

Ro-404

Consider sensitive receptor survey done

CAMBRIA

Do fate & transport, determine when irrigation well
at 1300 feet away will be impacted. November 26, 2001
If it plume has gone that far, sample irrigation well

eva chu
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Re: **Third Quarter 2001 Monitoring**
Former Shell Service Station
8930 Bancroft Avenue
Oakland, California
Incident #98995742
Cambria Project #243-1408-002

NOV 29 2001



Dear Ms. chu:

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

REMEDIATION SUMMARY

Weekly groundwater extraction (GWE) was performed on well MW-4 during March through May 2000. Approximately 1,075 gallons of water were extracted from the well and an estimated 0.1 pounds of MTBE were removed. GWE was discontinued due to low extraction volumes.

THIRD QUARTER 2001 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled selected site wells, calculated groundwater elevations, and compiled the analytical data. Cambria prepared a vicinity map which includes previously submitted well survey information (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

ANTICIPATED FOURTH QUARTER 2001 ACTIVITIES

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

Oxygen Releasing Compound (ORC) Installation: Cambria recommends installing ORC in well MW-4 to enhance the biological degradation of residual chemicals in groundwater at the site. Blaine will install ORC in well MW-4 during the fourth quarter 2001 and replace the ORC approximately every six months. To monitor the effectiveness of the ORC, Blaine will measure dissolved oxygen concentrations in well MW-4 and in upgradient (background) well MW-3 prior to the installation of ORC and quarterly thereafter.



C A M B R I A

eva chu
November 26, 2001

CLOSING

We appreciate the opportunity to work with you on this project. Please call Jacquelyn Jones at (510) 420-3316 if you have any questions or comments.

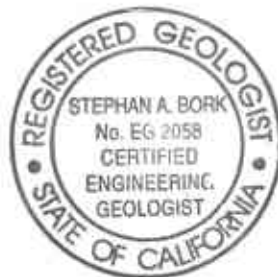
Sincerely,
Cambria Environmental Technology, Inc



Jacquelyn L. Jones
Project Geologist



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



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

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91510-7869
Leroy Griffin, Fire Prevention Bureau, 250 Frank Ogawa Plaza, 3rd Floor, Suite 3341,
Oakland, CA 94612
Sidhu Associates, 8930 Bancroft Ave., Oakland, CA 94605

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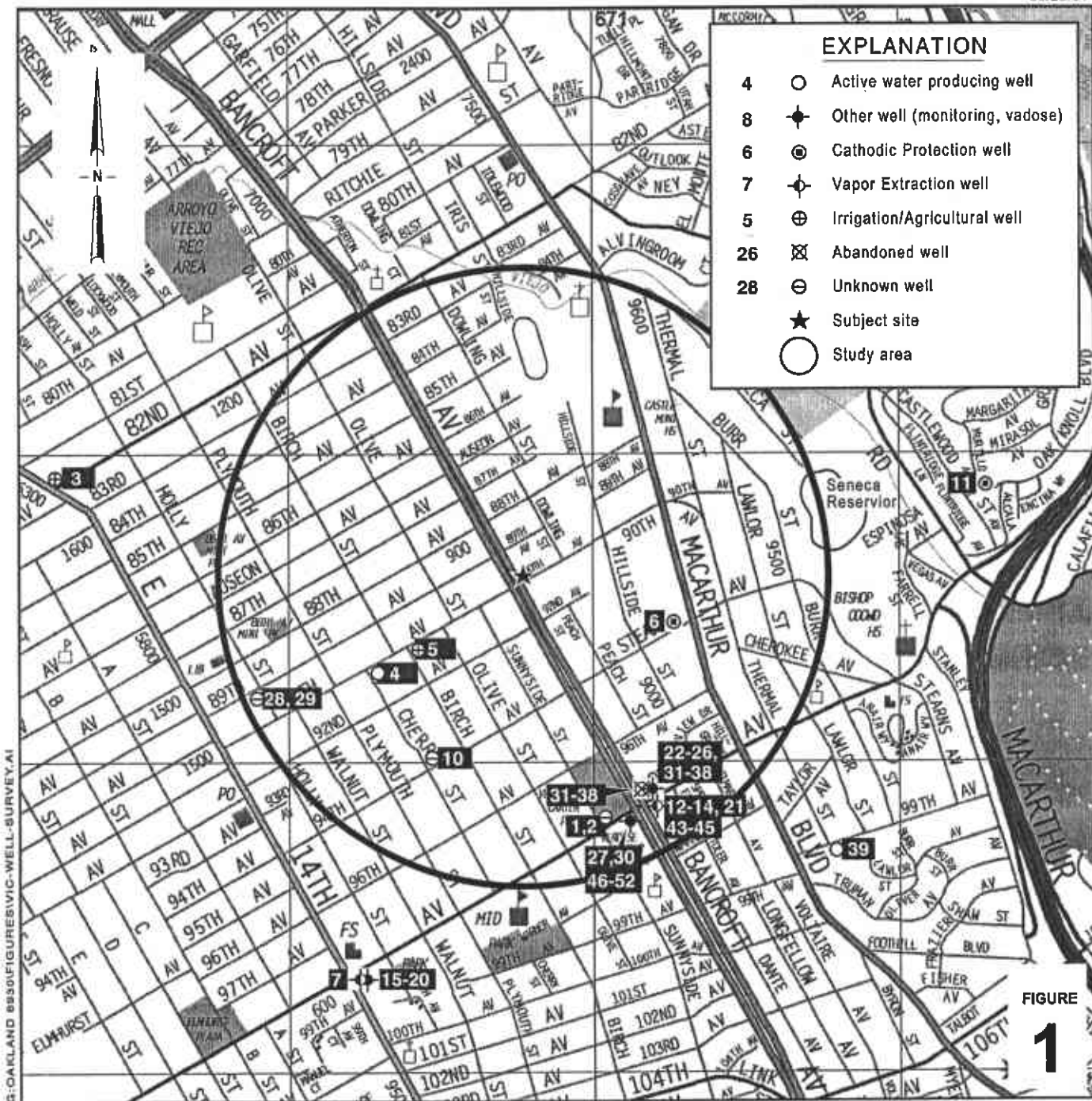


FIGURE 1

0 1/8 1/4 1/2 1
SCALE 1:1/4 MILES

Shell-branded Service Station
 8930 Bancroft Avenue
 Oakland, California
 Incident #98995742



C A M B R I A

Vicinity / Well Survey Map

(1/2 Mile Radius)

D:\WORK\4800\BANCROFT\FIGURES\CAMBIA.MP DWS

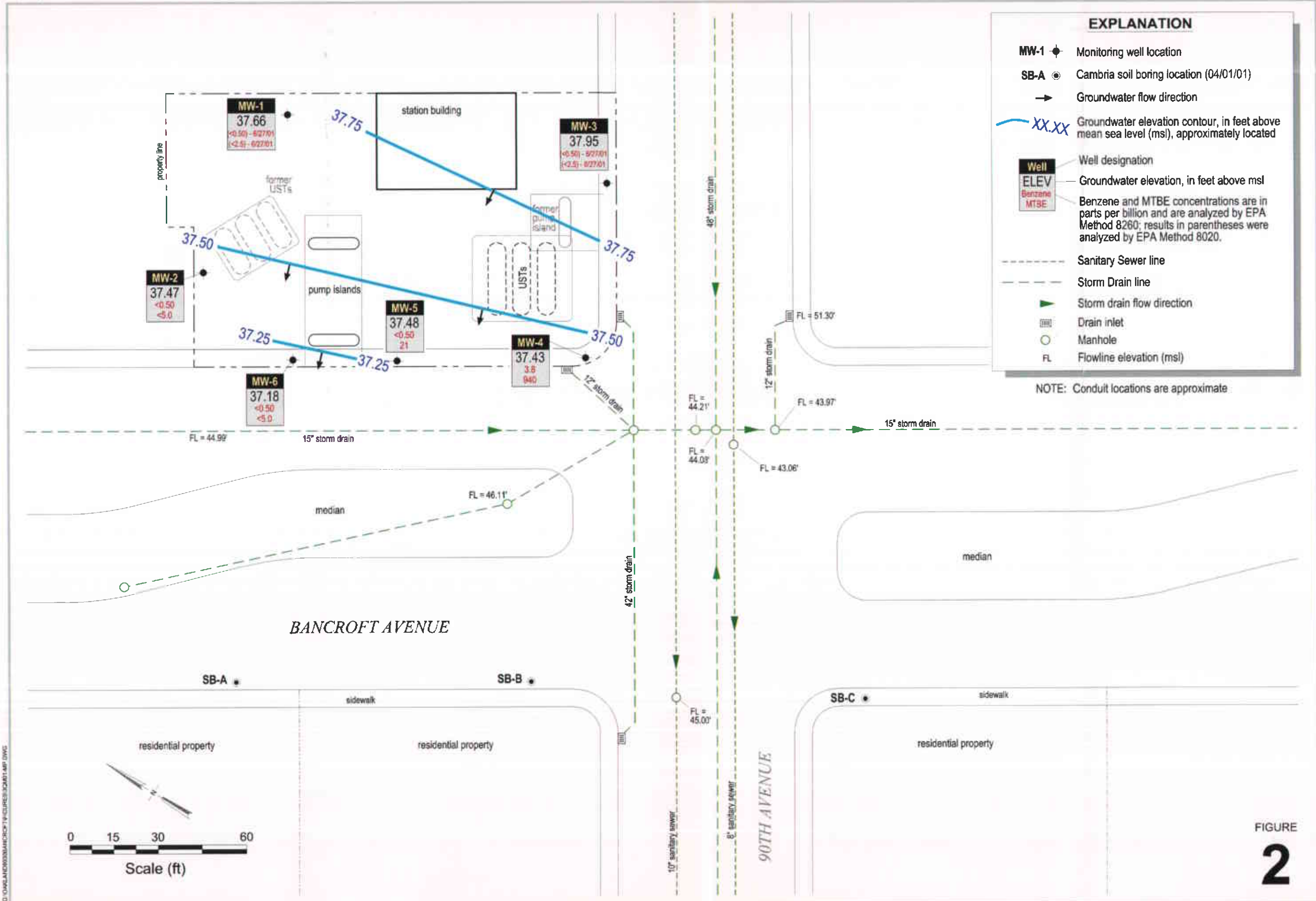
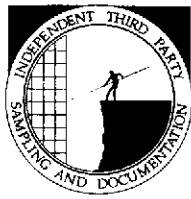


FIGURE 2

ATTACHMENT A

**Blaine Groundwater Monitoring Report
and Field Notes**

BLAINE
TECH SERVICES, INC.



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

October 19, 2001

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

Third Quarter 2001 Groundwater Monitoring at
Shell-branded Service Station
8930 Bancroft Avenue
Oakland, CA

Monitoring performed on September 20, 2001

Groundwater Monitoring Report **010920-D-2**

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

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,



Nick Sudano
Project Coordinator

NS/jt

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

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

WELL CONCENTRATIONS
Shell-branded Service Station
8930 Bancroft Avenue
Oakland, CA
Wic #204-5508-1305

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)
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MW-1	12/17/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	53.19	11.87	41.32
MW-1	03/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	8.21	44.98
MW-1	06/16/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	15.04	38.15
MW-1	09/30/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	16.02	37.17
MW-1	12/23/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	53.19	14.78	38.41
MW-1	03/22/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	53.19	8.44	44.75
MW-1	06/01/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	53.19	13.71	39.48
MW-1	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	53.19	14.95	38.24
MW-1	12/04/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	5.82	NA	53.19	13.85	39.34
MW-1	03/09/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	53.19	9.07	44.12
MW-1	06/27/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	53.19	14.90	38.29
MW-1	09/20/2001	NA	NA	NA	NA	NA	NA	NA	NA	53.19	15.53	37.66

MW-2	12/17/1998	9,900	NA	<5.0	37	22	47	48	<20	52.66	11.65	41.01
MW-2	03/09/1999	2,760	NA	12.3	7.50	85.4	444	<50.0	NA	52.66	8.07	44.59
MW-2	06/16/1999	2,570	NA	36.3	11.6	6.19	10.8	<50.0	NA	52.66	14.63	38.03
MW-2	09/30/1999	1,960	NA	19.1	3.20	4.55	26.9	<25.0	NA	52.66	15.63	37.03
MW-2	12/23/1999	145	NA	1.30	<0.500	<0.500	0.899	<2.50	NA	52.66	14.42	38.24
MW-2	03/22/2000	6,060	NA	18.9	<10.0	210	651	<100	NA	52.66	8.19	44.47
MW-2	06/01/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	52.66	11.46	41.20
MW-2	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	52.66	14.63	38.03
MW-2	12/04/2000	201	NA	1.35	<0.500	3.39	8.58	<2.50	NA	52.66	13.45	39.21
MW-2	03/09/2001	396	NA	2.82	<0.500	8.69	18.7	<2.50	NA	52.66	8.89	43.77
MW-2	06/27/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	52.66	14.88	37.78
MW-2	09/20/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	52.66	15.19	37.47

WELL CONCENTRATIONS
Shell-branded Service Station
8930 Bancroft Avenue
Oakland, CA
Wic #204-5508-1305

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)
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MW-3	12/17/1998	<50	NA	<0.50	<0.50	<0.50	<0.50	10	11	51.30	11.85	39.45
MW-3	03/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	51.30	6.53	44.77
MW-3	06/16/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	51.30	12.71	38.59
MW-3	09/30/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	5.14	NA	51.30	14.07	37.23
MW-3	12/23/1999	<500	NA	<5.00	<5.00	<5.00	<5.00	<25.0	NA	51.30	12.82	38.48
MW-3	03/22/2000	<50.0	NA	<0.500	1.48	<0.500	1.90	<5.00	NA	51.30	6.81	44.49
MW-3	06/01/2000	<50.0	NA	<0.500	0.821	<0.500	<0.500	4.39	NA	51.30	11.85	39.45
MW-3	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	3.62	NA	51.30	12.55	38.75
MW-3	12/04/2000	<50.0	NA	<0.500	<0.500	<0.500	0.588	4.74	NA	51.30	11.65	39.65
MW-3	03/09/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	51.30	7.28	44.02
MW-3	06/27/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	51.30	13.16	38.14
MW-3	09/20/2001	NA	NA	NA	NA	NA	NA	NA	NA	51.30	13.35	37.95

MW-4	12/17/1998	700	NA	4.3	0.88	<0.50	<0.50	21,000	26,000	50.73	10.80	39.93
MW-4	03/09/1999	83.9	NA	<0.500	<0.500	<0.500	<0.500	17,900	23,700	50.73	6.91	43.82
MW-4	06/16/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	10,600	19,200	50.73	12.84	37.89
MW-4	09/30/1999	51.2	NA	<0.500	<0.500	<0.500	<0.500	12,200	12,300	50.73	13.74	36.99
MW-4	12/23/1999	<100	NA	<1.00	<1.00	<1.00	<1.00	7,990	8,400	50.73	12.40	38.33
MW-4	03/22/2000	<500	NA	<5.00	<5.00	<5.00	<5.00	4,970	5,020	50.73	7.32	43.41
MW-4	06/01/2000	<100	NA	<1.00	<1.00	<1.00	<1.00	5,260	3,580	50.73	11.50	39.23
MW-4	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	3,610	3,300a	50.73	12.55	38.18
MW-4	12/04/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	2,960	3,520a	50.73	11.77	38.96
MW-4	03/09/2001	<50.0	NA	<0.500	<0.500	<0.500	<0.500	1,930	2,500	50.73	7.48	43.25
MW-4	06/27/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	1,100	1,100	50.73	12.97	37.76
MW-4	09/20/2001	<250	NA	3.8	14	2.6	7.8	NA	940	50.73	13.30	37.43

MW-5	12/17/1998	750	NA	<0.50	17	1.8	3.5	33	32	51.43	11.51	39.92
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WELL CONCENTRATIONS
Shell-branded Service Station
8930 Bancroft Avenue
Oakland, CA
Wic #204-5508-1305

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)
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MW-5	03/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	51.43	7.15	44.28
MW-5	06/16/1999	646	NA	9.26	1.05	<1.00	<1.00	<10.0	NA	51.43	13.47	37.96
MW-5	09/30/1999	484	NA	1.93	0.511	<0.500	<0.500	159	NA	51.43	14.41	37.02
MW-5	12/23/1999	944	NA	4.59	17.7	3.79	16.7	214	NA	51.43	14.07	37.36
MW-5	03/22/2000	8,770	NA	197	96.5	<50.0	188	2,450	NA	51.43	7.31	44.12
MW-5	06/01/2000	227	NA	0.565	<0.500	<0.500	<0.500	35.9	NA	51.43	12.15	39.28
MW-5	09/08/2000	159	NA	0.606	<0.500	<0.500	1.74	1,000	NA	51.43	13.30	38.13
MW-5	12/04/2000	1,510	NA	19.2	<10.0	<10.0	134	1,360	NA	51.43	12.19	39.24
MW-5	03/09/2001	3,460	NA	37.9	121	40.6	208	235	NA	51.43	7.79	43.64
MW-5	06/27/2001	310	NA	0.97	<0.50	<0.50	<0.50	14	NA	51.43	13.89	37.54
MW-5	09/20/2001	310	NA	<0.50	<0.50	<0.50	<0.50	NA	21	51.43	13.95	37.48

MW-6	12/17/1998	940	NA	27	0.32	2.4	2.3	3.0	3.2	51.88	11.37	40.51
MW-6	03/09/1999	336	NA	7.78	1.60	2.40	6.36	<10.0	NA	51.88	8.10	43.78
MW-6	06/16/1999	308	NA	2.45	<0.500	<0.500	<0.500	7.39	NA	51.88	14.49	37.39
MW-6	09/30/1999	80.2	NA	<0.500	<0.500	<0.500	<0.500	24.8	NA	51.88	15.30	36.58
MW-6	12/23/1999	149	NA	0.518	<0.500	<0.500	<0.500	6.43	NA	51.88	13.19	38.69
MW-6	03/22/2000	382	NA	3.31	2.18	0.619	2.35	5.61	NA	51.88	8.27	43.61
MW-6	06/01/2000	158	NA	0.830	<0.500	<0.500	1.10	10.9	NA	51.88	11.13	40.75
MW-6	09/08/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	NA	51.88	14.28	37.60
MW-6	12/04/2000	231	NA	4.93	<0.500	<0.500	<0.500	4.57	NA	51.88	12.62	39.26
MW-6	03/09/2001	789	NA	11.6	2.72	<2.00	<2.00	28.0	NA	51.88	8.65	43.23
MW-6	06/27/2001	140	NA	<0.50	1.1	<0.50	<0.50	<2.5	NA	51.88	14.95	36.93
MW-6	09/20/2001	<50	NA	<0.50	<0.50	<0.50	<0.50	NA	<5.0	51.88	14.70	37.18

WELL CONCENTRATIONS
Shell-branded Service Station
8930 Bancroft Avenue
Oakland, CA
Wic #204-5508-1305

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)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B; prior to September 20, 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 September 20, 2001 analyzed by EPA Method 8020

MTBE = methyl-tertiary-butyl ether by EPA Method 8020

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

NA = Not applicable

Notes:

a = This sample analyzed outside of EPA recommended holding time.



Report Number : 22478

Date : 10/8/2001

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

Subject : 4 Water Samples
Project Name : 8930 Bancroft Avenue, Oakland
Project Number : 010920-D2
P.O. Number : 98995742

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,

A handwritten signature in black ink that reads "Joel Kiff". The signature is written in a cursive style with a large initial "J".

Joel Kiff



Report Number : 22478

Date : 10/8/2001

Project Name : 8930 Bancroft Avenue, Oakland

Project Number : 010920-D2

Sample : MW-2

Matrix : Water

Lab Number : 22478-01

Sample Date :9/20/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	10/4/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/4/2001
Toluene - d8 (Surr)	100		% Recovery	EPA 8260B	10/4/2001
4-Bromofluorobenzene (Surr)	96.0		% Recovery	EPA 8260B	10/4/2001

Approved By: Joel Kiff



Report Number : 22478

Date : 10/8/2001

Project Name : 8930 Bancroft Avenue, Oakland

Project Number : 010920-D2

Sample : MW-4

Matrix : Water

Lab Number : 22478-02

Sample Date :9/20/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	3.8	2.5	ug/L	EPA 8260B	10/4/2001
Toluene	14	2.5	ug/L	EPA 8260B	10/4/2001
Ethylbenzene	2.6	2.5	ug/L	EPA 8260B	10/4/2001
Total Xylenes	7.8	2.5	ug/L	EPA 8260B	10/4/2001
Methyl-t-butyl ether (MTBE)	940	2.5	ug/L	EPA 8260B	10/4/2001
Diisopropyl ether (DIPE)	< 2.5	2.5	ug/L	EPA 8260B	10/4/2001
Ethyl-t-butyl ether (ETBE)	< 2.5	2.5	ug/L	EPA 8260B	10/4/2001
Tert-amyl methyl ether (TAME)	2.6	2.5	ug/L	EPA 8260B	10/4/2001
Tert-Butanol	< 50	50	ug/L	EPA 8260B	10/4/2001
Ethanol	< 500	500	ug/L	EPA 8260B	10/4/2001
TPH as Gasoline	< 250	250	ug/L	EPA 8260B	10/4/2001
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	10/4/2001
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	10/4/2001


Approved By: Joel Kiff



Report Number : 22478

Date : 10/8/2001

Project Name : 8930 Bancroft Avenue, Oakland

Project Number : 010920-D2

Sample : MW-5

Matrix : Water

Lab Number : 22478-03

Sample Date :9/20/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/3/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/3/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/3/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/3/2001
Methyl-t-butyl ether (MTBE)	21	0.50	ug/L	EPA 8260B	10/3/2001
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	10/3/2001
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	10/3/2001
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	10/3/2001
Tert-Butanol	< 50	50	ug/L	EPA 8260B	10/3/2001
Ethanol	< 500	500	ug/L	EPA 8260B	10/3/2001
TPH as Gasoline	310	50	ug/L	EPA 8260B	10/3/2001
Toluene - d8 (Surr)	102		% Recovery	EPA 8260B	10/3/2001
4-Bromofluorobenzene (Surr)	106		% Recovery	EPA 8260B	10/3/2001

Approved By: Joel Kiff



Report Number : 22478

Date : 10/8/2001

Project Name : 8930 Bancroft Avenue, Oakland

Project Number : 010920-D2

Sample : MW-6

Matrix : Water

Lab Number : 22478-04

Sample Date :9/20/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	10/4/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/4/2001
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	10/4/2001
4-Bromofluorobenzene (Surr)	94.8		% Recovery	EPA 8260B	10/4/2001

Approved By: Joel Kiff

Report Number : 22478

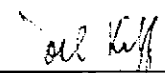
Date : 10/8/2001

Project Name : **8930 Bancroft Avenue,**

Project Number : **010920-D2**

22478 Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Toluene	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	10/4/2001
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	10/4/2001
Ethyl-t-butyl ether (ETBE)	< 2.0	2.0	ug/L	EPA 8260B	10/4/2001
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	10/4/2001
Tert-Butanol	< 50	50	ug/L	EPA 8260B	10/4/2001
Ethanol	< 500	500	ug/L	EPA 8260B	10/4/2001
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	10/4/2001
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	10/4/2001
4-Bromofluorobenzene (Surr)	99.5		% Recovery	EPA 8260B	10/4/2001



Approved By: Joel Kiff

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : 8930 Bancroft Avenue,

Project Number : 010920-D2

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
Spike Recovery Data														
Benzene	22478-01	<0.50	20.1	19.0	19.8	18.3	ug/L	EPA 8260B	10/4/2001	98.3	96.2	2.08	70-130	25
Toluene	22478-01	<0.50	20.1	19.0	20.1	18.5	ug/L	EPA 8260B	10/4/2001	99.7	97.4	2.31	70-130	25
Tert-Butanol	22478-01	<5.0	101	95.0	98.2	92.9	ug/L	EPA 8260B	10/4/2001	97.5	97.7	0.215	70-130	25
Methyl-t-Butyl Ether	22478-01	<0.50	20.1	19.0	19.6	17.9	ug/L	EPA 8260B	10/4/2001	97.1	94.1	3.14	70-130	25

KIFF ANALYTICAL, LLC

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

Approved By:  Joel Kiff

Report Number : 22478

Date : 10/8/2001

QC Report : Laboratory Control Sample (LCS)

Project Name : **8930 Bancroft Avenue,**

Project Number : **010920-D2**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	10/3/2001	101	70-130
Toluene	40.0	ug/L	EPA 8260B	10/3/2001	103	70-130
Tert-Butanol	200	ug/L	EPA 8260B	10/3/2001	98.3	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	10/3/2001	92.9	70-130

KIFF ANALYTICAL, LLC

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

Approved By:  Joel Kiff

EQUIVA Services LLC Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Equiva Project Manager to be involved:

SCIENCE & ENGINEERING

CRMT HOUSTON

Karen Petryna

22478

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 5 7 4 2

SAP or CRMT NUMBER (TS/CRMT)

DATE: 9/20/09
PAGE: 1 of 1

CONSULTANT COMPANY:
Blaine Tech Services

ADDRESS:
1680 Rogers Avenue
CITY:
San Jose, CA 95112

TELEPHONE: 408-573-0555 FAX: 408-573-7771 E-MAIL: nsudano@blainetech.com

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

IA - RWQCB REPORT FORMAT UST AGENCY: _____

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

SPECIAL INSTRUCTIONS OR NOTES: _____ TEMPERATURE ON RECEIPT: _____

SITE ADDRESS (Street and City):
8930 Bancroft Avenue, Oakland

PROJECT CONTACT (Report to):
Nick Sudano

CONSULTANT PROJECT NO.
BTS # 010920-02

SAMPLER NAME(S) (Print):
Jacques Buiers / George Drexinger

LAB USE ONLY

REQUESTED ANALYSIS

TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5 ppbRL)	Oxygenates (5) by (8260)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)	TPH-Diesel, Extractable (8015m)	MTBE (8260B) Confirmation, See note
X	X	X								
X	X	X		X	X					
X	X	X		X	X					
X	X	X								

FIELD NOTES:
Container/Preservative
or PID Readings
or Laboratory Notes

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.
		DATE	TIME		
	MW-2	9/20/09	1445	W	3
	MW-4		1412		
	MW-5		1426		
	MW-6		1425		

Reinquired by: (Signature) <u>George Drexinger</u>	Received by: (Signature)	Date:	Time:
Reinquired by: (Signature)	Received by: (Signature)	Date:	Time:
Reinquired by: (Signature)	Received by: (Signature) <u>John Cutler / Kiff Anghel</u>	Date: 092101	Time: 1118

WELL GAUGING DATA

Project # 010920-DL Date 9/20/01 Client EQUIVA

Site 8930 Bancroft, 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	3					15.53	16.88	
MW-2	3					15.19	19.20	
MW-3	3					13.35	19.66	
MW-4	3					13.30	19.57	
MW-5	3					13.95	19.68	
MW-6	3					14.70	19.70	

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010920-D2	Site: 98995742
Sampler: GMO	Date: 9/20/01
Well I.D.: MW-2	Well Diameter: 2 (3) 4 6 8
Total Well Depth: 19.20	Depth to Water: 15.19
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: _____

1.5 (Gals.) X	3	= 4.5 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
1428	70.0	6.43	355	32	1.5	Clear
1434	70.1	6.34	359	113	3	Clear/Cloudy
1440	69.8	6.39	366	129	4.5	Cloudy

Did well dewater? Yes **(No)** Gallons actually evacuated: **5**

Sampling Time: **1445** Sampling Date: **9/20/01**

Sample I.D.: **MW-2** Laboratory: **(Kiff)** Sequoia Other _____

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

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

EQUIVA WELL MONITORING DATA SHEET

BTS #: <u>010920-D2</u>	Site: <u>98995742</u>
Sampler: <u>GM0</u>	Date: <u>9/20/01</u>
Well I.D.: <u>MW-4</u>	Well Diameter: 2 <u>(3)</u> 4 6 8
Total Well Depth: <u>19.66</u>	Depth to Water: <u>13.35</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Purge Method: Bailer Disposable Bailer Middleburg Electric Submersible

Waterria Peristaltic Extraction Pump Other _____

Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing

Other: _____

$\underline{23} \text{ (Gals.)} \times \underline{3} = \underline{6.9} \text{ Gals.}$	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</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> </tbody> </table>	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
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														

Case Volume Specified Volumes Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>1405</u>	<u>77.3</u>	<u>7.1</u>	<u>1750</u>	<u>7200</u>	<u>3</u>	<u>VERY SILTY</u>
<u>1406</u>	<u>76.5</u>	<u>7.1</u>	<u>1690</u>	<u>7200</u>	<u>5</u>	
<u>1407</u>	<u>76.3</u>	<u>7.1</u>	<u>1683</u>	<u>7200</u>	<u>7</u>	

Did well dewater? Yes No Gallons actually evacuated: 7

Sampling Time: 1412 Sampling Date: 9/20/01

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

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

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

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010920-D2	Site: 98995742
Sampler: GMD	Date: 9/20/01
Well I.D.: MW-5	Well Diameter: 2 (3) 4 6 8
Total Well Depth: 19.64	Depth to Water: 13.95
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

2.1 (Gals.) X 3 = 6.3 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
1419	76.2	6.9	366	>200	3	
1420	76.0	6.9	312	>200	5	
1421	76.1	6.9	353	>200	7	

Did well dewater? Yes No Gallons actually evacuated: 7

Sampling Time: 1424 Sampling Date: 9/20/01

Sample I.D.: MW-5 Laboratory: Kiff Sequoia Other _____

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

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

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010920-D2	Site: 98995742
Sampler: GMD	Date: 9/20/01
Well I.D.: MW-6	Well Diameter: 2 (3) 4 6 8
Total Well Depth: 19.70	Depth to Water: 14.70
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH

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

$1.9 \text{ (Gals.)} \times 3 = 5.7 \text{ Gals.}$ Case Volume Specified Volumes Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</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> </tbody> </table>	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
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
1405	74.4	6.66	463	101	2	Cloudy
1409	71.9	6.54	400	171	4	Turbid/black
1415	71.0	6.58	419	>200	6	Turbid/black
* Wellbox was filled w/ water - water in wellbox may have seeped into well-						
					DTN-	15.00

Did well dewater? Yes No Gallons actually evacuated: 11

Sampling Time: 152 1425 Sampling Date: 9/20/01

Sample I.D.: MW-6 Laboratory: Kiff Sequoia Other _____

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

3B 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
D.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV