

C A M B R I A

September 22, 2000

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

3646

Re: **Second 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.

SECOND 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 second and third quarters of 2000. Purge data and hydrocarbon mass removal calculations are presented in Tables 1 and 2.

Oakland, CA
San Ramon, CA
Sonoma, CA
Portland, OR

**Cambria
Environmental
Technology, Inc.**

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

ANTICIPATED THIRD QUARTER 2000 ACTIVITIES

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

Work Plan Implementation: Cambria's May 8 and May 15, 2000 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.



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

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



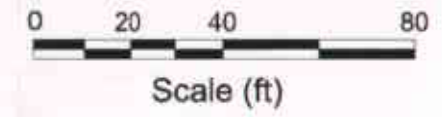
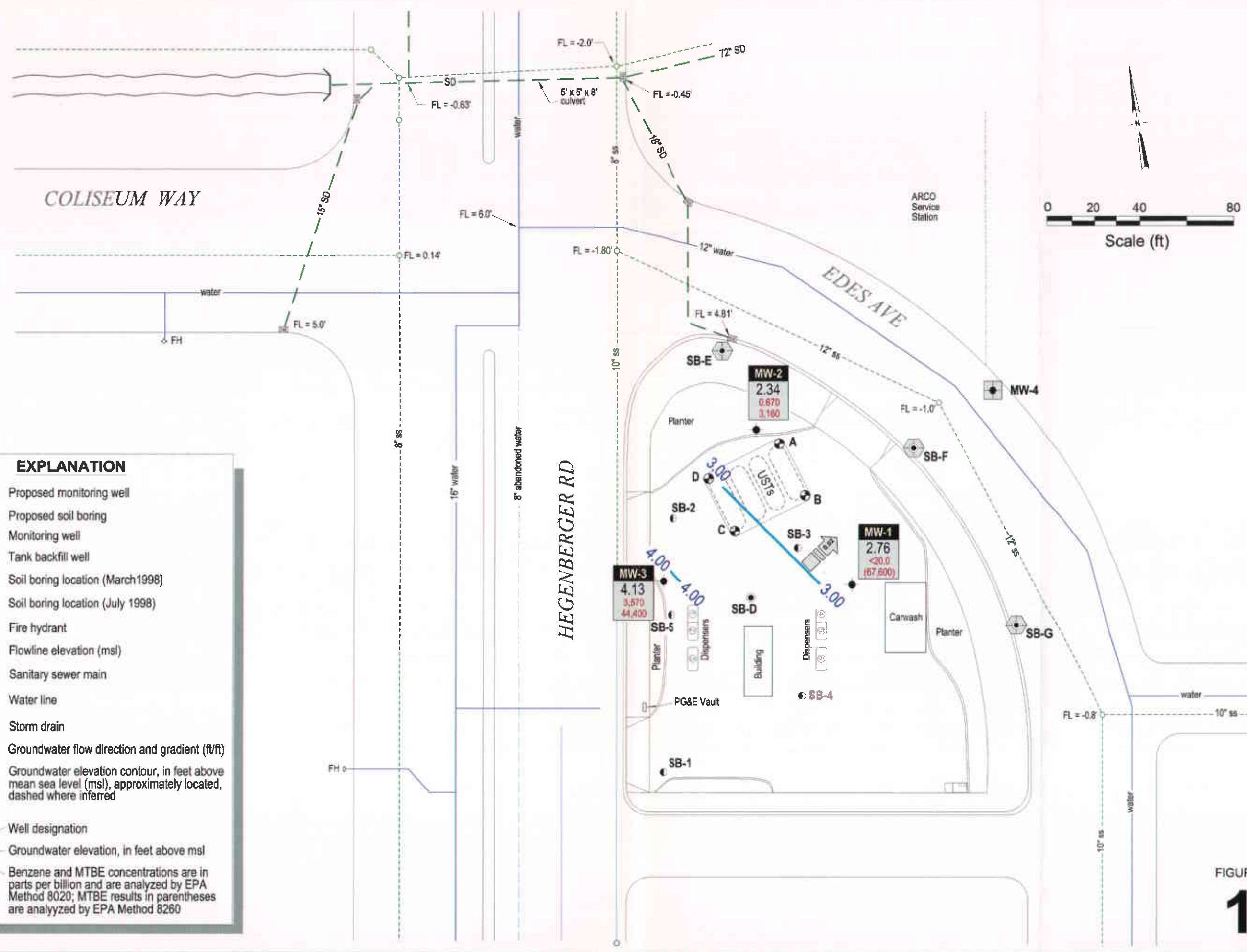
Figure: 1 - Groundwater Elevation Contour Map

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

- MW-4 Proposed monitoring well
- SB-F Proposed soil boring
- MW-1 Monitoring well
- A Tank backfill well
- SB-1 Soil boring location (March 1998)
- SB-D Soil boring location (July 1998)
- 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)
- Groundwater elevation contour, in feet above mean sea level (msl), approximately located, dashed where inferred

Well	Well designation
ELEV	Groundwater elevation, in feet above msl
Benzene	Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8020; MTBE results are analyzed by EPA Method 8260
MTBE	

FIGURE 1

D:\CAMBRIDGE\RECORDS\98995752\FIGURES\DRAWING.MXD DWG

Table 1: Groundwater 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)	Sample Date	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)
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
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

Table 1: Groundwater 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)	Sample Date	TPPH	TPPH	TPPH	Benzene	Benzene	Benzene	MTBE	MTBE	MTBE
					Concentration (ppb)	Removed (pounds)	Removed To Date (pounds)	Concentration (ppb)	Removed (pounds)	Removed To Date (pounds)	Concentration (ppb)	Removed (pounds)	Removed To Date (pounds)
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
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	< 20,000	< 0.00375	< 0.17202	< 25.0	< 0.00000	< 0.00085	30,900	0.00580	1.27285
11/24/99	MW-1	25	1,100	09/30/99	< 20,000	< 0.00417	< 0.17619	< 25.0	< 0.00001	< 0.00086	30,900	0.00645	1.27930
12/02/99	MW-1	25	1,125	09/30/99	< 20,000	< 0.00417	< 0.18036	< 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	< 0.18037	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	< 0.18039	29.7	0.00001	< 0.00088	76,300	0.02547	1.32713

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Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Sample Date	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)
01/07/00	MW-1	0	1,190	12/10/99	< 50.0	< 0.00000	< 0.18039	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	< 0.18041	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	< 0.18042	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	< 0.18044	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	< 0.18045	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	< 0.18046	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	< 0.18047	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	< 0.18048	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	< 0.18063	< 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	< 0.18147	< 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	< 0.18199	< 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	< 0.18251	< 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	< 0.18314	< 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	< 0.18408	< 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	< 0.18470	< 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	< 0.18522	< 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	< 0.18575	< 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	< 0.18633	< 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	< 0.18727	< 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	< 0.18783	< 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	< 0.18835	< 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	< 0.18887	< 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	< 0.19253	< 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	< 0.19342	< 25.0	< 0.00001	< 0.00106	27,600	0.00990	1.60373
06/15/00	MW-1	29	2,049	03/02/00	< 2,500	< 0.00060	< 0.19403	< 25.0	< 0.00001	< 0.00107	27,600	0.00668	1.61041
07/10/00	MW-1	169	2,218	06/15/00	< 2,000	< 0.00282	< 0.19685	< 20.0	< 0.00003	< 0.00109	67,600	0.09533	1.70574
09/07/00	MW-1	100	2,318	06/15/00	< 2,000	< 0.00167	< 0.19852	< 20.0	< 0.00002	< 0.00111	67,600	0.05641	1.76215
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

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Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Sample Date	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)
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	72,400	0.02114	2.92998
01/03/00	MW-3	40	728	12/10/99	4,220	0.00141	0.26226	973	0.00032	0.02976	72,400	0.02417	2.95414
01/07/00	MW-3	0	728	12/10/99	4,220	0.00000	0.26226	973	0.00000	0.02976	72,400	0.00000	2.95414
01/13/00	MW-3	45	773	12/10/99	4,220	0.00158	0.26385	973	0.00037	0.03012	72,400	0.02719	2.98133
01/21/00	MW-3	35	808	12/10/99	4,220	0.00123	0.26508	973	0.00028	0.03041	72,400	0.02114	3.00247
01/25/00	MW-3	38	846	12/10/99	4,220	0.00134	0.26642	973	0.00031	0.03072	72,400	0.02296	3.02543
02/01/00	MW-3	23	869	12/10/99	4,220	0.00081	0.26723	973	0.00019	0.03090	72,400	0.01390	3.03932
02/11/00	MW-3	22	891	12/10/99	4,220	0.00077	0.26800	973	0.00018	0.03108	72,400	0.01329	3.05262
02/15/00	MW-3	22	913	12/10/99	4,220	0.00077	0.26877	973	0.00018	0.03126	72,400	0.01329	3.06591
02/23/00	MW-3	30	943	12/10/99	4,220	0.00106	0.26983	973	0.00024	0.03150	72,400	0.01812	3.08403
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	3.08752
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	3.10848
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	3.11846
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	3.13094
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	3.15090
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	3.17335
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	3.18832
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	3.20079
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	3.21576

Table 1: Groundwater 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)	Sample Date	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)
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	3.22874
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	3.25119
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	3.26467
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	3.27714
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	3.28962
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	3.40937
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	3.43033
06/15/00	MW-3	29	1,666	03/02/00	65,300	0.00000	0.64798	5,210	0.00126	0.06294	59,800	0.01447	3.44480
07/10/00	MW-3	101	1,767	06/15/00	72,700	0.00000	0.64798	3,570	0.00301	0.06595	44,400	0.03742	3.48222
Total Gallons Extracted:		36,633											
<i>all wells</i>													
Total Pounds Removed:					< 0.90071				< 0.06734			6.97845	
Total Gallons Removed:					< 0.14766				< 0.00922			1.12556	

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/10⁶µg) 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

Groundwater extracted by vacuum trucks provided by ACTI. Water disposed of at a Martinez Refinery.

only recently have begun to remove vapor.

CAMBRIA

Table 2: Vapor 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 Removal Rate (#/hour)	Cumulative TPHg Removed (#)	Benzene Removal Rate (#/hour)	Cumulative Benzene Removed (#)	MTBE Removal Rate (#/hour)	Cumulative MTBE Removed (#)
				TPHg	Benzene	MTBE						
				(Concentrations in ppmv)								
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
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
Total Pounds Removed:							TPHg = 1.153	Benzene = 0.020	MTBE = 0.073			

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

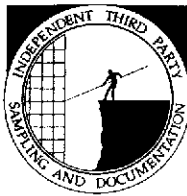
TPHg / Benzene / MTBE removal rate = Rate based on Bay Area Air Quality Management District's Manual of Procedures for Soil Vapor Extraction dated July 17, 1991.

(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

July 13, 2000

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

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

Monitoring performed on June 8, 2000

Groundwater Monitoring Report **000608-Y-1**

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.

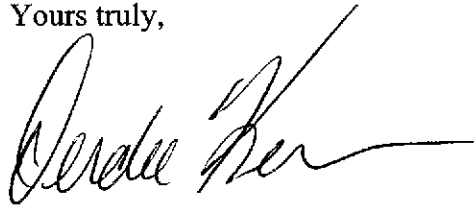
Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

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,

A handwritten signature in black ink, appearing to read "Deidre Kerwin", with a long horizontal flourish extending to the right.

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)
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MW-1 (a)	8/26/98	2,700	28	55	59	39	33,000	NA	10.54	7.91	2.63	1.8
MW-1 (b)	8/26/98	<1,000	22	<10	<10	<10	17,000	NA	10.54	7.91	2.63	2.2
MW-1	12/28/98	<5,000	<50.0	<50.0	<50.0	<50.0	153,000	33,000	10.54	8.75	1.79	1.9
MW-1	3/29/99	<2,000	<20.0	<20.0	<20.0	<20.0	693,000	NA	10.54	8.32	2.22	2.0
MW-1	6/22/99	20,000	<200	<200	<200	<200	150,000	NA	10.54	9.05	1.49	1.7
MW-1	9/30/99	<2,500	<25.0	<25.0	<25.0	<25.0	30,900	NA	10.54	8.35	2.19	2.6
MW-1	11/19/99	NA	NA	NA	NA	NA	NA	NA	10.54	9.58	0.96	NA
MW-1	11/24/99	NA	NA	NA	NA	NA	NA	NA	10.54	9.65	0.89	NA
MW-1	12/2/99	NA	NA	NA	NA	NA	NA	NA	10.54	9.55	0.99	NA
MW-1	12/10/99	<50.0	29.7	<20.0	<20.0	<20.0	76,300	NA	10.54	8.86	1.68	1.2
MW-1	3/2/00	<2,500	<25.0	<25.0	<25.0	<25.0	27,600	NA	10.54	8.83	1.71	3.2
MW-1	6/8/00	<2,000	<20.0	<20.0	<20.0	<20.0	59,000	67,600	10.54	7.78	2.76	1.9

MW-2 (a)	8/26/98	<250	3.2	<2.5	<2.5	<2.5	4,000	NA	9.21	7.18	2.03	2.4
MW-2 (b)	8/26/98	<250	3.1	<2.5	<2.5	<2.5	4,800	NA	9.21	7.18	2.03	2.7
MW-2 (D)(b)	8/26/98	<250	4.8	<2.5	<2.5	6.0	3,300	NA	9.21	7.18	2.03	2.7
MW-2	12/28/98	<50.0	<0.500	<0.500	<0.500	<0.500	28.8	NA	9.21	7.34	1.87	2.1
MW-2	3/29/99	235	<0.500	<0.500	<0.500	3.4	101	NA	9.21	6.85	2.36	2.0
MW-2	6/22/99	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	9.21	7.10	2.11	1.9
MW-2	9/30/99	<50.0	<0.500	<0.500	<0.500	<0.500	1,700	NA	9.21	8.06	1.15	1.0
MW-2	12/10/99	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	9.21	8.61	0.60	1.4
MW-2	3/2/00	<500	11.5	<5.00	<5.00	<5.00	5,280	NA	9.21	6.33	2.88	0.4
MW-2	6/8/00	<500	0.670	<0.500	<0.500	<0.500	3,100	NA	9.21	6.87	2.34	1.6

MW-3 (a)	8/26/98	2,300	180	330	<0.50	420	44,000	NA	9.45	6.52	2.93	1.8
MW-3 (b)	8/26/98	<50	<0.50	<0.50	<0.50	<0.50	52,000	75,000	9.45	6.52	2.93	2.3

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	12/28/98	<5,00	139	<50.0	<50.0	<50.0	15,100	NA	9.45	6.73	2.72	1.7
MW-3	3/29/99	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	6/22/99	58,000	6,600	9,850	1,640	6,950	677,000	653,000	9.45	7.00	2.45	1.3
MW-3	9/30/99	4,360	121	122	36.1	647	33,700	35,600	9.45	6.84	2.61	0.6
MW-3	11/19/99	NA	NA	NA	NA	NA	NA	NA	9.45	7.93	1.52	NA
MW-3	11/24/99	NA	NA	NA	NA	NA	NA	NA	9.45	8.25	1.20	NA
MW-3	12/2/99	NA	NA	NA	NA	NA	NA	NA	9.45	7.55	1.90	NA
MW-3	12/10/99	4,220	973	26.3	273	584	88,200	NA	9.45	7.28	2.17	2.5
MW-3	3/2/00	65,300	5,210	10,300	2,650	15,100	56,800	59,800e	9.45	5.87	3.58	d
MW-3	6/8/00	72,700	5,570	10,200	2,100	3,400	42,400	NA	9.45	6.32	4.13	
A	6/22/99	318	<0.50	<0.50	0.590	1.48	4,470	NA	NA	4.71	NA	1.1
B	6/22/99	<250	<2.5	<2.5	<2.5	<2.5	8,600	NA	NA	5.90	NA	1.2
C	6/22/99	<50	<0.50	<0.50	<0.50	0.98	11,000	NA	NA	5.91	NA	1.6
D	6/22/99	<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)
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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
(408) 776-9600
FAX (408) 782-6308
www.sequiolabs.com

29 June, 2000

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

RE: 540 Hegenberger Rd.
Sequoia Report: MJF0363

Enclosed are the results of analyses for samples received by the laboratory on 06/09/00 14:04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Ted Terrasas
Project Manager

CA ELAP Certificate #1210





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

Project: 540 Hegenberger Rd.
Project Number: 540 Hegenberger Rd./ Oakland
Project Manager: Nick Sudano

Reported:
06/29/00 10:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	MJF0363-01	Water	06/08/00 08:48	06/09/00 14:04
MW-2	MJF0363-02	Water	06/08/00 08:28	06/09/00 14:04
MW-3	MJF0363-03	Water	06/08/00 09:06	06/09/00 14:04

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.


Ted Terrasas, Project Manager





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

Project: 540 Hegenberger Rd.
Project Number: 540 Hegenberger Rd./ Oakland
Project Manager: Nick Sudano

Reported:
06/29/00 10:25

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MJF0363-01) Water Sampled: 06/08/00 08:48 Received: 06/09/00 14:04									
Purgeable Hydrocarbons	ND	2000	ug/l	40	0F20009	06/20/00	06/21/00	DHS LUFT	
Benzene	ND	20.0	"	"	"	"	"	"	
Toluene	ND	20.0	"	"	"	"	"	"	
Ethylbenzene	ND	20.0	"	"	"	"	"	"	
Xylenes (total)	ND	20.0	"	"	"	"	"	"	
Methyl tert-butyl ether	59000	1000	"	400	"	"	06/16/00	"	A-01,M-03
<i>Surrogate: a,a,a-Trifluorotoluene</i>		102 %		70-130	"	"	06/21/00	"	
MW-2 (MJF0363-02) Water Sampled: 06/08/00 08:28 Received: 06/09/00 14:04									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	0F20039	06/16/00	06/16/00	DHS LUFT	
Benzene	0.670	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	3160	25.0	"	10	"	"	06/16/00	"	M-03
<i>Surrogate: a,a,a-Trifluorotoluene</i>		103 %		70-130	"	"	06/16/00	"	
MW-3 (MJF0363-03) Water Sampled: 06/08/00 09:06 Received: 06/09/00 14:04									
Purgeable Hydrocarbons	72700	20000	ug/l	400	0F20039	06/16/00	06/16/00	DHS LUFT	P-01
Benzene	3570	200	"	"	"	"	"	"	
Toluene	10200	200	"	"	"	"	"	"	
Ethylbenzene	2100	200	"	"	"	"	"	"	
Xylenes (total)	13400	200	"	"	"	"	"	"	
Methyl tert-butyl ether	44400	1000	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		108 %		70-130	"	"	"	"	





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

Project: 540 Hegenberger Rd.
Project Number: 540 Hegenberger Rd./ Oakland
Project Manager: Nick Sudano

Reported:
06/29/00 10:25

**MTBE by EPA Method 8260A
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MJF0363-01) Water Sampled: 06/08/00 08:48 Received: 06/09/00 14:04									
Methyl tert-butyl ether	67600	5000	ug/l	5000	0F26022	06/21/00	06/21/00	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		116 %	70-130		"	"	"	"	





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

Project: 540 Hegenberger Rd.
Project Number: 540 Hegenberger Rd./ Oakland
Project Manager: Nick Sudano

Reported:
06/29/00 10:25

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 0F20009 - EPA 5030B [P/T]										
Blank (0F20009-BLK1) Prepared & Analyzed: 06/20/00										
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	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	9.98		"	10.0		99.8	70-130			
LCS (0F20009-BS1) Prepared & Analyzed: 06/20/00										
Purgeable Hydrocarbons	229	50.0	ug/l	250		91.6	70-130			
Benzene	ND	0.500	"				70-130			
Toluene	ND	0.500	"				70-130			
Ethylbenzene	ND	0.500	"				70-130			
Xylenes (total)	ND	0.500	"				70-130			
Methyl tert-butyl ether	ND	2.50	"				70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	13.1		"	10.0		131	70-130			S-02
Matrix Spike (0F20009-MS1) Source: MJF0359-04 Prepared & Analyzed: 06/20/00										
Purgeable Hydrocarbons	277	50.0	ug/l	250	ND	111	60-140			
Benzene	ND	0.500	"		ND		60-140			
Toluene	ND	0.500	"		ND		60-140			
Ethylbenzene	ND	0.500	"		ND		60-140			
Xylenes (total)	ND	0.500	"		ND		60-140			
Methyl tert-butyl ether	ND	2.50	"		ND		60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	13.2		"	10.0		132	70-130			S-02
Matrix Spike Dup (0F20009-MSD1) Source: MJF0359-04 Prepared & Analyzed: 06/20/00										
Purgeable Hydrocarbons	278	50.0	ug/l	250	ND	111	60-140	0.360	25	
Benzene	ND	0.500	"		ND		60-140		25	
Toluene	ND	0.500	"		ND		60-140		25	
Ethylbenzene	ND	0.500	"		ND		60-140		25	
Xylenes (total)	ND	0.500	"		ND		60-140		25	
Methyl tert-butyl ether	ND	2.50	"		ND		60-140		25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	13.9		"	10.0		139	70-130			S-02





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

Project: 540 Hegenberger Rd.
Project Number: 540 Hegenberger Rd./ Oakland
Project Manager: Nick Sudano

Reported:
06/29/00 10:25

**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 0F20039 - EPA 5030B [P/T]										
Blank (0F20039-BLK1)										
Prepared & Analyzed: 06/16/00										
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	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.3		"	10.0		103	70-130			
LCS (0F20039-BS1)										
Prepared & Analyzed: 06/16/00										
Benzene	10.2	0.500	ug/l	10.0		102	70-130			
Toluene	10.4	0.500	"	10.0		104	70-130			
Ethylbenzene	9.99	0.500	"	10.0		99.9	70-130			
Xylenes (total)	30.9	0.500	"	30.0		103	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.6		"	10.0		106	70-130			
Matrix Spike (0F20039-MS1)										
Source: MJF0455-03										
Prepared & Analyzed: 06/16/00										
Benzene	9.55	0.500	ug/l	10.0	ND	95.5	60-140			
Toluene	9.69	0.500	"	10.0	ND	96.9	60-140			
Ethylbenzene	9.32	0.500	"	10.0	ND	93.2	60-140			
Xylenes (total)	28.6	0.500	"	30.0	ND	95.3	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.6		"	10.0		106	70-130			
Matrix Spike Dup (0F20039-MSD1)										
Source: MJF0455-03										
Prepared & Analyzed: 06/16/00										
Benzene	10.1	0.500	ug/l	10.0	ND	101	60-140	5.60	25	
Toluene	9.98	0.500	"	10.0	ND	99.8	60-140	2.95	25	
Ethylbenzene	9.57	0.500	"	10.0	ND	95.7	60-140	2.65	25	
Xylenes (total)	29.0	0.500	"	30.0	ND	96.7	60-140	1.39	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	10.6		"	10.0		106	70-130			





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

Project: 540 Hegenberger Rd.
Project Number: 540 Hegenberger Rd./ Oakland
Project Manager: Nick Sudano

Reported:
06/29/00 10:25

**MTBE 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 0F26022 - EPA 5030B [P/T]										
Blank (0F26022-BLK1) Prepared & Analyzed: 06/21/00										
Methyl tert-butyl ether	ND	1.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	9.21		"	10.0		92.1	70-130			
LCS (0F26022-BS1) Prepared & Analyzed: 06/21/00										
Methyl tert-butyl ether	8.37	1.00	ug/l	10.0		83.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	11.2		"	10.0		112	70-130			
Matrix Spike (0F26022-MS1) Source: MJF0359-01 Prepared & Analyzed: 06/21/00										
Methyl tert-butyl ether	12.0	1.00	ug/l	10.0	ND	120	70-130			
Surrogate: 1,2-Dichloroethane-d4	9.68		"	10.0		96.8	70-130			
Matrix Spike Dup (0F26022-MSD1) Source: MJF0359-01 Prepared & Analyzed: 06/21/00										
Methyl tert-butyl ether	15.4	1.00	ug/l	10.0	ND	154	70-130	24.8	25	Q-01
Surrogate: 1,2-Dichloroethane-d4	9.43		"	10.0		94.3	70-130			





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

Project: 540 Hegenberger Rd.
Project Number: 540 Hegenberger Rd./ Oakland
Project Manager: Nick Sudano

Reported:
06/29/00 10:25

Notes and Definitions

- A-01 MTBE was prepared on 6/16/00
- M-03 Sample was analyzed at a second dilution per clients request.
- P-01 Chromatogram Pattern: Gasoline C6-C12
- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- 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.

1880 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

363
MJF0863

DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

EPA

RWQCB REGION _____

LIA

OTHER

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 98995752

Send report to Blaine Tech Services

Attn: Ann Pember

CHAIN OF CUSTODY

000608-41

CLIENT Equiva - Karen Petryna

SITE 540 Hegenberger Road
Oakland, CA

C = COMPOSITE ALL CONTAINERS

SAMPLE I.D.	DATE	S = SOIL W = H2O	MATRIX		TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			CONTAINERS	TOTAL										
MW-1	6/9/00	84%	4	3	X	X								
MW-2	↓	82%	↓	↓	X	X					* CONFIRM	HIGHEST	MTBE X 8260	
MW-3	↓	90%	↓	↓	X	X								

3 9 2 04

SAMPLING COMPLETED	DATE 6/9/00	TIME 9:10	SAMPLING PERFORMED BY	LEON G.	RESULTS NEEDED NO LATER THAN	
RELEASED BY	DATE 6/9	TIME 11:20	RECEIVED BY	[Signature]	DATE 6/9/00	TIME 11:20
RELEASED BY	DATE 6/9/00	TIME	RECEIVED BY	[Signature]	DATE 6/9/00	TIME 14:04
RELEASED BY	DATE	TIME	RECEIVED BY		DATE	TIME
SHIPPED VIA	DATE SENT	TIME SENT	COOLER #			

EQUIVA WELL MONITORING DATA SHEET

Project #: <u>000407-JJ</u>	Job # <u>204-5508-5900</u>
Sampler: <u>Josh</u>	Date: <u>X 4-7-00</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible <input type="checkbox"/> Extraction Pump Other: _____	Sampling Method: <input checked="" type="checkbox"/> Bailer <input type="checkbox"/> Extraction Port Other: _____
--	---

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
				1339		(purge rate = 1 gpm)
				1425		

Did well dewater? Yes No Gallons actually evacuated: 45

Sampling Time: _____ Sampling Date: _____

Sample I.D.: _____ Laboratory: Sequoia BC Other _____

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

Project #: <u>000407-33</u>	Job # <u>204-5508-5900</u>
Sampler: <u>Josh</u>	Date: <u>4-7-00</u>
Well I.D.: <u>MW-3</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: <u>Bailer</u> <u>Middleburg</u> ✓ <u>Electric Submersible</u> ✗ <u>Extraction Pump</u> Other: _____	Sampling Method: <u>Bailer</u> <u>Extraction Port</u> Other: _____
---	--

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
		<u>begin</u>	<u>purge @</u>	<u>1430</u>	<u>1</u>	<u>Reste 9pm</u>
		<u>End</u>	<u>purge @</u>	<u>1515</u>		

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Gallons actually evacuated: <u>45</u>
Sampling Time: _____	Sampling Date: _____
Sample I.D.: _____	Laboratory: Sequoia BC Other _____
Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____	
D.O. (if req'd):	Pre-purge: _____ mg/L Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV Post-purge: _____ mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 000413 FC	Job # 204-5508-5900
Sampler: MIKE S.	Date: 4-13-00
Well I.D.: MW-1	Well Diameter: (2) 3 . 4 6 8
Total Well Depth: 24.30	Depth to Water: 8.34
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: Bailer Middleburg Electric Submersible Extraction Pump Other: _____

Sampling Method: Bailer Extraction Port Other: _____

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
						started purge @ 1535
						ended purge @ 1620
						REMOVED 30 gal.
						dewatered @ 25 gal. waited 10 min for recharge.
						continued purge @ 16:15 16:15. DTW: 14.29

Did well dewater? Yes No Gallons actually evacuated: **30**

Sampling Time: _____ Sampling Date: **4-13-00**

Sample I.D.: **MW-1** Laboratory: Sequoia BC Other: _____

Analyzed for: TPH-G BTEX MIBE TPH-D Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

Project #: <u>000413 F4</u>	Job #: <u>204-5508-5900</u>
Sampler: <u>MIKE S.</u>	Date: <u>4-13-00</u>
Well I.D.: <u>MW-3</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>19.45</u>	Depth to Water: <u>6.01</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: <u>Bailer</u>	Sampling Method: <u>Bailer</u>
<input checked="" type="checkbox"/> <u>Middleburg</u>	<input checked="" type="checkbox"/> <u>Extraction Port</u>
<input type="checkbox"/> <u>Electric Submersible</u>	Other: _____
<input type="checkbox"/> <u>Extraction Pump</u>	
Other: _____	

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
						<u>started purge @ 1635</u>
						<u>ended purge @ 1720</u>
						<u>Removed 30 gal.</u>

Did well dewater? Yes No Gallons actually evacuated: 30

Sampling Time: _____ Sampling Date: 4-13-00

Sample I.D.: MW-3 Laboratory: Sequoia BC Other: _____

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

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL GAUGING DATA

Project # 000420 F1 Date 4-20-00 Client Equiva

Site 540 Hegenberger RD, OAKLAND, Ca.

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 <u>OC</u>	
MW-1	2					8.37	24.44	↓	
MW-3	2					5.62	19.56	↓	

EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>000420 F1</u>	Site: <u>204-5508-5900</u>
Sampler: <u>MIKE S.</u>	Date: <u>4-20-00</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>24.44</u>	Depth to Water: <u>8.37</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer Sampling Method: Bailer
 Bailer Waterra Disposable Bailer
 Disposable Bailer Peristaltic Extraction Port
~~Middleburg~~ Extraction Pump Dedicated Tubing
 Electric Submersible Other _____

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

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations

Did well dewater? Yes No Gallons actually evacuated: 25

Sampling Time: _____ Sampling Date: 4-20-00

Sample I.D.: MW-1 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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000420 F1	Site: 204-5508-5900
Sampler: MIKE S.	Date: 4-20-00
Well I.D.: MW-3	Well Diameter: 2 3 4 6 8
Total Well Depth: 19.56	Depth to Water: 5.62
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: _____

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

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
						Started purge @ 9:45
						Ended Purge @ 10:30
					25	

Did well dewater? Yes **No** Gallons actually evacuated: **25**

Sampling Time: _____ Sampling Date: **4-20-00**

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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 00042644	Site: 204-5508-5900
Sampler: Sanjiv	Date: 04-26-00
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8
Total Well Depth: 24.46	Depth to Water: 9.21
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer Watterra Sampling Method: Bailer
Disposable Bailer Peristaltic Disposable Bailer
(Middleburg) Extraction Pump Extraction Port
Electric Submersible Other 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	radius ² * 0.163

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations

Did well dewater? Yes No

Gallons actually evacuated: 25

Sampling Time: _____ Sampling Date: _____

Sample I.D.: _____ 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
	O.R.P. (if req'd):	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>000426-04</u>	Site: <u>204-5508-5900</u>
Sampler: <u>Sanjiv</u>	Date: <u>04-26-00</u>
Well I.D.: <u>MW-3</u>	Well Diameter: <u>(2)</u> 3 4 6 8 _____
Total Well Depth: <u>15.60</u>	Depth to Water: <u>6.01</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PXC)</u> 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 _____

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

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
		<u>45 min purge</u>				
		<u>start time = 15:05</u>				
		<u>stop time = 15:50</u>				

Did well dewater? Yes No Gallons actually evacuated: 30

Sampling Time: _____ Sampling Date: _____

Sample I.D.: _____ 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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000504-23	Site: 204-5508-5900
Sampler: BF	Date: 5-4-00
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8
Total Well Depth: 24.45	Depth to Water: 7.52
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:

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

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
15:20		"Weekly Purge"				
16:05		END				

Did well dewater? Yes No Gallons actually evacuated: 28

Sampling Time: _____ Sampling Date: _____

Sample I.D.: MW-1 Laboratory: Sequoia Columbia Other

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

EB I.D. (if applicable): @ _____ 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

O.R.P. (if req'd): Pre-purge: _____ mV Post-purge: _____ mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000504-23	Site: 204-5508-5900
Sampler: BF	Date: 5-4-00
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8
Total Well Depth: 19.54	Depth to Water: 6.00
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- | | |
|--|--|
| <ul style="list-style-type: none"> Bailer Disposable Bailer Middleburg <u>Electric Submersible</u> | <ul style="list-style-type: none"> 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	radius ² * 0.163

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
16:14						"weekly Purge"
16:59						END

Did well dewater? Yes No Gallons actually evacuated: 26

Sampling Time: _____ Sampling Date: _____

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

O.R.P. (if req'd): Pre-purge: _____ mV Post-purge: _____ mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>000509-43</u>	Site: <u>204-5508-5900</u>
Sampler: <u>Sanjiv</u>	Date: <u>05-09-00</u>
Well I.D.: <u>MU-1</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>24.17</u>	Depth to Water: <u>8.63</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> 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: _____

24 (Gals.) X _____ = _____ Gals.
 1 Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
	<u>45 min</u>					

Did well dewater? Yes No Gallons actually evacuated: 45

Sampling Time: _____ Sampling Date: _____

Sample I.D.: _____ 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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>000509-43</u>	Site: <u>204-5508-5900</u>
Sampler: <u>Sanjiv</u>	Date: <u>05-09-00</u>
Well I.D.: <u>MW-3</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>19.50</u>	Depth to Water: <u>5.83</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> 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

2.1 (Gals.) X _____ = _____ Gals.
 1 Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
	<u>45 min purge</u>					
	<u>Start time</u>		<u>End time</u>			
	<u>12:55</u>			<u>13:40</u>		

Did well dewater? Yes No Gallons actually evacuated: 45

Sampling Time: _____ Sampling Date: _____

Sample I.D.: _____ 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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>000517-42</u>	Site: <u>204-5508-5900</u>
Sampler: <u>Sanjiv</u>	Date: <u>05-17-00</u>
Well I.D.: <u>MW-2</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>24.41</u>	Depth to Water: <u>8.15</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- | | |
|---|--|
| <input type="checkbox"/> Bailer
<input type="checkbox"/> Disposable Bailer
<input checked="" type="checkbox"/> <u>Middleburg</u>
<input type="checkbox"/> Electric Submersible | <input type="checkbox"/> Waterra
<input type="checkbox"/> Peristaltic
<input type="checkbox"/> Extraction Pump
<input type="checkbox"/> Other |
|---|--|

Sampling Method:

- | | |
|--|---------------------------------|
| <input type="checkbox"/> Bailer
<input type="checkbox"/> Disposable Bailer
<input type="checkbox"/> Extraction Port
<input type="checkbox"/> Dedicated Tubing | <input type="checkbox"/> Other: |
|--|---------------------------------|

2.6 (Gals.) X _____ = _____ Gals.
 1 Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
	Start time					
	11:05					45 min purge
	End time					
	11:50					

Did well dewater? Yes No Gallons actually evacuated: 27

Sampling Time: _____ Sampling Date: _____

Sample I.D.: _____ 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
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>600517-42</u>	Site: <u>204-5508-5900</u>
Sampler: <u>Sagitt</u>	Date: <u>05-17-00</u>
Well I.D.: <u>MW-3</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>19.51</u>	Depth to Water: <u>5.73</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Middleburg Bailer
 Disposable Bailer
 Electric Submersible

Watera
 Peristaltic
 Extraction Pump
 Other _____

Sampling Method: Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other: _____

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

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
			12:00			45 min purge
			12:45			

Did well dewater? Yes No Gallons actually evacuated: 27

Sampling Time: _____ Sampling Date: _____

Sample I.D.: _____ 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
	O.R.P. (if req'd):	Pre-purge:	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>0005-22-42</u>	Site: <u>204-5508-5900</u>
Sampler: <u>Sanjiv</u>	Date: <u>05-22-00</u>
Well I.D.: <u>MU-2</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>24.42</u>	Depth to Water: <u>8.34</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> 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 _____

2.5 (Gals.) X _____ = _____ Gals.
 I Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
		<u>Start time = 9:45</u>				<u>45 min purge</u>
		<u>End time = 10:30</u>				

Did well dewater? Yes No Gallons actually evacuated: 25

Sampling Time: _____ Sampling Date: _____

Sample I.D.: _____ 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
	O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:

EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>000522-42</u>	Site: <u>204-5508-5900</u>
Sampler: <u>Sanjiv</u>	Date: <u>05-22-00</u>
Well ID.: <u>MW-3</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>19.50</u>	Depth to Water: <u>5.74</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer Sampling Method: Bailer

Bailer Waterra Disposable Bailer
 ~~Disposable Bailer~~ Peristaltic Extraction Port
 Middleburg Extraction Pump Dedicated Tubing
 Electric Submersible Other _____ Other: _____

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

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>Start</u>	<u>10:35</u>					<u>45 min purge</u>
<u>End</u>	<u>11:20</u>					

Did well dewater? Yes No Gallons actually evacuated: 25

Sampling Time: _____ Sampling Date: _____

Sample I.D.: _____ 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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>000601 FL</u>	Site: <u>204-SS08-5900</u>
Sampler: <u>MIKE S.</u>	Date: <u>6-1-00</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>24.34</u>	Depth to Water: <u>8.85</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer Waterra Disposable Bailer Middleburg Electric Submersible

Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing Other

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

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
						Started Purge @ 1145
						Ended Purge @ 1230
						Removed 25 gal.

Did well dewater? Yes (No) Gallons actually evacuated: 25

Sampling Time: _____ Sampling Date: 6-1-00

Sample I.D.: MW-1 Laboratory: Sequoia Columbia Other _____

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

EB I.D. (if applicable): @ _____ 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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000601 FA	Site: 204-SS08-5900
Sampler: MIKE S.	Date: 6-1-00
Well I.D.: MW-3	Well Diameter: 2 3 4 6 8
Total Well Depth: 1A.50	Depth to Water: 5.57
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: <input type="checkbox"/> Bailer <input type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Middleburg <input type="checkbox"/> Electric Submersible	Sampling Method: Bailer <input type="checkbox"/> Waterra <input type="checkbox"/> Peristaltic <input type="checkbox"/> Extraction Pump <input type="checkbox"/> Other _____
---	--

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

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
						started Purge @ 1240
						Ended Purge @ 1325
						Removed 25 gal.

Did well dewater? Yes **No** Gallons actually evacuated: **25.0**
 Sampling Time: _____ Sampling Date: _____

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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>00008-41</u>	Site: <u>204-5508-5900</u>
Sampler: <u>LEON G.</u>	Date: <u>6-8-00</u>
Well I.D.: <u>MW-1</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>24.38</u>	Depth to Water: <u>7.78</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): <u>(YSI)</u> HACH

Purge Method:

- | | |
|--|--|
| <input checked="" type="radio"/> Bailer
<input type="radio"/> Disposable Bailer
<input type="radio"/> Middleburg
<input type="radio"/> Electric Submersible | <input type="radio"/> Waterra
<input type="radio"/> Peristaltic
<input type="radio"/> Extraction Pump
<input type="radio"/> Other _____ |
|--|--|

Sampling Method:

- | | |
|---|------------------------------------|
| <input checked="" type="radio"/> Bailer
<input type="radio"/> Disposable Bailer
<input type="radio"/> Extraction Port
<input type="radio"/> Dedicated Tubing | <input type="radio"/> Other: _____ |
|---|------------------------------------|

$$2.6 \text{ (Gals.)} \times 3 = 7.8 \text{ Gals.}$$
 1 Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
838	64.2	7.4	6224	>200	3	
841	63.9	7.4	8558	>200	5	
844	64.5	7.4	8423	>200	8	
WEEKLY PURGE STARTED @ 915						
STOPPED @ 1000						

Did well dewater? Yes No Gallons actually evacuated: 8 + 235 ^{WEEKLY PURGE}

Sampling Time: 844 Sampling Date: 6-8-00

Sample I.D.: MW-1 Laboratory: (Sequola) 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: <u>(1.9)</u> mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>000608-41</u>	Site: <u>204-5508-5900</u>
Sampler: <u>Leons G.</u>	Date: <u>6-8-00</u>
Well I.D.: <u>mw-2</u>	Well Diameter: <u>(2)</u> 3 4 6 8
Total Well Depth: <u>19.54</u>	Depth to Water: <u>6.87</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>(PVC)</u> Grade	D.O. Meter (if req'd): <u>(YSI)</u> HACH

Purge Method: (Bailer) ~~Disposable Bailer~~ Middleburg Electric Submersible

Water: (Bailer) Disposable Bailer Extraction Port Dedicated Tubing

Sampling Method: (Bailer) Disposable Bailer Extraction Port Dedicated Tubing

Other: _____

2.0 (Gals.) X 3 = 6.0 Gals.
 1 Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>820</u>	<u>65.9</u>	<u>6.7</u>	<u>583</u>	<u>7200</u>	<u>2</u>	
<u>822</u>	<u>65.8</u>	<u>6.6</u>	<u>690</u>	<u>7200</u>	<u>4</u>	
<u>824</u>	<u>65.8</u>	<u>6.9</u>	<u>739</u>	<u>7200</u>	<u>6</u>	

Did well dewater? Yes No Gallons actually evacuated: 6

Sampling Time: 824 Sampling Date: 6-8-00

Sample I.D.: mw-2 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: <u>(1.6)</u> mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>000608-41</u>	Site: <u>204-5508-6900</u>
Sampler: <u>Leon G.</u>	Date: <u>6-8-00</u>
Well I.D.: <u>mw-3</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>19.47</u>	Depth to Water: <u>5.32</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): <u>YSI</u> HACH

Purge Method:

- | | |
|---|-----------------|
| <input checked="" type="checkbox"/> <u>Bailer</u> | Waterra |
| <input type="checkbox"/> Disposable Bailer | Peristaltic |
| <input type="checkbox"/> Middleburg | Extraction Pump |
| <input type="checkbox"/> Electric Submersible | Other _____ |

Sampling Method:

- | |
|---|
| <input checked="" type="checkbox"/> <u>Bailer</u> |
| <input type="checkbox"/> Disposable Bailer |
| <input type="checkbox"/> Extraction Port |
| <input type="checkbox"/> Dedicated Tubing |
| Other: _____ |

$$2.2 \text{ (Gals.)} \times 3 = 6.6 \text{ Gals.}$$
 1 Case Volume Specified Volumes Calculated Volume

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
856	66.2	7.1	1260	7200	2	Light sheen / orange
859	67.0	7.0	995	7200	4	
902	66.8	7.1	1063	7200	7	
WEEKLY PURGE STARTED @ 1005						
STOPPED @ 1050						

Did well dewater? Yes No Gallons actually evacuated: 7 + ~35 WEEKLY PURGE

Sampling Time: 906 Sampling Date: 6-8-00

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: <u>1.1</u> mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd):	Pre-purge: _____ mV	Post-purge: _____ mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000615-42	Site: 204-5508-5900
Sampler: Sanjiv	Date: 06-15-00
Well I.D.: MW-1	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8
Total Well Depth: 24.45	Depth to Water: 9.55
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> 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 _____

2.3	(Gals.) X	3	=	_____	Gals.
1 Case Volume	Specified Volumes	Calculated Volume			

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
			45 min purge			
		Start	End			
		8:45	9:30			

Did well dewater? Yes No Gallons actually evacuated: 29

Sampling Time: _____ Sampling Date: _____

Sample I.D.: _____ 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
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000615-4A	Site: 204-5508-5900
Sampler: Sanjiv	Date: 06-15-00
Well I.D.: Mw-3	Well Diameter: (2) 3 4 6 8
Total Well Depth: 19.51	Depth to Water: 5.61
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Middleburg Bailer
 Disposable Bailer
 Electric Submersible

Watera
 Peristaltic
 Extraction Pump
 Other

Sampling Method: Bailer
 Disposable Bailer
 Extraction Port
 Dedicated Tubing
 Other:

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

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
		Start				45 min purge
		9:40		End		10:25

Did well dewater? Yes No Gallons actually evacuated: 29

Sampling Time: Sampling Date:

Sample I.D.: 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
O.R.P. (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.sequiolabs.com

June 12, 2000

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

RE: Equiva/P006207

Dear Owen Ratchye

Enclosed are the results of analyses for sample(s) received by the laboratory on June 8, 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





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Equiva Project Number: 540 Hagenberger Oakland Project Manager: Owen Ratchye	Sampled: 6/6/00 Received: 6/8/00 Reported: 6/12/00
--	---	--

ANALYTICAL REPORT FOR P006207

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	P006207-01	Air	6/6/00
MW-3	P006207-02	Air	6/6/00





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Equiva Project Number: 540 Hagenberger Oakland Project Manager: Owen Ratchye	Sampled: 6/6/00 Received: 6/8/00 Reported: 6/12/00
--	---	--

**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				<u>P006207-01</u>			<u>Air</u>	
Gasoline	0060226	6/9/00	6/9/00		10.0	15.5	ug/l	
Benzene	"	"	"		0.100	0.609	"	
Toluene	"	"	"		0.100	0.472	"	
Ethylbenzene	"	"	"		0.100	0.317	"	
Xylenes (total)	"	"	"		0.100	1.65	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		99.0	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		91.7	"	
MW-3				<u>P006207-02</u>			<u>Air</u>	
Gasoline	0060226	6/9/00	6/9/00		250	4840	ug/l	1
Benzene	"	"	"		2.50	87.9	"	
Toluene	"	"	"		2.50	156	"	
Ethylbenzene	"	"	"		2.50	22.9	"	
Xylenes (total)	"	"	"		2.50	68.4	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		105	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		90.3	"	





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Equiva Project Number: 540 Hagenberger Oakland Project Manager: Owen Ratchye	Sampled: 6/6/00 Received: 6/8/00 Reported: 6/12/00
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**Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1				<u>P006207-01</u>			<u>Air</u>	
Methyl tert-butyl ether	0060159	6/9/00	6/9/00		5.00	74.4	ug/l	
Surrogate: Dibromofluoromethane	"	"	"	86.0-118		103	%	
MW-3				<u>P006207-02</u>			<u>Air</u>	
Methyl tert-butyl ether	0060159	6/9/00	6/9/00		25.0	114	ug/l	
Surrogate: Dibromofluoromethane	"	"	"	86.0-118		97.2	%	





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Equiva Project Number: 540 Hagenberger Oakland Project Manager: Owen Ratchye	Sampled: 6/6/00 Received: 6/8/00 Reported: 6/12/00
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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: 0060226			Date Prepared: 6/9/00		Extraction Method: EPA 5030 waters					
Blank			0060226-BLK1							
Gasoline	6/9/00			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	"	300		300	"	65.0-135	100			
Surrogate: 4-Bromofluorobenzene	"	300		269	"	65.0-135	89.7			
LCS			0060226-BS1							
Benzene	6/9/00	100		103	ug/l	65.0-135	103			
Toluene	"	100		102	"	65.0-135	102			
Ethylbenzene	"	100		96.0	"	65.0-135	96.0			
Xylenes (total)	"	300		305	"	65.0-135	102			
Surrogate: a,a,a-Trifluorotoluene	"	300		305	"	65.0-135	102			
Matrix Spike			0060226-MS1 P006208-03							
Benzene	6/9/00	100	ND	103	ug/l	65.0-135	103			
Toluene	"	100	ND	101	"	65.0-135	101			
Ethylbenzene	"	100	ND	95.8	"	65.0-135	95.8			
Xylenes (total)	"	300	ND	303	"	65.0-135	101			
Surrogate: a,a,a-Trifluorotoluene	"	300		309	"	65.0-135	103			
Matrix Spike Dup			0060226-MSD1 P006208-03							
Benzene	6/9/00	100	ND	103	ug/l	65.0-135	103	20.0	0	
Toluene	"	100	ND	102	"	65.0-135	102	20.0	0.985	
Ethylbenzene	"	100	ND	95.3	"	65.0-135	95.3	20.0	0.523	
Xylenes (total)	"	300	ND	302	"	65.0-135	101	20.0	0	
Surrogate: a,a,a-Trifluorotoluene	"	300		305	"	65.0-135	102			





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Equiva Project Number: 540 Hagenberger Oakland Project Manager: Owen Ratchye	Sampled: 6/6/00 Received: 6/8/00 Reported: 6/12/00
--	---	--

**Volatile Organic Compounds by EPA Method 8260B/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: 0060159		Date Prepared: 6/8/00		Extraction Method: EPA 5030 waters						
Blank										
0060159-BLK1										
Methyl tert-butyl ether	6/8/00			ND	ug/l	0.500				
Surrogate: Dibromofluoromethane	"	5.00		5.01	"	86.0-118	100			
Blank										
0060159-BLK3										
Methyl tert-butyl ether	6/9/00			ND	ug/l	0.500				
Surrogate: Dibromofluoromethane	"	5.00		4.74	"	86.0-118	94.8			
LCS										
0060159-BS1										
Methyl tert-butyl ether	6/8/00	1.00		0.898	ug/l	72.7-119	89.8			
Surrogate: Dibromofluoromethane	"	5.00		5.21	"	86.0-118	104			
Matrix Spike										
0060159-MS1 P006129-04										
Methyl tert-butyl ether	6/8/00	1.00	ND	0.948	ug/l	72.7-119	94.8			
Surrogate: Dibromofluoromethane	"	5.00		5.24	"	86.0-118	105			
Matrix Spike Dup										
0060159-MSD1 P006129-04										
Methyl tert-butyl ether	6/8/00	1.00	ND	0.990	ug/l	72.7-119	99.0	20.0	4.33	
Surrogate: Dibromofluoromethane	"	5.00		5.27	"	86.0-118	105			





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Equiva Project Number: 540 Hagenberger Oakland Project Manager: Owen Ratchye	Sampled: 6/6/00 Received: 6/8/00 Reported: 6/12/00
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Notes and Definitions

#	Note
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- I Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- 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: 6/6/00
 Page 1 of 1

Site Address: 540 Hegenberger, Oakland
 InciDent # 9899 5762

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:

Sampled by: J.O.

Printed Name: JASON OLSON

Sample ID	Date	Sludge	Soil	Water	Ah	No. of conds.
MW-1	6/6/00				X	2
MW-3	6/6/00				X	2

Analysis Required

TPH (EPA 8015 Mod. GC)	TPH (EPA 8015 Mod. Diesel)	STEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & STEX 8020	MTBE By 8260	Asbestos	Container Size	Preparation Used	Composite Y/N
					X	X				
					X	X				

LAB:

CHECK ONE (1) BOX ONLY	CI/DI	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4441	24 hours <input type="checkbox"/>
Site Investigation <input checked="" type="checkbox"/>	4441	48 hours <input checked="" type="checkbox"/>
Soil Classfy/Disposal <input type="checkbox"/>	4442	16 days <input type="checkbox"/> (Normal)
Water Classfy/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Ah Rem. of Sys. O & M <input type="checkbox"/>	4452	
Water Rem. of Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

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: 6/6/00
 Time: 16:15

Received (signature):

Printed Name: GAIL HELLMANN
 Date: 6/8/00
 Time: 16:15

Relinquished By (signature):

Printed Name: G. M...
 Date: 6/8/00
 Time: 16:15

Received (signature):

Printed Name: GAIL HELLMANN
 Date: 6/8/00
 Time: 16:15

Relinquished By (signature):

Printed Name: _____
 Date: _____
 Time: _____

Received (signature):

Printed Name: _____
 Date: _____
 Time: _____

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



Sequoia Analytical

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





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





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Equiva Project Number: 540 Hegenberger, Oakland Project Manager: Owen Ratchye	Sampled: 7/10/00 Received: 7/11/00 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				<u>P007150-01</u>				<u>Air</u>
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				<u>P007150-02</u>				<u>Air</u>
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	"	





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





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

Date: 7/10/00

Serial No: _____

Page 1 of 1

Site Address: 540 Hegenberger, Oakland
Incident # 98995752

Analysis Required

LAB: SEQUOIA

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 #: 420-9770

Comments: _____

Sampled by: *[Signature]*

Printed Name: JASON OLSON

Sample ID	Date	Sludge	Soil	Water	Air	No. of conds.	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
MW-1	7/10				X	2	X		X							
MW-3	↓				X	2	X		X							

CHECK ONE (X) BOX ONLY	CI/DI	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4461	24 hours <input type="checkbox"/>
Site Investigation <input type="checkbox"/>	4441	48 hours <input checked="" type="checkbox"/>
Soil Classify/Disposal <input type="checkbox"/>	4442	16 days <input type="checkbox"/> (Normal)
Water Classify/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. of Sys. O & M <input checked="" type="checkbox"/>	4452	NOTE: Notify Lab as soon as Possible of 24/48 hr. SAT.
Water Rem. of Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

UST AGENCY:

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
P007150-01	48 HOUR TURN
↓ -02	

Relinquished By (signature): <i>[Signature]</i>	Printed Name: JASON OLSON	Date: 7/10/00	Time: 1230	Received (signature): <i>[Signature]</i>	Printed Name: C. Mainaris	Date: 7/11/00	Time: 1200
Relinquished By (signature): <i>[Signature]</i>	Printed Name: C. Mainaris	Date: 7/11/00	Time: 1230	Received (signature): <i>[Signature]</i>	Printed Name: GAN HERLMANN	Date: 7/11/00	Time: 1200
Relinquished By (signature): _____	Printed Name: _____	Date: _____	Time: _____	Received (signature): _____	Printed Name: _____	Date: _____	Time: _____

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