

March 25, 2002

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

APR 05 2002

RE: EQUILON ENTERPRISES LLC / Equiva Services LLC dba SHELL OIL PRODUCTS US

Dear Sir or Madam:

The Shell purchase of Texaco's interest in Equilon Enterprises LLC and Equiva Services LLC has been approved by government authorities and was completed in early February.

Please be advised that effective March 1, 2002, Equilon Enterprises LLC and Equiva Services LLC will begin doing business as (DBA) "Shell Oil Products US." Since Equilon Enterprises LLC will remain the owner and/or the responsible Party of remediation activities at 105 5th Street, Oakland, California, no changes are needed or requested for permits.

If you have any questions please contact Ms. Karen Petryna at 559.645.9306.

Yours truly,

Stephen A. Bork (Cambria)

for: Karen Petryna
Sr. Environmental Engineer

C A M B R I A

April 2, 2002

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

Re: **First Quarter 2002 Monitoring Report**
Shell-branded Service Station
105 Fifth Street
Oakland, California
Incident #98995757
Cambria Project #244-0472-002



Dear Mr. Chan:

Effective March 1, 2002, Equiva Services LLC and Equilon Enterprises LLC are now doing business as (dba) Shell Oil Products US (Shell). On behalf of Shell, Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

HISTORICAL REMEDIATION SUMMARY

Mobile dual-phase vacuum extraction (DVE) was performed at the site from April to November 2000 and once in March 2001. Mobile DVE is the process of applying a high vacuum through an airtight well seal to simultaneously extract soil vapors from the vadose zone and enhance groundwater extraction from the saturated zone. Between April 2000 and March 2001, the DVE process removed an estimated 14.59 lbs of total petroleum hydrocarbons as gasoline and 14.50 lbs. of methyl tertiary butyl ether from monitoring wells MW-2 and MW-3. DVE was discontinued due to limited chemical recovery.

FIRST QUARTER 2002 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled the site wells, calculated groundwater elevations, and compiled the analytical data. Cambria prepared a vicinity map showing well survey data (Figure 1) and a groundwater elevation contour map (Figure 2). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

Oakland, CA
San Ramon, CA
Sonoma, CA

**Cambria
Environmental
Technology, Inc.**

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

GWE: In January, February, and March, 2002, Phillips Services Corporation of Benicia, California conducted semi-monthly mobile GWE events from tank backfill well T-1. Mobile GWE vacuum operations consist of lowering dedicated stingers into selected monitoring wells and extracting fluids using a vacuum truck. The volume of extracted fluid is recorded and used to calculate the quantity of aqueous-phase hydrocarbon removed from the subsurface. Mass removal data from the GWE events is presented in Table 1. Semi-monthly mobile GWE from well T-1 will continue until May 2002, at which time the effectiveness of the GWE events will be evaluated.

Monitoring Well Installation and Conduit Investigation: On March 7 and 8, 2002, Cambria performed the offsite subsurface conduit investigation and an onsite monitoring well installation that was proposed to the Alameda County Health Care Services Agency (ACHCSA) on December 17, 2001, and approved in an ACHCSA letter dated January 4, 2002. The new well and boring locations (SB-8 through SB-12) are shown on Figure 2.



ANTICIPATED SECOND QUARTER 2002 ACTIVITIES

Groundwater Monitoring: Blaine will gauge and sample all wells, and tabulate the data. Cambria will prepare a monitoring report.

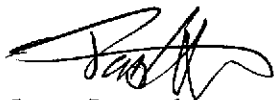
GWE: Cambria will continue semi-monthly mobile GWE from tank backfill well T-1 until May 2002, at which time the effectiveness of the GWE events will be evaluated.

Monitoring Well Installation and Conduit Investigation: Cambria will submit a report presenting the findings of our March 2002 subsurface investigation.

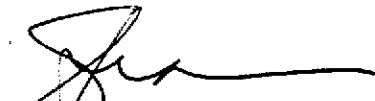
CLOSING

We appreciate the opportunity to work with you on this project. Please call James Loetterle at (510) 420-3336 if you have any questions or comments.

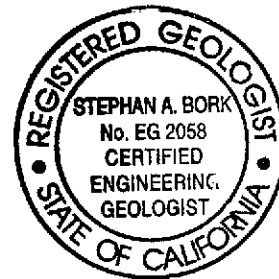
Sincerely,
Cambria Environmental Technology, Inc



James Loetterle
Project Geologist



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



Figures: 1 - Vicinity/Well Survey Map
2 - Groundwater Elevation Contour Map

Table: 1 - Groundwater Extraction – Mass Removal Data

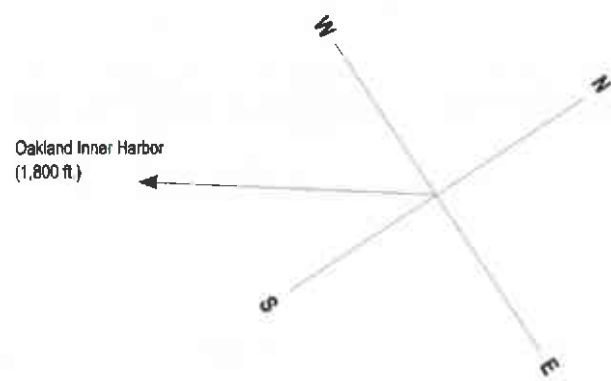
Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, CA 91510-7869
Arthur R. and Mary A. Hansen, Trs., et al, 820 Loyola Drive, Los Altos, CA 94024

\\SERVER\SHELL\Oakland 105 Fifth\Qm\1q02\1q02qm.doc



Location of Sensitive Receptor Relative to Site
(Oakland Inner Harbor - 1,800 ft. S 36° W)

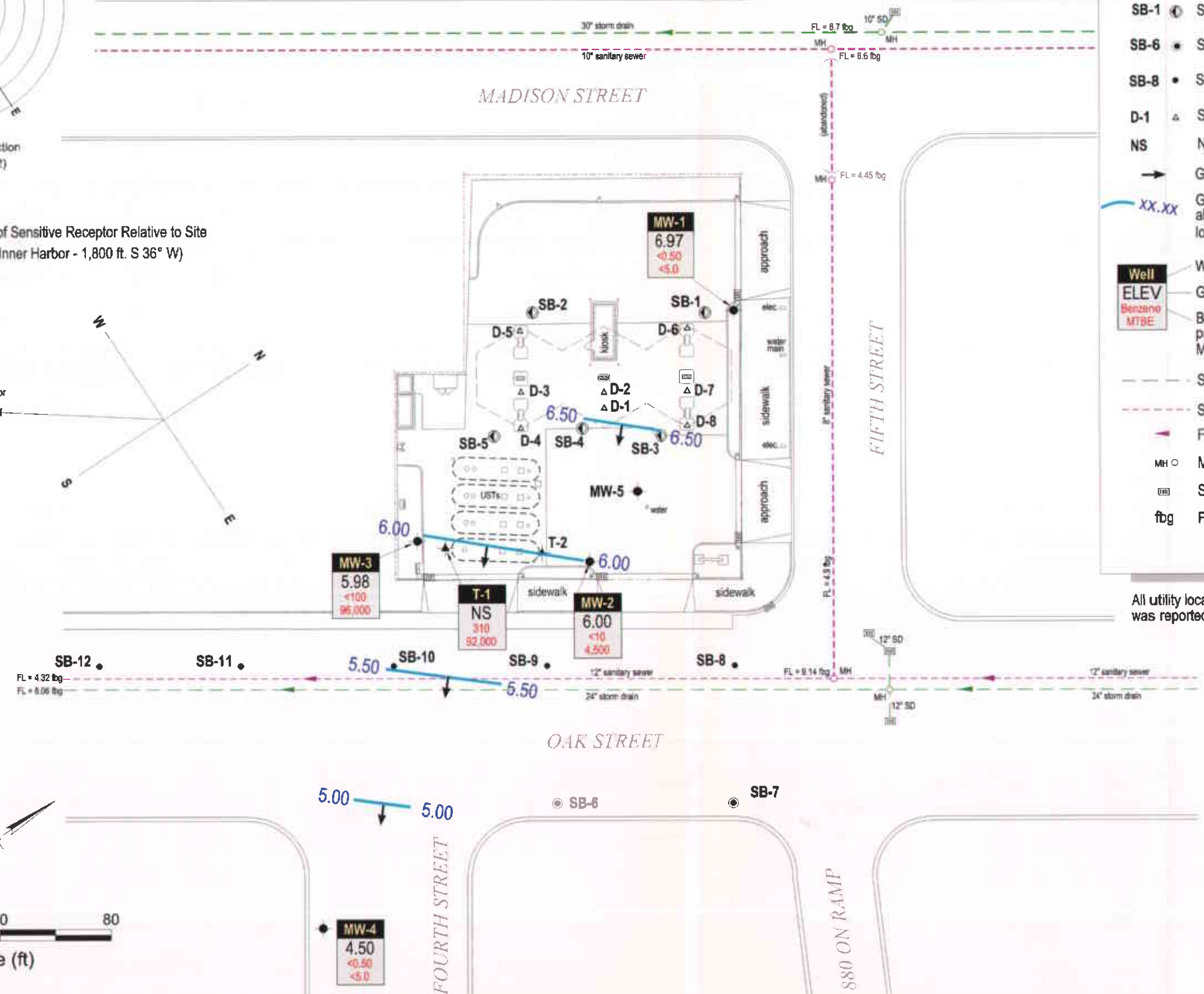


EXPLANATION

- MW-1 ● Monitoring well location
- T-1 ▲ Tank backfill well location
- SB-1 ● Soil boring location (7/98)
- SB-6 ● Soil boring location (2/01)
- SB-8 ● Soil boring location (3/02)
- D-1 ▲ Soil sample location
- NS Not surveyed
- Groundwater flow direction
- XX.XX Groundwater elevation contour, in feet above mean sea level (msl), approximately located, dashed where inferred

Well	ELEV	Benzene	MTBE
MW-1	6.97	<0.50	<5.0
MW-3	5.98	<100	96,000
T-1	NS	310	92,000
MW-2	6.00	<10	4,500
MW-4	4.50	<0.50	<5.0

- Storm drain line
- - - Sanitary sewer line
- Flow direction
- MH ○ Manhole
- ▣ Storm drain inlet
- fbg Feet below grade



All utility locations are approximate. Utility information was reported by Cambria during June 2001.

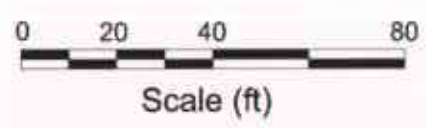


FIGURE
2



Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995757, 105 Fifth Street, Oakland, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH			Benzene			MTBE		
					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)
04/21/00	MW-2	150	150	04/07/00	4,940	0.00618	0.00618	659	0.00082	0.00082	41,800	0.05232	0.05232
04/28/00	MW-2	100	250	04/07/00	4,940	0.00412	0.01031	659	0.00055	0.00137	41,800	0.03488	0.08720
05/05/00	MW-2	310	560	04/07/00	4,940	0.01278	0.02308	659	0.00170	0.00308	41,800	0.10813	0.19532
05/12/00	MW-2	350	910	04/07/00	4,940	0.01443	0.03751	659	0.00192	0.00500	41,800	0.12208	0.31740
06/02/00	MW-2	257	1,167	04/07/00	4,940	0.01059	0.04811	659	0.00141	0.00642	41,800	0.08964	0.40704
07/06/00	MW-2	334	1,501	04/07/00	4,940	0.01377	0.06187	659	0.00184	0.00825	41,800	0.11650	0.52354
09/12/00	MW-2	312	1,813	07/26/00	5,010	0.01304	0.07492	409	0.00106	0.00932	54,300	0.14137	0.66491
10/26/00	MW-2	56	1,869	07/26/00	5,010	0.00234	0.07726	409	0.00019	0.00951	54,300	0.02537	0.69028
04/21/00	MW-3	100	100	04/07/00	<1,000	0.00042	0.00042	853	0.00071	0.00071	283,000	0.23615	0.23615
04/28/00	MW-3	100	200	04/07/00	<1,000	0.00042	0.00083	853	0.00071	0.00142	283,000	0.23615	0.47229
05/05/00	MW-3	50	250	04/07/00	<1,000	0.00021	0.00104	853	0.00036	0.00178	283,000	0.11807	0.59036
05/12/00	MW-3	150	400	04/07/00	<1,000	0.00063	0.00167	853	0.00107	0.00285	283,000	0.35422	0.94458
06/02/00	MW-3	550	950	04/07/00	<1,000	0.00229	0.00396	853	0.00391	0.00676	283,000	1.29880	2.24338
07/06/00	MW-3	528	1,478	04/07/00	<1,000	0.00220	0.00617	853	0.00376	0.01052	283,000	1.24685	3.49023
08/16/00	MW-3	849	2,327	07/26/00	<20,000	0.07084	0.07701	<200	0.00071	0.01123	320,000	2.26699	5.75722
09/12/00	MW-3	188	2,515	07/26/00	<20,000	0.01569	0.09270	<200	0.00016	0.01139	320,000	0.50200	6.25922
10/26/00	MW-3	156	2,671	07/26/00	<20,000	0.01302	0.10571	<200	0.00013	0.01152	320,000	0.41655	6.67577
11/26/01	T-1*	2,700	2,700	10/23/01	<50,000	0.56324	0.56324	<250	0.00282	0.00282	180,000	4.05536	4.05536
12/10/01	T-1*	2,750	5,450	10/23/01	<50,000	0.57367	1.13692	<250	0.00287	0.00568	180,000	4.13046	8.18581
12/26/01	T-1*	2,800	8,250	10/23/01	<50,000	0.58410	1.72102	<250	0.00292	0.00861	180,000	4.20556	12.39137
01/09/02	T-1	5,184	13,434	01/07/02	<20,000	0.43257	2.15359	310	0.01341	0.02201	92,000	3.97966	16.37103
01/23/02	T-1	4,250	17,684	01/07/02	<20,000	0.35464	2.50823	310	0.01099	0.03301	92,000	3.26264	19.63367
02/06/02	T-1	4,000	21,684	01/07/02	<20,000	0.33377	2.84200	310	0.01035	0.04336	92,000	3.07072	22.70439
02/20/02	T-1	3,000	24,684	01/07/02	<20,000	0.25033	3.09233	310	0.00776	0.05112	92,000	2.30304	25.00743
03/06/02	T-1	4,500	29,184	01/07/02	<20,000	0.37550	3.46783	310	0.01164	0.06276	92,000	3.45456	28.46200
Total Gallons Extracted:		33,724		Total Pounds Removed:		3.65080		0.08378		35.82805		5.77872	
				Total Gallons Removed:		0.59849		0.01148					

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995757, 105 Fifth Street, Oakland, California

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

Abbreviations & Notes:

TPPH = Total purgeable hydrocarbons as gasoline

MtBE = Methyl tert-butyl ether

ppb = Parts per billion

gal = Gallon

* = Concentrations for tank backfill well T-1 estimated from nearest monitoring well MW-3.

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

TPPH, benzene MTBE analyzed by EPA Method 8260 are in bold font, all other results analyzed by EPA Method 8020.

Concentrations based on most recent groundwater monitoring results

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

If concentration is less than the laboratory detection limit, one half of the detection limit concentration is used in the mass removal calculation.

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

January 28, 2002

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

First Quarter 2002 Groundwater Monitoring at
Shell-branded Service Station
105 5th Street
Oakland, CA

Monitoring performed on January 7, 2002

Groundwater Monitoring Report 020107-CW-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. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/mrb

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

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

WELL CONCENTRATIONS
Shell-branded Service Station
105 5th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (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	07/20/1999	NA	NA	NA	NA	NA	NA	NA	NA	12.22	17.56	-5.34	NA
MW-1	07/23/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	<2.00	12.22	6.45	5.77	NA
MW-1	11/01/1999	100	NA	15.6	3.12	4.04	12.6	6.69	NA	12.22	6.59	5.63	0.5/0.7
MW-1	01/05/2000	<50.0	<20.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	12.22	6.38	5.84	1.2/1.4
MW-1	04/07/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	12.22	5.83	6.39	1.6/2.4
MW-1	07/26/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	12.22	6.10	6.12	1.1/1.4
MW-1	10/28/2000	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	12.22	14.08	-1.86	2.2/2.7
MW-1	01/30/2001	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	12.22	10.71	1.51	1.2/1.6
MW-1	04/17/2001	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	12.22	6.61	5.61	2.4/4.4
MW-1	07/09/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	12.22	6.31	5.91	1.4/3.4
MW-1	10/23/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	12.22	6.24	5.98	2.6/4.1
MW-1	01/07/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	12.22	5.25	6.97	NA

MW-2	07/20/1999	NA	NA	NA	NA	NA	NA	NA	NA	10.87	18.24	-7.37	NA
MW-2	07/23/1999	13,800	NA	1,790	<100	<100	682	29,900	29,400	10.87	5.98	4.89	NA
MW-2	11/01/1999	2,420	NA	316	10.8	119	44.2	17,000	NA	10.87	6.03	4.84	0.5/0.3
MW-2	01/05/2000	2,120a	687	301a	<5.00a	116a	84.4a	14,700	NA	10.87	5.90	4.97	2.1/2.6
MW-2	04/07/2000	4,940b	1,300	659b	<25.0b	214b	314b	41,800b	NA	10.87	5.37	5.50	0.4/0.2
MW-2	07/26/2000	5,010	1,520	409	<50.0	302	307	54,300	NA	10.87	5.81	5.06	2.1/2.2
MW-2	10/28/2000	1,720	412	82.2	<10.0	46.0	102	9,800	NA	10.87	14.59	-3.72	0.7/0.7
MW-2	01/30/2001	1,640	574	14.7	<5.00	40.1	58.1	3,670	NA	10.87	10.31	0.56	1.8/2.0
MW-2	04/17/2001	598	179	21.8	<2.00	16.9	10.8	5,630	NA	10.87	6.08	4.79	1.5/2.6
MW-2	07/09/2001	<1,000	<500	19	<10	33	15	NA	6,200	10.87	5.70	5.17	1.1/2.0
MW-2	10/23/2001	<5,000	<500	50	<25	92	<25	NA	13,000	10.87	5.72	5.15	2.0/3.2
MW-2	01/07/2002	<1,000	<200	<10	<10	<10	<10	NA	4,500	10.87	4.87	6.00	NA

WELL CONCENTRATIONS
Shell-branded Service Station
105 5th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (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	07/20/1999	NA	NA	NA	NA	NA	NA	NA	NA	11.27	19.07	-7.80	NA
MW-3	07/23/1999	128	NA	<0.500	<0.500	<0.500	<0.500	404,000	324,000	11.27	6.43	4.84	NA
MW-3	11/01/1999	<1,000	NA	<10.0	<10.0	<10.0	<10.0	169,000	224,000	11.27	6.48	4.79	0.5/0.3
MW-3	01/05/2000	137	322	<1.00	<1.00	<1.00	<1.00	165,000	219,000	11.27	6.35	4.92	2.4/2.2
MW-3	04/07/2000	<1,000	264	853	<10.0	<10.0	<10.0	283,000	196,000a	11.27	5.91	5.36	04/0.2
MW-3	07/26/2000	<20,000	585	<200	<200	<200	<200	437,000	320,000	11.27	5.83	5.44	1.9/1.7
MW-3	10/28/2000	<12,500	441	<125	<125	<125	<125	266,000	308,000	11.27	17.51	-6.24	1.1/1.4
MW-3	01/30/2001	<5,000	555	<50.0	<50.0	<50.0	<50.0	248,000	167,000a	11.27	11.43	-0.16	2.0/2.2
MW-3	04/17/2001	<5,000	347	<50.0	<50.0	<50.0	<50.0	134,000	133,000	11.27	6.57	4.70	1.3/1.2
MW-3	07/09/2001	<20,000	250	<200	<200	<200	<200	NA	170,000	11.27	6.12	5.15	1.2/1.9
MW-3	10/23/2001	<50,000	260	<250	<250	<250	<250	NA	180,000	11.27	6.25	5.02	2.2/1.6
MW-3	01/07/2002	<10,000	160	<100	<100	<100	<100	NA	96,000	11.27	5.29	5.98	NA
MW-4	03/23/2001	NA	NA	NA	NA	NA	NA	NA	NA	9.50	8.21	1.29	NA
MW-4	04/17/2001	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	NA	9.50	5.08'	4.42	2.4/2.6
MW-4	07/09/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	9.50	4.64	4.86	2.0/1.5
MW-4	10/23/2001	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	9.50	7.90	1.60	2.8/1.8
MW-4	01/07/2002	<50	64	<0.50	<0.50	<0.50	<0.50	NA	<5.0	9.50	5.00	4.50	NA
T-1	01/07/2002	<20,000	2,600	310	<200	<200	<200	NA	92,000	NA	4.86	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
105 5th Street
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (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 EPA Method 8260B; prior to July 9, 2001 analyzed by EPA Method 8015.

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B; prior to July 9, 2001 analyzed by EPA Method 8020.

MTBE = methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

GW = Groundwater

DO = Dissolved Oxygen

ug/L = parts per billion

ppm = parts per million

msl = Mean sea level

ft = Feet

<n = Below detection limit

NA = Not applicable

n/n = Pre-purge/Post-purge

Notes:

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

b = Result was generated out of hold time.

Top of casing for well MW-4 provided by Cambria Environmental Technology, Inc.



Report Number : 24227

Date : 1/16/2002

Nick Sudano
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject : 5 Water Samples
Project Name : 105 5th Street, Oakland
Project Number : 020107-CW-1
P.O. Number : 98995757

Dear Mr. Sudano,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Joel Kiff



Report Number : 24227

Date : 1/16/2002

Subject : 5 Water Samples
Project Name : 105 5th Street, Oakland
Project Number : 020107-CW-1
P.O. Number : 98995757

Case Narrative

The Method Reporting Limit for TPH as Diesel is increased due to interference from Gasoline-Range Hydrocarbons for sample MW-2.

Approved By:  _____
Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800



Report Number : 24227

Date : 1/16/2002

Project Name : 105 5th Street, Oakland

Project Number : 020107-CW-1

Sample : MW-1

Matrix : Water

Lab Number : 24227-01

Sample Date :1/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/10/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/10/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/10/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/10/2002
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	1/10/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/10/2002
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	1/10/2002
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	1/10/2002
TPH as Diesel	< 50	50	ug/L	M EPA 8015	1/15/2002

Sample : MW-2

Matrix : Water

Lab Number : 24227-02

Sample Date :1/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 10	10	ug/L	EPA 8260B	1/10/2002
Toluene	< 10	10	ug/L	EPA 8260B	1/10/2002
Ethylbenzene	< 10	10	ug/L	EPA 8260B	1/10/2002
Total Xylenes	< 10	10	ug/L	EPA 8260B	1/10/2002
Methyl-t-butyl ether (MTBE)	4500	100	ug/L	EPA 8260B	1/10/2002
TPH as Gasoline	< 1000	1000	ug/L	EPA 8260B	1/10/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	1/10/2002
4-Bromofluorobenzene (Surr)	99.7		% Recovery	EPA 8260B	1/10/2002
TPH as Diesel	< 200	200	ug/L	M EPA 8015	1/15/2002

Approved By:  Joel Kiff



Report Number : 24227

Date : 1/16/2002

Project Name : 105 5th Street, Oakland

Project Number : 020107-CW-1

Sample : MW-3

Matrix : Water

Lab Number : 24227-03

Sample Date :1/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 100	100	ug/L	EPA 8260B	1/11/2002
Toluene	< 100	100	ug/L	EPA 8260B	1/11/2002
Ethylbenzene	< 100	100	ug/L	EPA 8260B	1/11/2002
Total Xylenes	< 100	100	ug/L	EPA 8260B	1/11/2002
Methyl-t-butyl ether (MTBE)	96000	2000	ug/L	EPA 8260B	1/12/2002
TPH as Gasoline	< 10000	10000	ug/L	EPA 8260B	1/11/2002
Toluene - d8 (Surr)	95.2		% Recovery	EPA 8260B	1/11/2002
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	1/11/2002
TPH as Diesel	160	50	ug/L	M EPA 8015	1/15/2002

Sample : MW-4

Matrix : Water

Lab Number : 24227-04

Sample Date :1/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/9/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/9/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/9/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/9/2002
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	1/9/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/9/2002
Toluene - d8 (Surr)	98.9		% Recovery	EPA 8260B	1/9/2002
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	1/9/2002
TPH as Diesel	64	50	ug/L	M EPA 8015	1/15/2002

Approved By:  Joel Kiff



Report Number : 24227

Date : 1/16/2002

Project Name : 105 5th Street, Oakland

Project Number : 020107-CW-1

Sample : T-1

Matrix : Water

Lab Number : 24227-05

Sample Date :1/7/2002

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	310	200	ug/L	EPA 8260B	1/11/2002
Toluene	< 200	200	ug/L	EPA 8260B	1/11/2002
Ethylbenzene	< 200	200	ug/L	EPA 8260B	1/11/2002
Total Xylenes	< 200	200	ug/L	EPA 8260B	1/11/2002
Methyl-t-butyl ether (MTBE)	92000	5000	ug/L	EPA 8260B	1/12/2002
TPH as Gasoline	< 20000	20000	ug/L	EPA 8260B	1/11/2002
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	1/11/2002
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	1/11/2002
TPH as Diesel	2600	50	ug/L	M EPA 8015	1/15/2002

Approved By:  Joel Kiff

Report Number : 24227

Date : 1/16/2002

QC Report : Method Blank Data

Project Name : **105 5th Street, Oakland**

Project Number : **020107-CW-1**

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
TPH as Diesel	< 50	50	ug/L	MEPA 8015	1/14/2002
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/9/2002
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/9/2002
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/9/2002
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/9/2002
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/9/2002
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/9/2002
Toluene - d8 (Surr)	102		%	EPA 8260B	1/9/2002
4-Bromofluorobenzene (Surr)	114		%	EPA 8260B	1/9/2002

<u>Parameter</u>	<u>Measured Value</u>	<u>Method Reporting Limit</u>	<u>Units</u>	<u>Analysis Method</u>	<u>Date Analyzed</u>
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KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By: Joel Kiff



Report Number : 24227

Date : 1/16/2002

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **105 5th Street, Oakland**

Project Number : **020107-CW-1**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	1010	1120	ug/L	M EPA 8015	1/14/2002	101	112	10.1	70-130	25
Benzene	24228-01	<0.50	18.9	19.1	18.1	18.8	ug/L	EPA 8260B	1/9/2002	95.8	98.8	3.16	70-130	25
Toluene	24228-01	<0.50	18.9	19.1	17.2	18.2	ug/L	EPA 8260B	1/9/2002	91.3	95.4	4.34	70-130	25
Tert-Butanol	24228-01	<5.0	94.3	95.3	86.0	88.7	ug/L	EPA 8260B	1/9/2002	91.2	93.1	2.02	70-130	25
Methyl-t-Butyl Ether	24228-01	<0.50	18.9	19.1	18.2	18.4	ug/L	EPA 8260B	1/9/2002	96.6	96.7	0.0776	70-130	25

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  _____
 Approved By: Joel Kiff

Report Number : 24227

Date : 1/16/2002

QC Report : Laboratory Control Sample (LCS)

Project Name : **105 5th Street, Oakland**

Project Number : **020107-CW-1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	1/9/2002	95.7	70-130
Toluene	40.0	ug/L	EPA 8260B	1/9/2002	91.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	1/9/2002	93.4	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	1/9/2002	95.8	70-130

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Approved By:  _____
Joel Kiff

LAB: Kitt.

EQUIVA Services LLC Chain Of Custody Record

(Job Identification (if necessary):

Address:

City State Zip:

Equiva Project Manager to be invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Karen Petryna

24227

INCIDENT NUMBER (SEE ONLY)

9 8 9 9 5 7 5 7

SAP or CRMT NUMBER (TS/CRMT)

DATE: 1-7-02

PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services		LOG CODE: BTSS	SITE ADDRESS (Street and City): 105 5th Street, Oakland		GLOBAL ID NO.: T0600102116
ADDRESS: 1680 Rogers Avenue, San Jose, CA 95112		EDF DELIVERABLE TO (Responsible Party or Designer): Anni Kremi		PHONE NO.: 510-420-3335	E-MAIL: akremi@cambria-env.com
PROJECT CONTACT (Hardcopy or PDF Report to): Nick Sudano		SAMPLER NAME(S) (Print): Chris Wagner		CONSULTANT PROJECT NO.: BTS # 020107-cw-1	
TELEPHONE: 408-573-0556	FAX: 408-573-7771	E-MAIL: nsudano@blainetech.com	LAB USE ONLY:		

TURNAROUND TIME (BUSINESS DAYS):
 10 DAYS
 5 DAYS
 72 HOURS
 48 HOURS
 24 HOURS
 LESS THAN 24 HOURS

LA - RWQCB REPORT FORMAT
 UST AGENCY: _____

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: _____ TEMPERATURE ON RECEIPT °C _____

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (6) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDS (8260B)	TPH - Diesel, Extractable (8015m)	MTBE (8260B) Confirmation, See Note	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
		DATE	TIME														
✓	MW-1	1/7	958	W	5	X	X	X									-01
✓	MW-2	↓	1203	↓	↓	X	X	X									-02
✓	MW-3	↓	1240	↓	↓	X	X	X									-03
✓	MW-4	↓	1038	↓	↓	X	X	X									-04
✓	T-1	↓	1138	↓	↓	X	X	X									-05

Retrieved by: (Signature) CHRIS WAGNER	Received by: (Signature) _____	Date: 1/8/02	Time: 1209
Retrieved by: (Signature) _____	Received by: (Signature) _____	Date: _____	Time: _____
Retrieved by: (Signature) _____	Received by: (Signature) John Little / Kiff Analytical	Date: 010802	Time: 1218

INSTRIBUTION: Write with final report, Green to File, Yellow and Pink to Client.

O&O Services 1/1/02 808 0370

WELL GAUGING DATA

Project # 020107-CW-1 Date 1.7.02 Client Equiva

Site 105 5th Street, 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	4					5.25	23.60	↓
MW-2	4	0/S				4.87	23.61	
MW-3	4	0	gauged w/stinger in well			5.29	24.99	
MW-4	2					5.00	20.07	
T-1	12		gauged w/stinger in well			4.86	11.50	

EQUIVA WELL MONITORING DATA SHEET

BTS #: 020107-CW-1	Site: 105 5 th Street, Oakland
Sampler: Chris W.	Date: 1-7-02
Well I.D.: MW-1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 23.60	Depth to Water: 5.25
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 Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Middleburg Extraction Pump Extraction Port
Electric Submersible Other _____ Dedicated Tubing

Other: _____

$12.0 \text{ (Gals.)} \times 3 = 36.0 \text{ Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td><u>0.65</u></td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² × 0.163</td> </tr> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	<u>0.65</u>	2"	0.16	6"	1.47	3"	0.37	Other	radius ² × 0.163	
Well Diameter	Multiplier	Well Diameter	Multiplier															
1"	0.04	4"	<u>0.65</u>															
2"	0.16	6"	1.47															
3"	0.37	Other	radius ² × 0.163															
1 Case Volume	Specified Volumes	Calculated Volume																

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
945	63.2	7.3	720	34	12.0	
948	65.2	7.3	584	57	24.0	
951	66.4	7.1	434	89	36.0	

Did well dewater? Yes No Gallons actually evacuated: 36.0

Sampling Time: 958 Sampling Date: 1-7-02

Sample I.D.: MW-1 Laboratory: Kiff Sequoia 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 #: 020109-CW-1	Site: 105 5th Street, Oakland
Sampler: Chris W.	Date: 1-7-02
Well I.D.: MW-2	Well Diameter: 2 3 4 6 8
Total Well Depth: 23.61	Depth to Water: 4.87
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

Other: _____

12.2 (Gals.) X 3 = 36.6 Gals.
 I Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.63
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Coud.	Turbidity	Gals. Removed	Observations
1150	66.4	7.1	489.1	108	12.2	odor / sheen
1153	68.2	7.0	436	117	24.4	"
1156	69.0	7.0	453	106	36.6	"

Did well dewater? Yes **No** Gallons actually evacuated: 36.6

Sampling Time: 1203 Sampling Date: 1.7.02

Sample I.D.: MW-2 Laboratory: **KJF** Sequoia 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 #: 020107-QW-1	Site: 105 5th Street, Oakland
Sampler: Chris W.	Date: 1-7-02
Well I.D.: MW-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: 24.99	Depth to Water: 5.29
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: Bailor Disposable Bailor Middleburg Electric Submersible Waterra Peristaltic Extraction Pump Other _____

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

12.8	(Gals.) X	3	=	38.4	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
1227	65.3	6.9	1384	86	12.8	odor
1250	65.8	7.0	1287	73	25.6	"
1233	66.7	7.0	1125	50	38.4	"

Did well dewater? Yes No Gallons actually evacuated: 38.4

Sampling Time: 1240 Sampling Date: 1.7.02

Sample I.D.: MW-3 Laboratory: Kiff Sequoia 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 #: 020107-CW-1	Site: 105 5th Street, Oakland
Sampler: Chris W.	Date: 1-7-02
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8
Total Well Depth: 20.07	Depth to Water: 5.00
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 Sampling Method: Bailer

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

Other: _____

$2.4 \text{ (Gals.)} \times 3 = 7.2 \text{ Gals.}$
 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
1019	63.1	6.8	1930	86	2.4	
1024	65.1	6.8	2034	>200	4.8	cloudy.
1031	65.4	6.8	2027	>200	7.2	"

Did well dewater? Yes No Gallons actually evacuated: 7.2

Sampling Time: 1038 Sampling Date: 1.7.02

Sample I.D.: MW-4 Laboratory: (Kiff) Sequoia 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

