CAMBRIA

July 12, 2000

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

3696

Re: **First 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.

FIRST 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 without purging, 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: Due to the elevated concentrations of MTBE in site wells, Cambria initiated weekly high-vacuum groundwater extraction from the four tank-backfill wells (A through D) and monitoring wells MW-1 and MW-3. Approximately 36,263 gallons of groundwater have been extracted from site wells since purging began on July 29, 1999. Weekly purge data and hydrocarbon mass-removal calculations are presented in Table 1.

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 SECOND QUARTER 2000 ACTIVITIES

Groundwater Monitoring: Blaine will collect DO measurements, gauge water levels, sample the monitoring wells without purging, and tabulate the data. Cambria will prepare a monitoring report.

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.

Investigation and Well Installation: In response to Alameda County Health Care Services Agency (ACHCSA) November 19, 1999 and April 6, 2000 letters, Cambria submitted a *Subsurface Investigation Work Plan* dated May 8, 2000. The work plan proposed installing three soil borings downgradient of the site, installing a downgradient monitoring well, and included a map showing utility conduits and sensitive receptors within a half-mile radius of the site. In addition, an *Investigation Work Plan Addendum* dated June 19, 2000 was submitted in response to the ACHCSA's May 15, 2000 letter to Equiva. The work plan addendum presented historical groundwater gradient directions and previous soil and groundwater investigation results.

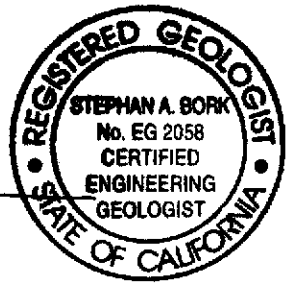
Work Plan Implementation: Cambria's May 8 and May 15, 2000 work plans were conditionally approved by the ACHCSA in a June 19, 2000 letter to Equiva. Cambria is currently working to obtain a City of Oakland encroachment permit.

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

Table: 1 - Mass Removal Data

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

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

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Groundwater Elevation Contour Map

March 2, 2000

COLISEUM WAY

EDES AVE

HEGENBERGER RD

ARCO Service Station

FL = -2.0'
72" SD
SD
FL = -0.63'
5' x 5' x 8' culvert
FL = -0.45'
15" SD
water
8" ss
FL = 6.0'
FL = 0.14'
FL = -1.80'
12" water
water
FH
FL = 5.0'
FL = 4.81'
12" ss
10" ss
8" ss
16" water
8" abandoned water
FH
FL = -1.0'
FL = -0.8'
water
10" ss
10" ss
water

SB-E
MW-2
2.88
11.5
5,280
MW-4
Planter
A
D
USTs
B
C
3.00
2.50
SB-F
MW-3
3.58
5,210
56,800
SB-2
3.50
3.50
SB-3
3.00
2.50
2.00
2.00
SB-D
SB-5
Planter
Dispensers
Building
Dispensers
MW-1
1.71
<25.0
27,600
Carwash
Planter
SB-G
PG&E Vault
SB-4
SB-1

0 20 40 80
Scale (ft)

EXPLANATION

- MW-4 — Proposed monitoring well
- SB-F — Proposed soil boring
- MW-1 — Monitoring well
- A — Tank backfill well
- SB-1 — Soil boring location (March1998)
- 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
- x.xx — 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
ELEV
Benzene
MTBE

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

FIGURE

1

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

CAMBRIA

D:\OAKLAND\SHELL\HEGENBERG\RPT\FIG\FIG1-TOMBO-MP.DWG

Table 1: 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: 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)
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

Table 1: 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)
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
07/29/99	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

Table 1: 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)
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
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

Table 1: 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)
05/17/00	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
Total Gallons Extracted:		**36,263**		**Total Pounds Removed:**		**< 0.89622**			**< 0.06429**			**6.78930**	
				Total Gallons Removed		**< 0.14692**			**< 0.00881**			**1.09505**	

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

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

April 21, 2000

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

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

Monitoring performed on March 2, 2000

Groundwater Monitoring Report **000302-A-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,

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-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-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

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	12/28/1998	<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	10,800	2,650	10,100	56,800	69,800b	9.45	5.87	3.58	d
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

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

March 22, 2000

Leah Davis
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

RE: Equiva(2)/L003058

Dear Leah Davis:

Enclosed are the results of analyses for sample(s) received by the laboratory on March 6, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for Wayne Stevenson
Project Manager

CA ELAP Certificate Number I-2360

Sequoia Analytical

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

Blaine Tech Services	Project:	Equiva(2)	Sampled: 3/2/00
1680 Rogers Avenue	Project Number:	000302-A1	Received: 3/6/00
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 3/22/00

ANALYTICAL REPORT FOR L003058

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	L003058-01	Water	3/2/00
MW-2	L003058-02	Water	3/2/00
MW-3	L003058-03	Water	3/2/00

Sequoia Analytical

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

Blaine Tech Services	Project:	Equiva(2)	Sampled: 3/2/00
1680 Rogers Avenue	Project Number:	000302-A1	Received: 3/6/00
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 3/22/00

Sample Description: **MW-1**
Laboratory Sample Number: **L003058-01**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
			Sequoia Analytical - San Carlos					
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	0030073	3/16/00	3/16/00		2500	ND	ug/l	
Benzene	"	"	"		25.0	ND	"	
Toluene	"	"	"		25.0	ND	"	
Ethylbenzene	"	"	"		25.0	ND	"	
Xylenes (total)	"	"	"		25.0	ND	"	
Methyl tert-butyl ether	0030067	3/15/00	3/15/00		2500	**27600**	"	
Surrogate: a,a,a-Trifluorotoluene	0030073	3/16/00	3/16/00	*70.0-130*		*104*	*%*	

Sequoia Analytical

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

Blaine Tech Services	Project:	Equiva(2)	Sampled: 3/2/00
1680 Rogers Avenue	Project Number:	000302-A1	Received: 3/6/00
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 3/22/00

Sample Description: **MW-2**
Laboratory Sample Number: **L003058-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	0030073	3/16/00	3/16/00		500	ND	ug/l	
Benzene	"	"	"		5.00	**11.5**	"	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	ND	"	
Xylenes (total)	"	"	"		5.00	ND	"	
Methyl tert-butyl ether	0030067	3/15/00	"		1000	**5280**	"	
Surrogate: a,a,a-Trifluorotoluene	0030073	3/16/00	"	*70.0-130*		*96.8*	*%*	

Sequoia Analytical

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

Blaine Tech Services	Project:	Equiva(2)	Sampled: 3/2/00
1680 Rogers Avenue	Project Number:	000302-A1	Received: 3/6/00
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 3/22/00

Sample Description: **MW-3**
Laboratory Sample Number: **L003058-03**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
			Sequoia Analytical - San Carlos					
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	0030067	3/15/00	3/16/00		25000	**65300**	ug/l	1
Benzene	"	"	"		250	**5210**	"	
Toluene	"	"	"		250	**10300**	"	
Ethylbenzene	"	"	"		250	**2650**	"	
Xylenes (total)	"	"	"		250	**15100**	"	
Methyl tert-butyl ether	"	"	"		2500	**56800**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*80.3*	*%*	
MTBE by EPA Method 8260A								2
Methyl tert-butyl ether	0030097	3/21/00	3/21/00		2000	**59800**	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*84.6*	*%*	

Sequoia Analytical

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

Blaine Tech Services	Project:	Equiva(2)	Sampled: 3/2/00
1680 Rogers Avenue	Project Number:	000302-A1	Received: 3/6/00
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 3/22/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE 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: 0030067	**Date Prepared: 3/15/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0030067-BLK1**									
Purgeable Hydrocarbons as Gasoline	3/15/00			**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**	"	**5.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.14*	"	*70.0-130*	*91.4*			
LCS	**0030067-BS1**									
Benzene	3/15/00	10.0		9.38	ug/l	70.0-130	93.8			
Toluene	"	10.0		8.95	"	70.0-130	89.5			
Ethylbenzene	"	10.0		8.89	"	70.0-130	88.9			
Xylenes (total)	"	30.0		26.5	"	70.0-130	88.3			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.91*	"	*70.0-130*	*99.1*			
LCS	**0030067-BS2**									
Purgeable Hydrocarbons as Gasoline	3/15/00	250		274	ug/l	70.0-130	110			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.7*	"	*70.0-130*	*107*			
Matrix Spike	**0030067-MS1**		**L003036-06**							
Benzene	3/15/00	10.0	ND	10.5	ug/l	60.0-140	**105**			
Toluene	"	10.0	3.30	10.0	"	60.0-140	**67.0**			
Ethylbenzene	"	10.0	ND	9.67	"	60.0-140	**96.7**			
Xylenes (total)	"	30.0	ND	29.7	"	60.0-140	**99.0**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.01*	"	*70.0-130*	*90.1*			
Matrix Spike Dup	**0030067-MSD1**		**L003036-06**							
Benzene	3/15/00	10.0	ND	10.5	ug/l	60.0-140	**105**	25.0	**0**	
Toluene	"	10.0	3.30	21.8	"	60.0-140	**185**	25.0	**93.7**	3
Ethylbenzene	"	10.0	ND	10.3	"	60.0-140	**103**	25.0	**6.31**	
Xylenes (total)	"	30.0	ND	29.1	"	60.0-140	**97.0**	25.0	**2.04**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.27*	"	*70.0-130*	*92.7*			
Batch: 0030073	**Date Prepared: 3/16/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0030073-BLK1**									
Purgeable Hydrocarbons as Gasoline	3/16/00			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				

Sequoia Analytical

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

Blaine Tech Services	Project:	Equiva(2)	Sampled: 3/2/00
1680 Rogers Avenue	Project Number:	000302-A1	Received: 3/6/00
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 3/22/00

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE 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*
Blank (continued)	**0030073-BLK1**									
Methyl tert-butyl ether	3/16/00			**ND**	ug/l	**5.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.7*	"	*70.0-130*	*107*			
LCS	**0030073-BS1**									
Benzene	3/16/00	10.0		10.1	ug/l	70.0-130	101			
Toluene	"	10.0		10.0	"	70.0-130	100			
Ethylbenzene	"	10.0		9.79	"	70.0-130	97.9			
Xylenes (total)	"	30.0		29.9	"	70.0-130	99.7			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*10.0*	"	*70.0-130*	*100*			
LCS	**0030073-BS2**									
Purgeable Hydrocarbons as Gasoline	3/16/00	250		235	ug/l	70.0-130	94.0			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.96*	"	*70.0-130*	*99.6*			
Matrix Spike	**0030073-MS1**		**L003048-03**							
Purgeable Hydrocarbons as Gasoline	3/16/00	250	ND	258	ug/l	60.0-140	**103**			
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.54*	"	*70.0-130*	*95.4*			
Matrix Spike Dup	**0030073-MSD1**		**L003048-03**							
Purgeable Hydrocarbons as Gasoline	3/16/00	250	ND	256	ug/l	60.0-140	**102**	25.0	**0.976**	
Surrogate: a,a,a-Trifluorotoluene	"	*10.0*		*9.62*	"	*70.0-130*	*96.2*			

Sequoia Analytical

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Blaine Tech Services	Project:	Equiva(2)	Sampled: 3/2/00
1680 Rogers Avenue	Project Number:	000302-A1	Received: 3/6/00
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 3/22/00

MTBE by EPA Method 8260A/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: 0030097	**Date Prepared: 3/21/00**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**0030097-BLK1**									
Methyl tert-butyl ether	3/21/00			**ND**	ug/l	**2.00**				
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*47.6*	"	*76.0-114*	*95.2*			
LCS	**0030097-BS1**									
Methyl tert-butyl ether	3/21/00	50.0		54.7	ug/l	70.0-130	109			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*49.4*	"	*76.0-114*	*98.8*			
Matrix Spike	**0030097-MS1**		**L003071-04**							
Methyl tert-butyl ether	3/21/00	50.0	152	202	ug/l	60.0-140	**100**			
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*47.8*	"	*76.0-114*	*95.6*			
Matrix Spike Dup	**0030097-MSD1**		**L003071-04**							
Methyl tert-butyl ether	3/21/00	50.0	152	210	ug/l	60.0-140	**116**	25.0	**14.8**	
Surrogate: 1,2-Dichloroethane-d4	"	*50.0*		*48.5*	"	*76.0-114*	*97.0*			

Sequoia Analytical

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(650) 232-9600
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Blaine Tech Services	Project:	Equiva(2)	Sampled: 3/2/00
1680 Rogers Avenue	Project Number:	000302-A1	Received: 3/6/00
San Jose, CA 95112	Project Manager:	Leah Davis	Reported: 3/22/00

Notes and Definitions

#	Note
1	Chromatogram Pattern: Gasoline C6-C12
2	This sample was analyzed outside of the EPA recommended holding time.
3	The % recovery and % RPD was above established control limits. The LCS will validate the batch.
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

BLAINE
TECH SERVICES INC.

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

CHAIN OF CUSTODY 000302-A1 LOG 058

CLIENT: Equiva - Karen Petryna

SITE: 540 Hegenberger Road
Oakland, CA

CONDUCT ANALYSIS TO DETECT

LAB _____ 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

SAMPLE I.D.			MATRIX S = SOIL W = H2O	CONTAINERS TOTAL	C = COMPOSITE ALL CONTAINERS	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 #
MW 1	3-2-00	925	W	3		X	X					Confirm			
MW 2	3-2-00	900	W	3		X	X					Highest			
MW 3	3-2-00	105	W	3		X	X					MTBE			
												By 8260			

SAMPLING COMPLETED DATE 3-2-00 TIME

SAMPLING PERFORMED BY Oscar

RESULTS NEEDED NO LATER THAN

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
O. Angulo	3-3-00	9:40		3-3	
TJT (MH)	3-6-00	07:30		3/6/00	0900

SHIPPED VIA | DATE SENT | TIME SENT | COOLER #

WELL GAUGING DATA

Project # 000103-Y1 Date 1-3-00 Client EQUVA

Site 540 HEGENBERGER RD 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	
MW-1	2					8.52	24.30	TOC	
MW-3	2					7.46	19.41	"	

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000103 -41	Site: 204 - 5508 - 5900
Sampler: LEON G.	Date: 12 1-3-00
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 24.30	Depth to Water: 6.52
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.
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	@ 9:23					
STOPPED PURGE	@ 1006					

Did well dewater? Yes No — Gallons actually evacuated: 40

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 #: 000103-41	Site: 204-5508-5900
Sampler: Leon G.	Date: 1-3-00
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.41	Depth to Water: 7.46
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^2 * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
STARTED PURGE @ 8:23						
STOPPED PURGE @ 9:06						

Did well dewater? Yes No — Gallons actually evacuated: 40

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

WELL GAUGING DATA

Project # 000107z2 Date 1-7-00 Client Shell

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 TOC	
MW-1	2					8.53	24.43		
MW-3	2					6.98	19.55		

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000107-22	Site: 204-5503-5905
Sampler: BF	Date: 1-7-05
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 24.43	Depth to Water: 3.58
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^2 * 0.163

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

Did well dewater? Yes No		Gallons actually evacuated:	
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 #: 030107-5-21	Site: 204 - 5502 - 5900
Sampler: BF	Date: 1-7-05
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.55	Depth to Water: 6.99
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^2 * 0.163

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

Did well dewater? Yes No		Gallons actually evacuated:	
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

WELL GAUGING DATA

Project # 000113-P1 Date 1-13-00 Client Equiva

Site 540 Hegenberger Rd. 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	
MW-1	2					8.16	24.45	2	
MW-3	2					6.63	19.55	2	

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000113-P1	Site: 204-5508-5900
Sampler: PAN	Date: 1-13-00
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 24.45	Depth to Water: 8.16
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

Bailer	Waterra	
Disposable Bailer	Peristaltic	
Middleburg X	Extraction Pump	
Electric Submersible	Other_____	

Sampling Method: Bailer

Disposable Bailer	
Extraction Port	
Dedicated Tubing	
Other: _____	

Weekly (Gals.) X 45 min Purge 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
9:45		start	Purge			
10:30		End	Purge			
	Removed	Approx	45		5 gallons	

Did well dewater? Yes No		Gallons actually evacuated: 45	
Sampling Time:		Sampling Date: 1-13-00	
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 #: 000113-P1	Site: 204-5508-5900
Sampler: Paul	Date: 1-13-00
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.55	Depth to Water: 6.63
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

Bailer	Waterra	
Disposable Bailer	Peristaltic	
Middleburg X	Extraction Pump	
Electric Submersible	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
10:45	Start Purge					
11:30	stop Purge					
	Purged Approx		45 Gallons			

Did well dewater? Yes No		Gallons actually evacuated: 45	
Sampling Time:		Sampling Date: 1-13-00	
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

WELL GAUGING DATA

Project # 000121-42 Date 1-21-00 Client EQUILON

Site 540 HEGENBERGER RD 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	
MW-1	2					8.80	24.29	TOC	
MW-3	2					7.15	19.44	↓	

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000121-Y2	Site: 204-5508-5900
Sampler: Leon G.	Date: 1-21-00
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 24.29	Depth to Water: 4.80
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^2 * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
STARTED PURGE		@	1212	PURGE ONLY		
STOPPED		@	1257			

Did well dewater? Yes No — Gallons actually evacuated: 35

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 #: 000171-42	Site: 204-5508-5900
Sampler: LEON G.	Date: 1-21-00
Well I.D.: 19.44 MW-3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.44	Depth to Water: 7.15
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^2 * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
STARTED PURGE @			1120	PURGE ONLY		
STOPPED @			1205			

Did well dewater? Yes No — Gallons actually evacuated: 35

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

WELL GAUGING DATA

Project # 000125-T3 Date 1-25-00 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	
MW-1	2					8.02	24.9	TOC	
MW-3	2					5.92	19.57	✓	

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000125-23	Site: 204-5503-5900
Sampler: BF	Date: 1-25-00
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 24.45	Depth to Water: 9.02
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^2 * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
	* Weekly Purge				11	

Did well dewater? Yes No Gallons actually evacuated: 35gal

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 #: 000125-23	Site: 204-5508-5900
Sampler: BF	Date: 1-25-00
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.57	Depth to Water: 5.92
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	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
	W	Well	Purge		4	

Did well dewater? Yes No — Gallons actually evacuated: 33

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

WELL GAUGING DATA

Project # 000201-43 Date 2-1-00 Client CONOCO

Site 540 HEGENBERGER RD 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	
MW-1	2					6.75	24.38	TOC	
MW-3	2					6.46	19.45	"	

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000201-41	Site: 204-5508-5900
Sampler: Leon G.	Date: 2-1-00
Well I.D.: mw-1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 24.38	Depth to Water: 8.75
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	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
STARTED PURGE		@	1205			
STOPPED		@	1250			
			PURGE ONLY			

Did well dewater? Yes No — Gallons actually evacuated: 22

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 #: 000201-43	Site: 204-5506-5902
Sampler: Leon G.	Date: 2-1-00
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.45	Depth to Water: 6.48
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^2 * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
STARTED PURGE @			1115			
STOPPED		@	1200			
			PURGE ONLY			

Did well dewater? Yes No — Gallons actually evacuated: 23

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

WELL GAUGING DATA

Project # 000211-T3 Date 2-11-00 Client 204-5508-5900

Site 540 Heggenberger 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 TOC	
MW1	2					8.15	24.27	↓	
MW3	2					6.90	19.36	↓	

EQUIVA WELL MONITORING DATA SHEET

BTS #: 000211-T3	Site: 204-5508-5900
Sampler: MT	Date: 2/11
Well I.D.: MW1	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 24.27	Depth to Water: 8.15
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 X
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other_____

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

_____(Gals.) X Purge Only = _____ 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	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1150	Start					
1235	Stop				28	

Did well dewater? Yes (No) Gallons actually evacuated: 28

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 #: 000211-EQ	Site: 204-5508-5900
Sampler: MT	Date: 2/11
Well I.D.: MW3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth:	Depth to Water:
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (TOC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

Bailer
Disposable Bailer
Middleburg X
Electric Submersible
Waterra
Peristaltic
Extraction Pump
Other ____

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

____ (Gals.) X Purge Only = ____ 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	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1240	Start					
1325	Stop				22	

Did well dewater? Yes (No) Gallons actually evacuated: 22

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

WELL MONITORING DATA SHEET

Project #: 000215M-3	Client: Equiva
Sampler: Mark S.	Start Date: 2-15-00
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth: 19.55	Depth to Water: 5.47
Before: After:	Before: After:
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 / Extraction Pump / Other: _____

Weekly Purge

Sampling Method: Bailer / Disposable Bailer / Extraction Port / Other: _____

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

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1420	Started to	purge	well			strong odor
1435	Well de-watered				12	↓
1445	Started to	purge	well			
1500	Stopped purging		well		10	

Did well dewater? (Yes) No — Gallons actually evacuated: 22

Sampling Time: — Sampling Date:

Sample I.D.: — Laboratory:

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

Equipment Blank I.D.: @ Time — Duplicate I.D.:

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

WELL GAUGING DATA

Project # 000223M-2 Date 2-23-00 Client Equiva

Site 540 Hegenberger Rd. @ Oakland CA

Weekly Purge

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	
MW-1						7.87	24.40	TOC	
MW-3						5.20	17.70	↓	

WELL MONITORING DATA SHEET

Project #: 000223m-2	Client: Equiva
Sampler: Mark S.	Start Date: 2-23-00
Well I.D.: MW-1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 24.40	Depth to Water: 7.87
Before: After:	Before: After:
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 / Extraction Pump / Other: _____

Sampling Method: Bailer / Disposable Bailer / Extraction Port / Other: _____

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

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1036	Started to Purge			Well		
1100	Well de-watered				15	
1110	Started to Purge			Well		
1120	Stopped Purging well				5	
* Total Purge			20	gallons		

Did well dewater? Yes No — Gallons actually evacuated: 20

Sampling Time: — Sampling Date:

Sample I.D.: — Laboratory:

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

Equipment Blank I.D.: @ Time — Duplicate I.D.:

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

WELL MONITORING DATA SHEET

Project #: 000223m-2	Client: Equiva
Sampler: Mark S.	Start Date: 2-23-00
Well I.D.: MW-3	Well Diameter: ② 3 4 6 8 ___
Total Well Depth: 17.70	Depth to Water: 5.20
Before: After:	Before: After:
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 / Extraction Pump / Other: _____

Sampling Method: Bailer / Disposable Bailer / Extraction Port / Other: _____

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

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1120	Started to Purge Well					odor
1140	Well de-watered				15	↓
1145	Started to Purge well					↓
1205	Stopped Purging well				15	↓
*	Total Purge 30 gallons					

Did well dewater? (Yes) No — Gallons actually evacuated: 30

Sampling Time:		Sampling Date:	
Sample I.D.:		Laboratory:	
Analyzed for: TPH-G BTEX MTBE TPH-D		Other:	
Equipment Blank I.D.: @ Time		Duplicate I.D.:	
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

WELL GAUGING DATA

Project # 000302-A1 Date 3-2-00 Client Cambria

Site 590 Hegenberger Rd.

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	
MW 1	2					8.83	24.39	TOC	≃ 95 gallons purged
MW 5	2					6.33	19.59	↓	
MW 6	2					5.87	19.98	↓	≃ 95 gallons purged

EQUIVA WELL MONITORING DATA SHEET

Project #: 000302-A1	Job # 204-5508-5900
Sampler: A	Date: 3-2-00
Well I.D.: MW1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 29.39	Depth to Water: 8.83
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 (circled) / Electric Submersible / Extraction Pump / Other: ___

Sampling Method: Bailer (circled) / Extraction Port / Other: ___

2.9 (1 Case Volume (Gals.)) X 3 (Specified Volumes) = 7.2 (Calculated Volume) Gals.

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
915	60.3	7.2	7971	>200	2.5	approx 45 gal's
17	62.9	7.1	12.0	>200	5	Purged for weekly
920	60.9	7.3	15.4	>200	7.5	

Did well dewater? Yes (No) Gallons actually evacuated: 7.5

Sampling Time: 925 Sampling Date: 3-2-00

Sample I.D.: MW1 Laboratory: (Sequoia) BC Other ___

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

D.O. (if req'd):	Pre-purge:	3.2 mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 000302-141	Job # 204-5508.5900
Sampler: A	Date: 3-2-00
Well I.D.: MW2	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.59	Depth to Water: 10.33
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: ___

2"	X	3	=	6.3 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
851	59.1	6.8	1002	>200	2	
854	60.7	7.0	1012	193	4	
857	61.2	7.1	1028	171	6.5	

Did well dewater? Yes (No)		Gallons actually evacuated: 6.5	
Sampling Time: 900		Sampling Date: 3-2-00	
Sample I.D.: MW2		Laboratory: (Sequoia) BC Other ___	
Analyzed for: ~~TPH-G~~ BTEX MTBE TPH-D Other:			
D.O. (if req'd):	Pre-purge: .4 mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge: mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

Project #: 000302-m1	Job # 209.5508.5900
Sampler: A	Date: 3-2-00
Well I.D.: MW3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 19.98	Depth to Water: 5.87
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: ___

2.1	X	3	=	6.3 Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
950	58.4	7.5	1202	>200	2.5	aprox 45 gals purged for Weekly
955	61.0	7.2	1257	178	4.5	
1000	60.9	7.3	1301	>200	6.5	

Did well dewater? Yes (No)	Gallons actually evacuated: 7
Sampling Time: 1005	Sampling Date: 3-2-00
Sample I.D.: MW3	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