Shell Oil Products US

May 16, 2003

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

Subject: **Shell-branded Service Station**
105 Fifth Street
Oakland, California

Dear Mr. Chan:

Attached for your review and comment is a copy of the *Fourth Quarter 2002 Monitoring Report* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

Karen Petryna

Karen Petryna
Sr. Environmental Engineer

P.O. Box 7869 Burbank, CA 91510-7869 Phone (559) 645-9306 Facsimile (559) 645-5643

CAMBRIA

May 16, 2003

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

Re: **First Quarter 2003 Monitoring Report**
Shell-branded Service Station
105 Fifth Street
Oakland, California
Incident #98995757
Cambria Project #245-0472-002

Dear Mr. Chan:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US, 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 (TPHg) and 14.50 lbs. of methyl tertiary butyl ether (MTBE) from monitoring wells MW-2 and MW-3. DVE was discontinued due to limited chemical recovery.

FIRST QUARTER 2003 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

Cambria Environmental Technology, Inc.

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supporting field documents, is included as Attachment A. Well MW-3 was also sampled for oxygenates di-isopropyl ether, tert-amyl methyl ether, ethyl tertiary butyl ether, and tert-butanol, and for lead scavengers 1,2-dichloroethane and 1,2-dibromomethane. Results of this analysis are presented in Table 1.

GWE: Beginning in November 2001, Phillips Services Corporation of Benicia, California has 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 2. Through February 2003, a total of 109,144 gallons of water have been extracted, resulting in removal of 7.2 lbs. of TPHg and 69.4 lbs. of MTBE.

ANTICIPATED SECOND QUARTER 2003 ACTIVITIES

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

GWE System Installation: Cambria submitted an *Interim Remedial Work Plan* dated February 10, 2003 describing installation of a GWE system. We have received all necessary permits for construction of the system. However, groundwater monitoring results presented in this report show a substantial decrease in MTBE concentrations. The concentration in tank backfill well T-1 decreased from 29,000 parts per billion (ppb) during the fourth quarter 2002 to 820 ppb in the first quarter 2003. Concentrations in monitoring well MW-3 decreased from 19,000 ppb to 14,000 ppb.

Shell will maintain the permits for installation of the GWE system, but will not install it at this time, pending evaluation of additional quarterly groundwater monitoring data.

GWE: The frequency of mobile GWE from well T-1 will be increased to twice-monthly, and well MW-3 will be added to the extraction program. Well MW-6 will also be added to the extraction program as soon as an encroachment permit for occupying the street during these events is obtained from the city of Oakland. Cambria will apply for this permit.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Diane Lundquist at (510) 420-3334 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Diane Lundquist, P.E.
Principal Engineer

REGISTERED PROFESSIONAL ENGINEER
DIANE M. LUNDQUIST
No. C46725
CIVIL
STATE OF CALIFORNIA

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

Tables: 1 - Groundwater Analytical Data - Oxygenates
2 - 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

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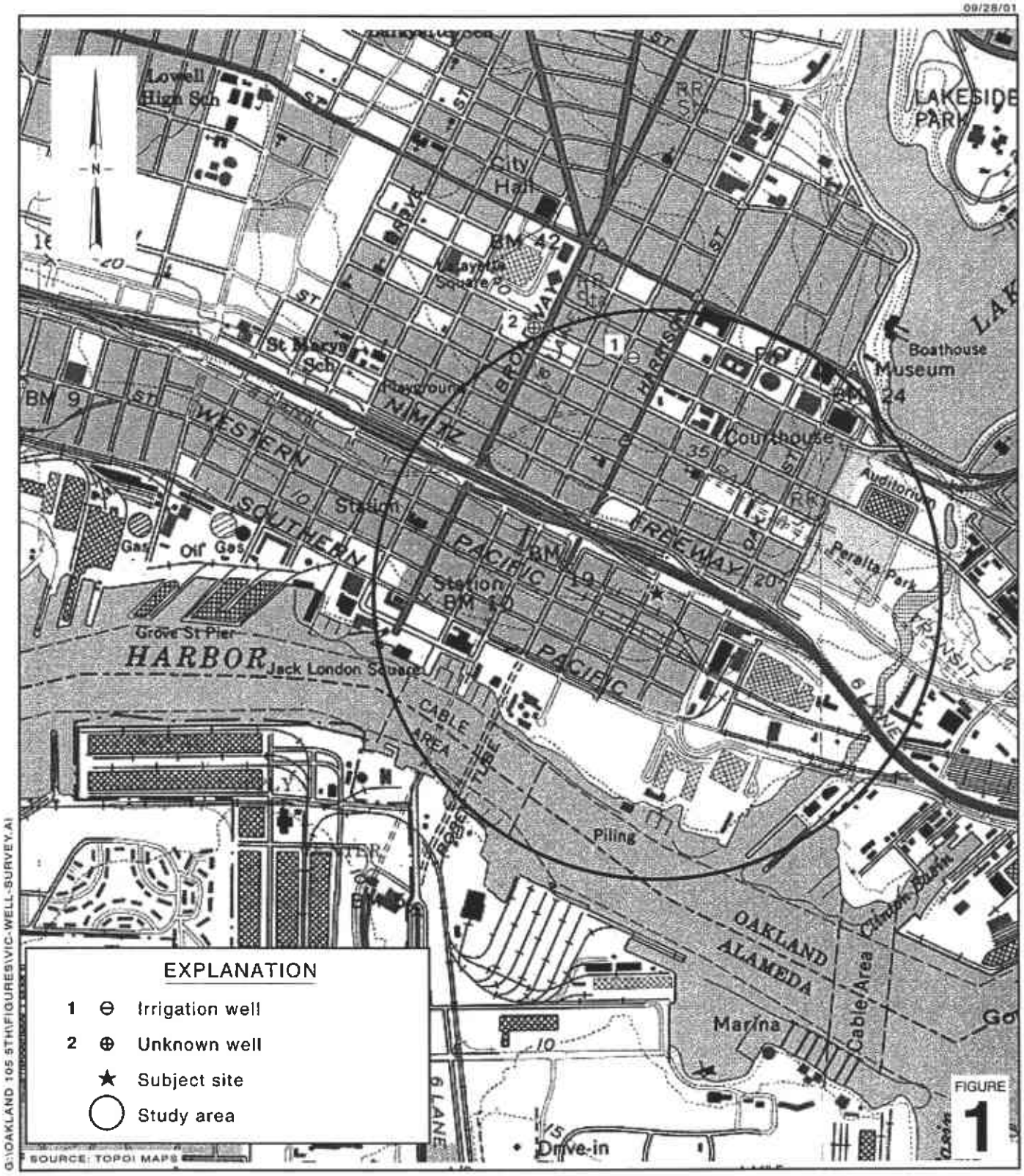


Shell-branded Service Station
105 Fifth Street
Oakland, California
Incident# 98995757

CAMBRIA

Vicinity / Well Survey Map

(1/2 Mile Radius)

03/24/03

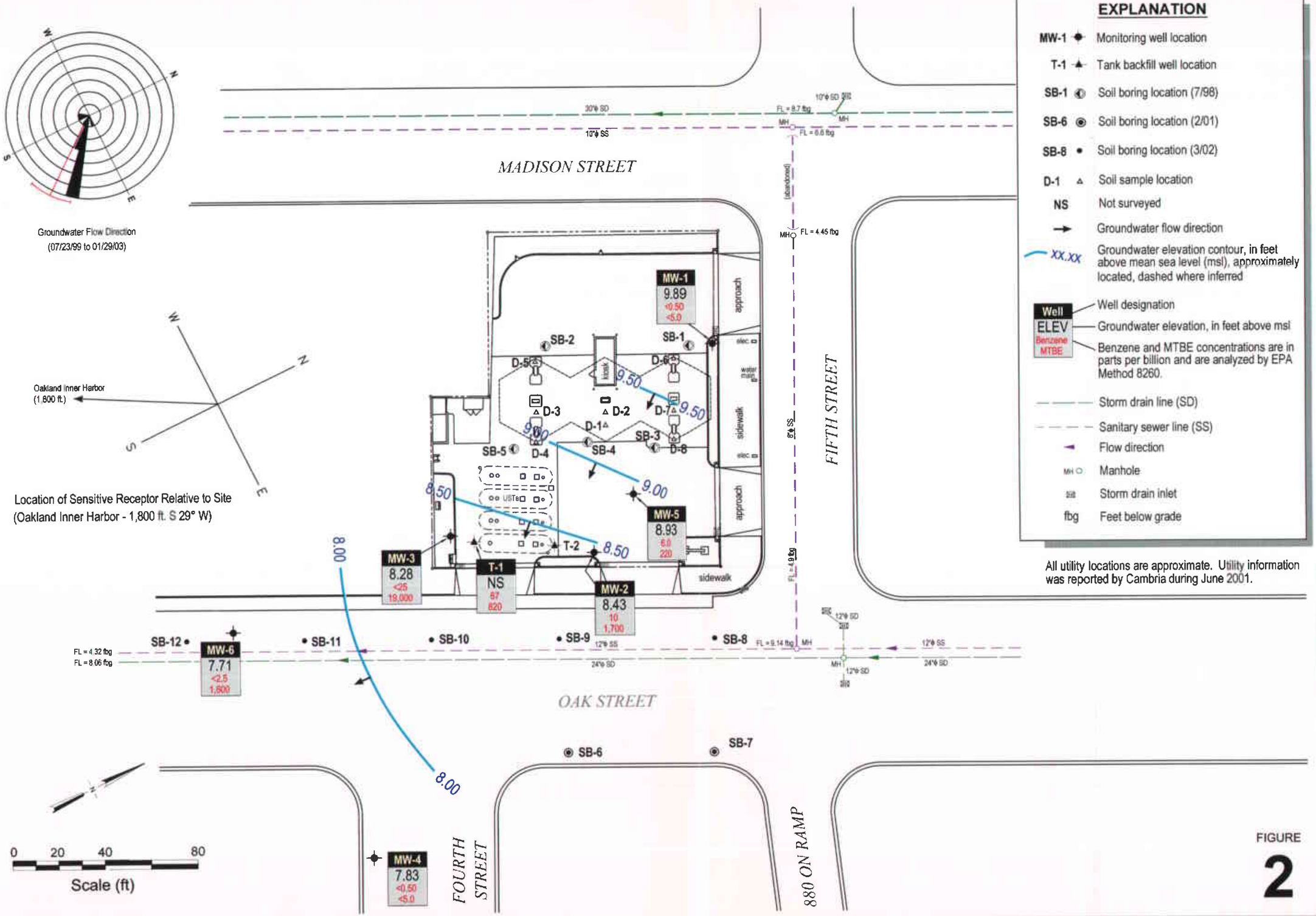
Groundwater Elevation Contour Map

January 29, 2003

Groundwater Flow Direction
(07/23/99 to 01/29/03)

Oakland Inner Harbor
(1,800 ft.)

Location of Sensitive Receptor Relative to Site
(Oakland Inner Harbor - 1,800 ft. S 29° 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	Well designation; Groundwater elevation, in feet above msl; Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8260.
	Storm drain line (SD)
	Sanitary sewer line (SS)
	Flow direction
MH	Manhole
SID	Storm drain inlet
fbg	Feet below grade

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

CAMBRIA

Shell-branded Service Station
105 Fifth Street
Oakland, California
Incident #9899577

FIGURE
2

G:\OAKLAND\105-5TH\FIGURES\1GM03-MP.DWG

Table 1. **Groundwater Analytical Data - Oxygenates -** Shell-branded Service Station, Incident #98995757, 105 5th Street, Oakland, California

Sample ID	Date Sampled	MTBE	DIPE	ETBE	TAME	TBA	Ethanol	1,2-DCA	EDB
		← (Concentrations in ppb) →							
MW-2	10/23/01	13,000	<25	<25	<25	820	<500	---	---
MW-3	10/23/01	180,000	<250	<250	<250	53,000	<5,000	---	---
	10/15/02	44,000	<100	---	<100	9,100	---	<100	<100
	01/29/03	**19,000**	**<25**	---	**<25**	**14,000**	---	**<25**	**<25**

Abbreviations & Notes:

MTBE = Methyl tert-butyl ether, analyzed by by EPA Method 8260
DIPE = Di-isopropyl ether, analyzed by EPA Method 8260
ETBE = Ethyl tert-butyl ether, analyzed by EPA Method 8260
TAME = Tert-amyl methyl ether, analyzed by EPA Method 8260
TBA = Tert-butyl alcohol, analyzed by EPA Method 8260
Ethanol analyzed by EPA Method 8260
1,2-DCA = 1,2-dichloroethane, analyzed by EPA Method 8260
EDB = 1,2-dibromomethane or ethlyene dibromide, analyzed by EPA Method 8260
ppb = Parts per billion
--- = Not analyzed

Table 2: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995757, 105 Fifth Street, Oakland, California

					TPPH			Benzene			MTBE		
Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
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[a]	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[a]	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[a]	2,800	8,250	10/23/01	**<50,000**	0.58410	1.72102	**<250**	0.00292	0.00861	**180,000**	4.20556	12.39137
01/09/01	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
03/20/02	T-1	5,000	34,184	01/07/02	**<20,000**	0.41722	3.88505	**310**	0.01293	0.07569	**92,000**	3.83840	32.30040

Table 2: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995757, 105 Fifth Street, Oakland, California

					TPPH			Benzene			MTBE		
Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
04/03/02	T-1	5,200	39,384	01/07/02	**<20,000**	0.43391	4.31896	**310**	0.01345	0.08914	**92,000**	3.99194	36.29234
04/17/02	T-1	4,800	44,184	04/12/02	**<5,000**	0.10013	4.41909	**230**	0.00921	0.09835	**57,000**	2.28302	38.57536
06/03/02	T-1	3,539	47,723	04/12/02	**<5,000**	0.07383	4.49291	**230**	0.00679	0.10515	**57,000**	1.68325	40.25861
06/17/02	T-1	5,000	52,723	04/12/02	**<5,000**	0.10430	4.59722	**230**	0.00960	0.11474	**57,000**	2.37814	42.63675
07/01/02	T-1	2,873	55,596	04/12/02	**<5,000**	0.05993	4.65715	**230**	0.00551	0.12026	**57,000**	1.36648	44.00323
07/15/02	T-1	4,000	59,596	07/10/02	**<20,000**	0.33377	4.99093	**260**	0.00868	0.12893	**69,000**	2.30304	46.30627
08/12/02	T-1	3,900	63,496	07/10/02	**<20,000**	0.32543	5.31636	**260**	0.00846	0.13739	**69,000**	2.24547	48.55174
08/26/02	T-1	2,367	65,863	07/10/02	**<20,000**	0.19751	5.51387	**260**	0.00514	0.14253	**69,000**	1.36283	49.91456
09/09/02	T-1	1,959	67,822	07/10/02	**<20,000**	0.16347	5.67733	**260**	0.00425	0.14678	**69,000**	1.12791	51.04248
09/23/02	T-1	5,000	72,822	07/10/02	**<20,000**	0.41722	6.09455	**260**	0.01085	0.15763	**69,000**	2.87880	53.92128
10/09/02	T-1	4,500	77,322	07/10/02	**<20,000**	0.37550	6.47005	**260**	0.00976	0.16739	**69,000**	2.59092	56.51220
10/22/02	T-1	4,500	81,822	10/15/02	**<5,000**	0.09387	6.56392	**150**	0.00563	0.17302	**29,000**	1.08894	57.60114
11/05/02	T-1	2,384	84,206	10/15/02	**<5,000**	0.04973	6.61365	**150**	0.00298	0.17601	**29,000**	0.57690	58.17804
11/19/02	T-1	4,375	88,581	10/15/02	**<5,000**	0.09127	6.70492	**150**	0.00548	0.18148	**29,000**	1.05869	59.23673
12/09/02	T-1	2,341	90,922	10/15/02	**<5,000**	0.04884	6.75376	**150**	0.00293	0.18441	**29,000**	0.56649	59.80322
12/23/02	T-1	2,341	93,263	10/15/02	**<5,000**	0.04884	6.80259	**150**	0.00293	0.18734	**29,000**	0.56649	60.36971
01/06/03	T-1[b]	2,341	95,604	10/15/02	**<5,000**	0.04884	6.85143	**1.5**	0.00003	0.18737	**29,000**	0.56649	60.93620
01/28/03	T-1[b]	4,500	100,104	10/15/02	**<5,000**	0.09387	6.94530	**1.5**	0.00006	0.18743	**29,000**	1.08894	62.02514
02/11/03	T-1	4,500	104,604	01/29/03	**1,300**	0.04881	6.99411	**67**	0.00252	0.18994	**820**	0.03079	62.05593
Total Gallons Extracted:			**109,144**		**Total Pounds Removed:**		**7.17709**			**0.21097**			**69.42198**
					Total Gallons Removed:		**1.17657**			**0.02890**			**11.19709**

Table 2: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995757, 105 Fifth Street, Oakland, California

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

Abbreviations & Notes:

TPPH = Total purgeable hydrocarbons as gasoline
MtBE = Methyl tert-butyl ether
ppb = Parts per billion
gal = Gallon
a = Concentrations for tank backfill well T-1 estimated from nearest monitoring well MW-3.
b = Tank backfill well T-1 sampled for BTEX (including benzene) on 1/2/03.
Mass removed based on the formula: volume extracted (gal) x Concentration (µg/L) x ($g/10^6 \mu g$) 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

February 10, 2003

Karen Petryna
Shell Oil Products US
P.O. Box 7869
Burbank, CA 91510-7869

First Quarter 2003 Groundwater Monitoring at
Shell-branded Service Station
105 5th Street
Oakland, CA

Monitoring performed on January 2 and 29, 2003

Groundwater Monitoring Report **030129-RH-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/jt

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

cc: Anni Kreml
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Oakland, CA 94608

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-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-1	04/12/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	14.92	5.54	9.38	NA
MW-1	07/10/2002	<50	74	<0.50	<0.50	<0.50	<0.50	NA	<5.0	14.92	5.98	8.94	NA
MW-1	10/15/2002	<50	51	<0.50	<0.50	<0.50	<0.50	NA	<5.0	14.92	5.46	9.46	NA
MW-1	**01/29/2003**	**<50**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**NA**	**<5.0**	**14.92**	**5.03**	**9.89**	**NA**
									<50				
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

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-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
MW-2	04/12/2002	<1,000	<100	14	<10	27	13	NA	6,200	13.57	5.14	8.43	NA
MW-2	07/10/2002	<1,000	290	<10	<10	14	<10	NA	6,100	13.57	5.45	8.12	NA
MW-2	10/15/2002	<100	85	1.2	<1.0	<1.0	<1.0	NA	640	13.57	5.38	8.19	NA
MW-2	**01/29/2003**	**<500**	**<300**	**10**	**<5.0**	**16**	**6.3**	**NA**	**1,700**	**13.57**	**5.14**	**8.43**	**NA**
									5900				
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-3	04/12/2002	<10,000	87	<100	<100	<100	<100	NA	78,000	13.96	5.43	8.53	NA
MW-3	07/10/2002	<20,000	150	<200	<200	<200	<200	NA	64,000	13.96	6.33	7.63	NA
MW-3	10/15/2002	<10,000	120	<100	<100	<100	<100	NA	44,000	13.96	5.96	8.00	NA
MW-3	**01/02/2003**	**NA**	**NA**	**<5.0**	**<5.0**	**<5.0**	**<10**	**NA**	**NA**	**13.96**	**5.40**	**8.56**	**NA**
MW-3	**01/29/2003**	**<2,500**	**96**	**<25**	**<25**	**<25**	**<25**	**NA**	**19,000**	**13.96**	**5.68**	**8.28**	**NA**
									14000				
MW-4	03/23/2001	NA	NA	NA	NA	NA	NA	NA	NA	9.50	8.21	1.29	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-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
MW-4	04/12/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	12.17	7.49	4.68	NA
MW-4	07/10/2002	<50	67	<0.50	<0.50	<0.50	<0.50	NA	<5.0	12.17	4.75	7.42	NA
MW-4	10/15/2002	<50	<50	<0.50	<0.50	<0.50	<0.50	NA	<5.0	12.17	4.56	7.61	NA
MW-4	**01/29/2003**	**<50**	**73**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**NA**	**<5.0**	**12.17**	**4.34**	**7.83**	**NA**
									25.0				
MW-5	03/29/2002	NA	NA	NA	NA	NA	NA	NA	NA	14.78	5.86	8.92	NA
MW-5	04/12/2002	1,600	<50	25	3.5	44	110	NA	570	14.78	5.96	8.82	NA
MW-5	07/10/2002	930	<400	36	<2.0	93	8.8	NA	630	14.78	6.57	8.21	NA
MW-5	10/15/2002	200	90	9.9	<0.50	19	5.5	NA	180	14.78	6.17	8.61	NA
MW-5	**01/29/2003**	**120**	**85**	**6.0**	**<0.50**	**2.9**	**2.6**	**NA**	**220**	**14.78**	**5.85**	**8.93**	**NA**
									250				
MW-6	09/25/2002	NA	NA	NA	NA	NA	NA	NA	NA	12.91	5.50	7.41	NA
MW-6	10/15/2002	<500	72	<5.0	<5.0	<5.0	<5.0	NA	2,600	12.91	5.45	7.46	NA
MW-6	**01/29/2003**	**<250**	**350**	**<2.5**	**<2.5**	**<2.5**	**<2.5**	**NA**	**1,600**	**12.91**	**5.20**	**7.71**	**NA**
									5900				
T-1	01/07/2002	<20,000	2,600	310	<200	<200	<200	NA	92,000	NA	4.86	NA	NA
T-1	04/12/2002	<5,000	1,000	230	<50	<50	<50	NA	57,000	NA	5.05	NA	NA
T-1	07/10/2002	<20,000	3,700	260	<200	<200	<200	NA	69,000	NA	5.84	NA	NA
T-1	10/15/2002	<5,000	2,100	150	62	<50	75	NA	29,000	NA	5.77	NA	NA
T-1	**01/02/2003**	**NA**	**NA**	**1.5**	**<0.50**	**<0.50**	**<1.0**	**NA**	**NA**	**NA**	**5.10**	**NA**	**NA**
T-1	**01/29/2003**	**1,300**	**1,200**	**67**	**6.5**	**<2.0**	**5.2**	**NA**	**820**	**NA**	**5.49**	**NA**	**NA**
									89				

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)

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.
Wells MW-1 through MW-5 surveyed April 12, 2002, by Virgil Chavez Land Surveying of Vallejo, California.
Site surveyed Spetember 26, 2002, by Virgil Chavez Land Surveying of Vallejo, California.

KIFF ANALYTICAL LLC

Report Number : 31190
Date : 2/6/2003

Leon Gearhart
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject : 7 Water Samples
Project Name : 105 5th Street, Oakland
Project Number : 030129-RH1
P.O. Number : 98995757

Dear Mr. Gearhart,

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

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 31190
Date : 2/6/2003

Subject : 7 Water Samples
Project Name : 105 5th Street, Oakland
Project Number : 030129-RH1
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. Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for samples MW-4, MW-5 and MW-6.

Approved By: Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 31190
Date : 2/6/2003

Project Name : **105 5th Street, Oakland**
Project Number : **030129-RH1**

Sample : **MW-1** Matrix : Water Lab Number : 31190-01
Sample Date :1/29/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/31/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	1/31/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/31/2003
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	1/31/2003
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	1/31/2003
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	1/31/2003
Toluene - d8 (Surr)	94.9		% Recovery	EPA 8260B	1/31/2003
4-Bromofluorobenzene (Surr)	97.3		% Recovery	EPA 8260B	1/31/2003
TPH as Diesel	**< 50**	50	ug/L	M EPA 8015	2/3/2003

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 31190

Date : 2/6/2003

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

Project Number : **030129-RH1**

Sample : **MW-2** Matrix : Water Lab Number : 31190-02

Sample Date :1/29/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**10**	5.0	ug/L	EPA 8260B	2/1/2003
Toluene	**< 5.0**	5.0	ug/L	EPA 8260B	2/1/2003
Ethylbenzene	**16**	5.0	ug/L	EPA 8260B	2/1/2003
Total Xylenes	**6.3**	5.0	ug/L	EPA 8260B	2/1/2003
Methyl-t-butyl ether (MTBE)	**1700**	50	ug/L	EPA 8260B	2/1/2003
TPH as Gasoline	**< 500**	500	ug/L	EPA 8260B	2/1/2003
Toluene - d8 (Surr)	95.4		% Recovery	EPA 8260B	2/1/2003
4-Bromofluorobenzene (Surr)	98.6		% Recovery	EPA 8260B	2/1/2003
TPH as Diesel	**< 300**	300	ug/L	M EPA 8015	2/1/2003

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 31190
Date : 2/6/2003

Project Name : **105 5th Street, Oakland**
Project Number : **030129-RH1**

Sample : **MW-3** Matrix : Water Lab Number : 31190-03
Sample Date :1/29/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 25**	25	ug/L	EPA 8260B	2/1/2003
Toluene	**< 25**	25	ug/L	EPA 8260B	2/1/2003
Ethylbenzene	**< 25**	25	ug/L	EPA 8260B	2/1/2003
Total Xylenes	**< 25**	25	ug/L	EPA 8260B	2/1/2003
Methyl-t-butyl ether (MTBE)	**19000**	25	ug/L	EPA 8260B	2/1/2003
Diisopropyl ether (DIPE)	**< 25**	25	ug/L	EPA 8260B	2/1/2003
Tert-amyl methyl ether (TAME)	**< 25**	25	ug/L	EPA 8260B	2/1/2003
Tert-Butanol	**14000**	250	ug/L	EPA 8260B	2/1/2003
TPH as Gasoline	**< 2500**	2500	ug/L	EPA 8260B	2/1/2003
1,2-Dichloroethane	**< 25**	25	ug/L	EPA 8260B	2/1/2003
1,2-Dibromoethane	**< 25**	25	ug/L	EPA 8260B	2/1/2003
Toluene - d8 (Surr)	95.7		% Recovery	EPA 8260B	2/1/2003
4-Bromofluorobenzene (Surr)	98.1		% Recovery	EPA 8260B	2/1/2003
Dibromofluoromethane (Surr)	103		% Recovery	EPA 8260B	2/1/2003
1,2-Dichloroethane-d4 (Surr)	99.6		% Recovery	EPA 8260B	2/1/2003
TPH as Diesel	**96**	50	ug/L	M EPA 8015	2/1/2003

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 31190

Date : 2/6/2003

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

Project Number : **030129-RH1**

Sample : **MW-4** Matrix : Water Lab Number : 31190-04

Sample Date :1/29/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/31/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	1/31/2003
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	1/31/2003
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	1/31/2003
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	1/31/2003
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	1/31/2003
Toluene - d8 (Surr)	88.2		% Recovery	EPA 8260B	1/31/2003
4-Bromofluorobenzene (Surr)	100		% Recovery	EPA 8260B	1/31/2003
TPH as Diesel	**73**	50	ug/L	M EPA 8015	2/1/2003

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 31190
Date : 2/6/2003

Project Name : **105 5th Street, Oakland**
Project Number : **030129-RH1**

Sample : **MW-5** Matrix : Water Lab Number : 31190-05
Sample Date :1/29/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**6.0**	0.50	ug/L	EPA 8260B	1/30/2003
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	1/30/2003
Ethylbenzene	**2.9**	0.50	ug/L	EPA 8260B	1/30/2003
Total Xylenes	**2.6**	0.50	ug/L	EPA 8260B	1/30/2003
Methyl-t-butyl ether (MTBE)	**220**	5.0	ug/L	EPA 8260B	1/30/2003
TPH as Gasoline	**120**	50	ug/L	EPA 8260B	1/30/2003
Toluene - d8 (Surr)	95.7		% Recovery	EPA 8260B	1/30/2003
4-Bromofluorobenzene (Surr)	98.0		% Recovery	EPA 8260B	1/30/2003
TPH as Diesel	**85**	50	ug/L	M EPA 8015	2/1/2003

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 31190

Date : 2/6/2003

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

Project Number : **030129-RH1**

Sample : **MW-6** Matrix : Water Lab Number : 31190-06

Sample Date :1/29/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 2.5**	2.5	ug/L	EPA 8260B	2/1/2003
Toluene	**< 2.5**	2.5	ug/L	EPA 8260B	2/1/2003
Ethylbenzene	**< 2.5**	2.5	ug/L	EPA 8260B	2/1/2003
Total Xylenes	**< 2.5**	2.5	ug/L	EPA 8260B	2/1/2003
Methyl-t-butyl ether (MTBE)	**1600**	25	ug/L	EPA 8260B	2/1/2003
TPH as Gasoline	**< 250**	250	ug/L	EPA 8260B	2/1/2003
Toluene - d8 (Surr)	96.9		% Recovery	EPA 8260B	2/1/2003
4-Bromofluorobenzene (Surr)	98.8		% Recovery	EPA 8260B	2/1/2003
TPH as Diesel	**350**	50	ug/L	M EPA 8015	2/1/2003

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 31190
Date : 2/6/2003

Project Name : **105 5th Street, Oakland**
Project Number : **030129-RH1**

Sample : **T-1** Matrix : Water Lab Number : 31190-07
Sample Date :1/29/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**67**	2.0	ug/L	EPA 8260B	2/1/2003
Toluene	**6.5**	2.0	ug/L	EPA 8260B	2/1/2003
Ethylbenzene	**< 2.0**	2.0	ug/L	EPA 8260B	2/1/2003
Total Xylenes	**5.2**	2.0	ug/L	EPA 8260B	2/1/2003
Methyl-t-butyl ether (MTBE)	**820**	20	ug/L	EPA 8260B	2/1/2003
TPH as Gasoline	**1300**	200	ug/L	EPA 8260B	2/1/2003
Toluene - d8 (Surr)	94.6		% Recovery	EPA 8260B	2/1/2003
4-Bromofluorobenzene (Surr)	98.4		% Recovery	EPA 8260B	2/1/2003
TPH as Diesel	**1200**	50	ug/L	M EPA 8015	2/1/2003

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 31190

Date : 2/6/2003

QC Report : Method Blank Data

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

Project Number : **030129-RH1**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	1/31/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/30/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/30/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/30/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/30/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/30/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/30/2003
Toluene - d8 (Surr)	92.2		%	EPA 8260B	1/30/2003
4-Bromofluorobenzene (Surr)	98.6		%	EPA 8260B	1/30/2003
Benzene	< 0.50	0.50	ug/L	EPA 8260B	1/31/2003
Toluene	< 0.50	0.50	ug/L	EPA 8260B	1/31/2003
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	1/31/2003
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	1/31/2003
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	1/31/2003
Diisopropyl ether (DIPE)	< 2.0	2.0	ug/L	EPA 8260B	1/31/2003
Tert-amyl methyl ether (TAME)	< 2.0	2.0	ug/L	EPA 8260B	1/31/2003
Tert-Butanol	< 50	50	ug/L	EPA 8260B	1/31/2003
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	1/31/2003
1,2-Dichloroethane	< 2.0	2.0	ug/L	EPA 8260B	1/31/2003
1,2-Dibromoethane	< 2.0	2.0	ug/L	EPA 8260B	1/31/2003
Toluene - d8 (Surr)	98.8		%	EPA 8260B	1/31/2003
4-Bromofluorobenzene (Surr)	96.0		%	EPA 8260B	1/31/2003
Dibromofluoromethane (Surr)	105		%	EPA 8260B	1/31/2003
1,2-Dichloroethane-d4 (Surr)	100		%	EPA 8260B	1/31/2003

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St. Suite 300 Davis. CA 95616 530-297-4800

Report Number : 31190

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 2/6/2003

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

Project Number : **030129-RH1**

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	1030	1090	ug/L	M EPA 8015	1/31/03	103	109	5.50	70-130	25
Benzene	31188-01	<0.50	40.0	40.0	36.8	38.2	ug/L	EPA 8260B	1/30/03	92.0	95.5	3.73	70-130	25
Toluene	31188-01	<0.50	40.0	40.0	36.0	33.2	ug/L	EPA 8260B	1/30/03	90.1	83.1	8.08	70-130	25
Tert-Butanol	31188-01	340	200	200	481	504	ug/L	EPA 8260B	1/30/03	71.2	82.8	15.2	70-130	25
Methyl-t-Butyl Ether	31188-01	<0.50	40.0	40.0	40.0	42.7	ug/L	EPA 8260B	1/30/03	100	107	6.48	70-130	25
Benzene	31199-04	<0.50	40.0	40.0	41.5	40.1	ug/L	EPA 8260B	1/31/03	104	100	3.60	70-130	25
Toluene	31199-04	<0.50	40.0	40.0	37.8	36.5	ug/L	EPA 8260B	1/31/03	94.5	91.3	3.47	70-130	25
Tert-Butanol	31199-04	<5.0	200	200	196	195	ug/L	EPA 8260B	1/31/03	97.9	97.4	0.450	70-130	25
Methyl-t-Butyl Ether	31199-04	<0.50	40.0	40.0	39.8	40.4	ug/L	EPA 8260B	1/31/03	99.5	101	1.62	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 31190

Date : 2/6/2003

QC Report : Laboratory Control Sample (LCS)

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

Project Number : **030129-RH1**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	1/30/03	96.5	70-130
Toluene	40.0	ug/L	EPA 8260B	1/30/03	89.2	70-130
Tert-Butanol	200	ug/L	EPA 8260B	1/30/03	95.6	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	1/30/03	103	70-130
Benzene	40.0	ug/L	EPA 8260B	1/31/03	104	70-130
Toluene	40.0	ug/L	EPA 8260B	1/31/03	95.8	70-130
Tert-Butanol	200	ug/L	EPA 8260B	1/31/03	102	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	1/31/03	102	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St. Suite 300 Davis, CA 95616 530-297-4800

SHELL Chain Of Custody Record

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be invoiced: Karen Petryna

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

31190

INCIDENT NUMBER (S&E ONLY): 98995757

SAP or CRMT NUMBER (TS/CRMT):

DATE: 1/29/03

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 Designee): Anni Kreml	PHONE NO.: (510) 420-3335
PROJECT CONTACT (Hardcopy or PDF Report to): Leon Gearhart		E-MAIL: ShellOaklandEDF@cambria-env.com	CONSULTANT PROJECT NO.: BTS #030129-R41
TELEPHONE: 408-573-0555	FAX: 408-573-7771	E-MAIL: lgearhart@blainetech.com	SAMPLER NAME(S) (Print): Ryan Hamstedt

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: CHECK BOX IF EDD IS NOT NEEDED ☐

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable	BTEX	MTBE (8021B - 5ppb RL)	MTBE (8260B - 0.5ppb RL)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	1,2-DCA (8260B)	EDB (8260B)		TPH - Diesel, Extractable (8015m)		TBA, DIPE, TAME (8260)							TEMPERATURE ON RECEIPT C°
	mw-1	1/29/03	1020	GW	5	X	X	X					X			X									-01
	mw-2		1030			X	X	X								X									-02
	mw-3		1115			X	X	X					X	X		X		X							-03
	mw-4		846			X	X	X								X									-04
	mw-5		1105			X	X	X								X									-05
	mw-6		926			X	X	X								X									-06
	T-1		1041			X	X	X								X									-07

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

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) Kiff Analytical	Date: 013003	Time: 1118

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

Q&Q Graphic (714) 898-9702

WELL GAUGING DATA

Project # 030129-RH1 Date 1/29/03 Client Shell

Site 105 5th St, 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					5.03	~~23.60~~ 23.60		
mw-2	4					5.14	23.61		
mw-3	4		gauged w/ stinger in well			5.68	24.99		
mw-4	2					4.34	20.07		
mw-5	4					5.85	24.17		
mw-6	2					5.20	24.12		
T-1	12		gauged w/ stinger in well			5.49	11.50		

SHELL WELL MONITORING DATA SHEET

BTS #: 030129-RH1	Site: 105 5th St, Oakland
Sampler: Ryan H	Date: 1/29/03
Well I.D.: mw-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 23.60	Depth to Water (DTW): 5.03
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.74	

Purge Method: Bailer, Disposable Bailer, Middleburg, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other:_____

12 (Gals.) X 3 = 36 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. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
946	62.9	7.1	715	79.1	12.0	turbid
948	64.1	7.0	723	58.2	24.0	clear
950	65.1	6.9	653	96.0	36.0	turbid

Did well dewater? Yes (No) Gallons actually evacuated: 36.0

Sampling Date: 1/29/03 Sampling Time: 1020 Depth to Water: 5.25

Sample I.D.: mw-1 Laboratory: (Kiff) SPL 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

SHELL WELL MONITORING DATA SHEET

BTS #: 030129-RH1	Site: 105 5th St, Oakland
Sampler: Ryan H	Date: 1/29/03
Well I.D.: mw-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 23.61	Depth to Water (DTW): 5.14
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.83	

Purge Method: Bailer, Disposable Bailer, Middleburg, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other:_____

12 (Gals.) X 3 = 36 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. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
956	67.6	6.8	467	64.5	12.0	clear
958	67.8	6.8	439	59.7	24.0	"
1000	68.2	6.8	476	76.9	36.0	"

Did well dewater? Yes (No) Gallons actually evacuated: 36.0

Sampling Date: 1/29/03 Sampling Time: 1030 Depth to Water: 5.45

Sample I.D.: mw-2 Laboratory: (Kiff) SPL 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

SHELL WELL MONITORING DATA SHEET

BTS #: 030129-RH1	Site: 105 5th St, Oakland
Sampler: Ryan H	Date: 1/29/03
Well I.D.: mw-3	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 24.99	Depth to Water (DTW): 5.68
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.54	

Purge Method: Bailer, Disposable Bailer, Middleburg, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ____

12.5 (Gals.) X 3 = 37.5 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. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1052	64.9	6.9	1364	104	12.5	turbid
1054	64.9	6.9	1355	75.8	25.0	clear
1056	64.9	6.9	1196	82.8	37.5	"

Did well dewater? Yes (No) Gallons actually evacuated: 37.5

Sampling Date: 1/29/03 Sampling Time: 1115 Depth to Water: 6.24

Sample I.D.: mw-3 Laboratory: (Kiff) SPL Other____

Analyzed for: (TPH-G) (BTEX) (MTBE) (TPH-D) Other: TBA, DIPE, TAME, EDB, 1,2-DCA by 8260

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

SHELL WELL MONITORING DATA SHEET

BTS #: 030129-RH1	Site: 105 5th St, Oakland
Sampler: Ryan H	Date: 1/29/03
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 20.07	Depth to Water (DTW): 4.34
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.49	

Purge Method: Bailer, Disposable Bailer, (Middleburg), Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ____

1 Case Volume	Specified Volumes	Calculated Volume
2.5 (Gals.) X	3	= 7.5 Gals.

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. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
835	62.2	6.6	1724	142	2.5	Cloudy
938	62.7	7.1	1759	60.6	5.0	turbid
941	63.4	6.8	1784	51.0	7.5	clear

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

Sampling Date: 1/29/03 Sampling Time: 941 Depth to Water: 12.66 due to traffic

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

SHELL WELL MONITORING DATA SHEET

BTS #: 030129-RH1	Site: 1055th St, Oakland
Sampler: Ryan H	Date: 1/29/03
Well I.D.: mw-5	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 24.17	Depth to Water (DTW): 5.85
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.91	

Purge Method: Bailer, Disposable Bailer, Middleburg, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ____

1 Case Volume	Specified Volumes	Calculated Volume
11.9 (Gals.) X	3	= 35.7 Gals.

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. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1006	68.2	7.0	294	77.5	11.9	turbid
1008	67.5	6.8	296	151	23.8	"
1010	68.5	6.8	307	99.0	35.7	"

Did well dewater? Yes (No) Gallons actually evacuated: 35.7

Sampling Date: 1/29/03 Sampling Time: 1105 Depth to Water: 5.96

Sample I.D.: mw-5 Laboratory: (Kiff) SPL 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

SHELL WELL MONITORING DATA SHEET

BTS #: 030129-RH1	Site: 105 5th St, Oakland
Sampler: Ryan H	Date: 1/29/03
Well I.D.: MW-6	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 24.12	Depth to Water (DTW): 5.20
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.98	

Purge Method: Bailer, Disposable Bailer, (Middleburg), Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other:_____

1 Case Volume	Specified Volumes	Calculated Volume
3.0 (Gals.) X	3	= 9.0 Gals.

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. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
913	63.1	7.7	273	>200	3.0	brown, cloudy
917	64.4	7.3	325	>200	6.0	cloudy
921	65.5	7.2	362	>200	9.0	"

Did well dewater? Yes (No) Gallons actually evacuated: 9.0

Sampling Date: 1/29/03 Sampling Time: 926 Depth to Water: 7.81

Sample I.D.: MW-6 Laboratory: (Kiff) SPL 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

SHELL WELL MONITORING DATA SHEET

BTS #: 030129-RH1	Site: 1055th St, Oakland
Sampler: Ryan H	Date: 1/29/03
Well I.D.: T-1	Well Diameter: 2 3 4 6 8 (12)
Total Well Depth (TD): 11.50	Depth to Water (DTW): 5.49
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.69	

Purge Method: Bailer, Disposable Bailer, Middleburg, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other:_____

35.0 (Gals.) X 3 = 105.0 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

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

12 = 5.87

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1022	62.6	6.8	961	57.3	35.0	clear
1029	62.8	6.8	971	29.9	70.0	"
1036	62.9	6.9	968	29.0	105.0	"

Did well dewater? Yes (No) Gallons actually evacuated: 105.0

Sampling Date: 1/29/03 Sampling Time: 1041 Depth to Water: 5.51

Sample I.D.: T-1 Laboratory: (Kiff) SPL 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 # 030102-SS2 Date 1/2/03 Client SHELL

Site 105 5th ST. 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-3	4					5.40	24.99	↓	
T-1	12					5.10	11.50	↓	
GAUGED w/ STINGER IN WELL									

SHELL WELL MONITORING DATA SHEET

BTS #: 030102-552	Site: 105 5TH ST. OAKLAND
Sampler: Goodt	Date: 1/2/03
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 24.99	Depth to Water (DTW): 5.40
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.32	

Purge Method: Bailer, Disposable Bailer, Middleburg, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other ____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other: ____

12.7 (Gals.) X 3 = 38.1 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. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1023	64.5	6.8	1279	33	12.7	CLEAR/GAS ODOR
1026	65.1	6.8	1281	30	25.4	" "
1029	65.3	6.8	1185	29	38.1	" "

Did well dewater? Yes (No) Gallons actually evacuated: 38.1

Sampling Date: 1/2/03 Sampling Time: 1035 Depth to Water: 9.22

Sample I.D.: MW-3 Laboratory: (Kiff) SPL Other ____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: EPA 8260 FULL SUITE + CAM 17 METALS BY 200.7

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

SHELL WELL MONITORING DATA SHEET

BTS #: 030102-552	Site: 105 5th ST. OAKLAND
Sampler: Scott	Date: 1/2/03
Well I.D.: T-1	Well Diameter: 2 3 4 6 8 (12)
Total Well Depth (TD): 11.50	Depth to Water (DTW): 5.10
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.36	

Purge Method: Bailer, Disposable Bailer, Middleburg, (Electric Submersible), Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: (Bailer), Disposable Bailer, Extraction Port, Dedicated Tubing, Other:_____

37.6 (Gals.) X 3 = 112.8 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. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
955	62.8	6.7	1125	5	37.6	CLEAR/GAS ODOR
1002	63.3	6.7	940	4	75.2	" "
1009	63.5	6.7	931	3	113.0	" "

Did well dewater? Yes (No) Gallons actually evacuated: 113

Sampling Date: 1/2/03 Sampling Time: 1013 Depth to Water: 5.20

Sample I.D.: T-1 Laboratory: (Kiff) SPL Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: EPA 8260 FULL SUITE + CAM 17 METALS BY 200.7

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