CAMBRIA

December 13, 2000

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

#3646

Re: **Third Quarter 2000 Monitoring Report**
Shell-branded Service Station
540 Hegenberger Road
Oakland, California
Incident #98995752
Cambria Project #242-0414-002

Dear Mr. Chan:

On behalf of Equiva Services LLC (Equiva), Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

THIRD QUARTER 2000 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California collected dissolved oxygen (DO) measurements, gauged water levels, sampled the monitoring wells using the non-purging method, calculated groundwater elevations, and compiled the analytical data. Cambria prepared a groundwater elevation contour map (Figure 1). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

Interim Remedial Action: Beginning in June, 2000, vacuum truck operations were optimized to include extraction and treatment of soil vapors in addition to dissolved-phase hydrocarbons. As a means of source removal and potential contaminant migration control, Cambria will continue to coordinate monthly dual-vacuum extraction events through the end of the fourth quarter 2000. Purge data and hydrocarbon mass removal calculations are presented in Tables 1 and 2.

Soil and Groundwater Investigation: Cambria's May 8 and May 15, 2000 investigation work plans were conditionally approved by the Alameda County Health Care Services Agency in a June 19, 2000 letter to Equiva. Cambria conducted the proposed investigation and well installation on August 29, 2000. A report summarizing investigation activities and analytical results is forthcoming.

ENVIRONMENTAL PROTECTION

Why wasn't MW-4 Sampled on 9/5/00 ?

Oakland, CA
San Ramon, CA
Sonoma, CA

Cambria Environmental Technology, Inc.

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

ANTICIPATED FOURTH QUARTER 2000 ACTIVITIES

Groundwater Monitoring: Blaine will collect DO measurements, gauge water levels, sample the monitoring wells (including the new well MW-4) using the non-purging method, and tabulate the data. Cambria will prepare a monitoring report.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Darryk Ataide at (510) 420-3339 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Darryk Ataide, REA I
Project Manager

REGISTERED GEOLOGIST
STEPHAN A. BORK
No. EG 2058
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

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

Figure: 1 - Groundwater Elevation Contour Map

Tables: 1 - Groundwater Extraction - Mass Removal Data
2 - Vapor Extraction - Mass Removal Data

Attachments: A - Blaine Groundwater Monitoring Report and Field Notes
B - Vapor Analytical Data

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91510-7869

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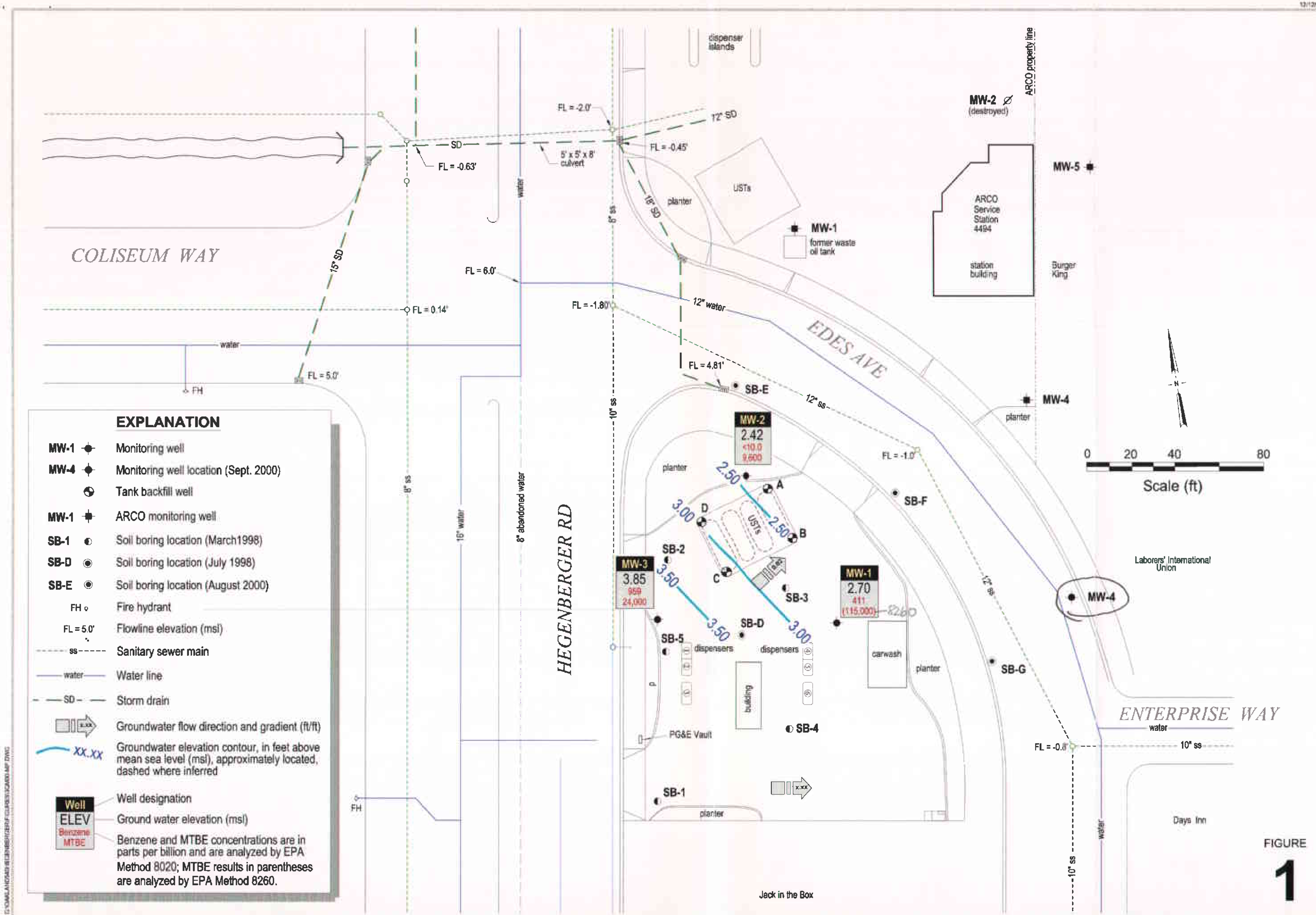
COLISEUM WAY
HEGENBERGER RD
EDES AVE
ENTERPRISE WAY
dispenser islands
FL = -2.0'
12" SD
SD
FL = -0.45'
FL = -0.63'
5' x 5' x 8' culvert
15" SD
18" SD
USTs
planter
MW-1
former waste oil tank
MW-2 (destroyed)
ARCO property line
MW-5
ARCO Service Station 4494
station building
Burger King
FL = 6.0'
FL = 0.14'
FL = -1.80'
12" water
FL = 4.81'
SB-E
12" ss
water
FL = 5.0'
FH
8" ss
10" ss
15" water
8" abandoned water
MW-4
planter
FL = -1.0'
MW-2
2.42
<10.0
9,600
2.50
3.00
A
B
C
D
SB-F
SB-2
MW-3
3.85
959
24,000
3.50
SB-3
MW-1
2.70
411
(115,000)
MW-4
Laborers' International Union
SB-D
SB-5
dispensers
carwash
planter
SB-G
building
SB-4
PG&E Vault
FL = -0.8'
10" ss
SB-1
planter
Days Inn
Jack in the Box
0 20 40 80
Scale (ft)
EXPLANATION
MW-1 Monitoring well
MW-4 Monitoring well location (Sept. 2000)
Tank backfill well
MW-1 ARCO monitoring well
SB-1 Soil boring location (March1998)
SB-D Soil boring location (July 1998)
SB-E Soil boring location (August 2000)
FH Fire hydrant
FL = 5.0' Flowline elevation (msl)
ss Sanitary sewer main
water Water line
SD Storm drain
Groundwater flow direction and gradient (ft/ft)
XX.XX Groundwater elevation contour, in feet above mean sea level (msl), approximately located, dashed where inferred
Well Well designation
ELEV Ground water elevation (msl)
Benzene MTBE Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8020; MTBE results in parentheses are analyzed by EPA Method 8260.

FIGURE 1

Groundwater Elevation Contour Map

September 5, 2000

CAMBRIA

Shell-branded Service Station
540 Hegenberger Road
Oakland, California
Incident #98995752

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
					TPPH			Benzene			MTBE		
07/29/99	BW-A	400	400	06/22/99	318	0.00106	0.00106	< 0.50	< 0.00000	< 0.00000	4,470	0.01492	0.01492
08/04/99	BW-A	2,000	2,400	06/22/99	318	0.00531	0.00637	< 0.50	< 0.00001	< 0.00001	4,470	0.07460	0.08952
08/11/99	BW-A	2,437	4,837	06/22/99	318	0.00647	0.01284	< 0.50	< 0.00001	< 0.00002	4,470	0.09090	0.18042
08/20/99	BW-A	1,213	6,050	06/22/99	318	0.00322	0.01605	< 0.50	< 0.00001	< 0.00003	4,470	0.04524	0.22566
08/30/99	BW-A	2,673	8,723	06/22/99	318	0.00709	0.02315	< 0.50	< 0.00001	< 0.00004	4,470	0.09970	0.32536
09/03/99*	BW-A	325	9,048	06/22/99	318	0.00086	0.02401	< 0.50	< 0.00000	< 0.00004	4,470	0.01212	0.33748
09/10/99*	BW-A	425	9,148	06/22/99	318	0.00113	0.02514	< 0.50	< 0.00000	< 0.00004	4,470	0.01585	0.35334
09/23/99	BW-A	615	9,763	06/22/99	318	0.00163	0.02677	< 0.50	< 0.00000	< 0.00004	4,470	0.02294	0.37628
09/29/99	BW-A	800	10,563	06/22/99	318	0.00212	0.02889	< 0.50	< 0.00000	< 0.00005	4,470	0.02984	0.40611
11/05/99	BW-A	675	11,238	06/22/99	318	0.00179	0.03068	< 0.50	< 0.00000	< 0.00005	4,470	0.02518	0.43129
07/29/99	BW-B	1,000	1,000	06/22/99	< 250	< 0.00209	< 0.00209	< 2.5	< 0.00002	< 0.00002	8,600	0.07176	0.07176
08/04/99	BW-B	800	1,800	06/22/99	< 250	< 0.00167	< 0.00375	< 2.5	< 0.00002	< 0.00210	8,600	0.05741	0.12917
08/11/99	BW-B	2,213	4,013	06/22/99	< 250	< 0.00462	< 0.00837	< 2.5	< 0.00005	< 0.00380	8,600	0.15881	0.28798
08/20/99	BW-B	1,213	5,226	06/22/99	< 250	< 0.00253	< 0.01090	< 2.5	< 0.00003	< 0.00840	8,600	0.08705	0.37503
08/30/99	BW-B	877	6,103	06/22/99	< 250	< 0.00183	< 0.01273	< 2.5	< 0.00002	< 0.01092	8,600	0.06293	0.43796
09/03/99*	BW-B	325	6,428	06/22/99	< 250	< 0.00068	< 0.01341	< 2.5	< 0.00001	< 0.01274	8,600	0.02332	0.46128
09/10/99*	BW-B	425	6,853	06/22/99	< 250	< 0.00089	< 0.01430	< 2.5	< 0.00001	< 0.01342	8,600	0.03050	0.49178
09/23/99	BW-B	750	7,603	06/22/99	< 250	< 0.00156	< 0.01586	< 2.5	< 0.00002	< 0.01431	8,600	0.05382	0.54560
09/29/99	BW-B	600	8,203	06/22/99	< 250	< 0.00125	< 0.01711	< 2.5	< 0.00001	< 0.01587	8,600	0.04306	0.58866
11/05/99	BW-B	650	8,853	06/22/99	< 250	< 0.00136	< 0.01847	< 2.5	< 0.00001	< 0.01713	8,600	0.04664	0.63530
07/29/99	BW-C	300	300	06/22/99	< 50	< 0.00013	< 0.00013	< 0.50	< 0.00000	< 0.00000	11,000	0.02754	0.02754
08/04/99	BW-C	700	1,000	06/22/99	< 50	< 0.00029	< 0.00042	< 0.50	< 0.00000	< 0.00000	11,000	0.06425	0.09179
08/11/99	BW-C	0	1,000	06/22/99	< 50	< 0.00000	< 0.00042	< 0.50	< 0.00000	< 0.00000	11,000	0.00000	0.09179
08/20/99	BW-C	1,013	2,013	06/22/99	< 50	< 0.00042	< 0.00084	< 0.50	< 0.00000	< 0.00001	11,000	0.09298	0.18477
08/30/99	BW-C	375	2,388	06/22/99	< 50	< 0.00016	< 0.00100	< 0.50	< 0.00000	< 0.00001	11,000	0.03442	0.21919
09/03/99*	BW-C	325	2,713	06/22/99	< 50	< 0.00014	< 0.00113	< 0.50	< 0.00000	< 0.00001	11,000	0.02983	0.24902
09/10/99*	BW-C	425	3,138	06/22/99	< 50	< 0.00018	< 0.00131	< 0.50	< 0.00000	< 0.00001	11,000	0.03901	0.28803

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
					TPPH			Benzene				MTBE	
09/23/99	BW-C	750	3,888	06/22/99	< 50	< 0.00031	< 0.00162	< 0.50	< 0.00000	< 0.00002	11,000	0.06884	0.35687
09/29/99	BW-C	700	4,588	06/22/99	< 50	< 0.00029	< 0.00191	< 0.50	< 0.00000	< 0.00002	11,000	0.06425	0.42112
11/05/99	BW-C	550	5,138	06/22/99	< 50	< 0.00023	< 0.00214	< 0.50	< 0.00000	< 0.00002	11,000	0.05048	0.47161
06/06/00	BW-C	926	6,064	06/22/99	< 50	< 0.00039	< 0.00253	< 0.50	< 0.00000	< 0.00003	11,000	0.08500	0.55660
09/07/00	BW-C	1,000	7,064	06/22/99	< 50	< 0.00042	< 0.00295	< 0.50	< 0.00000	< 0.00003	11,000	0.09179	0.64839
07/29/99	BW-D	1,500	1,500	06/22/99	< 50	< 0.00063	< 0.00063	< 0.500	< 0.00001	< 0.00001	2,190	0.02741	0.02741
08/04/99	BW-D	250	1,750	06/22/99	< 50	< 0.00010	< 0.00073	< 0.500	< 0.00000	< 0.00001	2,190	0.00457	0.03198
08/11/99	BW-D	0	1,750	06/22/99	< 50	< 0.00000	< 0.00073	< 0.500	< 0.00000	< 0.00001	2,190	0.00000	0.03198
08/20/99	BW-D	1,213	2,963	06/22/99	< 50	< 0.00051	< 0.00124	< 0.500	< 0.00001	< 0.00001	2,190	0.02217	0.05415
08/30/99	BW-D	280	3,243	06/22/99	< 50	< 0.00012	< 0.00135	< 0.500	< 0.00000	< 0.00001	2,190	0.00512	0.05926
09/03/99*	BW-D	325	3,568	06/22/99	< 50	< 0.00014	< 0.00149	< 0.500	< 0.00000	< 0.00001	2,190	0.00594	0.06520
09/10/99*	BW-D	425	3,993	06/22/99	< 50	< 0.00018	< 0.00167	< 0.500	< 0.00000	< 0.00002	2,190	0.00777	0.07297
09/23/99	BW-D	750	4,743	06/22/99	< 50	< 0.00031	< 0.00198	< 0.500	< 0.00000	< 0.00002	2,190	0.01371	0.08667
09/29/99	BW-D	700	5,443	06/22/99	< 50	< 0.00029	< 0.00227	< 0.500	< 0.00000	< 0.00002	2,190	0.01279	0.09947
11/05/99	BW-D	625	6,068	06/22/99	< 50	< 0.00026	< 0.00253	< 0.500	< 0.00000	< 0.00003	2,190	0.01142	0.11089
07/29/99	MW-1	150	150	06/22/99	20,000	0.02503	0.02503	100	0.00013	0.00013	150,000	0.18775	0.18775
08/04/99	MW-1	150	300	06/22/99	20,000	0.02503	0.05007	100	0.00013	0.00025	150,000	0.18775	0.37550
08/11/99	MW-1	15	315	06/22/99	20,000	0.00250	0.05257	100	0.00001	0.00026	150,000	0.01877	0.39427
08/20/99	MW-1	44	359	06/22/99	20,000	0.00734	0.05991	100	0.00004	0.00030	150,000	0.05507	0.44934
08/30/99	MW-1	218	577	06/22/99	20,000	0.03638	0.09629	100	0.00018	0.00048	150,000	0.27286	0.72220
09/03/99*	MW-1	125	702	06/22/99	20,000	0.02086	0.11715	100	0.00010	0.00059	150,000	0.15646	0.87866
09/10/99*	MW-1	75	777	06/22/99	20,000	0.01252	0.12967	100	0.00006	0.00065	150,000	0.09387	0.97253
09/23/99	MW-1	175	952	06/22/99	20,000	0.02921	0.15888	100	0.00015	0.00079	150,000	0.21904	1.19157
09/29/99	MW-1	50	1,002	06/22/99	20,000	0.00834	0.16722	100	0.00004	0.00084	150,000	0.06258	1.25416
11/05/99	MW-1	50	1,052	09/30/99	< 2,500	< 0.00104	< 0.16826	< 25.0	< 0.00001	< 0.00085	30,900	0.01289	1.26705
11/19/99	MW-1	22.5	1,075	09/30/99	< 2,500	< 0.00047	< 0.16873	< 25.0	< 0.00000	< 0.00085	30,900	0.00580	1.27285
11/24/99	MW-1	25	1,100	09/30/99	< 2,500	< 0.00052	< 0.16925	< 25.0	< 0.00001	< 0.00086	30,900	0.00645	1.27930

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California

					TPPH			Benzene			MTBE		
Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
12/02/99	MW-1	25	1,125	09/30/99	< 2,500	< 0.00052	< 0.16978	< 25.0	< 0.00001	< 0.00086	30,900	0.00645	1.28574
12/17/99	MW-1	25	1,150	12/10/99	< 50.0	< 0.00001	< 0.16979	29.7	0.00001	< 0.00087	76,300	0.01592	1.30166
01/03/00	MW-1	40	1,190	12/10/99	< 50.0	< 0.00002	< 0.16980	29.7	0.00001	< 0.00088	76,300	0.02547	1.32713
01/07/00	MW-1	0	1,190	12/10/99	< 50.0	< 0.00000	< 0.16980	29.7	0.00000	< 0.00088	76,300	0.00000	1.32713
01/13/00	MW-1	45	1,235	12/10/99	< 50.0	< 0.00002	< 0.16982	29.7	0.00001	< 0.00089	76,300	0.02865	1.35578
01/12/00	MW-1	35	1,270	12/10/99	< 50.0	< 0.00001	< 0.16984	29.7	0.00001	< 0.00090	76,300	0.02228	1.37806
01/25/00	MW-1	35	1,305	12/10/99	< 50.0	< 0.00001	< 0.16985	29.7	0.00001	< 0.00091	76,300	0.02228	1.40034
02/01/00	MW-1	22	1,327	12/10/99	< 50.0	< 0.00001	< 0.16986	29.7	0.00001	< 0.00091	76,300	0.01401	1.41435
02/11/00	MW-1	28	1,355	12/10/99	< 50.0	< 0.00001	< 0.16987	29.7	0.00001	< 0.00092	76,300	0.01783	1.43218
02/15/00	MW-1	25	1,380	12/10/99	< 50.0	< 0.00001	< 0.16988	29.7	0.00001	< 0.00092	76,300	0.01592	1.44809
02/23/00	MW-1	20	1,400	12/10/99	< 50.0	< 0.00001	< 0.16989	29.7	0.00000	< 0.00093	76,300	0.01273	1.46083
03/02/00	MW-1	7.5	1,407	03/02/00	< 2,500	< 0.00016	< 0.17005	< 25.0	< 0.00000	< 0.00093	27,600	0.00173	1.46255
03/10/00	MW-1	40	1,447	03/02/00	< 2,500	< 0.00083	< 0.17088	< 25.0	< 0.00001	< 0.00094	27,600	0.00921	1.47177
03/15/00	MW-1	25	1,472	03/02/00	< 2,500	< 0.00052	< 0.17140	< 25.0	< 0.00001	< 0.00094	27,600	0.00576	1.47752
03/21/00	MW-1	25	1,497	03/02/00	< 2,500	< 0.00052	< 0.17193	< 25.0	< 0.00001	< 0.00095	27,600	0.00576	1.48328
03/27/00	MW-1	30	1,527	03/02/00	< 2,500	< 0.00063	< 0.17255	< 25.0	< 0.00001	< 0.00096	27,600	0.00691	1.49019
04/07/00	MW-1	45	1,572	03/02/00	< 2,500	< 0.00094	< 0.17349	< 25.0	< 0.00001	< 0.00097	27,600	0.01036	1.50056
04/13/00	MW-1	30	1,602	03/02/00	< 2,500	< 0.00063	< 0.17412	< 25.0	< 0.00001	< 0.00097	27,600	0.00691	1.50746
04/20/00	MW-1	25	1,627	03/02/00	< 2,500	< 0.00052	< 0.17464	< 25.0	< 0.00001	< 0.00098	27,600	0.00576	1.51322
04/26/00	MW-1	25	1,652	03/02/00	< 2,500	< 0.00052	< 0.17516	< 25.0	< 0.00001	< 0.00098	27,600	0.00576	1.51898
05/04/00	MW-1	28	1,680	03/02/00	< 2,500	< 0.00058	< 0.17574	< 25.0	< 0.00001	< 0.00099	27,600	0.00645	1.52543
05/09/00	MW-1	45	1,725	03/02/00	< 2,500	< 0.00094	< 0.17668	< 25.0	< 0.00001	< 0.00100	27,600	0.01036	1.53579
05/17/00	MW-1	27	1,752	03/02/00	< 2,500	< 0.00056	< 0.17724	< 25.0	< 0.00001	< 0.00100	27,600	0.00622	1.54201
05/22/00	MW-1	25	1,777	03/02/00	< 2,500	< 0.00052	< 0.17777	< 25.0	< 0.00001	< 0.00101	27,600	0.00576	1.54777
06/01/00	MW-1	25	1,802	03/02/00	< 2,500	< 0.00052	< 0.17829	< 25.0	< 0.00001	< 0.00101	27,600	0.00576	1.55353
06/06/00	MW-1	175	1,977	03/02/00	< 2,500	< 0.00365	< 0.18194	< 25.0	< 0.00004	< 0.00105	27,600	0.04030	1.59383
06/08/00	MW-1	43	2,020	03/02/00	< 2,500	< 0.00090	< 0.18284	< 25.0	< 0.00001	< 0.00106	27,600	0.00990	1.60373
06/15/00	MW-1	29	2,049	06/08/00	< 2,000	< 0.00048	< 0.18332	< 20.0	< 0.00000	< 0.00106	**67,600**	0.01636	1.62009

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
					TPPH			**Benzene**			**MTBE**		
07/10/00	MW-1	169	2,218	06/08/00	< 2,000	< 0.00282	< 0.18614	< 20.0	< 0.00003	< 0.00109	**67,600**	0.09533	1.71542
09/07/00	MW-1	100	2,318	09/05/00	< 10,000	< 0.00834	< 0.19448	411	0.00034	< 0.00144	71,100 (B20) *58115,000 (B260)	0.05933	1.77475
07/29/99	MW-3	100	100	06/22/99	58,000	0.04840	0.04840	6,600	0.00551	0.00551	**653,000**	0.54489	0.54489
08/04/99	MW-3	100	200	06/22/99	58,000	0.04840	0.09679	6,600	0.00551	0.01101	**653,000**	0.54489	1.08977
08/11/99	MW-3	45	245	06/22/99	58,000	0.02178	0.11857	6,600	0.00248	0.01349	**653,000**	0.24520	1.33497
08/20/99	MW-3	55	300	06/22/99	58,000	0.02662	0.14519	6,600	0.00303	0.01652	**653,000**	0.29969	1.63466
08/30/99	MW-3	77	377	06/22/99	58,000	0.03727	0.18246	6,600	0.00424	0.02076	**653,000**	0.41956	2.05422
09/03/99*	MW-3	50	427	06/22/99	58,000	0.02420	0.20666	6,600	0.00275	0.02352	**653,000**	0.27244	2.32667
09/10/99*	MW-3	40	467	06/22/99	58,000	0.01936	0.22602	6,600	0.00220	0.02572	**653,000**	0.21795	2.54462
09/23/99	MW-3	10	477	06/22/99	58,000	0.00484	0.23085	6,600	0.00055	0.02627	**653,000**	0.05449	2.59911
09/29/99	MW-3	50	527	06/22/99	58,000	0.02420	0.25505	6,600	0.00275	0.02902	**653,000**	0.27244	2.87155
11/05/99	MW-3	50	577	09/30/99	4,360	0.00182	0.25687	121	0.00005	0.02907	**35,600**	0.01485	2.88640
11/19/99	MW-3	22.5	600	09/30/99	4,360	0.00082	0.25769	121	0.00002	0.02910	**35,600**	0.00668	2.89309
11/24/99	MW-3	28	628	09/30/99	4,360	0.00102	0.25871	121	0.00003	0.02912	**35,600**	0.00832	2.90141
12/02/99	MW-3	25	653	09/30/99	4,360	0.00091	0.25962	121	0.00003	0.02915	**35,600**	0.00743	2.90883
12/17/99	MW-3	35	688	12/10/99	4,220	0.00123	0.26085	973	0.00028	0.02943	**88,200**	0.02576	2.93459
01/03/00	MW-3	40	728	12/10/99	4,220	0.00141	0.26226	973	0.00032	0.02976	**88,200**	0.02944	2.96403
01/07/00	MW-3	0	728	12/10/99	4,220	0.00000	0.26226	973	0.00000	0.02976	**88,200**	0.00000	2.96403
01/13/00	MW-3	45	773	12/10/99	4,220	0.00158	0.26385	973	0.00037	0.03012	**88,200**	0.03312	2.99715
01/21/00	MW-3	35	808	12/10/99	4,220	0.00123	0.26508	973	0.00028	0.03041	**88,200**	0.02576	3.02291
01/25/00	MW-3	38	846	12/10/99	4,220	0.00134	0.26642	973	0.00031	0.03072	**88,200**	0.02797	3.05088
02/01/00	MW-3	23	869	12/10/99	4,220	0.00081	0.26723	973	0.00019	0.03090	**88,200**	0.01693	3.06780
02/11/00	MW-3	22	891	12/10/99	4,220	0.00077	0.26800	973	0.00018	0.03108	**88,200**	0.01619	3.08399
02/15/00	MW-3	22	913	12/10/99	4,220	0.00077	0.26877	973	0.00018	0.03126	**88,200**	0.01619	3.10019
02/23/00	MW-3	30	943	12/10/99	4,220	0.00106	0.26983	973	0.00024	0.03150	**88,200**	0.02208	3.12226
03/02/00	MW-3	7	950	03/02/00	65,300	0.00381	0.27365	5,210	0.00030	0.03181	**59,800**	0.00349	3.12576
03/10/00	MW-3	42	992	03/02/00	65,300	0.02289	0.29653	5,210	0.00183	0.03363	**59,800**	0.02096	3.14672
03/15/00	MW-3	20	1,012	03/02/00	65,300	0.01090	0.30743	5,210	0.00087	0.03450	**59,800**	0.00998	3.15670

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
					TPPH			**Benzene**			**MTBE**		
03/21/00	MW-3	25	1,037	03/02/00	65,300	0.01362	0.32105	5,210	0.00109	0.03559	**59,800**	0.01247	3.16917
03/27/00	MW-3	40	1,077	03/02/00	65,300	0.02180	0.34285	5,210	0.00174	0.03733	**59,800**	0.01996	3.18913
04/07/00	MW-3	45	1,122	03/02/00	65,300	0.02452	0.36737	5,210	0.00196	0.03929	**59,800**	0.02245	3.21158
04/13/00	MW-3	30	1,152	03/02/00	65,300	0.01635	0.38371	5,210	0.00130	0.04059	**59,800**	0.01497	3.22655
04/20/00	MW-3	25	1,177	03/02/00	65,300	0.01362	0.39733	5,210	0.00109	0.04168	**59,800**	0.01247	3.23903
04/26/00	MW-3	30	1,207	03/02/00	65,300	0.01635	0.41368	5,210	0.00130	0.04298	**59,800**	0.01497	3.25400
05/04/00	MW-3	26	1,233	03/02/00	65,300	0.01417	0.42785	5,210	0.00113	0.04411	**59,800**	0.01297	3.26697
05/09/00	MW-3	45	1,278	03/02/00	65,300	0.02452	0.45237	5,210	0.00196	0.04607	**59,800**	0.02245	3.28943
05/17/00	MW-3	27	1,305	03/02/00	65,300	0.01471	0.46708	5,210	0.00117	0.04724	**59,800**	0.01347	3.30290
05/22/00	MW-3	25	1,330	03/02/00	65,300	0.01362	0.48070	5,210	0.00109	0.04833	**59,800**	0.01247	3.31537
06/01/00	MW-3	25	1,355	03/02/00	65,300	0.01362	0.49432	5,210	0.00109	0.04942	**59,800**	0.01247	3.32785
06/06/00	MW-3	240	1,595	03/02/00	65,300	0.13077	0.62510	5,210	0.01043	0.05985	**59,800**	0.11976	3.44761
06/08/00	MW-3	42	1,637	03/02/00	65,300	0.02289	0.64798	5,210	0.00183	0.06168	**59,800**	0.02096	3.46857
06/15/00	MW-3	29	1,666	06/08/00	72,700	0.01759	0.66557	3,570	0.00086	0.06254	44,400	0.01074	3.47931
07/10/00	MW-3	101	1,767	06/08/00	72,700	0.06127	# 0.72684	3,570	0.00301	0.06555	44,400	0.03742	3.51673
09/07/00	MW-3	265	2,032	09/05/00	26,100	0.05771	# 0.78456	959	0.00212	0.06767	24,000	0.05307	3.56980
Total Gallons Extracted:		**37,898**			**Total Pounds Removed:**		**< 1.03367**			**< 0.06939**			**7.17042**
					Total Gallons Removed:		**< 0.16945**			**< 0.00951**			**1.15652**

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California

					TPPH			Benzene			MTBE		
Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)

Abbreviations & Notes:

TPPH = Total purgeable hydrocarbons as gasoline
MtBE = Methyl tert-butyl ether
µg/L = Micrograms per liter
ppb = Parts per billion, equivalent to µg/L
L = Liter
gal = Gallon
g = Gram
* = Ground water extracted per well estimated; subcontractor did not report individual well volumes
Mass removed based on the formula: volume extracted (gal) x Concentration (µg/L) x (g/10^6µg) x (pound/453.6g) x (3.785 L/gal)
Volume removal data based on the formula: density (in gms/cc) x 9.339 (ccxlbs/gmsxgals)
TPPH, benzene analyzed by EPA Method 8015/8020
MTBE analyzed by EPA Method 8260 in bold font, all other MTBE analyzed by EPA Method 8020
Concentrations based on most recent groundwater monitoring results
Groundwater extracted by vacuum trucks provided by ACTI. Water disposed of at a Martinez Refinery.

Table 2: Vapor Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California

Date	Well ID	Interval Hours of Operation (hours)	System Flow Rate (CFM)	Hydrocarbon Concentrations TPHg (Concentrations in ppmv)	Benzene	MTBE	TPHg Removal Rate (#/hour)	TPHg Cumulative TPHg Removed (#)	Benzene Removal Rate (#/hour)	Benzene Cumulative Benzene Removed (#)	MTBE Removal Rate (#/hour)	MTBE Cumulative MTBE Removed (#)
							TPHg			**Benzene**		**MTBE**
06/06/00	MW-1	3.63	12.76	4.4	0.192	20.7	0.001	0.003	0.000	0.000	0.004	0.013
07/10/00	MW-1	3.00	11	< 28	< 0.31	30	< 0.004	< 0.015	< 0.000	< 0.000	0.005	0.027
09/07/00	MW-1	2.00	2.4	25.4	2.51	138	0.001	< 0.017	0.000	< 0.000	0.005	0.036
06/06/00	MW-3	5.67	9.35	1,371	27.6	32	0.171	0.972	0.003	0.018	0.004	0.023
07/10/00	MW-3	2.00	11	564	8.9	76	0.083	1.137	0.001	0.020	0.011	0.046
09/07/00	MW-3	3.92	4.7	2,832	109	244	0.178	1.835	0.006	0.044	0.016	0.108
Total Pounds Removed:							**TPHg = < 1.852**		**Benzene = < 0.045**		**MTBE = 0.143**	

Abbreviations and Notes:

CFM = Cubic feet per minute

TPHg = Total petroleum hydrocarbons as gasoline (C6-C12) by modified EPA Method 8015 in 1 liter tedlar bag samples

ppmv = Parts per million by volume

= Pounds

NA = Not available

TPHG, Benzene, and MTBE analyzed by EPA Method 8015/8020 in 1 liter tedlar bag samples

TPHg / Benzene / MTBE removal rate = Rate based on Bay Area Air Quality Management District's Manual of Procedures for Soil Vapor Extraction dated July 17, 1991.
(Rate = Concentration (ppmv) x system flow rate (cfm) x (1lb-mole/386ft3) x molecular weight (86 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene, 88 lb/lb-mole for MTBE) x 60 min/hour x 1/1,000,000)

Cumulative TPHg / Benzene / MTBE removal = Previous removal rate multiplied by the hour-interval of operation plus the previous total

ATTACHMENT A

Blaine Groundwater Monitoring Report and Field Notes

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
www.blainetech.com

October 3, 2000

Karen Petryna
Equiva Services LLC
P.O. Box 7869
Burbank, CA 91510-7869

Third Quarter 2000 Groundwater Monitoring at
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA

Monitoring performed on September 5, 2000

Groundwater Monitoring Report **000905-R-2**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

Deidre Kerwin
Operations Manager

DK/jt

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Anni Kreml
Cambria Environmental Technology, Inc.
1144 65th Street
Oakland, CA 94608-2411

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA
WIC #204-5508-5900

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1 (a)	08/26/1998	2,700	28	55	59	39	33,000	NA	10.54	7.91	2.63	1.8
MW-1 (b)	08/26/1998	<1,000	22	<10	<10	<10	17,000	NA	10.54	7.91	2.63	2.2
MW-1	12/28/1998	<5,000	<50.0	<50.0	<50.0	<50.0	153,000	33,000	10.54	8.75	1.79	1.9
MW-1	03/29/1999	<2,000	<20.0	<20.0	<20.0	<20.0	693,000	NA	10.54	8.32	2.22	2.0
MW-1	06/22/1999	20,000	<200	<200	<200	<200	150,000	NA	10.54	9.05	1.49	1.7
MW-1	09/30/1999	<2,500	<25.0	<25.0	<25.0	<25.0	30,900	NA	10.54	8.35	2.19	2.6
MW-1	11/19/1999	NA	NA	NA	NA	NA	NA	NA	10.54	9.58	0.96	NA
MW-1	11/24/1999	NA	NA	NA	NA	NA	NA	NA	10.54	9.65	0.89	NA
MW-1	12/02/1999	NA	NA	NA	NA	NA	NA	NA	10.54	9.55	0.99	NA
MW-1	12/10/1999	<50.0	29.7	<20.0	<20.0	<20.0	76,300	NA	10.54	8.86	1.68	1.2
MW-1	03/02/2000	<2,500	<25.0	<25.0	<25.0	<25.0	27,600	NA	10.54	8.83	1.71	3.2
MW-1	06/08/2000	<2,000	<20.0	<20.0	<20.0	<20.0	59,000	67,600	10.54	7.78	2.76	1.9
MW-1	**09/05/2000**	**<10,000**	**411**	**<100**	**<100**	**<100**	**71,100**	**115,000e**	**10.54**	**7.84**	**2.70**	**NA**
MW-2 (a)	08/26/1998	<250	3.2	<2.5	<2.5	<2.5	4,000	NA	9.21	7.18	2.03	2.4
MW-2 (b)	08/26/1998	<250	3.1	<2.5	<2.5	<2.5	4,800	NA	9.21	7.18	2.03	2.7
MW-2 (D)(b)	08/26/1998	<250	4.8	<2.5	<2.5	6.0	3,300	NA	9.21	7.18	2.03	2.7
MW-2	12/28/1998	<50.0	<0.500	<0.500	<0.500	<0.500	28.8	NA	9.21	7.34	1.87	2.1
MW-2	03/29/1999	235	<0.500	<0.500	<0.500	3.4	101	NA	9.21	6.85	2.36	2.0
MW-2	06/22/1999	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	9.21	7.10	2.11	1.9
MW-2	09/30/1999	<50.0	<0.500	<0.500	<0.500	<0.500	1,700	NA	9.21	8.06	1.15	1.0
MW-2	12/10/1999	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	9.21	8.61	0.60	1.4
MW-2	03/02/2000	<500	11.5	<5.00	<5.00	<5.00	5,280	NA	9.21	6.33	2.88	0.4
MW-2	06/08/2000	<50.0	0.670	<0.500	<0.500	<0.500	3,160	NA	9.21	6.87	2.34	1.6
MW-2	**09/05/2000**	**<1,000**	**<10.0**	**<10.0**	**<10.0**	**<10.0**	**9,600**	**NA**	**9.21**	**6.79**	**2.42**	**NA**

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA
WIC #204-5508-5900

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-3 (a)	08/26/1998	2,300	180	330	<0.50	420	44,000	NA	9.45	6.52	2.93	1.8
MW-3 (b)	08/26/1998	<50	<0.50	<0.50	<0.50	<0.50	52,000	75,000	9.45	6.52	2.93	2.3
MW-3	12/28/1998	<5,00	139	<50.0	<50.0	<50.0	15,100	NA	9.45	6.73	2.72	1.7
MW-3	03/29/1999	52,500	5,500	6,900	1,360	6,250	508,000	630,000 (c)	9.45	6.21	3.24	2.1
MW-3	06/22/1999	58,000	6,600	9,850	1,640	6,950	677,000	653,000	9.45	7.00	2.45	1.3
MW-3	09/30/1999	4,360	121	122	36.1	647	33,700	35,600	9.45	6.84	2.61	0.6
MW-3	11/19/1999	NA	NA	NA	NA	NA	NA	NA	9.45	7.93	1.52	NA
MW-3	11/24/1999	NA	NA	NA	NA	NA	NA	NA	9.45	8.25	1.20	NA
MW-3	12/02/1999	NA	NA	NA	NA	NA	NA	NA	9.45	7.55	1.90	NA
MW-3	12/10/1999	4,220	973	26.3	273	584	88,200	NA	9.45	7.28	2.17	2.5
MW-3	03/02/2000	65,300	5,210	10,300	2,650	15,100	56,800	59,800e	9.45	5.87	3.58	d
MW-3	06/08/2000	72,700	3,570	10,200	2,100	13,400	44,400	NA	9.45	5.32	4.13	1.1
MW-3	**09/05/2000**	**26,100**	**959**	**2,910**	**1,090**	**5,640**	**24,000**	**NA**	**9.45**	**5.60**	**3.85**	**NA**
A	06/22/1999	318	<0.50	<0.50	0.590	1.48	4,470	NA	NA	4.71	NA	1.1
B	06/22/1999	<250	<2.5	<2.5	<2.5	<2.5	8,600	NA	NA	5.90	NA	1.2
C	06/22/1999	<50	<0.50	<0.50	<0.50	0.98	11,000	NA	NA	5.91	NA	1.6
D	06/22/1999	<50.0	<0.500	<0.500	<0.500	<0.500	2,190	NA	NA	4.78	NA	1.4

WELL CONCENTRATIONS
Shell-branded Service Station
540 Hegenberger Road
Oakland, CA
WIC #204-5508-5900

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8020

MTBE = methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

GW = Groundwater

DO = Dissolved Oxygen

ppm = parts per million

ug/L = parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

NA = Not applicable

Notes:

a = pre-purge

b = post purge

c = Lab confirmed MTBE by mistake. MTBE value at MW-1 should have been confirmed instead.

d = DO reading not taken.

e = Sample was analyzed outside of the EPA recommended holding time.

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
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FAX (408) 782-6308
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26 September, 2000

Nick Sudano
Blaine Tech Services (Shell)
1680 Rogers Avenue
San Jose, CA 95112

RE: 540 Hegenberger Rd.
Sequoia Report: MJI0101

Enclosed are the results of analyses for samples received by the laboratory on 09/06/00 12:08. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for Ted Terrasas
Project Manager

CA ELAP Certificate #1210

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
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Blaine Tech Services (Shell)	Project: 540 Hegenberger Rd.	
1680 Rogers Avenue	Project Number: 540 Hegenberger Rd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	09/26/00 18:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MJI0101-01	Water	09/05/00 15:11	09/06/00 12:08
MW-2	MJI0101-02	Water	09/05/00 14:25	09/06/00 12:08
MW-3	MJI0101-03	Water	09/05/00 15:59	09/06/00 12:08

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

for

Ted Terrasas, Project Manager

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Blaine Tech Services (Shell)	Project: 540 Hegenberger Rd.	
1680 Rogers Avenue	Project Number: 540 Hegenberger Rd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	09/26/00 18:17

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

8020

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MJI0101-01) Water Sampled: 09/05/00 15:11 Received: 09/06/00 12:08									
Purgeable Hydrocarbons	ND	10000	ug/l	200	0115003	09/15/00	09/15/00	DHS LUFT	R-05
Benzene	**411**	100	"	"	"	"	"	"	R-05
Toluene	ND	100	"	"	"	"	"		R-05
Ethylbenzene	ND	100	"	"	"	"	"	"	R-05
Xylenes (total)	ND	100	"	"	"	"	"	"	R-05
Methyl tert-butyl ether	**71100**	2500	"	1000	"	"	09/18/00	"	M-03,R-05
Surrogate: a,a,a-Trifluorotoluene		*90.9 %*		*70-130*		"	"	*09/15/00*	"
MW-2 (MJI0101-02) Water Sampled: 09/05/00 14:25 Received: 09/06/00 12:08									
Purgeable Hydrocarbons	ND	1000	ug/l	20	0115003	09/15/00	09/15/00	DHS LUFT	R-05
Benzene	ND	10.0	"	"	"	"	"	"	R-05
Toluene	ND	10.0	"	"	"	"	"	"	R-05
Ethylbenzene	ND	10.0	"	"	"	"	"	"	R-05
Xylenes (total)	ND	10.0	"	"	"	"	"	"	R-05
Methyl tert-butyl ether	**9600**	250	"	100	"	"	09/18/00	"	M-03
Surrogate: a,a,a-Trifluorotoluene		*89.2 %*		*70-130*		"	"	*09/15/00*	"
MW-3 (MJI0101-03) Water Sampled: 09/05/00 15:59 Received: 09/06/00 12:08									
Purgeable Hydrocarbons	**26100**	5000	ug/l	100	0115003	09/15/00	09/15/00	DHS LUFT	P-01
Benzene	**959**	50.0	"	"	"	"	"	"	
Toluene	**2910**	50.0	"	"	"	"	"	"	
Ethylbenzene	**1090**	50.0	"	"	"	"	"	"	
Xylenes (total)	**5640**	50.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**24000**	250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95.7 %*		*70-130*		"	"	"	"

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Blaine Tech Services (Shell)	Project: 540 Hegenberger Rd.	
1680 Rogers Avenue	Project Number: 540 Hegenberger Rd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	09/26/00 18:17

MTBE Confirmation by EPA Method 8260A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MJI0101-01) Water Sampled: 09/05/00 15:11 Received: 09/06/00 12:08									
Methyl tert-butyl ether	**115000**	5000	ug/l	5000	0I25006	09/22/00	09/22/00	EPA 8260A	H-02
Surrogate: 1,2-Dichloroethane-d4		*103 %*		*70-130*		"	"	"	*H-02*

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Blaine Tech Services (Shell)	Project: 540 Hegenberger Rd.	
1680 Rogers Avenue	Project Number: 540 Hegenberger Rd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	09/26/00 18:17

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0I15003 - EPA 5030B [P/T]										
Blank (0I15003-BLK1)				Prepared & Analyzed: 09/15/00						
Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
Surrogate: a,a,a-Trifluorotoluene	*8.78*		"	*10.0*		*87.8*	*70-130*			
LCS (0I15003-BS1)				Prepared & Analyzed: 09/15/00						
Benzene	9.62	0.500	ug/l	10.0		96.2	70-130			
Toluene	8.57	0.500	"	10.0		85.7	70-130			
Ethylbenzene	8.95	0.500	"	10.0		89.5	70-130			
Xylenes (total)	26.7	0.500	"	30.0		89.0	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.06*		"	*10.0*		*90.6*	*70-130*			
Matrix Spike (0I15003-MS1)		**Source: MJI0160-01**		Prepared & Analyzed: 09/15/00						
Benzene	9.32	0.500	ug/l	10.0	ND	93.2	60-140			
Toluene	8.56	0.500	"	10.0	ND	85.6	60-140			
Ethylbenzene	8.86	0.500	"	10.0	ND	88.6	60-140			
Xylenes (total)	26.2	0.500	"	30.0	ND	87.3	60-140			
Surrogate: a,a,a-Trifluorotoluene	*8.97*		"	*10.0*		*89.7*	*70-130*			
Matrix Spike Dup (0I15003-MSD1)		**Source: MJI0160-01**		Prepared & Analyzed: 09/15/00						
Benzene	9.91	0.500	ug/l	10.0	ND	99.1	60-140	6.14	25	
Toluene	9.00	0.500	"	10.0	ND	90.0	60-140	5.01	25	
Ethylbenzene	9.40	0.500	"	10.0	ND	94.0	60-140	5.91	25	
Xylenes (total)	27.2	0.500	"	30.0	ND	90.7	60-140	3.75	25	
Surrogate: a,a,a-Trifluorotoluene	*9.42*		"	*10.0*		*94.2*	*70-130*			

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Blaine Tech Services (Shell)	Project: 540 Hegenberger Rd.	
1680 Rogers Avenue	Project Number: 540 Hegenberger Rd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	09/26/00 18:17

MTBE Confirmation by EPA Method 8260A - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0I25006 - EPA 5030B [P/T]										
Blank (0I25006-BLK1)				Prepared & Analyzed: 09/22/00						
Methyl tert-butyl ether	ND	1.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*9.32*		"	*10.0*		*93.2*	*70-130*			
LCS (0I25006-BS1)				Prepared & Analyzed: 09/22/00						
Methyl tert-butyl ether	9.19	1.00	ug/l	10.0		91.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	*10.1*		"	*10.0*		*101*	*70-130*			
Matrix Spike (0I25006-MS1)		**Source: MJI0189-03**		Prepared & Analyzed: 09/22/00						
Methyl tert-butyl ether	96.6	10.0	ug/l	100	ND	96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	*12.8*		"	*10.0*		*128*	*70-130*			
Matrix Spike Dup (0I25006-MSD1)		**Source: MJI0189-03**		Prepared & Analyzed: 09/22/00						
Methyl tert-butyl ether	96.4	10.0	ug/l	100	ND	96.4	70-130	0.207	25	
Surrogate: 1,2-Dichloroethane-d4	*12.7*		"	*10.0*		*127*	*70-130*			

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Blaine Tech Services (Shell)	Project: 540 Hegenberger Rd.	
1680 Rogers Avenue	Project Number: 540 Hegenberger Rd.	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	09/26/00 18:17

Notes and Definitions

H-02	This sample was analyzed outside of EPA recommended hold time.
M-03	Sample was analyzed at a second dilution per clients request.
P-01	Chromatogram Pattern: Gasoline C6-C12
R-05	The reporting limit(s) for this sample have been raised due to high levels of non-target interferents.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY 000905-R-2

CLIENT: Equiva - Karen Petryna

SITE: 540 Hegenberger Road
Oakland, CA

MJI0101

C = COMPOSITE ALL CONTAINERS

CONDUCT ANALYSIS TO DETECT

LAB: SEQUOIA

DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ RWQCB REGION ____
☐ LIA
☐ OTHER 704-5508-5900

SPECIAL INSTRUCTIONS

MJI0101

Send invoice to Equiva

Incident # 98995752

Send report to Blaine Tech Services, Inc.

ATTN: Nick Sudano

	DATE	TIME	MATRIX S=SOIL W=H_2O	CONTAINERS TOTAL		C	TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
01 MW-1	9/6/00	1511	W	3	9 VOA HCl		✓	✓				Confirm	highest	8260	01
02 MW-2	↓	1425	↓	3	VOA		✓	✓				MTBE by			02
03 MW-3		1559	↓	3	↓		✓	✓							03

9-6-12 DG

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY
	9/6/00	1600	Jared

RESULTS NEEDED NO LATER THAN: standard

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	9/6/00	9:00		9/6/00	9:00
	9/6/00			9/6/00	12:00
	DATE	TIME		DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

WELL GAUGING DATA

Project # 000905-R2 Date 9/5/00 Client Equiva

Site 540 Hegenberger Oakland

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	
2 MW-1	2	grease w/		stinger	in	7.84	24.27	TOC	
1 MW-2	2					6.79	19.51	TOC	
3 MW-3	2	grease w/		stinger	in	5.60	19.32	TOC	

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000905 -R2	Site: 540 Hegenberger
Sampler: Jared	Date: 9/5/00
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.32	Depth to Water: 5.60
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

Bailer
Disposable Bailer
~~Middleburg~~
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other _____

Sampling Method: (Bailer)

Disposable Bailer
Extraction Port
Dedicated Tubing
Other: _____

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
(2")	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

2.2 (Gals.) X _____ = 6.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1533	71.6	7.9	980 NS	7500	2.5	odor/water
1545	70.6	7.5	924	80	5.0	
1545	70.8	7.5	1170	85	~5	
1558	71.0	7.5	1140	75	10	

Did well dewater? Yes (No) Gallons actually evacuated: 10

Sampling Time: ~~1440~~ ~~1450~~ 1559 Sampling Date: 9/5/00

Sample I.D.: MW-3 Laboratory: (Sequoia) Columbia Other _____

Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/l	Post-purge:	mg/l
ORP (if req'd):	Pre-purge:	mV	Post-purge:	mV

ATTACHMENT B

Vapor Analytical Data

Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

July 13, 2000

Owen Ratchye
Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland, CA 94608

RE: Equiva/P007150

Dear Owen Ratchye

Enclosed are the results of analyses for sample(s) received by the laboratory on July 11, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Richard Stover
Project Manager

CA ELAP Certificate Number 2374

Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Cambria Environmental - Oakland	Project:	Equiva	Sampled: 7/10/00
1144 65th St., Suite C	Project Number:	540 Hegenberger, Oakland	Received: 7/11/00
Oakland, CA 94608	Project Manager:	Owen Ratchye	Reported: 7/13/00

ANALYTICAL REPORT FOR P007150

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	P007150-01	Air	7/10/00
MW-3	P007150-02	Air	7/10/00

Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Cambria Environmental - Oakland	Project:	Equiva	Sampled: 7/10/00
1144 65th St., Suite C	Project Number:	540 Hegenberger, Oakland	Received: 7/11/00
Oakland, CA 94608	Project Manager:	Owen Ratchye	Reported: 7/13/00

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1			**P007150-01**				**Air**	
Gasoline	0070223	7/12/00	7/12/00		100	ND	ug/l	
Benzene	"	"	"		1.00	ND	"	
Toluene	"	"	"		1.00	ND	"	
Ethylbenzene	"	"	"		1.00	ND	"	
Xylenes (total)	"	"	"		1.00	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	**107**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*105*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*94.0*	"	
MW-3			**P007150-02**				**Air**	
Gasoline	0070223	7/12/00	7/12/00		1000	**2000**	ug/l	
Benzene	"	"	"		10.0	**28.3**	"	
Toluene	"	"	"		10.0	**64.8**	"	
Ethylbenzene	"	"	"		10.0	**15.9**	"	
Xylenes (total)	"	"	"		10.0	**59.6**	"	
Methyl tert-butyl ether	"	"	"		50.0	**274**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*103*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*95.0*	"	

Sequoia Analytical

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Petaluma, CA 94954
(707) 792-1865
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www.sequoialabs.com

Cambria Environmental - Oakland	Project:	Equiva	Sampled: 7/10/00
1144 65th St., Suite C	Project Number:	540 Hegenberger, Oakland	Received: 7/11/00
Oakland, CA 94608	Project Manager:	Owen Ratchye	Reported: 7/13/00

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0070223	**Date Prepared: 7/12/00**					**Extraction Method: EPA 5030 waters**				
Blank	**0070223-BLK1**									
Gasoline	7/12/00			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**2.50**				
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*294*	"	*65.0-135*	*98.0*			
Surrogate: 4-Bromofluorobenzene	"	*300*		*264*	"	*65.0-135*	*88.0*			
LCS	**0070223-BS1**									
Gasoline	7/12/00	1000		902	ug/l	65.0-135	90.2			
Surrogate: 4-Bromofluorobenzene	"	*300*		*283*	"	*65.0-135*	*94.3*			
Matrix Spike	**0070223-MS1**		**P007126-01**							
Gasoline	7/12/00	1000	ND	878	ug/l	65.0-135	**87.8**			
Surrogate: 4-Bromofluorobenzene	"	*300*		*276*	"	*65.0-135*	*92.0*			
Matrix Spike Dup	**0070223-MSD1**		**P007126-01**							
Gasoline	7/12/00	1000	ND	866	ug/l	65.0-135	**86.6**	20.0	**1.38**	
Surrogate: 4-Bromofluorobenzene	"	*300*		*276*	"	*65.0-135*	*92.0*			

Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

Cambria Environmental - Oakland	Project:	Equiva	Sampled:	7/10/00
1144 65th St., Suite C	Project Number:	540 Hegenberger, Oakland	Received:	7/11/00
Oakland, CA 94608	Project Manager:	Owen Ratchye	Reported:	7/13/00

Notes and Definitions

#	Note
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: ______

Date: 7/10/00
Page 1 of 1

Site Address: 540 Hegenberger, Oakland
Incident # 98995752

Shell Engineer: Karen Petryna
Phone No.:
Fax #:

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

Consultant Contact: Darryk Ataide
Phone No.: 510 420-0700
Fax #: 420-9170

Comments:

Sampled by: [signature]

Printed Name: JASON OLSON

LAB: SEQUOIA

CHECK ONE (1) BOX ONLY	CT/DT
G.W. Monitoring [ ]	4461
Site Investigation [ ]	4441
Soil Classify/Disposal [ ]	4442
Water Classify/Disposal [ ]	4443
Soil/Air Rem. or Sys. O & M [X]	4452
Water Rem. or Sys. O & M [ ]	4453
Other [ ]	

TURN AROUND TIME
24 hours [ ]
48 hours [X]
16 days [ ] (Normal)
Other [ ] ______

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

UST AGENCY: ______

Analysis Required

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602) / MTBE	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW-1	7/10				X	2	X		X										P007150-01	48 HOUR TURN
MW-3	↓				X	2	X		X										↓ -02	

Relinquished By (signature):	Printed Name:	Date: / Time:	Received (signature):	Printed Name:	Date: / Time:
[signature]	JASON OLSON	Date: Time:	[signature]	C. Mainaris	Date: 7-11-00 Time: 1230
[signature]	C. Mainaris	Date: 7-11-00 Time: 1230	[signature]	GAIL HERRMANN	Date: 7/11/00 Time: 1230
		Date: Time:			Date: Time:

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

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612
www.sequoialabs.com

October 12, 2000

Darryk Ataid
Cambria Environmental
1144 65th St., Suite C.
Oakland, CA 94608

RE: Shell (2)/L009043

Dear Darryk Ataid

Enclosed are the results of analyses for sample(s) received by the laboratory on September 8, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Latonya K. Pelt for

Wayne Stevenson
Project Manager

CA ELAP Certificate Number I2360

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612
www.sequoialabs.com

Cambria Environmental	Project:	Shell (2)	Sampled:	9/7/00
1144 65th St., Suite C.	Project Number:	540 Hegenberger, Oakland	Received:	9/8/00
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported:	10/12/00

ANALYTICAL REPORT FOR L009043

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	L009043-01	Air	9/7/00
MW-3	L009043-02	Air	9/7/00

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612
www.sequoialabs.com

Cambria Environmental	Project:	Shell (2)	Sampled: 9/7/00
1144 65th St., Suite C.	Project Number:	540 Hegenberger, Oakland	Received: 9/8/00
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 10/12/00

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT
Sequoia Analytical - San Carlos

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1			**L009043-01**				**Air**	
Purgeable Hydrocarbons as Gasoline	0090037	9/8/00	9/8/00		25.0	**89.6**	ug/l	1
Benzene	"	"	"		0.250	**7.99**	"	
Toluene	"	"	"		0.250	**6.56**	"	
Ethylbenzene	"	"	"		0.250	**3.20**	"	
Xylenes (total)	"	"	"		0.250	**13.7**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*60.0-140*		*109*	%	
MW-3			**L009043-02**				**Air**	
Purgeable Hydrocarbons as Gasoline	0090037	9/8/00	9/8/00		2500	**10000**	ug/l	1
Benzene	"	"	"		25.0	**347**	"	
Toluene	"	"	"		25.0	**330**	"	
Ethylbenzene	"	"	"		25.0	**111**	"	
Xylenes (total)	"	"	"		25.0	**413**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*60.0-140*		*109*	%	

Sequoia Analytical

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San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612
www.sequoialabs.com

Cambria Environmental	Project:	Shell (2)	Sampled: 9/7/00
1144 65th St., Suite C.	Project Number:	540 Hegenberger, Oakland	Received: 9/8/00
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 10/12/00

MTBE by EPA Method 8260B
Sequoia Analytical - San Carlos

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1			**L009043-01**				**Air**	
Methyl tert-butyl ether	0090034	9/8/00	9/8/00		20.0	**495**	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*103*	%	
MW-3			**L009043-02**				**Air**	
Methyl tert-butyl ether	0090034	9/8/00	9/8/00		20.0	**878**	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*97.4*	%	

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1144 65th St., Suite C.	Project Number:	540 Hegenberger, Oakland	Received: 9/8/00
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 10/12/00

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0090037	**Date Prepared: 9/8/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0090037-BLK1**									
Purgeable Hydrocarbons as Gasoline	9/8/00			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.4*	"	*60.0-140*	*104*			
LCS	**0090037-BS1**									
Benzene	9/8/00	10.0		11.0	ug/l	70.0-130	110			
Toluene	"	10.0		10.2	"	70.0-130	102			
Ethylbenzene	"	10.0		10.3	"	70.0-130	103			
Xylenes (total)	"	30.0		31.6	"	70.0-130	105			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*11.3*	"	*60.0-140*	*113*			
LCS	**0090037-BS2**									
Purgeable Hydrocarbons as Gasoline	9/8/00	250		245	ug/l	70.0-130	98.0			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*11.6*	"	*60.0-140*	*116*			
Matrix Spike	**0090037-MS1**		**L008202-06**							
Benzene	9/9/00	10.0	0.645	11.7	ug/l	60.0-140	**111**			
Toluene	"	10.0	4.63	14.7	"	60.0-140	**101**			
Ethylbenzene	"	10.0	0.523	11.0	"	60.0-140	**105**			
Xylenes (total)	"	30.0	1.39	33.6	"	60.0-140	**107**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.3*	"	*60.0-140*	*103*			
Matrix Spike Dup	**0090037-MSD1**		**L008202-06**							
Benzene	9/9/00	10.0	0.645	11.7	ug/l	60.0-140	**111**	25.0	**0**	
Toluene	"	10.0	4.63	14.6	"	60.0-140	**99.7**	25.0	**1.30**	
Ethylbenzene	"	10.0	0.523	10.9	"	60.0-140	**104**	25.0	**0.957**	
Xylenes (total)	"	30.0	1.39	33.4	"	60.0-140	**107**	25.0	**0**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.0*	"	*60.0-140*	*100*			

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Cambria Environmental	Project:	Shell (2)	Sampled: 9/7/00
1144 65th St., Suite C.	Project Number:	540 Hegenberger, Oakland	Received: 9/8/00
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 10/12/00

MTBE by EPA Method 8260B/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0090034	**Date Prepared: 9/7/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0090034-BLK1**									
Methyl tert-butyl ether	9/7/00			**ND**	ug/l	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*53.1*	"	*76.0-114*	*106*			
Blank	**0090034-BLK2**									
Methyl tert-butyl ether	9/8/00			**ND**	ug/l	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*45.5*	"	*76.0-114*	*91.0*			
LCS	**0090034-BS1**									
Methyl tert-butyl ether	9/7/00	50.0		50.1	ug/l	70.0-130	100			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*54.7*	"	*76.0-114*	*109*			
LCS	**0090034-BS2**									
Methyl tert-butyl ether	9/8/00	50.0		50.5	ug/l	70.0-130	101			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*45.2*	"	*76.0-114*	*90.4*			
Matrix Spike	**0090034-MS1**		**L009012-05**							
Methyl tert-butyl ether	9/7/00	50.0	ND	49.2	ug/l	60.0-140	**98.4**			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*52.9*	"	*76.0-114*	*106*			
Matrix Spike Dup	**0090034-MSD1**		**L009012-05**							
Methyl tert-butyl ether	9/7/00	50.0	ND	48.3	ug/l	60.0-140	**96.6**	25.0	**1.85**	
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*50.4*	"	*76.0-114*	*101*			

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Cambria Environmental	Project:	Shell (2)	Sampled:	9/7/00
1144 65th St., Suite C.	Project Number:	540 Hegenberger, Oakland	Received:	9/8/00
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported:	10/12/00

Notes and Definitions

#	Note
1	Chromatogram Pattern: Gasoline C6-C12
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No:

Date: 9/7/00
Page 1 of 1

Service Address: 540 Hegenberger, Oakland
WIC#: Incident # 9999 5752 (009043)
Shell Engineer: Karen Petryna
Phone No.: —
Fax #: —
Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1144 65th St. Suite C, Oakland, CA 94608
Consultant Contact: Darryl Ataide
Phone No.: 510 420-0700
Fax #: 420-9170
Comments: 48 hour TURN
Sampled by: J.O.
Printed Name: JASON olson

Analysis Required

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 By 8260	Asbestos	Container Size	Preparation Used	Composite Y/N
MW-1	9/7				X	2						X	X				
MW-3	9/7				X	2						X	X				

LAB:

CHECK ONE (1) BOX ONLY	C1/D1
G.W. Monitoring	4461
Site Investigation	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 hour [ ], 48 hours [X], 15 days [ ] (Normal), Other [ ]

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

UST AGENCY:

MATERIAL DESCRIPTION

SAMPLE CONDITION/ COMMENTS: 48 hour TURNAROUND

Relinquished By (signature):	Printed Name: JASON olson	Date:	Received (signature):	Printed Name: SCOTT LOAM	Date: 9/8/00
Relinquished By (signature):	Printed Name: JERRY DAVIS	Time:	Received (signature):	Printed Name:	Time: 1000
Relinquished By (signature):	Printed Name:	Date: 9/8	Received (signature):	Printed Name:	Date: 9/8/00
		Time: 1200			Time: 1200
		Date:			Date:
		Time:			Time:

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