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June 26, 2001

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

Second Quarter 2001 Monitoring Report
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, California
Incident #98995758
Cambria Project #243-0524-002

- may want to extract water from backfill wells more frequently than monthly.
- Significant concentrations in backfill wells - indicates an ongoing problem? even w/ ORC in well, D.O. is still low

an:

Equiva Services LLC, Cambria Environmental Technology, Inc. (Cambria) is is groundwater monitoring report in accordance with the reporting requirements of 52d.

OND QUARTER 2001 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, gauged and sampled the site wells, calculated groundwater elevations and compiled the gasoline constituents analytical data. Separate phase hydrocarbons have not been observed at the site since the 4th quarter of 1999. Cambria prepared a groundwater elevation contour map (Figure 1). Bioattentionation parameters, monitored annually in the third quarter, are presented in Table 1. Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

Dual-Phase Vacuum Extraction (DVE): On April 20 and May 30, 2001, Advanced Cleanup Technologies Inc. of Benicia, California conducted eight-hour mobile DVE at the site using a vacuum truck. DVE is the process of applying high vacuum through an airtight well seal to simultaneously extract soil vapors from the vadose zone and enhance groundwater extraction from the saturated zone. A vacuum truck was used to create the vacuum and contain extracted fluids.

On April 20, DVE was performed on monitoring well MW-2 and tank backfill well TB-2. Monitoring well MW-3 was added to the May 30 DVE event. After extracting groundwater and vapors from the monitoring wells for a total of six hours, the truck extracted groundwater only

Oakland, CA
San Ramon, CA
Sonoma, CA

Cambria Environmental Technology, Inc.

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from well TB-2 until the tank was filled. Approximately 1.50 pounds of aqueous-phase and 0.63 pounds of vapor-phase hydrocarbons as well as approximately 1.01 pounds of aqueous-phase and 0.03 pounds of vapor-phase MTBE have been removed from the subsurface using DVE during the last quarter. Mass removal data for DVE operations are summarized in Tables 2 and 3. Analytical results for the current DVE events are included as Attachment B.

ANTICIPATED THIRD QUARTER 2001 ACTIVITIES

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

DVE: Cambria will continue to perform monthly site visits to oversee DVE from wells MW-2, MW-3, TB-1 and TB-2. Groundwater extraction only will be performed on tank backfill wells due to the potential adverse affect high vacuum may have on the underground storage tanks and equipment in the tank pit.

Downgradient Monitoring Well Installation: Cambria will begin the permitting process for installing an additional downgradient monitoring well within the Caltrans right-of-way as shown in Figure 1.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Melody Munz at (510) 420-3324 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Melody Munz
Project Engineer

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

REGISTERED GEOLOGIST
STEPHAN A. BORK
No. EG 2058
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

Figure: 1 - Groundwater Elevation Contour Map

Tables: 1 - Groundwater Analytical Data - Bioattenuation Parameters
2 - Groundwater Extraction - Mass Removal Data
3 - Vapor Extraction - Mass Removal Data

Attachments: A - Blaine Groundwater Monitoring Report and Field Notes
B - Analytical Results for Dual-Phase Vacuum Extraction Events

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91510-7869
Russell J. Bruzzone, Inc., 899 Hope Lane, Lafayette, CA 94549

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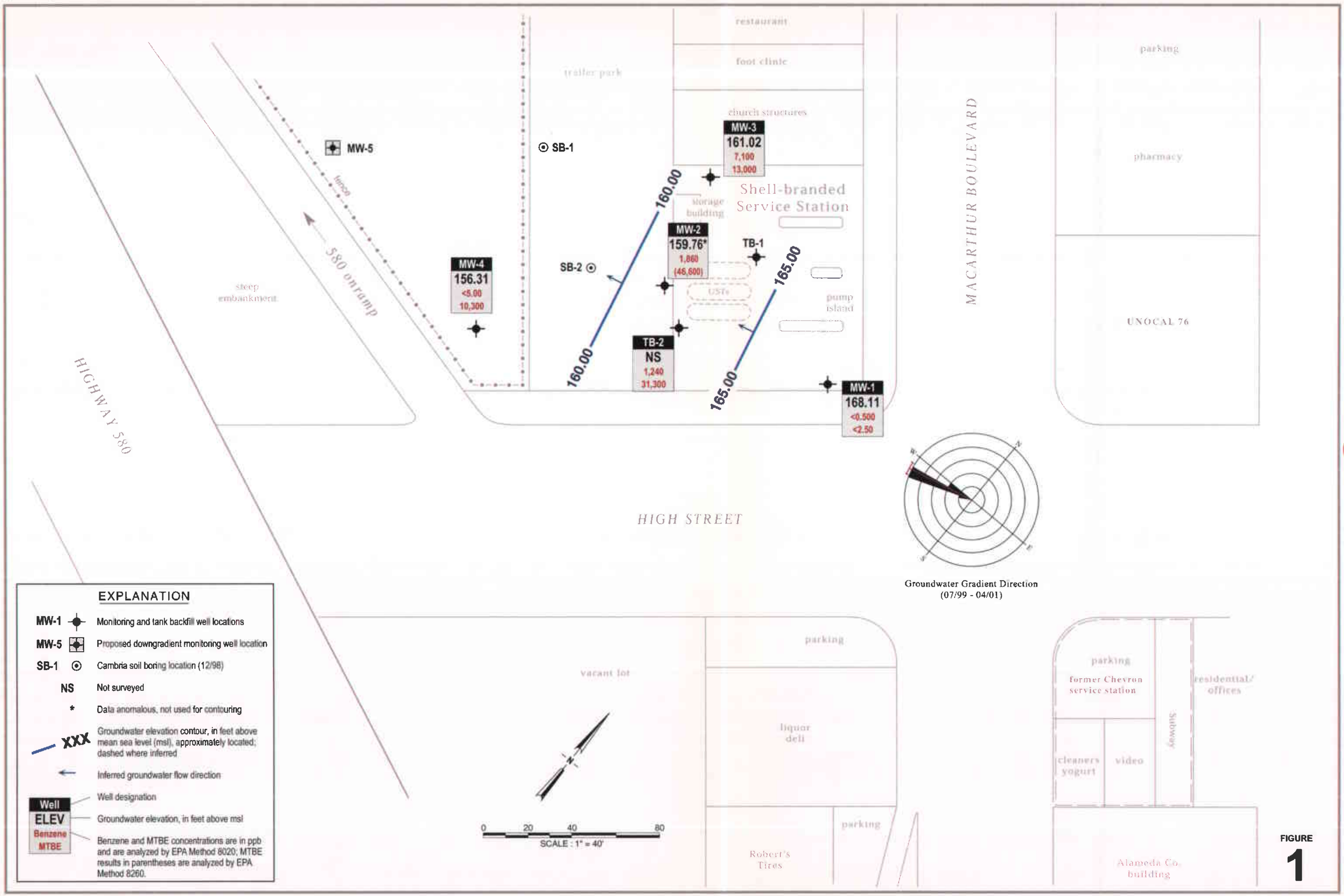
05/25/01

Groundwater Elevation Contour Map

April 9, 2001



EXPLANATION

MW-1	Monitoring and tank backfill well locations
MW-5	Proposed downgradient monitoring well location
SB-1	Cambria soil boring location (12/98)
NS	Not surveyed
*	Data anomalous, not used for contouring
XXX	Groundwater elevation contour, in feet above mean sea level (msl), approximately located; dashed where inferred
	Inferred groundwater flow direction
Well	Well designation
ELEV	Groundwater elevation, in feet above msl
Benzene / MTBE	Benzene and MTBE concentrations are in ppb and are analyzed by EPA Method 8020; MTBE results in parentheses are analyzed by EPA Method 8260.

FIGURE

1

Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, California
Incident #98995758

CAMBRIA

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Table 1. **Groundwater Analytical Data - Bioattenuation Parameters** - Shell-branded Service Station, Incident #98995758, 4255 MacArthur Boulevard, Oakland, California

Well ID	Date	ORP (mV)	DO	Total Alkalinity	Ferrous Iron	Nitrate as Nitrate	Sulfate	Notes
			← (Concentrations in mg/L) →					
MW-1	07/17/98	---	0.8	460	1.6	<1.0	12	
	07/23/99	---	1.0	480	0.790	7.49	28.6	
	07/26/00	-140	13.2	92.9	<0.0100	7.80	387	
MW-2	07/17/98	---	---	---	---	---	---	SPH
	07/23/99	---	1.4	440	26.0	<1.00	3.24	
	07/26/00	113	2.2	26.5	3.74	7.59	399	
MW-3	07/17/98	---	1.3	860	5.3	<1.0	6.5	
	07/17/98	---	1.3	860	5.4	<1.0	5.8	duplicate
	07/23/99	---	1.3	920	76.0	<1.00	4.23	
	07/26/00	-70	0.9	440	4.04	<1.00	355	
MW-4	07/17/98	---	1.4	630	2.8	<1.0	13	
	07/23/99	---	0.9	620	46.0	7.41	6.03	
	07/26/00	-137	1.4	228	0.223	6.30	372	

Abbreviations &Notes:

ORP = Oxidation reduction potential, measured pre-purge
mV = Millivolts
DO = Dissolved oxygen, measured pre-purge
mg/L = Milligrams per liter
SPH = Separate-phase hydrocarbons in well; not sampled
--- = Not analyzed / Not available
<n = Below detection limit of n mg/L
Total alkalinity by EPA Method 310.2, concentrations in mg CaCO3/L
Ferrous iron by EPA Method 200.7
Nitrate as nitrate and sulfate by EPA Method 300.0

Table 2: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995758, 4255 MacArthur Boulevard, Oakland, CA

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (lb)	TPPH Removed To Date (lb)	Benzene Concentration (ppb)	Benzene Removed (lb)	Benzene Removed to Date (lb)	MTBE Concentration (ppb)	MTBE Removed (lb)	MTBE Removed To Date (lb)
					TPPH			Benzene			MTBE		
04/23/99	MW-2	200	200	04/13/98	180,000	0.30040	0.30040	2,800	0.00467	0.00467	71,000	0.11849	0.11849
05/24/99	MW-2	200	400	04/13/98	180,000	0.30040	0.60079	2,800	0.00467	0.00935	71,000	0.11849	0.23698
06/28/99	MW-2	200	600	04/13/98	180,000	0.30040	0.90119	2,800	0.00467	0.01402	71,000	0.11849	0.35547
07/30/99	MW-2	200	800	07/23/99	65,800	0.10981	1.01100	6,500	0.01085	0.02487	46,600	0.07777	0.43324
08/24/99	MW-2	100	900	07/23/99	65,800	0.05491	1.06591	6,500	0.00542	0.03029	46,600	0.03888	0.47212
10/29/99	MW-2	100	1,000	07/23/99	65,800	0.05491	1.12081	6,500	0.00542	0.03571	46,600	0.03888	0.51101
11/30/99	MW-2	100	1,100	07/23/99	65,800	0.05491	1.17572	6,500	0.00542	0.04114	46,600	0.03888	0.54989
02/02/00	MW-2	200	1,300	01/17/00	46,000	0.07677	1.25249	6,000	0.01001	0.05115	**31,000**	0.05174	0.60163
11/16/00	MW-2	150	1,450	10/12/00	63,200	0.07910	1.33159	5,840	0.00731	0.05846	**66,600**	0.08336	0.68499
02/23/01	MW-2	200	1,650	01/15/01	59,700	0.09963	1.43122	2,630	0.00439	0.06285	**5,080**	0.00848	0.69347
03/14/01	MW-2	300	1,950	01/15/01	59,700	0.14945	1.58067	2,630	0.00658	0.06943	**5,080**	0.01272	0.70618
04/20/01*	MW-2	200	2,150	04/09/01	56,900	0.09496	1.67563	1,860	0.00310	0.07254	**46,600**	0.07777	0.78395
05/30/01	MW-2	200	2,350	04/09/01	56,900	0.09496	1.77059	1,860	0.00310	0.07564	**46,600**	0.07777	0.86172
06/12/01	MW-2	100	2,450	04/09/01	56,900	0.04748	1.81807	1,860	0.00155	0.07719	**46,600**	0.03888	0.90061
05/30/01	MW-3	50	50	04/09/01	33,800	0.01410	0.01410	7,100	0.00296	0.00296	13,000	0.00542	0.00542
06/12/01	MW-3	50	100	04/09/01	33,800	0.01410	0.02820	7,100	0.00296	0.00592	13,000	0.00542	0.01085
04/23/99	TB-2	4,800	4,800	08/24/99	6,240	0.24993	0.01602	400	0.01602	0.01602	86,100	3.44856	3.44856
05/24/99	TB-2	4,800	9,600	08/24/99	6,240	0.24993	0.26595	400	0.01602	0.03204	86,100	3.44856	6.89711
06/28/99	TB-2	4,800	14,400	08/24/99	6,240	0.24993	0.51588	400	0.01602	0.04806	86,100	3.44856	10.34567
07/30/99	TB-2	4,800	19,200	08/24/99	6,240	0.24993	0.76581	400	0.01602	0.06408	86,100	3.44856	13.79422
08/24/99	TB-2	2,400	21,600	08/24/99	6,240	0.12497	0.89078	400	0.00801	0.07210	86,100	1.72428	15.51850
10/29/99	TB-2	2,255	23,855	10/29/99	7,460	0.14037	1.03115	656	0.01234	0.08444	442	0.00832	15.52682
11/30/99	TB-2	3,800	27,655	10/29/99	7,460	0.23655	1.26769	656	0.02080	0.10524	442	0.01402	15.54083

Table 2: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995758, 4255 MacArthur Boulevard, Oakland, CA

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH Concentration (ppb)	TPPH Removed (lb)	TPPH Removed To Date (lb)	Benzene Concentration (ppb)	Benzene Removed (lb)	Benzene Removed to Date (lb)	MTBE Concentration (ppb)	MTBE Removed (lb)	MTBE Removed To Date (lb)
					TPPH			Benzene			MTBE		
02/02/00	TB-2	4,500	32,155	01/31/00	2,070	0.07773	1.34542	108	0.00406	0.10930	6,550	0.24595	15.78678
11/16/00	TB-2	974	33,129	11/16/00	107,000	0.86963	2.21505	3,390	0.02755	0.13685	16,800	0.13654	15.92332
02/23/01	TB-2	2,506	35,635	02/23/01	80,600	1.68542	3.90048	2,410	0.05040	0.18724	38,100	0.79671	16.72003
03/14/01	TB-2	1,075	36,710	02/23/01	80,600	0.72300	4.62347	2,410	0.02162	0.20886	38,100	0.34176	17.06179
04/20/01*	TB-2	1,760	38,470	04/09/01	46,600	0.68437	5.30784	1,240	0.01821	0.22707	31,300	0.45967	17.52147
05/30/01	TB-2	2,100	40,570	04/09/01	46,600	0.81658	6.12442	1,240	0.02173	0.24880	31,300	0.54847	18.06994
06/12/01	TB-2	2,400	42,970	04/09/01	46,600	0.93323	7.05766	1,240	0.02483	0.27363	31,300	0.62683	18.69677
Total Gallons Extracted:			**45,520**		**Total Pounds Removed:**		**9.13784**			**0.35675**			[redacted]
					Total Gallons Removed:		**1.49801**			**0.04887**			

Abbreviations & Notes:

TPPH = Total purgeable hydrocarbons as gasoline, analyzed by EPA Method 8015
MtBE = Methyl tert-butyl ether by EPA Method 8020; MTBE results in bold are analyzed by EPA Method 8260
µg/L = Micrograms per liter
ppb = Parts per billion, equivalent to µg/L
lb = Pound
L = Liter
gal = Gallon
g = Gram
* = Purge volume estimated
Mass removed based on the formula: volume extracted (gal) x Concentration (µg/L) x (g/10^6µg) x (pound/453.6g) x (3.785 L/gal)
Volume removal data based on the formula: density (in gms/cc) x 9.339 (ccxlbs/gmsxgals)
Benzene analyzed by EPA Method 8020

Table 3: Vapor Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995758, 4255 MacArthur Boulevard, Oakland, CA

							TPHg		Benzene		MTBE	
		Interval Hours of	System Flow	Hydrocarbon Concentrations			TPHg Removal	Cumulative TPHg	Benzene Removal	Cumulative Benzene	MTBE Removal	Cumulative MTBE
Date	Well ID	Operation (hours)	Rate (CFM)	TPHg	Benzene	MTBE	Rate (#/hour)	Removed (#)	Rate (#/hour)	Removed (#)	Rate (#/hour)	Removed (#)
				(Concentrations in ppmv)								
11/16/00	MW-2	0.67	0.5	663.0	7.00	42.0	0.004	0.003	0.000	0.000	0.000	0.000
02/23/01	MW-2	7.00	3.2	24.1	0.93	11.9	0.001	0.010	0.000	0.000	0.001	0.004
03/14/01	MW-2	6.00	4.0	203	4.13	51.9	0.011	0.075	0.000	0.001	0.003	0.021
04/20/01*	MW-2	4.00	6.2	310	4.4	49	0.026	0.178	0.000	0.003	0.004	0.037
05/30/01	MW-2	3.00	5.1	360	4.4	50	0.025	0.252	0.000	0.004	0.003	0.048
05/30/01	MW-3	3.00	3.3	4,200	7.1	14	0.185	0.556	0.000	0.001	0.001	0.002
Total Pounds Removed:							**TPHg =**	**0.808**	**Benzene =**	**0.559**	**MTBE =**	**0.050**

Abbreviations and Notes:

CFM = Cubic feet per minute

TPHg = Total petroleum hydrocarbons as gasoline (C6-C12) by modified EPA Method 8015 in 1 liter tedlar bag samples

ppmv = Parts per million by volume

= Pounds

TPHG, Benzene, and MTBE analyzed by EPA Method 8015/8020 in 1 liter tedlar bag samples

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

(Rate = Concentration (ppmv) x system flow rate (cfm) x (1lb-mole/386ft3) x molecular weight (86 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene, 88 lb/lb-mole for MTBE) x 60 min/hour x 1/1,000,000)

Cumulative TPHg / Benzene / MTBE removal = Previous removal rate multiplied by the hour-interval of operation plus the previous total

* = Interval hours of operation estimated.

ATTACHMENT A

Blaine Groundwater Monitoring Report and Field Notes

BLAINE
TECH SERVICES Inc

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

April 30, 2001

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

Second Quarter 2001 Groundwater Monitoring at
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA

Monitoring performed on April 9, 2001

Groundwater Monitoring Report **010409-M-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 Martinez Refining Company.

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

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

Deidre Kerwin
Operations Manager

DK/jt

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

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

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-1	11/17/1993	410	21	11	7.9	47	NA	NA	175.79	8.59	NA	167.20	NA	NA	NA
MW-1	01/20/1994	1,200	180	19	48	47	NA	NA	175.79	8.22	NA	167.57	NA	NA	NA
MW-1	04/25/1994	3,100	610	<10	130	27	NA	NA	175.79	7.63	NA	168.16	NA	NA	NA
MW-1	07/07/1994	2,400	1,000	10	250	20	NA	NA	175.79	8.31	NA	167.48	NA	NA	NA
MW-1	10/27/1994	2,200	500	3.1	72	1.8	NA	NA	175.79	8.84	NA	166.95	NA	NA	NA
MW-1	11/17/1994	NA	NA	NA	NA	NA	NA	NA	175.79	7.60	NA	168.19	NA	NA	NA
MW-1	11/28/1994	NA	NA	NA	NA	NA	NA	NA	175.79	7.56	NA	168.23	NA	NA	NA
MW-1	01/13/1995	570	75	2.5	6.7	11	NA	NA	175.79	7.11	NA	168.68	NA	NA	NA
MW-1	04/12/1995	1,800	480	<5.0	79	<5.0	NA	NA	175.79	7.08	NA	168.71	NA	NA	NA
MW-1	07/25/1995	120	15	1.1	2.1	2.9	NA	NA	175.79	7.73	NA	168.06	NA	NA	NA
MW-1 (D)	07/25/1995	300	88	2.4	11	6.5	NA	NA	175.79	7.73	NA	168.06	NA	NA	NA
MW-1	10/18/1995	130	9.5	0.8	1.3	1.7	NA	NA	175.79	8.42	NA	167.37	NA	NA	NA
MW-1 (D)	10/18/1995	120	11	0.8	1.4	1.8	NA	NA	175.79	8.42	NA	167.37	NA	NA	NA
MW-1	01/17/1996	250	22	0.9	1.6	2.3	NA	NA	175.79	7.83	NA	167.96	NA	NA	NA
MW-1	04/25/1996	<50	4.6	<0.5	<0.5	0.6	500b	NA	175.79	7.35	NA	168.44	NA	NA	NA
MW-1	07/17/1996	<250	15	<2.5	<2.5	<2.5	540	NA	175.79	7.70	NA	168.09	NA	NA	NA
MW-1	10/01/1996	1,200	500	12	57	82	1,900	NA	175.79	8.07	NA	167.72	NA	NA	NA
MW-1	01/22/1997	640	170	4.3	33	33	1,200	NA	175.79	7.21	NA	168.58	NA	NA	NA
MW-1	04/08/1997	<200	34	<2.0	3.3	4.3	950	NA	175.79	7.75	NA	168.04	NA	NA	NA
MW-1 (D)	04/08/1997	<200	66	<2.0	6.4	8	740	NA	175.79	7.75	NA	168.04	NA	NA	NA
MW-1	07/08/1997	190	49	1.2	5.8	8.6	560	NA	175.79	8.01	NA	167.78	NA	NA	NA
MW-1	10/08/1997	<100	7	<1.0	<1.0	<1.0	620	NA	175.79	8.10	NA	167.69	NA	NA	NA
MW-1	01/09/1998	970	390	12	48	71	1,200	NA	175.79	7.14	NA	168.65	NA	NA	NA
MW-1	04/13/1998	<50	136	<0.50	1.5	1.8	170	NA	175.79	6.78	NA	169.01	NA	NA	NA
MW-1	07/17/1998	2,500	750	11	88	67	150	NA	175.79	7.28	NA	168.51	NA	NA	NA
MW-1	10/02/1998	8,000	970	36	270	440	35	NA	175.79	7.77	NA	168.02	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-1	02/03/1999	210	56	0.82	<0.50	3.2	220	NA	175.79	7.45	NA	168.34	NA	1.4	NA
MW-1	04/29/1999	<50	4.5	<0.50	0.56	<0.50	140	196	175.79	7.58	NA	168.21	NA	1.2	140
MW-1	07/23/1999	<50.0	<0.500	<0.500	<0.500	<0.500	120	111*	175.79	8.51	NA	167.28	NA	1.0	NA
MW-1	11/01/1999	<50.0	<0.500	<0.500	<0.500	<0.500	2.90	NA	175.79	8.30	NA	167.49	NA	1.4	-71
MW-1	01/17/2000	<50	<0.50	<0.50	<0.50	<0.50	3.30	NA	175.79	8.04	NA	167.75	NA	16.9	64
MW-1	04/17/2000	<50.0	1.08	<0.500	<0.500	<0.500	<2.50	NA	175.79	8.00	NA	167.79	NA	1.8	112
MW-1	07/26/2000	125	54.3	2.16	5.45	9.86	33.1	NA	175.79	7.52	NA	168.27	NA	13.2	-140
MW-1	10/12/2000	101	40.7	2.68	3.00	5.18	25.0	NA	175.79	7.71	NA	168.08	NA	>20	534
MW-1	01/15/2001	<50.0	0.633	<0.500	0.505	1.74	<2.50	NA	175.79	7.33	NA	168.46	NA	16.9	-127
MW-1	**04/09/2001**	**<50.0**	**<0.500**	**<0.500**	**<0.500**	**0.927**	**<2.50**	**NA**	**175.79**	**7.68**	**NA**	**168.11**	**NA**	**12.8**	**-117**
MW-2	11/17/1993	31,000	9,400	4,600	1,000	3,900	NA	NA	170.91	12.31	NA	158.60	NA	NA	NA
MW-2	01/20/1994	40,000	6,900	5,600	780	4,100	NA	NA	170.91	11.48	NA	159.43	NA	NA	NA
MW-2 (D)	01/20/1994	41,000	7,200	6,200	900	4,800	NA	NA	170.91	11.48	NA	159.43	NA	NA	NA
MW-2	04/25/1994	60,000	9,300	6,100	1,400	6,200	NA	NA	170.91	10.84	NA	160.07	NA	NA	NA
MW-2	07/07/1994	280,000a	40,000	26,000	8,100	32,000	NA	NA	170.91	11.89	NA	159.02	NA	NA	NA
MW-2 (D)	07/07/1994	53,000	13,000	6,600	2,000	8,400	NA	NA	170.91	11.89	NA	159.02	NA	NA	NA
MW-2	10/27/1994	130,000	14,000	12,000	2,400	13,000	NA	NA	170.91	12.89	NA	158.02	NA	NA	NA
MW-2 (D)	10/27/1994	390,000	8,800	7,000	1,700	11,000	NA	NA	170.91	12.89	NA	158.02	NA	NA	NA
MW-2	11/17/1994	NA	NA	NA	NA	NA	NA	NA	170.91	9.11	NA	161.80	NA	NA	NA
MW-2	11/28/1994	NA	NA	NA	NA	NA	NA	NA	170.91	9.22	NA	161.69	NA	NA	NA
MW-2	01/13/1995	75,000	5,900	12,000	3,100	17,000	NA	NA	170.91	8.10	NA	162.81	NA	NA	NA
MW-2	04/12/1995	100,000	8,500	11,000	2,400	12,000	NA	NA	170.91	10.12	NA	160.79	NA	NA	NA
MW-2 (D)	04/12/1995	80,000	4,200	9,300	2,500	12,000	NA	NA	170.91	10.12	NA	160.79	NA	NA	NA
MW-2	07/25/1995	NA	NA	NA	NA	NA	NA	NA	170.91	11.53	NA	159.80	0.52	NA	NA
MW-2	10/18/1995	NA	NA	NA	NA	NA	NA	NA	170.91	14.02	NA	156.99	0.13	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
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Wic #204-5510-0600

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-2	01/17/1996	NA	NA	NA	NA	NA	NA	NA	170.91	10.27	NA	160.78	0.17	NA	NA
MW-2	04/25/1996	NA	NA	NA	NA	NA	NA	NA	170.91	11.68	NA	159.25	0.03	NA	NA
MW-2	07/17/1996	NA	NA	NA	NA	NA	NA	NA	170.91	12.78	NA	158.81	0.48	NA	NA
MW-2	10/01/1996	NA	NA	NA	NA	NA	NA	NA	170.91	14.21	NA	156.70	0.28	NA	NA
MW-2	01/22/1997	NA	NA	NA	NA	NA	NA	NA	170.91	10.92	NA	160.08	0.11	NA	NA
MW-2	04/08/1997	NA	NA	NA	NA	NA	NA	NA	170.91	14.12	NA	156.95	0.20	NA	NA
MW-2	07/08/1997	NA	NA	NA	NA	NA	NA	NA	170.91	14.98	NA	156.08	0.19	NA	NA
MW-2	10/08/1997	NA	NA	NA	NA	NA	NA	NA	170.91	12.97	NA	157.98	0.05	NA	NA
MW-2	01/08/1998	NA	NA	NA	NA	NA	NA	NA	170.91	12.54	NA	158.43	0.08	NA	NA
MW-2	04/13/1998	180,000	2,800	5,200	2,400	13,000	71,000	NA	170.91	10.05	NA	160.86	NA	NA	NA
MW-2	07/17/1998	NA	NA	NA	NA	NA	NA	NA	170.91	11.75	NA	159.24	0.10	NA	NA
MW-2	10/02/1998	NA	NA	NA	NA	NA	NA	NA	170.91	16.78	NA	154.22	0.11	NA	NA
MW-2	02/03/1999	NA	NA	NA	NA	NA	NA	NA	170.91	9.90	9.82	161.07	0.08	NA	NA
MW-2	04/29/1999	NA	NA	NA	NA	NA	NA	NA	170.91	9.86	9.81	161.09	0.05	NA	NA
MW-2	07/23/1999	65,800	6,500	4,480	1,960	8,960	46,600	58,500*	170.91	14.45	NA	156.46	NA	1.4	NA
MW-2	11/01/1999	NA	NA	NA	NA	NA	NA	NA	170.91	11.84	11.81	159.09	0.03	NA	NA
MW-2	01/17/2000	46,000	6,000	2,400	1,500	5,500	50,000	31,000	170.91	11.00	NA	159.91	NA	1.3	-54
MW-2	04/17/2000	96,300	8,150	10,200	2,820	14,900	112,000	108,000	170.91	11.06	NA	159.85	NA	2.6	125
MW-2	07/26/2000	72,400	8,680	5,620	2,810	13,400	66,200	46,300	170.91	12.82	NA	158.09	NA	2.2	113
MW-2	10/12/2000	63,200	5,840	4,180	2,310	11,100	61,200	66,600	170.91	11.32	NA	159.59	NA	0.4	55
MW-2	01/15/2001	59,700	2,630	4,800	2,050	11,500	44,400	5,080	170.91	10.19	NA	160.72	NA	1.1	-22
MW-2	**04/09/2001**	**56,900**	**1,860**	**2,550**	**1,810**	**9,720**	**40,000**	**46,600**	**170.91**	**11.15**	**NA**	**159.76**	**NA**	**1.0**	**-55**
MW-3	11/17/1993	18,000	5,400	660	720	2,200	NA	NA	174.61	15.40	NA	159.21	NA	NA	NA
MW-3	01/20/1994	55,000	13,000	2,600	2,200	6,500	NA	NA	174.61	14.61	NA	160.00	NA	NA	NA
MW-3	04/25/1994	96,000	11,000	1,600	3,100	9,900	NA	NA	174.61	13.12	NA	161.49	NA	NA	NA

WELL CONCENTRATIONS
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4255 MacArthur Boulevard
Oakland, CA
Wic #204-5510-0600

Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-3 (D)	04/25/1994	78,000	12,000	1,900	2,600	7,300	NA	NA	174.61	13.12	NA	161.49	NA	NA	NA
MW-3	07/07/1994	NA	NA	NA	NA	NA	NA	NA	174.61	14.54	NA	160.07	0.02	NA	NA
MW-3	10/27/1994	NA	NA	NA	NA	NA	NA	NA	174.61	15.62	NA	159.03	0.05	NA	NA
MW-3	11/17/1994	NA	NA	NA	NA	NA	NA	NA	174.61	13.83	NA	160.78	NA	NA	NA
MW-3	11/28/1994	NA	NA	NA	NA	NA	NA	NA	174.61	14.02	NA	160.59	NA	NA	NA
MW-3	01/13/1995	180,000	3,200	2,700	1,700	5,200	NA	NA	174.61	12.13	NA	162.48	NA	NA	NA
MW-3 (D)	01/13/1995	23,000	4,000	690	960	3,000	NA	NA	174.61	12.13	NA	162.48	NA	NA	NA
MW-3	04/12/1995	56,000	8,700	1,500	2,100	6,300	NA	NA	174.61	12.96	NA	161.65	NA	NA	NA
MW-3	07/25/1995	NA	NA	NA	NA	NA	NA	NA	174.61	14.28	NA	160.38	0.06	NA	NA
MW-3	10/18/1995	NA	NA	NA	NA	NA	NA	NA	174.61	15.88	NA	158.77	0.05	NA	NA
MW-3	01/17/1996	NA	NA	NA	NA	NA	NA	NA	174.61	13.86	NA	160.94	0.24	NA	NA
MW-3	04/25/1996	NA	NA	NA	NA	NA	NA	NA	174.61	13.82	NA	160.81	0.02	NA	NA
MW-3	07/17/1996	NA	NA	NA	NA	NA	NA	NA	174.61	16.11	NA	158.52	0.03	NA	NA
MW-3	10/01/1996	46,000	7,300	530	1,700	3,900	3,200	NA	174.61	16.56	NA	158.05	NA	NA	NA
MW-3 (D)	10/01/1996	47,000	7,100	530	1,700	4,000	2,900	NA	174.61	16.56	NA	158.05	NA	NA	NA
MW-3	01/22/1997	82,000	5,200	1,300	2,800	8,900	1,100	NA	174.61	13.07	NA	161.54	NA	NA	NA
MW-3 (D)	01/22/1997	61,000	8,400	1,100	2,300	7,000	2,700	NA	174.61	13.07	NA	161.54	NA	NA	NA
MW-3	04/08/1997	NA	NA	NA	NA	NA	NA	NA	174.61	17.09	NA	157.54	0.03	NA	NA
MW-3	07/08/1997	56,000	8,800	580	2,000	4,900	2,800	NA	174.61	15.85	NA	158.76	NA	NA	NA
MW-3	10/08/1997	48,000	8,000	590	1,700	3,400	5,100	NA	174.61	16.22	NA	158.39	NA	NA	NA
MW-3	01/08/1998	47,000	9,400	810	2,300	4,700	6,300	NA	174.61	13.80	NA	160.81	NA	NA	NA
MW-3 (D)	01/08/1998	48,000	8,100	750	2,000	4,100	5,800	NA	174.61	13.80	NA	160.81	NA	NA	NA
MW-3	04/13/1998	32,000	6,800	540	1,400	3,400	4,000	NA	174.61	12.97	NA	161.64	NA	NA	NA
MW-3 (D)	04/13/1998	36,000	7,300	660	1,600	3,700	4,000	NA	174.61	12.97	NA	161.64	NA	NA	NA
MW-3	07/17/1998	71,000	11,000	590	2,200	6,900	3,900	NA	174.61	11.51	NA	163.10	NA	NA	NA
MW-3 (D)	07/17/1998	76,000	12,000	700	2,600	8,000	3,000	NA	174.61	11.51	NA	163.10	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-3	10/02/1998	66,000	8,900	510	2,000	4,900	4,600	NA	174.61	16.50	NA	158.11	NA	NA	NA
MW-3 (D)	10/02/1998	59,000	9,400	460	2,000	4,900	4,700	NA	174.61	16.50	NA	158.11	NA	NA	NA
MW-3	02/03/1999	36,000	6,800	300	1,600	2,900	18,000	NA	174.61	15.21	NA	159.40	NA	1.3	NA
MW-3	04/29/1999	45,000	8,100	580	2,200	5,800	4,700	5,150	174.61	15.43	NA	159.18	NA	1.5	-68
MW-3	07/23/1999	29,400	3,540	215	810	3,800	4,720	6,950*	174.61	14.95	NA	159.66	NA	1.3	NA
MW-3	11/01/1999	20,000	4,190	294	1,060	1,740	5,540	8,590	174.61	14.66	NA	159.95	NA	0.6	-110
MW-3	01/17/2000	17,000	3,900	89	1,100	1,200	7,900	NA	174.61	13.94	NA	160.67	NA	1.3	-40
MW-3	04/17/2000	28,100	5,240	247	1,540	2,750	16,600	NA	174.61	14.00	NA	160.61	NA	1.1	-86
MW-3	07/26/2000	24,300	6,680	159	1,610	1,640	17,100	NA	174.61	13.72	NA	160.89	NA	0.9	-70
MW-3	10/12/2000	14,300	2,630	86.7	241	1,360	16,300	NA	174.61	14.15	NA	160.46	NA	0.9	50
MW-3	01/15/2001	22,100	4,400	266	977	2,990	13,200	NA	174.61	13.05	NA	161.56	NA	1.3	-40
MW-3	**04/09/2001**	**33,800**	**7,100**	**147**	**1,700**	**2,660**	**13,000**	**NA**	**174.61**	**13.59**	**NA**	**161.02**	**NA**	**0.6**	**-56**
MW-4	11/17/1994	NA	NA	NA	NA	NA	NA	NA	164.06	6.62	NA	157.44	NA	NA	NA
MW-4	11/28/1994	2,900	200	17	76	260	NA	NA	164.06	6.11	NA	157.95	NA	NA	NA
MW-4	01/13/1995	1,900	130	5.6	13	40	NA	NA	164.06	6.05	NA	158.01	NA	NA	NA
MW-4	04/12/1995	680	150	<2.0	10	13	NA	NA	164.06	6.31	NA	157.75	NA	NA	NA
MW-4	07/25/1995	340	100	0.8	8.8	3	NA	NA	164.06	7.36	NA	156.70	NA	NA	NA
MW-4	10/18/1995	150	31	<0.5	3.5	0.8	NA	NA	164.06	8.54	NA	155.52	NA	NA	NA
MW-4	01/17/1996	290	14	<0.5	1.8	0.8	NA	NA	164.06	8.48	NA	155.58	NA	NA	NA
MW-4	04/25/1996	<500	65	<5	<5	<5	1,700	NA	164.06	7.40	NA	156.66	NA	NA	NA
MW-4 (D)	04/25/1996	<500	66	<5	8.7	<5	1,500	NA	164.06	7.40	NA	156.66	NA	NA	NA
MW-4	07/17/1996	<500	84	<5.0	6.5	<5.0	1,500	NA	164.06	7.75	NA	156.31	NA	NA	NA
MW-4 (D)	07/17/1996	<500	54	<5.0	<5.0	<5.0	1,700	2,100	164.06	7.75	NA	156.31	NA	NA	NA
MW-4	10/01/1996	<500	1.9	<5.0	<5.0	<5.0	3,000	NA	164.06	8.82	NA	155.24	NA	NA	NA
MW-4	01/22/1997	580	130	<2.5	18	5.2	1,200	NA	164.06	7.51	NA	156.55	NA	NA	NA

WELL CONCENTRATIONS
Shell-branded Service Station
4255 MacArthur Boulevard
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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
MW-4	04/08/1997	770	200	7	26	55	1,500	8	164.06	7.18	NA	156.88	NA	NA	NA
MW-4	07/08/1997	570	78	<5.0	14	11	1,200	NA	164.06	9.00	NA	155.06	NA	NA	NA
MW-4 (D)	07/08/1997	640	81	<5.0	16	19	1,600	NA	164.06	9.00	NA	155.06	NA	NA	NA
MW-4	10/08/1997	<500	40	<5.0	7.4	5.4	1,400	NA	164.06	8.97	NA	155.09	NA	NA	NA
MW-4 (D)	10/08/1997	<500	36	<5.0	5.9	<5.0	1,400	NA	164.06	8.97	NA	155.09	NA	NA	NA
MW-4	01/08/1998	<1,000	55	<10	13	<10	2,000	NA	164.06	7.90	NA	156.16	NA	NA	NA
MW-4	04/13/1998	350	110	2.4	20	26	<2.5	NA	164.06	7.35	NA	156.71	NA	NA	NA
MW-4	07/17/1998	210	66	0.78	5.4	9.8	1,700	NA	164.06	6.95	NA	157.11	NA	NA	NA
MW-4	10/02/1998	<50	0.69	<0.50	<0.50	<0.50	2,900	NA	164.06	7.35	NA	156.71	NA	NA	NA
MW-4	02/03/1999	560	120	2.5	29	34	6,800	NA	164.06	7.71	NA	156.35	NA	0.9	NA
MW-4	04/29/1999	390	80	1.9	13	19	7,000	8,360	164.06	7.83	NA	156.23	NA	1.1	-125
MW-4	07/23/1999	460	93.6	8.40	25.2	28.8	3,760	6,000*	164.06	11.33	NA	152.73	NA	0.9	NA
MW-4	11/01/1999	77.3	0.520	<0.500	<0.500	<0.500	539	NA	164.06	10.66	NA	153.40	NA	2.8	3
MW-4	01/17/2000	160	27	<0.50	12	6.3	12,000	NA	164.06	10.15	NA	153.91	NA	3.9	-17
MW-4	04/17/2000	<500	26	6.38	9.35	10.4	9,070	NA	164.06	10.10	NA	153.96	NA	1.7	-129
MW-4	07/26/2000	<500	22.7	<5.00	7.59	6.96	7,660	NA	164.06	10.09	NA	153.97	NA	1.4	-137
MW-4	10/12/2000	172	19.8	<0.500	7.47	4.50	8,290	NA	164.06	9.35	NA	154.71	NA	3.5	529
MW-4	01/15/2001	53.6	1.50	<0.500	2.45	1.80	9,260	NA	164.06	8.77	NA	155.29	NA	2.3	53
MW-4	**04/09/2001**	**<500**	**<5.00**	**<5.00**	**<5.00**	**5.52**	**10,300**	**NA**	**164.06**	**7.75**	**NA**	**156.31**	**NA**	**1.0**	**-133**
TB-1	04/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	6.00	NA	NA	NA	3.8	-132
TB-1	11/01/1999	NA	NA	NA	NA	NA	NA	NA	NA	12.65	NA	NA	NA	0.2	-165
TB-1	01/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	7.72	NA	NA	NA	0.8	-178
TB-1	04/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	7.65	NA	NA	NA	0.5	-152
TB-1	07/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	5.13	NA	NA	NA	1.0	-124
TB-1	10/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	5.20	NA	NA	NA	0.7	-73

WELL CONCENTRATIONS
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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)
TB-1	01/15/2001	NA	NA	NA	NA	NA	NA	NA	NA	5.09	NA	NA	NA	1.2	-118
TB-1	**04/09/2001**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**4.96**	**NA**	**NA**	**NA**	**1.0**	**-72**
TB-2	04/29/1999	NA	NA	NA	NA	NA	NA	NA	NA	4.76	NA	NA	NA	4.2	-108
TB-2	11/01/1999	NA	NA	NA	NA	NA	NA	NA	NA	11.33	NA	NA	NA	0.5	-148
TB-2	01/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	9.79	NA	NA	NA	0.7	-162
TB-2	04/17/2000	NA	NA	NA	NA	NA	NA	NA	NA	9.75	NA	NA	NA	0.9	-121
TB-2	07/26/2000	NA	NA	NA	NA	NA	NA	NA	NA	4.73	NA	NA	NA	0.9	-85
TB-2	10/12/2000	NA	NA	NA	NA	NA	NA	NA	NA	4.05	NA	NA	NA	0.6	-47
TB-2	01/15/2001	NA	NA	NA	NA	NA	NA	NA	NA	3.87	NA	NA	NA	0.7	-91
TB-2	**04/09/2001**	**46,600**	**1,240**	**1,310**	**1,110**	**12,100**	**31,300**	**NA**	**NA**	**3.76**	**NA**	**NA**	**NA**	**0.8**	**-24**

WELL CONCENTRATIONS
Shell-branded Service Station
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Oakland, CA
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Well ID	Date	TPPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	Depth to SPH (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)	DO Reading (ppm)	ORP Reading (mV)

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8020
MTBE = methyl-tertiary-butyl ether
TOC = Top of Casing Elevation
SPH = Separate-Phase Hydrocarbons
GW = Groundwater
ug/L = parts per billion
msl = Mean sea level
ft = Feet
<n = Below detection limit
D = Duplicate sample
NA = Not applicable
DO = Dissolved Oxygens
ppm = parts per million
ORP = Oxidation Reduction Potential
mV = millivolts

Notes:
* = Sample analyzed outside the EPA recommended holding time.
a = Ground water surface had a sheen when sampled
b = MTBE value is estimated by Sequoia Analytical of Redwood City, California

When separate-phase hydrocarbons are present, ground water elevation is adjusted using the relation:
Corrected ground water elevation = Top-of-casing elevation - depth to water + (0.8 x hydrocarbon thickness).

Sequoia Analytical

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Morgan Hill, CA 95037
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FAX (408) 782-6308
www.sequoialabs.com

24 April, 2001

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

RE: 4255 McArthur Blvd.
Sequoia Report: MKD0310

Enclosed are the results of analyses for samples received by the laboratory on 04/10/01 12:04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeff Smyly
Project Manager

CA ELAP Certificate #1210

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Blaine Tech Services (Shell)	Project: 4255 McArthur Blvd.	
1680 Rogers Avenue	Project Number: 4255 McArthur Blvd./ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	04/24/01 19:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW1	MKD0310-01	Water	04/09/01 17:27	04/10/01 12:04
MW2	MKD0310-02	Water	04/09/01 19:04	04/10/01 12:04
MW3	MKD0310-03	Water	04/09/01 18:34	04/10/01 12:04
MW4	MKD0310-04	Water	04/09/01 18:01	04/10/01 12:04
TB2	MKD0310-05	Water	04/09/01 16:54	04/10/01 12:04

Sequoia Analytical - Morgan Hill

Jeff Smyly, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Sequoia Analytical

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Blaine Tech Services (Shell)	Project: 4255 McArthur Blvd.	
1680 Rogers Avenue	Project Number: 4255 McArthur Blvd./ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	04/24/01 19:40

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1 (MKD0310-01) Water Sampled: 04/09/01 17:27 Received: 04/10/01 12:04									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1D16008	04/16/01	04/16/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	**0.927**	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*70-130*		"	"	"	"	
MW2 (MKD0310-02) Water Sampled: 04/09/01 19:04 Received: 04/10/01 12:04									
Purgeable Hydrocarbons	**56900**	50000	ug/l	1000	1D16008	04/16/01	04/16/01	DHS LUFT	P-01
Benzene	**1860**	500	"	"	"	"	"	"	
Toluene	**2550**	500	"	"	"	"	"	"	
Ethylbenzene	**1810**	500	"	"	"	"	"	"	
Xylenes (total)	**9720**	500	"	"	"	"	"	"	
Methyl tert-butyl ether	**40000**	2500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*70-130*		"	"	"	"	
MW3 (MKD0310-03) Water Sampled: 04/09/01 18:34 Received: 04/10/01 12:04									
Purgeable Hydrocarbons	**33800**	5000	ug/l	100	1D16008	04/16/01	04/16/01	DHS LUFT	P-01
Benzene	**7100**	50.0	"	"	"	"	"	"	
Toluene	**147**	50.0	"	"	"	"	"	"	
Ethylbenzene	**1700**	50.0	"	"	"	"	"	"	
Xylenes (total)	**2660**	50.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**13000**	250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*70-130*		"	"	"	"	

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Blaine Tech Services (Shell)	Project: 4255 McArthur Blvd.	
1680 Rogers Avenue	Project Number: 4255 McArthur Blvd./ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	04/24/01 19:40

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW4 (MKD0310-04) Water Sampled: 04/09/01 18:01 Received: 04/10/01 12:04									
Purgeable Hydrocarbons	ND	500	ug/l	10	1D17007	04/17/01	04/17/01	DHS LUFT	R-05
Benzene	ND	5.00	"	"	"	"	"	"	R-05
Toluene	ND	5.00	"	"	"	"	"	"	R-05
Ethylbenzene	ND	5.00	"	"	"	"	"	"	R-05
Xylenes (total)	**5.52**	5.00	"	"	"	"	"	"	R-05
Methyl tert-butyl ether	**10300**	125	"	50	"	"	04/16/01	"	A-01,M-03
Surrogate: a,a,a-Trifluorotoluene		*82.7 %*	*70-130*		"	"	*04/17/01*	"	
TB2 (MKD0310-05) Water Sampled: 04/09/01 16:54 Received: 04/10/01 12:04									
Purgeable Hydrocarbons	**46600**	10000	ug/l	200	1D17007	04/17/01	04/17/01	DHS LUFT	P-01
Benzene	**1240**	100	"	"	"	"	"	"	
Toluene	**1310**	100	"	"	"	"	"	"	
Ethylbenzene	**1110**	100	"	"	"	"	"	"	
Xylenes (total)	**12100**	100	"	"	"	"	"	"	
Methyl tert-butyl ether	**31300**	500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*102 %*	*70-130*		"	"	"	"	

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Blaine Tech Services (Shell)	Project: 4255 McArthur Blvd.	
1680 Rogers Avenue	Project Number: 4255 McArthur Blvd./ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	04/24/01 19:40

MTBE Confirmation by EPA Method 8260A

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW2 (MKD0310-02) Water Sampled: 04/09/01 19:04 Received: 04/10/01 12:04									
Methyl tert-butyl ether	**46600**	2000	ug/l	2000	1D24005	04/23/01	04/23/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		*96.2 %*		*70-130*	"	"	"	"	

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Blaine Tech Services (Shell)	Project: 4255 McArthur Blvd.	
1680 Rogers Avenue	Project Number: 4255 McArthur Blvd./ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	04/24/01 19:40

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1D16008 - EPA 5030B [P/T]										
Blank (1D16008-BLK1)				Prepared & Analyzed: 04/16/01						
Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
Surrogate: a,a,a-Trifluorotoluene	*10.4*		"	*10.0*		*104*	*70-130*			
LCS (1D16008-BS1)				Prepared & Analyzed: 04/16/01						
Purgeable Hydrocarbons	247	50.0	ug/l	250		98.8	70-130			
Surrogate: a,a,a-Trifluorotoluene	*9.23*		"	*10.0*		*92.3*	*70-130*			
Matrix Spike (1D16008-MS1)		**Source: MKD0310-01**		Prepared & Analyzed: 04/16/01						
Purgeable Hydrocarbons	234	50.0	ug/l	250	ND	93.6	60-140			
Surrogate: a,a,a-Trifluorotoluene	*9.66*		"	*10.0*		*96.6*	*70-130*			
Matrix Spike Dup (1D16008-MSD1)		**Source: MKD0310-01**		Prepared & Analyzed: 04/16/01						
Purgeable Hydrocarbons	248	50.0	ug/l	250	ND	99.2	60-140	5.81	25	
Surrogate: a,a,a-Trifluorotoluene	*9.42*		"	*10.0*		*94.2*	*70-130*			
Batch 1D17007 - EPA 5030B [P/T]										
Blank (1D17007-BLK1)				Prepared & Analyzed: 04/17/01						
Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Methyl tert-butyl ether	ND	2.50	"							
Surrogate: a,a,a-Trifluorotoluene	*9.26*		"	*10.0*		*92.6*	*70-130*			

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1680 Rogers Avenue	Project Number: 4255 McArthur Blvd./ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	04/24/01 19:40

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1D17007 - EPA 5030B [P/T]										
LCS (1D17007-BS1)				Prepared & Analyzed: 04/17/01						
Purgeable Hydrocarbons	238	50.0	ug/l	250		95.2	70-130			
Surrogate: a,a,a-Trifluorotoluene	*14.5*		"	*10.0*		*145*	*70-130*			*S-02*
Matrix Spike (1D17007-MS1)		**Source: MKD0370-06**		Prepared & Analyzed: 04/17/01						
Purgeable Hydrocarbons	230	50.0	ug/l	250	ND	92.0	60-140			
Surrogate: a,a,a-Trifluorotoluene	*14.5*		"	*10.0*		*145*	*70-130*			*S-02*
Matrix Spike Dup (1D17007-MSD1)		**Source: MKD0370-06**		Prepared & Analyzed: 04/17/01						
Purgeable Hydrocarbons	231	50.0	ug/l	250	ND	92.4	60-140	0.434	25	
Surrogate: a,a,a-Trifluorotoluene	*14.4*		"	*10.0*		*144*	*70-130*			*S-02*

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Blaine Tech Services (Shell)	Project: 4255 McArthur Blvd.	
1680 Rogers Avenue	Project Number: 4255 McArthur Blvd./ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	04/24/01 19:40

MTBE Confirmation by EPA Method 8260A - Quality Control

Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1D24005 - EPA 5030B P/T										
Blank (1D24005-BLK1)				Prepared & Analyzed: 04/23/01						
Methyl tert-butyl ether	ND	1.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	*9.85*		"	*10.0*		*98.5*	*70-130*			
LCS (1D24005-BS1)				Prepared & Analyzed: 04/23/01						
Methyl tert-butyl ether	8.86	1.00	ug/l	10.0		88.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	*9.66*		"	*10.0*		*96.6*	*70-130*			
Matrix Spike (1D24005-MS1)		**Source: MKD0310-02**		Prepared & Analyzed: 04/23/01						
Methyl tert-butyl ether	65800	2000	ug/l	20000	46600	96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	*9.68*		"	*10.0*		*96.8*	*70-130*			
Matrix Spike Dup (1D24005-MSD1)		**Source: MKD0310-02**		Prepared & Analyzed: 04/23/01						
Methyl tert-butyl ether	67100	2000	ug/l	20000	46600	103	70-130	1.96	25	
Surrogate: 1,2-Dichloroethane-d4	*10.2*		"	*10.0*		*102*	*70-130*			

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Blaine Tech Services (Shell)	Project: 4255 McArthur Blvd.	
1680 Rogers Avenue	Project Number: 4255 McArthur Blvd./ Oakland	**Reported:**
San Jose CA, 95112	Project Manager: Nick Sudano	04/24/01 19:40

Notes and Definitions

A-01	MTBE was prepared on 4/16/01.
M-03	Sample was analyzed at a second dilution.
P-01	Chromatogram Pattern: Gasoline C6-C12
R-05	The reporting limit(s) for this sample have been raised due to high levels of non-target interferents.
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

EQUIVA Services LLC Chain Of Custody Record

LAB: Sequoia

Lab Identification (if necessary):

Address:

City, State, Zip:

Equiva Project Manager to be invoiced: Karen Petryna

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

INCIDENT NUMBER (S&E ONLY): 98995758

SAP or CRMT NUMBER (TS/CRMT):

PAGE: 1 of 1

CONSULTANT COMPANY: Blaine Tech Services

ADDRESS: 630 Rogers Avenue

CITY: San Jose, CA 95112

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

SITE ADDRESS (Street and City): 4255 MacArthur Blvd., Oakland

PROJECT CONTACT (Report to): Nick Sudano

CONSULTANT PROJECT NO.: BTS # 010409-M2

SAMPLER NAME(S) (Print): Matthew Miller

LAB USE ONLY: MK00310

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 X HIGHEST per BORING ____ ALL ____

SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT C°

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable (8015m)	BTEX (8021B)	MTBE (8021B)	MTBE (8260B)	TPH - Diesel, Extractable (8015m)	Oxygenates (5) by 8260	Ethanol, Methanol (8015B)	1,2-DCA & EDB by 8010	MTBE (8260B) Confirmation, See Note
01	MW1	04/09	1777	W	3	X	X	X						X
02	MW2	04/09	1904	W	3	X	X	X						X
03	MW3	04/09	1834	W	3	X	X	X						X
04	MW4	04/09	1801	W	3	X	X	X						X
05	TB2	04/09	1654	W	3	X	X	X						X

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

Relinquished by: (Signature)	Received by: (Signature)	Date: 4/10/01	Time: 1110
Relinquished by: (Signature)	Received by: (Signature)	Date: 4/10/01	Time:
ed by: (Signature)	Received by: (Signature)	Date:	Time:

h final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

Q&Q Graphic (714) 898-9702

WELL GAUGING DATA

Project # 010402-M2 Date 4-9-01 Client Equiva

Site 4255 macArthur Blvd - 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	D.O. mg/L / ORP mV
MW-1	4	orc's				7.68	23.82	TOC	1.28 / -117
** MW-2	4				10ml removed from skimmer	11.15	19.71		1.0 / -55
MW-3	4	orc's				13.59	21.94		0.6 / -56
MW-4	2	orc's				7.75	30.50		1.0 / -133
TB-1	4	orc's				4.96	13.43		1.0 / -72
* TB-2	4	orc's				3.76	12.96		0.8 / -24
* Stinger in well									
** Skimmer in well									

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010409-MW2	Site: 4255 ~~Oakland~~ MacArthur Blvd Oakland
Sampler: MJM	Date: 04/09/01
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 23.32	Depth to Water: 7.68
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

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

10.2 (Gals.) X 3 = 30.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1717	67.4	9.7	1103	19	11	
1719	67.6	8.9	1058	39	22	
1722	69.7	9.2	1081	30	33	

Did well dewater? Yes (No) Gallons actually evacuated: 33

Sampling Time: 1727 Sampling Date: 04/09/01

Sample I.D.: MW-1 Laboratory: (Sequoia) Columbia Other_____

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	12.8 mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	-117 mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

MacArthur Blvd

BTS #: 010409-MW2	Site: 4255 ~~Oakland~~ Oakland
Sampler: MJM	Date: 04/09/01
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 30.50	Depth to Water: 7.75
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: ~~PVC~~ Grade	D.O. Meter (if req'd): (YSI) HACH

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

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

148 (Gals.) X 3 = 44.4 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	radius² * 0.163

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1853	~~69.9~~ MJM	6.7		>200	15	
1856	69.2	6.7	917	38	30	odor
1859	71.2	6.7	904	22	45	

Did well dewater? Yes (No)
Gallons actually evacuated: 45

Sampling Time: 1904
Sampling Date: 04/09/01

Sample I.D.: MW-2
Laboratory: (Sequoia) Columbia Other_____

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

EB I.D. (if applicable): @ Time
Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	1.01 ~~mg/L~~	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	-55 mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010409-MW2	Site: 4255 ~~Oakland~~ MacArthur Blvd Oakland
Sampler: MJM	Date: 04/09/01
Well I.D.: MW-3	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 21.94	Depth to Water: 13.59
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

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

5.4 (Gals.) X 3 = 16.2 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
~~1746~~	~~65.1~~	~~7.2~~	~~1186~~ MJM	~~>200~~		
1826	67.8	6.8	1468	69	5.5	
1827	69.9	6.7	1467	70	11	
1829	67.8	6.8	1533	55	17	

Did well dewater? Yes (No)
Gallons actually evacuated: 17

Sampling Time: 1834
Sampling Date: 04/09/01

Sample I.D.: MW-3
Laboratory: (Sequoia) Columbia Other_____

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

EB I.D. (if applicable): @ Time
Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	0.6 mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	-56 mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010409-m2	Site: 4255 ~~Oakland~~ MacArthur Blvd Oakland
Sampler: MJM	Date: 04/09/01
Well I.D.: MW-4	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 30.50	Depth to Water: 7.75
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

Purge Method:
- Bailer
- ~~Disposable~~ Bailer
- (Middleburg)
- ~~(Electric Submersible)~~ MJM
- Waterra
- Peristaltic
- Extraction Pump
- Other ________

Sampling Method: (Bailer)
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: ________

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

3.6 (Gals.) X 3 = 10.8 Gals.
1 Case Volume / Specified Volumes / Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1748	65.1	7.2	1186	>200	3.6	
1752	64.2	7.0	1152	150	7.2	
1756	63.9	6.9	1126	70	11	

Did well dewater? Yes (No)	Gallons actually evacuated: 11
Sampling Time: 1801	Sampling Date: 04/09/01
Sample I.D.: MW4	Laboratory: (Sequoia) Columbia Other ________
Analyzed for: (TPH-G) (BTEX) (MTBE) TPH-D	Other:
EB I.D. (if applicable): @ Time	Duplicate I.D. (if applicable):
Analyzed for: TPH-G BTEX MTBE TPH-D	Other:
D.O. (if req'd): Pre-purge: 1.0 mg/L	Post-purge: mg/L
O.R.P. (if req'd): Pre-purge: -133 mV	Post-purge: mV

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010409-M2	Site: 4255 ~~Oakland~~ MacArthur Blvd Oakland
Sampler: MJM	Date: 04/09/01
Well I.D.: ~~TB~~-2	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 12.96	Depth to Water: 3.76
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH

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

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

6.0 (Gals.) X 3 = 18.0 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

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
1630	67.4	7.0	887	18	6	odor
1639	67.4	6.7	877	12	12	odor
1648	66.3	6.7	873	10	18	

Did well dewater? Yes (No) Gallons actually evacuated: 18

Sampling Time: 1654 Sampling Date: 04/09/01

Sample I.D.: TB-2 Laboratory: (Sequoia) Columbia Other_____

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

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

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

D.O. (if req'd):	Pre-purge:	0.8 mg/L	Post-purge:	0.4 mg/L
O.R.P. (if req'd):	Pre-purge:	-74 mV	Post-purge:	mV

ATTACHMENT B

Analytical Results for Dual Phase Vacuum Extraction Events

KIFF ANALYTICAL LLC

Report Number : 20019
Date : 4/23/2001

Dan Lescure
Cambria Environmental Technology, Inc.
1144 65th Street, Suite C
Oakland, CA 94608

Subject : 1 Air Sample
Project Name : 4255 MacArther Blvd Oakland, Ca
Project Number : 243-0524-006

Dear Mr. Lescure,

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 : 20019

Date : 4/23/2001

Project Name : **4255 MacArther Blvd Oakland, Ca**

Project Number : **243-0524-006**

Sample : **MW-2** Matrix : Lab Number : 20019-01

Sample Date :4/20/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**4.4**	0.10	ppmv	EPA 8260B	4/22/2001
Toluene	**2.5**	0.10	ppmv	EPA 8260B	4/22/2001
Ethylbenzene	**1.6**	0.10	ppmv	EPA 8260B	4/22/2001
Total Xylenes	**5.7**	0.10	ppmv	EPA 8260B	4/22/2001
Methyl-t-butyl ether	**49**	0.20	ppmv	EPA 8260B	4/22/2001
TPH as Gasoline	**310**	10	ppmv	EPA 8260B	4/22/2001
Toluene - d8 (Surr)	97.3		% Recovery	EPA 8260B	4/22/2001
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	4/22/2001

Approved By: Joel Kiff

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

KIFF ANALYTICAL

720 Olive Drive, Suite D

Davis, CA 95616

(530) 297-4800 (530) 297-4803 fax

EQUIVA Services LLC Chain Of Custody Record 20019

Equiva Project Manager to be invoiced: Karen Petryna

☑ SCIENCE & ENGINEERING ☐ TECHNICAL SERVICES ☐ CRMT HOUSTON

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 5 7 5 8

SAP or CRMT NUMBER (TS/CRMT): 1 3 5 7 0 1

DATE: 4-20-01

PAGE: 1 of 1

CONSULTANT COMPANY: Cambria Env. Tech

ADDRESS: 6262 Hollis St.

CITY: Emeryville, Ca

TELEPHONE: 510-450-1988 FAX: 510-450-8295 E-MAIL:

SITE ADDRESS (Street and City): 4255 MacArthur Blvd Oakland, Ca

PROJECT CONTACT (Report to): Dan Lescure

CONSULTANT PROJECT NO.: 243-0524-007

SAMPLER NAME(S) (Print): Sanjiv Gill

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: Report all results in PPMV

TEMPERATURE ON RECEIPT C°

REQUESTED ANALYSIS

Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Purgeable (8015m)	TPH - Extractable (8015m)	BTEX / MTBE (8021B)	BTEX / MTBE + Oxygenates (8260B)	VOCs Full List + Oxygenates (8260B)	MTBE (8260B) Confirmation, See Note	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	Ethanol, Methanol (8015B)	Metals (Specify)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4B-)	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
MW-2	4-20-01	9:35			X		X														-01

Relinquished by: (Signature) L. Gill	Received by: (Signature)	Date: 4-20-01	Time: 1130
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) John Cuttle / Kiff Analytical	Date: 04-20-01	Time: 1130

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10/23/00 Revision

KIFF ANALYTICAL LLC

Report Number : 20488
Date : 6/14/2001

Melody Munz
Cambria
6262 Hollis St.
Emeryville, CA 94608

Subject : 2 Air Samples
Project Name : 4255 MacAurther Blvd Oakland, Ca
Project Number : 243-0524-006
P.O. Number : 98995758

Dear Ms. Munz,

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 : 20488
Date : 6/14/2001

Project Name : **4255 MacAurther Blvd Oakland, Ca**
Project Number : **243-0524-006**

Sample : **MW-2** Matrix : Air Lab Number : 20488-01
Sample Date :5/30/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**4.4**	0.10	ppmv	EPA 8260B	6/1/2001
Toluene	**2.1**	0.10	ppmv	EPA 8260B	6/1/2001
Ethylbenzene	**1.4**	0.10	ppmv	EPA 8260B	6/1/2001
Total Xylenes	**4.9**	0.10	ppmv	EPA 8260B	6/1/2001
Methyl-t-butyl ether	**50**	0.20	ppmv	EPA 8260B	6/1/2001
TPH as Gasoline	**360**	10	ppmv	EPA 8260B	6/1/2001
Toluene - d8 (Surr)	96.4		% Recovery	EPA 8260B	6/1/2001
4-Bromofluorobenzene (Surr)	110		% Recovery	EPA 8260B	6/1/2001

Sample : **MW-3** Matrix : Air Lab Number : 20488-02
Sample Date :5/30/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**7.1**	1.0	ppmv	EPA 8260B	6/2/2001
Toluene	**< 1.0**	1.0	ppmv	EPA 8260B	6/2/2001
Ethylbenzene	**3.0**	1.0	ppmv	EPA 8260B	6/2/2001
Total Xylenes	**8.9**	1.0	ppmv	EPA 8260B	6/2/2001
Methyl-t-butyl ether	**14**	2.0	ppmv	EPA 8260B	6/2/2001
TPH as Gasoline	**4200**	100	ppmv	EPA 8260B	6/2/2001
Toluene - d8 (Surr)	95.1		% Recovery	EPA 8260B	6/2/2001
4-Bromofluorobenzene (Surr)	112		% Recovery	EPA 8260B	6/2/2001

Approved By: Joel Kiff

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

KIFF ANALYTICAL

720 Olive Drive, Suite D
Davis, CA 95616
(530) 297-4800 (530) 297-4803 fax

EQUIVA Services LLC Chain Of Custody Record

20488

Equiva Project Manager to be Invoiced: Karen Petryna

- [x] SCIENCE & ENGINEERING
- [ ] TECHNICAL SERVICES
- [ ] CRMT HOUSTON

INCIDENT NUMBER (S&E ONLY): 9 8 9 9 5 7 5 8

SAP or CRMT NUMBER (TS/CRMT): 1 3 5 7 0 1

DATE: 5-30-01

PAGE: 1 of 1

CONSULTANT COMPANY: Cambria Env. Tech

ADDRESS: 6262 Hollis St.

CITY: Emeryville, Ca

TELEPHONE: 510-420-3324 FAX: 510-420-9170 E-MAIL:

SITE ADDRESS (Street and City): 4255 MacArthur Blvd Oakland Ca

PROJECT CONTACT (Report to): Melody Munz

CONSULTANT PROJECT NO.: 243-0524-006

SAMPLER NAME(S) (Print): Sanjiv Gill

LAB USE ONLY:

TURNAROUND TIME (BUSINESS DAYS):
- [x] 10 DAYS
- [ ] 5 DAYS
- [ ] 72 HOURS
- [x] ~~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: Report all results in PPMV

TEMPERATURE ON RECEIPT C°:

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Purgeable (8015m)	TPH - Extractable (8015m)	BTEX / MTBE (8021B)	BTEX / MTBE + Oxygenates (8260B)	VOCs Full List + Oxygenates (8260B)	MTBE (8260B) Confirmation, See Note	EPA 5035 Extraction for Volatiles	VOCs Halogenated/Aromatic (8021B)	Ethanol, Methanol (8015B)	Metals (Specify)	TRPH (418.1)	Vapor VOCs BTEX / MTBE (TO-15)	Vapor VOCs Full List (TO-15)	Vapor TPH (ASTM 3416m)	Vapor Fixed Gases (ASTM D1946)	Test for Disposal (4S-___)	Samples to be tested within 48hrs				FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MW-2	5-30-01	6:35	air	2	X		X														X				-01
	MW-3	5-30-01	8:50	air	2	X		X														X				-02

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
S. Gill	secure location	5-30-01	9:15
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) John Cuttle / Kiff Analytical	Date: 053001	Time: 1130

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10/23/00 Revision

JUN 2 9 2001

53-402

Vacuum Truck Purging (TFE)

Site: 4255 MacArthur Blvd Oakland, CA

Date: 5-30-01

Operator: Al Berghammer

Consultant: CAMBRIA

Consultant Contact: MELODY MUNZ

Fax #: (510) 420-9170

Well I.D.	Diameter (Inches)	Time Start	Time Stop	Volume (gallons)	Notes:
MW2		0380	0830	200 GAL	LARGE AMONT of GAS ORDER
MW3		0645	0945	50 GAL	HARDly Any WATER
TB1					
TB2		1000	1045	2100 GAL	Filled Truck in 45 min

Additional Information

Time Onsite: 0380

Time Offsite: 1100

Refinery Weight In: 49300

Refinery Weight Out: 28900