Limits %	% Recovery
n-Pentacosane (C25)	50                      150	98

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970919-A1 Sample Descript: S2 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9709E18-02	Sampled: 09/19/97 Received: 09/22/97  Analyzed: 10/02/97 Reported: 10/06/97
Attention: Fran Thie		

QC Batch Number: GC100297BTEX03A  
Instrument ID: GCHP03

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10000	21000
Methyl t-Butyl Ether	500	11000
Benzene	100	2300
Toluene	100	120
Ethyl Benzene	100	500
Xylenes (Total)	100	110
Chromatogram Pattern:		C6-C12
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	108

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell Oakland/970919-A1 Sample Descript: S3 Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9709E18-03	Sampled: 09/19/97 Received: 09/22/97 Extracted: 09/30/97 Analyzed: 10/01/97 Reported: 10/06/97
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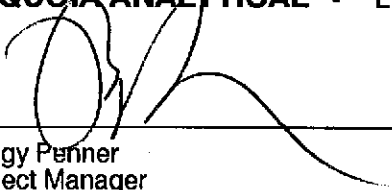
QC Batch Number: GC0925970HBPEXZ  
Instrument ID: GCHP4A

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	260 C9-C24
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
n-Pentacosane (C25)	50 150	115

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970919-A1 Sample Descript: S3 Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9709E18-03	Sampled: 09/19/97 Received: 09/22/97  Analyzed: 10/02/97 Reported: 10/06/97
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QC Batch Number: GC100297BTEX03A  
Instrument ID: GCHP03

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
<b>Methyl t-Butyl Ether</b>	<b>2.5</b>	<b>4.3</b>
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70                      130	93

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Renner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell Oakland/970919-A1 Sample Descript: EB Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9709E18-04	Sampled: 09/19/97 Received: 09/22/97 Extracted: 09/30/97 Analyzed: 10/01/97 Reported: 10/06/97
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QC Batch Number: GC0925970HBPEXZ  
Instrument ID: GCHP4A

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	N.D.
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
n-Pentacosane (C25)	50 150	93

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970919-A1 Sample Descript: EB Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9709E18-04	Sampled: 09/19/97 Received: 09/22/97  Analyzed: 10/03/97 Reported: 10/06/97
Attention: Fran Thie		

QC Batch Number: GC100397BTEX06A  
Instrument ID: GCHP06

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	106

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager





Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell Oakland/970919-A1 Sample Descript: DUP Matrix: LIQUID Analysis Method: EPA 8015 Mod Lab Number: 9709E18-05	Sampled: 09/19/97 Received: 09/22/97 Extracted: 09/30/97 Analyzed: 10/01/97 Reported: 10/06/97
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QC Batch Number: GC0925970HBPEXZ  
Instrument ID: GCHP4A

**Total Extractable Petroleum Hydrocarbons (TEPH)**

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel Chromatogram Pattern:	50	290 C9-C24
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
n-Pentacosane (C25)	50 150	107

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL** - ELAP #1210

  
Peggy Penner  
Project Manager







Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112	Client Proj. ID: Shell Oakland/970919-A1 Sample Descript: DUP Matrix: LIQUID Analysis Method: 8015Mod/8020 Lab Number: 9709E18-05	Sampled: 09/19/97 Received: 09/22/97 Analyzed: 10/02/97 Reported: 10/06/97
Attention: Fran Thie		

QC Batch Number: GC100297BTEX03A  
Instrument ID: GCHP03

**Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE**

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	5.2
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		
<b>Surrogates</b>	<b>Control Limits %</b>	<b>% Recovery</b>
Trifluorotoluene	70 130	94

Analytes reported as N.D. were not present above the stated limit of detection.

**SEQUOIA ANALYTICAL - ELAP #1210**

  
Peggy Penner  
Project Manager





Blaine Tech Services, Inc.  
1680 Rogers Ave.  
San Jose, CA 95112  
Attention: Fran Thie

Client Project ID: Shell Oakland / 970919-A1  
Matrix: Liquid

Work Order #: 9709E18 -01-02, 04

Reported: Oct 6, 1997

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC100397BTEX06A	GC100397BTEX06A	GC100397BTEX06A	GC100397BTEX06A	GC100397BTEX06A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Porter	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	9709D0302	9709D0302	9709D0302	9709D0302	9709D0302
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/3/97	10/3/97	10/3/97	10/3/97	10/3/97
Analyzed Date:	10/3/97	10/3/97	10/3/97	10/3/97	10/3/97
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	7.3	7.8	8.4	25	60
MS % Recovery:	73	78	84	83	100
Dup. Result:	7.5	8.0	8.7	26	63
MSD % Recov.:	75	80	87	87	105
RPD:	2.7	2.5	3.5	3.9	4.9
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK100397	BLK100397	BLK100397	BLK100397	BLK100397
Prepared Date:	10/3/97	10/3/97	10/3/97	10/3/97	10/3/97
Analyzed Date:	10/3/97	10/3/97	10/3/97	10/3/97	10/3/97
Instrument I.D.#:	GCHP6	GCHP6	GCHP6	GCHP6	GCHP6
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	7.4	7.9	8.6	25	53
LCS % Recov.:	74	79	86	83	88

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

**Please Note:**

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

\*\* MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9709E18.BLA <1>

**SEQUOIA ANALYTICAL**

Peggy Penner  
Project Manager





Blaine Tech Services, Inc.  
1680 Rogers Ave.  
San Jose, CA 95112  
Attention: Fran Thie

Client Project ID: Shell Oakland / 970919-A1  
Matrix: Liquid

Work Order #: 9709E18-03, 05

Reported: Oct 6, 1997

**QUALITY CONTROL DATA REPORT**

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Gas
QC Batch#:	GC100297BTEX03A	GC100297BTEX03A	GC100297BTEX03A	GC100297BTEX03A	GC100297BTEX03A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015M
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 5030

Analyst:	A. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab	A. Miraftab
MS/MSD #:	9709H1402	9709H1402	9709H1402	9709H1402	9709H1402
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.
Prepared Date:	10/2/97	10/2/97	10/2/97	10/2/97	10/2/97
Analyzed Date:	10/2/97	10/2/97	10/2/97	10/2/97	10/2/97
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
Result:	8.8	8.7	8.8	25	44
MS % Recovery:	88	87	88	83	73
Dup. Result:	8.9	8.8	8.9	25	44
MSD % Recov.:	89	88	89	83	73
RPD:	1.1	1.1	1.1	0.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-25

LCS #:	BLK100297	BLK100297	BLK100297	BLK100297	BLK100297
Prepared Date:	10/2/97	10/2/97	10/2/97	10/2/97	10/2/97
Analyzed Date:	10/2/97	10/2/97	10/2/97	10/2/97	10/2/97
Instrument I.D.#:	GCHP3	GCHP3	GCHP3	GCHP3	GCHP3
Conc. Spiked:	10 µg/L	10 µg/L	10 µg/L	30 µg/L	60 µg/L
LCS Result:	9.0	8.9	9.0	25	68
LCS % Recov.:	90	89	90	83	113

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130
Control Limits					

**SEQUOIA ANALYTICAL**

Peggy Panner  
Project Manager

**Please Note:**

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

\*\* MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9709E18.BLA <2>





Blaine Tech Services, Inc.  
1680 Rogers Ave.  
San Jose, CA 95112  
Attention: Fran Thie

Client Project ID: Shell Oakland / 970919-A1  
Matrix: Liquid

Work Order #: 9709E18-01

Reported: Oct 6, 1997

**QUALITY CONTROL DATA REPORT**

**Analyte:** Diesel  
**QC Batch#:** GC0925970HBPEXZ  
**Analy. Method:** EPA 8015M  
**Prep. Method:** EPA 3520

**Analyst:** G. Fish  
**MS/MSD #:** 9709D3702  
**Sample Conc.:** 1900  
**Prepared Date:** 9/25/97  
**Analyzed Date:** 9/28/97  
**Instrument I.D.#:** GCHP4  
**Conc. Spiked:** 1000 µg/L

**Result:** 2800  
**MS % Recovery:** 90

**Dup. Result:** 3100  
**MSD % Recov.:** 120

**RPD:** 10  
**RPD Limit:** 0-50

**LCS #:** BLK093097  
**Prepared Date:** 9/30/97  
**Analyzed Date:** 10/1/97  
**Instrument I.D.#:** GCHP4  
**Conc. Spiked:** 1000 µg/L

**LCS Result:** 780  
**LCS % Recov.:** 78

**MS/MSD** 50-150  
**LCS** 60-140  
**Control Limits**

**SEQUOIA ANALYTICAL**  
  
Peggy Penner  
Project Manager

**Please Note:**  
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.





Blaine Tech Services, Inc.  
1680 Rogers Ave.  
San Jose, CA 95112  
Attention: Fran Thie

Client Project ID: Shell Oakland / 970919-A1  
Matrix: Liquid

Work Order #: 9709E18-02-05

Reported: Oct 6, 1997

**QUALITY CONTROL DATA REPORT**

**Analyte:** Diesel

**QC Batch#:** GC0925970HBPEXC  
**Analy. Method:** EPA 8015M  
**Prep. Method:** EPA 3510

**Analyst:** G. Fish  
**MS/MSD #:** 9709D6302  
**Sample Conc.:** N.D.  
**Prepared Date:** 9/23/97  
**Analyzed Date:** 9/26/97  
**Instrument I.D.#:** GCHP5  
**Conc. Spiked:** 1000 µg/L

**Result:** 850  
**MS % Recovery:** 85

**Dup. Result:** 1100  
**MSD % Recov.:** 110

**RPD:** 26  
**RPD Limit:** 0-50

**LCS #:** BLK093097

**Prepared Date:** 9/30/97  
**Analyzed Date:** 10/1/97  
**Instrument I.D.#:** GCHP4  
**Conc. Spiked:** 1000 µg/L

**LCS Result:** 780  
**LCS % Recov.:** 78

**MS/MSD** 50-150  
**LCS** 60-140  
**Control Limits**

**SEQUOIA ANALYTICAL**

Peggy Penner  
Project Manager

**Please Note:**

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\*\* MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference

9709E18.BLA <4>





**Sequoia  
Analytical**

680 Chesapeake Drive  
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819 Striker Avenue, Suite 8

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(510) 988-9600  
(916) 921-9600

FAX (650) 364-9233  
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Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell Oakland/970919-A1	Received: 09/22/97
	Lab Proj. ID: 9709E18	Reported: 10/06/97

**LABORATORY NARRATIVE**

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 16 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

**SEQUOIA ANALYTICAL**

*[Handwritten Signature]*  
Peggy Penner  
Project Manager

ENVIRONMENTAL  
PROTECTION  
97 DEC 23 AM 3:41





SHELL OIL PRODUCTS COMPANY

CALIFORNIA WATER QUARTERLY REPORT  
CALIFORNIA REGIONAL WATER QUALITY CONTROL

SAN FRANCISCO BAY

Fourth Quarter 1997

# 3714  
PC

WIC# 204-5510-0204  
350 Grand Ave.  
City of Oakland  
County of Alameda

98 JAN 16 AM 11:01  
PRODUCTION

**Remedial Action Status:**

No remedial activities are planned for this site.

**Actions planned next 3 months:**

This site is currently monitored semi-annually in the first and third quarters.

Soil Contamination Defined?	No
Soil Cleanup in Progress?	No
Free Product Plume Defined?	NA
Free Product Cleanup in Progress?	NA
Dissolved Constituent Plume Defined?	No

Contractor: **Cambria Environmental Technology, Inc.**

NA = Not applicable.

1/13/98

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



PE

SHELL OIL PRODUCTS COMPANY  
CALIFORNIA WATER QUARTERLY REPORT  
CALIFORNIA REGIONAL WATER QUALITY CONTROL  
SAN FRANCISCO BAY

Fourth Quarter 1997

WIC# 204-5510-0204  
350 Grand Ave.  
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Free Product Cleanup in Progress?	NA
Dissolved Constituent Plume Defined?	No

Contractor: **Cambria Environmental Technology, Inc.**

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NA = Not applicable.

3/4/98

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