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May 23, 2006

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

Subject: Texaco Gasoline Service Station (Formerly Freedom ARCO Station) Site Address: 15101 Freedom Avenue, San Leandro, California STID 4473/RO0000473

Dear Mr. Hwang:

SOMA's "Second Quarter 2006 Groundwater Monitoring Report" for the subject property has been uploaded to the State's GeoTracker database and Alameda County's FTP site for your review.

Thank you for your time in reviewing our report. Please do not hesitate to call me at (925) 734-6400, if you have questions or comments.

Sincerely,

Mansour Sepehr, Ph.D., PE Principal Hydrogeologist



cc: Mr. Mohammad Pazdel w/report enclosure



ENVIRONMENTAL ENGINEERING, INC 6620 Owens Drive, Suite A • Pleasanton, CA 94588-3334 TEL (925)734-6400 • FAX(925)734-6401

SECOND QUARTER 2006 GROUNDWATER MONITORING REPORT TEXACO GASOLINE SERVICE STATION 15101 FREEDOM AVENUE SAN LEANDRO, CALIFORNIA

May 23, 2006

Project 2551

Prepared for

Mr. Mohammad Pazdel 1770 Pistacia Court Fairfield, California

Prepared by

SOMA Environmental Engineering, Inc. 6620 Owens Drive, Suite A Pleasanton, California

SOMA Environmental Engineering, Inc.

Certification

This report has been prepared by SOMA Environmental Engineering, Inc. on behalf of Mr. Mohammad Pazdel, the property owner of 15101 Freedom Avenue, San Leandro, California, to comply with the Alameda County Health Care Services' requirements for the Second Quarter 2006 groundwater monitoring event.

Mansour Sepehr, Ph.D., P.E. Principal Hydrogeologist



SOMA Environmental Engineering, Inc.

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1.0 INTRODUCTION

This report has been prepared by SOMA Environmental Engineering, Inc. (SOMA) on behalf of Mr. Mohammad Pazdel, the property owner of 15101 Freedom Avenue, San Leandro, California ("the Site"), as shown in Figure 1. The Site is located in an area consisting primarily of residential properties and adjacent commercial areas.

This report summarizes the results of the Second Quarter 2006 groundwater monitoring event conducted at the Site on May 9, 2006. Included in this report are the physical and chemical properties measured in the field for each groundwater sample. The physical and chemical properties consisted of measurements of pH, temperature, and electrical conductivity (EC). This report also includes the laboratory analytical results on the groundwater samples.

These activities were performed in accordance with the general guidelines of the California Regional Water Quality Control Board (CRWQCB) and the Alameda County Health Care Services (ACHCS). Appendix A details the procedures used by SOMA during this monitoring event.

1.1 **Previous Activities**

On May 20, 1999, three 10,000-gallon single-walled USTs were removed and replaced with new double-walled fuel tanks. On July 7, 1999, a 20,000-gallon gasoline UST, an 8,000-gallon gasoline UST, and a 6,000-gallon diesel UST were installed in the tank cavity.

In July 2001, additional soil and groundwater investigations were conducted to further examine potential petroleum hydrocarbon contamination discovered during the removal and upgrade of the USTs. During this investigation five soil borings (SB-1 through SB-5) were drilled. The maximum concentrations of total petroleum hydrocarbons as gasoline (TPH-g) and benzene, toluene, ethylbenzene, and total xylenes (BTEX) in the soil samples collected between 19 and 25.5 feet below ground surface (bgs) were 470, 2.6, 16, 12, and 73 mg/Kg, respectively. Methyl tertiary Butyl Ether (MtBE) was below the laboratory reporting limit of 0.005 mg/Kg in all the soil samples collected. The maximum concentrations of TPH-g and BTEX in the groundwater samples collected from the soil borings were 83, 19, 1.8, 1.5, and 73 mg/L, respectively. The maximum reported MtBE concentration was 87 mg/L in soil boring SB-2. The soil boring locations are shown in Figure 2.

On April 22 and 23, 2002, SOMA installed 5 (4-inch diameter) on-site groundwater monitoring wells (MW-1 to MW-5) to evaluate the groundwater flow gradient and the extent of petroleum hydrocarbons and MtBE contamination beneath the Site. Figure 2 displays the locations of the monitoring wells.

On July 22, 2003, an additional off-site investigation was conducted by SOMA to evaluate the lateral extent of the soil and groundwater contamination. The off-site investigation included a sensitive receptor survey to locate water supply wells and/or water bodies within a 2,000-foot radius of the Site. In September 2003, six temporary well boreholes were advanced to depths of at least 40 feet bgs. Figure 2 shows the locations of the temporary well boreholes.

In September 2004, SOMA installed four off-site wells (MW-6 to MW-9). Figure 2 shows the locations of the off-site monitoring wells.

2.0 RESULTS

The following sections provide the results of the field measurements and laboratory analyses for the May 9, 2006 groundwater monitoring event.

2.1 Field Measurements

Table 1 presents the calculated groundwater elevations, as well as the depths to groundwater for each monitoring well. Depths to groundwater ranged from 9.06 feet in well MW-9 to 21.68 feet in well MW-1. The corresponding groundwater elevations ranged from 31.20 feet in well MW-9 to 33.00 feet in well MW-2.

Figure 3 displays the contour map of groundwater elevations. The groundwater flow direction is south to southwesterly across the Site, at a gradient of 0.0046 feet/feet.

The field measurements taken during this monitoring event are shown in Appendix B.

2.2 Laboratory Analysis

Table 1 also presents the TPH-g, BTEX, and MtBE analytical results, as well as the historical groundwater analytical results.

TPH-g concentrations were below the laboratory reporting limit in both off-site wells MW-8 and MW-9. Detectable TPH-g concentrations ranged from 444 ug/L in well MW-1 to 48,100 ug/L in well MW-3. The TPH-g concentration in well MW-3 was several orders of magnitude higher than the remaining site wells. Figure 4 displays the contour map of TPH-g concentrations in the groundwater. As illustrated in Figure 4, the most impacted TPH-g region was in the vicinity of the dispenser islands and former USTs, around well MW-3.

In wells MW-1, MW-4, MW-5, and MW-6, toluene was below the laboratory reporting limit. In wells MW-2 and MW-7, both benzene and toluene were below the laboratory reporting limit. In wells MW-8 and MW-9, all BTEX analytes were below the laboratory reporting limit. The most impacted BTEX sample was

collected from well MW-3. BTEX concentrations in the groundwater sample collected from well MW-3 were detected at 2,510 ug/L, 1,140 ug/L, 1,950 ug/L, and 5,030 ug/L, respectively.

Figure 5 displays a contour map of benzene concentrations in the groundwater. The most impacted benzene region was in the vicinity of the dispenser islands and former USTs, around well MW-3. The benzene concentration detected in well MW-3 was several orders of magnitude higher than the remaining site wells.

MtBE, when using EPA Method 8260B, was either at low levels or below the laboratory reporting limit in all of the off-site wells and wells MW-1 and MW-2. Detectable MtBE concentrations ranged from 1.75 ug/L in well MW-1 to 2,210 ug/L in well MW-3. Figure 6 displays the contour map of MtBE concentrations in the groundwater. The most impacted MtBE region was in the vicinity of the dispenser islands and former USTs, around well MW-3.

Table 2 shows the analytical results for gasoline oxygenates, as well as the historical groundwater gasoline oxygenate results.

All Isopropyl Ether (DIPE), 1,2-Dibromoethane (EDB), Ethanol, and Ethyl tertiary Butyl Ether (EtBE) constituents, with the exception of EtBE in well MW-4 (at 2.95 ug/L), were below the laboratory reporting limit in all of the groundwater samples collected during this monitoring event. 1,2-Dichloroethane (1,2-DCA) was only detected in the groundwater samples collected from wells MW-1 and MW-9, at 0.51 ug/L and 2.80 ug/L, respectively. The analytical results for 1,2-DCA, ethanol, and EDB constituents are shown in the laboratory report in Appendix C.

Tert-Butyl-Alcohol (TBA) was only detected in the groundwater samples collected from wells MW-3, MW-4, and MW-5 at 367 ug/L, 405 ug/L, and 91.8 ug/L, respectively. Figure 7 displays the contour map of TBA concentrations in the groundwater. TBA appears to have only minimally impacted the Site's groundwater. The most impacted region was in the vicinity of the dispenser islands, around well MW-4. However, TBA has shown a decreasing trend in well MW-4 since August 2005.

Methyl tert-Amyl Ether (TAME) was only detected in wells MW-3 to MW-5 at 594 ug/L 31.3 ug/L, and 163 ug/L, respectively. Figure 8 displays the contour map of TAME concentrations in the groundwater.

Appendix C includes the laboratory report and chain-of-custody (COC) form for this monitoring event.

Refer to Tables 1 and 2 for further detailed historical concentration trends.

3.0 CONCLUSION AND RECOMMENDATIONS

The results of the Second Quarter 2006 groundwater monitoring event can be summarized as follows:

- The groundwater flow direction has remained in a south to southwesterly direction throughout the Site; however, the groundwater gradient has slightly decreased.
- The hydrocarbon source area still remains in the vicinity of the former UST cavity, near well MW-3, where a previous release of petroleum hydrocarbons occurred. The highest TPH-g, BTEX, MtBE, and TAME concentrations were detected in well MW-3.
- The southerly migration of impacted groundwater from the source area of the former UST cavity is evident by the higher TBA concentrations in well MW-4. However, the TBA plume appears to be a shrinking plume based on the decreasing trend observed in well MW-4.
- Based on the quarterly groundwater monitoring results, in general, all BTEX, MtBE and gasoline oxygenates have remained at low or nondetectable levels in the off-site wells. The TPH-g concentration this quarter is significantly lower than the historical peak value in well MW-6. TPH-g has historically remained at non-detectable levels in wells MW-8 and MW-9.

Based on the results of this monitoring event, SOMA recommends the following action items:

- Continuing the quarterly monitoring programs to better understand the seasonal variations in the groundwater quality conditions.
- SOMA is currently in the process of coordinating efforts with the property owner and ACHCS to conduct a site investigation. This investigation will aid in determining the vertical extent of the contamination and whether the dissolved contaminant plume has migrated to nearby residential areas.

4.0 REPORT LIMITATIONS

This report is the summary of work done by SOMA, including observations and descriptions of the Site's conditions. It includes the analytical results produced by Pacific Analytical Laboratory for the current groundwater monitoring event. The number and location of the wells were selected to provide the required information, but may not be completely representative of the entire site's conditions. All conclusions and recommendations are based on the results of the

laboratory analysis. Conclusions beyond those specifically stated in this document should not be inferred from this report.

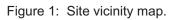
SOMA warrants that the services provided were done in accordance with the generally accepted practices in the environmental engineering and consulting field at the time of this sampling.

Figures

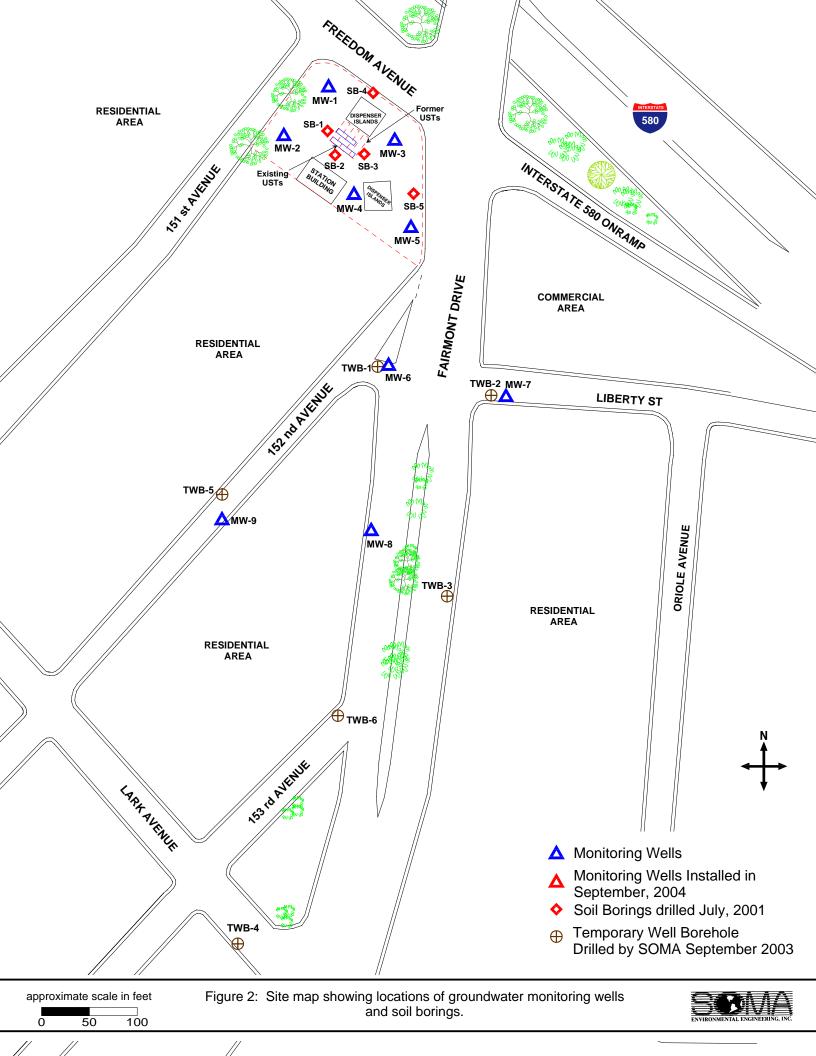


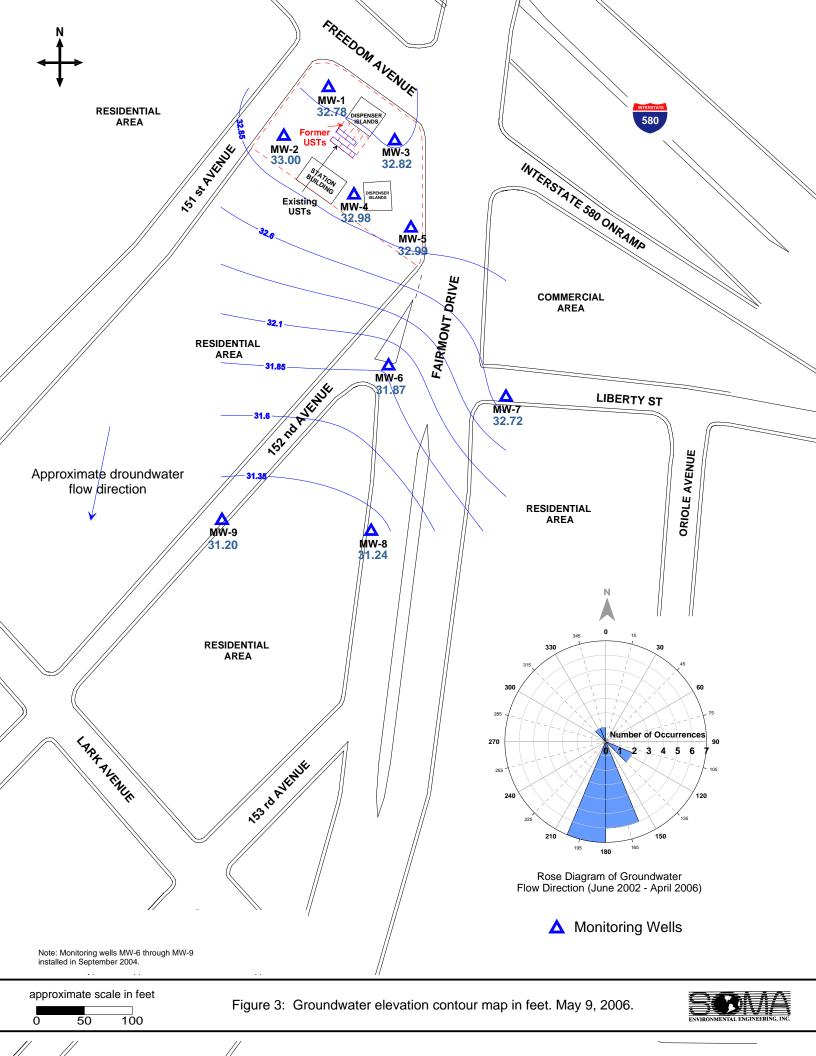


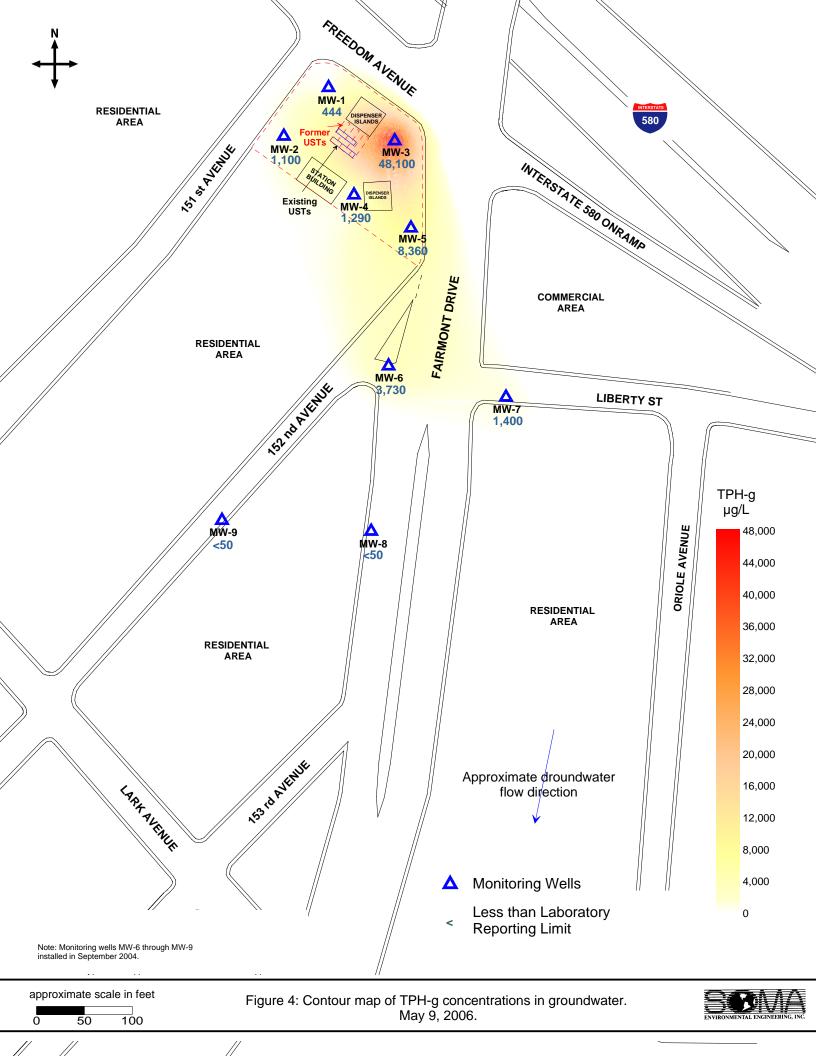
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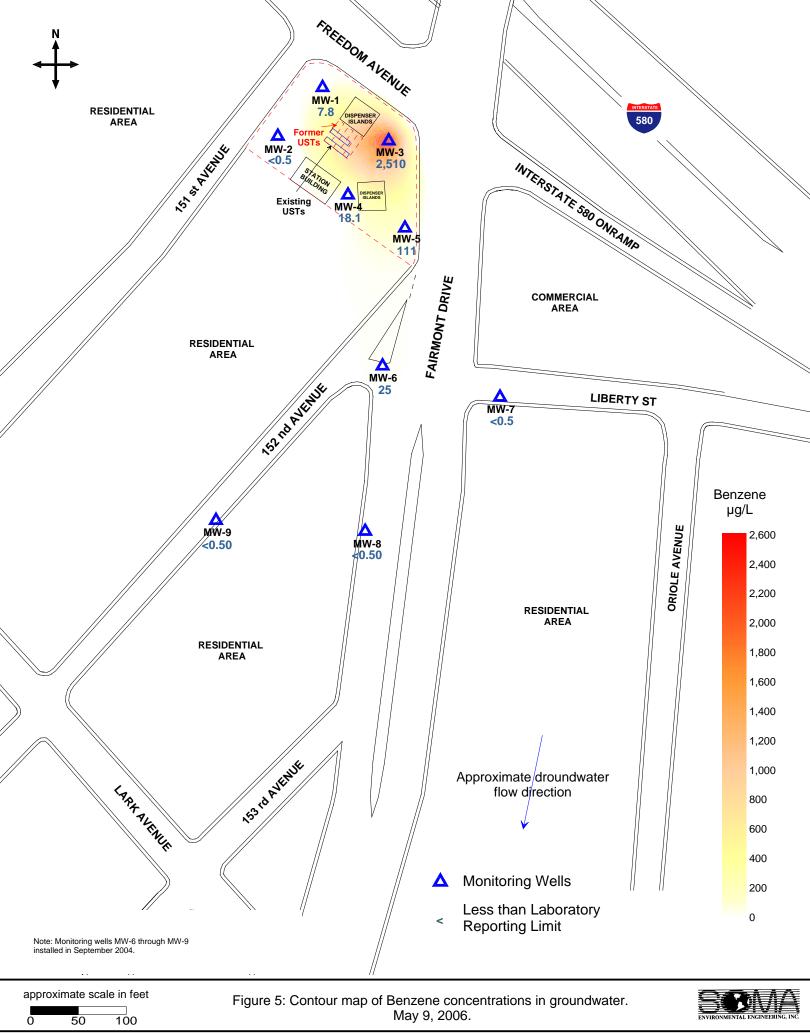


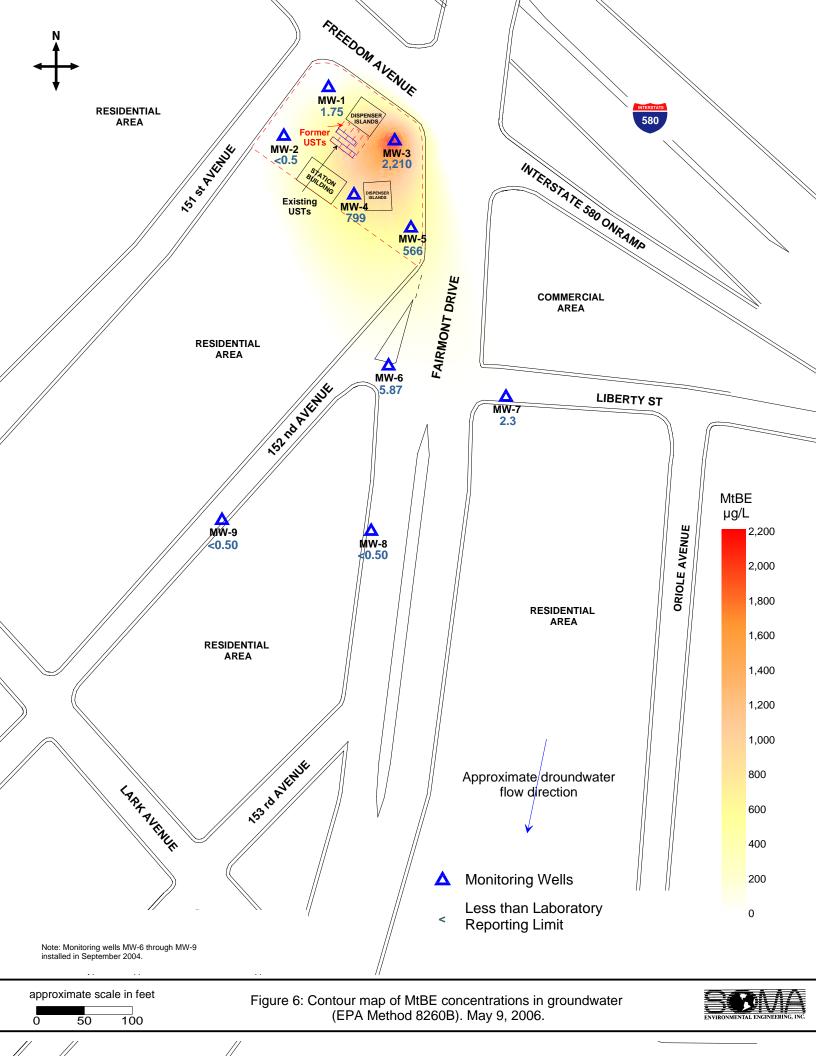


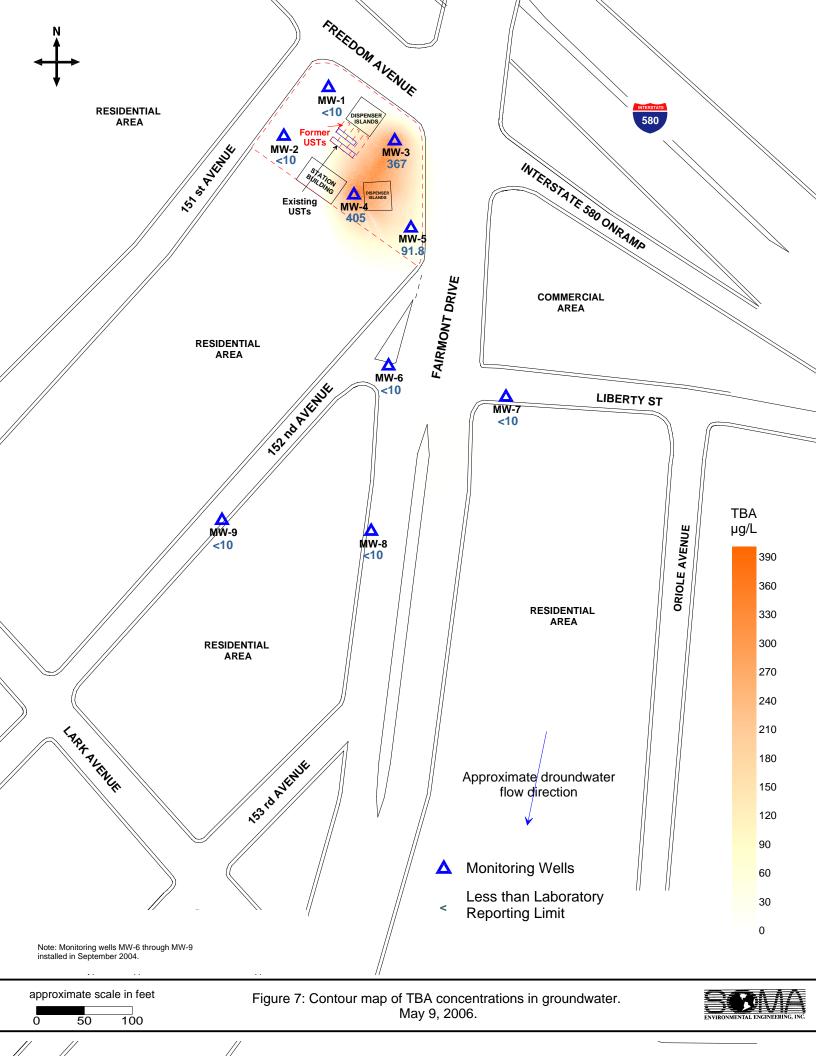












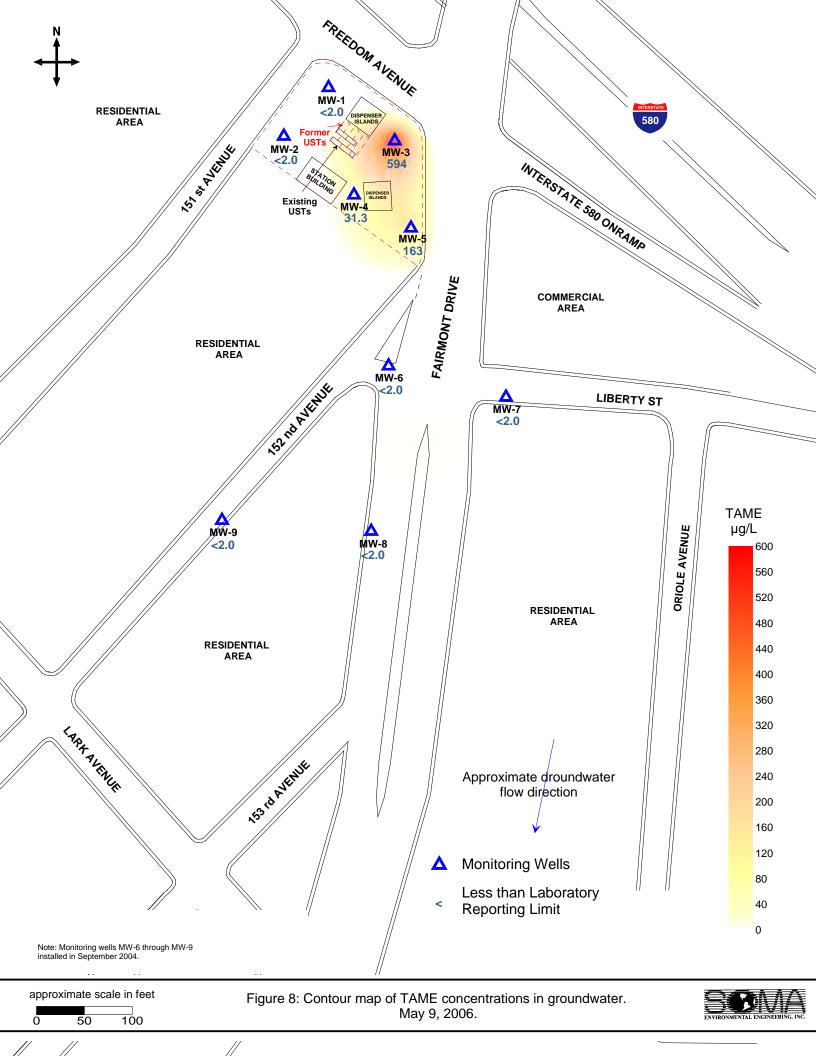


Table 1
Historical Groundwater Elevation Data and Analytical Results
15101 Freedom Avenue, San Leandro, CA

Monitoring Well	Date	Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (μg/L)	Benzene (µg/L)	Toluene (μg/L)	Ethyl- benzene (μg/L)	Total Xylenes (μg/L)	MtBE 8260B ² (μg/L)
MW-1	5/10/2002	51.71	22.85	28.86	5,700	360	4.5	340	450	2
	8/8/2002	51.71	23.31	28.40	9,100	590	2.6	830	362	<1.3
	11/8/2002	51.71	23.58	28.13	7,900	570	3.1	680	392	< 1.0
	2/21/2003	51.71	22.62	29.09	2,900	160	1.6 C	170	211	<0.5
	5/28/2003	51.71	22.43	29.28	1,700	55	<0.5	90	115	2.00
	8/12/2003	51.71	21.30	30.41	2,600	2.5	<0.5	190	130	<0.5
	10/9/2003	51.71	23.49	28.22	9,200	560.0	2.7 C	670	648	<1.0
	1/15/2004	51.71	22.43	29.28	5,500	190	<1.0	220	124.4	<0.5
	5/25/2004	51.71	22.94	28.77	8,000	400	1.50	420	393	3.40
	9/21/2004	54.46	23.49	30.97	9,300	580	9.30	690	683	4.60
	12/14/2004	54.46	23.01	31.45	7,360	337	<4.3	731	633	<4.3
	3/11/2005	54.46	21.48	32.98	2,510	45.2	<0.5	23.2	39.63	2.80
	6/15/2005	54.46	22.42	32.04	1,690	36.3	<2.0	59.5	28.73	2.01
	8/26/2005	54.46	23.00	31.46	7,310	318	<8.60	475	316	5.15
	11/11/2005	54.46	21.40	33.06	9,640	341	<8.6	467	329.7	6.04
	2/9/2006	54.46	21.81	32.65	775	14	<2.0	12.6	10.32	4.01
	5/9/2006	54.46	21.68	32.78	444	7.80	<2.0	12.1	6.31	1.75
MW-2	5/10/2002	49.66	22.83	26.83 *	3,100	67	8	250	215	56
	8/8/2002	49.66	21.41	28.25	2,700	4.6	<0.5	310	140	<0.5
	11/8/2002	49.66	21.79	27.87	3,400	4.6	< 0.5	310	160	< 0.5
	2/21/2003	49.66	20.51	29.15	890	1.7 C	0.80 C	68	38.92 C	<0.5
	5/28/2003	49.66	20.33	29.33	2,700	5.2 C	<0.5	120	140	1.2
	8/12/2003	49.66	23.18	26.48*	8,500	640	<2.5	560	659	<0.8
	10/9/2003	49.66	21.71	27.95	3100 H	4.3 C	<0.5	210	160	<0.5

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15101 Freedom Avenue, San Leandro, CA

Monitoring Well	Date	Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (μg/L)	Benzene (µg/L)	Toluene (μg/L)	Ethyl- benzene (μg/L)	Total Xylenes (μg/L)	MtBE 8260B ² (μg/L)
MW-2 cont.	1/15/2004	49.66	20.31	29.35	660 H	1.5 C	<0.5	8.9	25	<0.5
	5/25/2004	49.66	21.09	28.57	4,500	5.1 C	<0.5	190	230	0.70
	9/21/2004	52.41	21.71	30.70	370	0.76 C	<0.5	25	16	0.50
	12/14/2004	52.41	21.20	31.21	880	1.0	<0.5	66	52	<0.5
	3/11/2005	52.41	19.15	33.26	564	<0.5	<0.5	21	11.9	<0.5
	6/15/2005	52.41	20.30	32.11	2,040	1.2	<2.0	78.2	22	<0.5
	8/26/2005	52.41	20.97	31.44	1,500	0.930	<2.00	87.6	21	0.86
	11/11/2005	52.41	25.30	27.11	2,140	1.08	<2.0	104	29	0.79
	2/9/2006	52.41	19.41	33.00	1,410	<0.5	<2.0	99.6	21.4	0.72
	5/9/2006	52.41	19.41	33.00	1,100	<0.5	<2.0	86.5	17	<0.5
MW-3	5/10/2002	51.16	22.28	28.88	44,000	6,000	900	1,500	6,200	2,400
	8/8/2002	51.16	22.88	28.28	40,000	5,800	1,100	1,600	6,500	1,300
	11/8/2002	51.16	23.19	27.97	47,000	5,300	1,200	2,200	8,600	1,000
	2/21/2003	51.16	22.02	29.14	39,000	5,500	1,500	2,000	8,600	1,300
	5/28/2003	51.16	21.89	29.27	52,000	7,300	3,000	2,800	12,700	2,100
	8/12/2003	51.16	22.66	28.50	31,000	6,100	860	1,500	6,900	1,200
	10/9/2003	51.16	23.06	28.10	41,000	6,100	1,100	2,200	10,200	960
	1/15/2004	51.16	21.85	29.31	51,000	4,100	1,100	2,000	8,400	590
	5/25/2004	51.16	22.55	28.61	65,000	4,300	1,300	2,500	10,500	720
	9/21/2004	53.91	23.08	30.83	42,000	4,900	890	2,200	8,700	480
	12/14/2004	53.91	22.52	31.39	35,151	4,066	972	2,942	13,032	491
	3/11/2005	53.91	20.90	33.01	42,600	3,040	1,100	1,530	6,670	968
	6/15/2005	53.91	21.85	32.06	84,100	5,110	2,160	3,030	8,800	2,670
	8/26/2005	53.91	22.49	31.42	43,500	3,630	1,080	2,500	6,830	1,440
	11/11/2005	53.91	22.81	31.10	47,700	4,240	520	2,170	6,320	1,390
	2/9/2006	53.91	21.12	32.79	44,500	5,070	1360	1,920	4,840	3,280
	5/9/2006	53.91	21.09	32.82	48,100	2,510	1,140	1,950	5,030	2,210

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MW-4	5/10/2002	50.54	21.78	28.76	880	25	1.0C	110	52	12,000
	8/8/2002	50.54	22.50	28.04	3,800	70	<5.0	300	115	4,800
	11/8/2002	50.54	22.81	27.73	5,100	150	10	460	258	2,400
	2/21/2003	50.54	21.48	29.06	3,200	98	66	220	360	6,600
	5/28/2003	50.54	21.24	29.30	6,200	140	46	200	790	2,300
	8/12/2003	50.54	22.32	28.22	7,500	180	57	220	1450	1,900
	10/9/2003	50.54	22.74	27.80	5,800	250	32	300	970	7,800
	1/15/2004	50.54	21.19	29.35	5,900	270	17 C	150	640	7,300
	5/25/2004	50.54	22.03	28.51	9,100	210	51	200	1190	1800
	9/21/2004	53.31	22.76	30.55	5,200	290	12	370	600	7300
	12/14/2004	53.31	21.99	31.32	8,937	538	114	416	2379	5021
	3/11/2005	53.31	20.01	33.30	12,300	225	39.6	80.1	1465	3870
	6/15/2005	53.31	21.25	32.06	7,690	114	32.6	77.1	555	1150
	8/26/2005	53.31	22.03	31.28	8,850	175	24.6	150	851	1380
	11/11/2005	53.31	22.43	30.88	9,990	356	<43	196	700	3,640
	2/9/2006	53.31	20.31	33.00	6,850	205	<43	67.2	255.2	5,120
	5/9/2006	53.31	20.33	32.98	1,290	18.1	<8.6	12.9	25.87	799
MW-5	5/10/2002	47.79	19.02	28.77	25,000	1,000	1200	1,100	3,060	1,800
	8/8/2002	47.79	19.80	27.99	18,000	1,000	660	950	1,720	1,500
	11/8/2002	47.79	20.14	27.65	16,000	1,300	380	930	1,550	1,200
	2/21/2003	47.79	18.70	29.09	12,000	390	71	770	1,100	860
	5/28/2003	47.79	18.52	29.27	9,100	210	31	560	790	600
	8/12/2003	47.79	19.54	28.25	12,000	660	75	660	1,110	1,000
	10/9/2003	47.79	20.06	27.73	15,000	1,000	130	1,000	1,430	1,700
	1/15/2004	47.79	18.42	29.37	9,900	450 C	16	500	431	1,100

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Historical Groundwater Elevation Data and Analytical Results
15101 Freedom Avenue, San Leandro, CA

Monitoring Well	Date	Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (μg/L)	Benzene (µg/L)	Toluene (μg/L)	Ethyl- benzene (μg/L)	Total Xylenes (μg/L)	MtBE 8260B ² (μg/L)
MW-5 cont.	5/25/2004	47.79	19.30	28.49	9,200	380	24	490	536	720
	9/21/2004	50.53	20.15	30.38	10,000	980	71	560	770	1200
	12/14/2004	50.53	19.30	31.23	10,502	587	64	1040	1133	1015
	3/11/2005	50.53	17.20	33.33	8,390	407	<5.5	83	42.5	1530
	6/15/2005	50.53	18.54	31.99	9,350	147	18.3	435	146.2	573
	8/26/2005	50.53	19.31	31.22	9,500	261	<22	726	321.3	749
	11/11/2005	50.53	19.75	30.78	10,000	443	41.5	527	278.5	1,430
	2/9/2006	50.53	17.58	32.95	7,640	237	<22	187	50.2	2,050
	5/9/2006	50.53	17.54	32.99	8,360	111	<8.6	300	75.84	566
MW-6	9/21/2004	45.82	17.64	28.18	34,000	150	130	2200	8100	0.6
	12/14/2004	45.82	15.75	30.07	5,161	137	7	436	1136	<5.5
	3/11/2005	45.82	13.80	32.02	6,040	125	3.22	260	722.1	4.94
	6/15/2005	45.82	14.78	31.04	5,590	44.3	6.60	272	382	5.85
	8/26/2005	45.82	15.91	29.91	6,130	99	<8.6	378	492.9	5.66
	11/11/2005	45.82	16.55	29.27	11,400	101	<8.6	645	834.7	4.33
	2/9/2006	45.82	13.92	31.90	2,790	32.3	<8.6	131	131.22	7.30
	5/9/2006	45.82	13.95	31.87	3,730	25	<2.0	213	207.82	5.87
MW-7	9/21/2004	44.74	15.21	29.53	2,900	<0.5	<0.5	52	61	8.1
141 4 4 - 7	12/14/2004	44.74	13.90	30.84	<50	1.6	<0.5	29	58	6.0
	3/11/2005	44.74	11.46	33.28	2,230	<2.5	<2.5	39.4	51.4	12.4
	6/15/2005	44.74	12.97	31.77	2,940	0.85	<2.0	50.6	31.9	13.7
	8/26/2005	44.74	14.10	30.64	2,310	<0.50	<2.0	55.7	29.6	4.01
	11/11/2005	44.74	14.59	30.15	3,030	<0.5	<2.0	66.5	42.3	9.76
	2/9/2006	44.74	NM	NM	ŇA	NA	NA	NA	NA	NA
	5/9/2006	44.74	12.02	32.72	1,400	<0.5	<2.0	19.8	12.4	2.30
MW-8	9/21/2004	41.14	12.98	28.16	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	12/14/2004	41.14	11.22	29.92	<50	<0.5	<0.5	<0.5	<1.0	<0.5
	3/11/2005	41.14	NM	NM	NA	NA	NA	NA	NA	NA
	6/15/2005	41.14	10.46	30.68	<200	0.53	<2.0	<0.5	<1.0	<0.5
	8/26/2005	41.14	11.53	29.61	<50	<0.50	<2.0	<0.50	<1.0	<0.50
	11/11/2005	41.14	11.92	29.22	<50	< 0.5	<2.0	1.36	1.8	<0.5
	2/9/2006	41.14	9.74	31.40	<50	< 0.50	<2.0	<0.50	<1.0	< 0.50
	5/9/2006	41.14	9.90	31.24	<50	<0.50	<2.0	<0.50	<1.0	<0.50

Table 1 Historical Groundwater Elevation Data and Analytical Results 15101 Freedom Avenue, San Leandro, CA

Monitoring Well	Date	Casing Elevation ¹ (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (μg/L)	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (μg/L)	Total Xylenes (μg/L)	MtBE 8260B ² (μg/L)
MW-9	9/21/2004	40.26	12.18	28.08	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	12/14/2004	40.26	10.91	29.35	<50	<0.5	<0.5	<0.5	<1.0	<0.5
	3/11/2005	40.26	10.52	29.74	<200	<0.5	<0.5	<0.5	<1.0	<0.5
	6/15/2005	40.26	14.73	25.53	<200	<0.5	<2.0	<0.5	<1.0	<0.5
	8/26/2005	40.26	10.59	29.67	<50	< 0.50	<2.0	< 0.50	<1.0	<0.50
	11/11/2005	40.26	11.25	29.01	<50	<0.5	<2.0	<0.5	<1.0	<0.5
	2/9/2006	40.26	10.05	30.21	<50	<0.50	<2.0	< 0.50	<1.0	<0.50
	5/9/2006	40.26	9.06	31.20	<50	<0.50	<2.0	<0.50	<1.0	<0.50

Notes:

The first time SOMA monitored this Site was in May 2002.

*: Due to minimal recharge rates in well MW-2, the groundwater elevation recorded on these dates did not match the overall site conditions, May 2002 & August 2003.

¹: Top of casing elevations were surveyed to a datum of 67.07 M.S.L by Kier & Wright Civil Engineers & Land Surveyors on May 7, 2002

On October 11, 2004, the site was re-surveyed by Harrington Surveys, Inc. of Walnut Creek, CA to a datum of California Coordinate System, Zone 3, NAD 83.

² MtBE analyzed by EPA Method 8021B, and confirmed by EPA Method 8260B.

<: Not detected above the laboratory reporting limit.

^c Presence confirmed, but confirmation concentration differed by more than a factor of two

C: Presence confirmed, but RPD between columns exceeds 40%.

H: Heavier hydrocarbons contributed to the quantitation.

NA: Not Analyzed. Well MW-8 was inaccessible during the First Quarter 2005, car was parked over well. Not Analyzed. Well MW-7 was inaccessible during the First Quarter 2006, car was parked over well.

NM: Not Measured. Well MW-8 was inaccessible during the First Quarter 2005, car was parked over well. Not Measured. Well MW-7 was inaccessible during the First Quarter 2006, car was parked over well.

The first time SOMA monitored wells MW-6 to MW-9 was in September 2004.

Historical Gasoline Oxygenates Results 15101 Freedom Avenue, San Leandro, CA

Monitoring Well	Date	ТВА (µg/L)	DIPE (μg/L)	ETBE (μg/L)	TAME (μg/L)
MW-1	8/8/2002	78	<1.3	<1.3	<1.3
	11/1/2002	42	< 1.0	< 1.0	< 1.0
	2/21/2003	47	<0.5	<0.5	<0.5
	5/28/2003	25	<0.5	<0.5	<0.5
	8/12/2003	<10	<0.5	<0.5	<0.5
	10/9/2003	70	<1.0	<1.0	<1.0
	1/15/2004	55	<0.5	<0.5	<0.5
	5/25/2004	62	<0.7	<0.7	<0.7
	9/21/2004	<10	<0.5	<0.5	<0.5
	12/14/2004	<21.5	<4.3	<4.3	<17.2
	3/11/2005	81	<0.5	<0.5	<2.0
	6/15/2005	<10	<0.5	<0.5	<2.0
	8/26/2005	68.9	<2.15	<2.15	<8.6
	11/11/2005	46	<2.15	<2.15	<8.6
	2/9/2006	11.3	<0.5	<0.5	<2.0
	5/9/2006	<10	<0.5	<0.5	<2.0
MW-2	8/8/2002	21	<0.5	<0.5	<0.5
	11/1/2002	15	<0.5	<0.5	<0.5
	2/21/2003	12	<0.5	<0.5	<0.5
	5/28/2003	31	<0.5	<0.5	<0.5
	8/12/2003	69	<0.8	<0.8	<0.8
	10/9/2003	12	<0.5	<0.5	<0.5
	1/15/2004	<10	<0.5	<0.5	<0.5
	5/25/2004	14	<0.5	<0.5	<0.5
	9/21/2004	<10	<0.5	<0.5	<0.5
	12/14/2004	<2.5	<0.5	<0.5	<2.0

Historical Gasoline Oxygenates Results 15101 Freedom Avenue, San Leandro, CA

Monitoring Well	Date	ΤΒΑ (μg/L)	DIPE (μg/L)	ETBE (μg/L)	TAME (μg/L)
MW-2 cont.	3/11/2005	<2.5	<0.5	<0.5	<2.0
	6/15/2005	<10	<0.5	<0.5	<2.0
	8/26/2005	<10	<0.5	<0.5	<2.0
	11/11/2005	<10	<0.5	<0.5	<2.0
	2/9/2006	<10	<0.5	<0.5	<2.0
	5/9/2006	<10	<0.5	<0.5	<2.0
MW-3	8/8/2002	<330	<8.3	<8.3	330
	11/1/2002	85	< 1.3	<1.3	220
	2/21/2003	140	<5.0	<5.0	320
	5/28/2003	520	<10	<10	530
	8/12/2003	180	<4.2	<4.2	270
	10/9/2003	<170	<8.3	<8.3	200
	1/15/2004	<100	<5.0	<5.0	150
	5/25/2004	<100	<5.0	<5.0	270
	9/21/2004	<140	<7.1	<7.1	110
	12/14/2004	<100	<20	<20	154
	3/11/2005	<215	<43	<43	256
	6/15/2005	<215	<10.8	<10.8	374
	8/26/2005	699	<21.5	<21.5	277
	11/11/2005	<430	<21.5	<21.5	171
	2/9/2006	<430	<21.5	<21.5	620
	5/9/2006	367	<10.8	<10.8	594
		1-00	·-	·	
MW-4	8/8/2002	1500	<17	<17	18
	11/1/2002	580	< 5.0	6	13
	2/21/2003	1600	<20	22	<20
	5/28/2003	690	<8.3	<8.3	17
	8/12/2003	550	<7.1	7.3	18
	10/9/2003	1400	<31	50	<31
	1/15/2004	1,300	<20	25	21
	5/25/2004	560	<8.3	<8.3	24
	9/21/2004	1,300	<50	<50	<50
	12/14/2004	826	<10.75	21	49

Historical Gasoline Oxygenates Results 15101 Freedom Avenue, San Leandro, CA

Monitoring	Dete	TBA	DIPE	ETBE	TAME (μg/L)			
Well	Date	(μg/L)	(μg/L)	(μ <mark>g/L)</mark>				
MW-4 cont.	3/11/2005	1,110	<10.8	12.1	<43			
	6/15/2005	<110	<5.5	<5.5	22.9			
	8/26/2005	902	<5.50	<5.50	37.4			
	11/11/2005	884	<10.8	<10.8	<43			
	2/9/2006	769	<10.8	16.4	45.6			
	5/9/2006	405	<2.15	2.95	31.3			
MW-5	8/8/2002	<250	<6.3	<6.3	510			
	11/1/2002	66	< 2.0	< 2.0	560			
	2/21/2003	<63	<3.1	<3.1	280			
	5/28/2003	<33	<1.7	<1.7	110			
	8/12/2003	130	<3.6	<3.6	270			
	10/9/2003	<100	<5.0	<5.0	740			
	1/15/2004	<63	<3.1	<3.1	300			
	5/25/2004	<100	<5.0	<5.0	210			
	9/21/2004	<130	<6.3	<6.3	550			
	12/14/2004	40	<5.5	<5.5	444			
	3/11/2005	88.8	<5.5	<5.5	448			
	6/15/2005	<43	<2.15	<2.15	88.1			
	8/26/2005	274	<5.50	<5.50	195			
	11/11/2005	192	<5.50	<5.50	360			
	2/9/2006	218	<5.50	<5.50	523			
	5/9/2006	91.8	<2.15	<2.15	163			
MW-6	9/21/2004	<10	<0.5	<0.5	<0.5			
	12/14/2004	<5.5	<5.5	<5.5	<22			
	3/11/2005	2.54	<0.5	<0.5	<2.0			
	6/15/2005	<20	<1.0	<1.0	<4.0			
	8/26/2005	<43	<2.15	<2.15	<8.6			
	11/11/2005	<43	<2.15	<2.15	<8.6			
	2/9/2006	<43	<2.15	<2.15	<8.6			
	5/9/2006	<10	<0.5	<0.5	<2.0			

Historical Gasoline Oxygenates Results 15101 Freedom Avenue, San Leandro, CA

Monitoring Well	Date	ТВА (µg/L)	DIPE (μg/L)	ETBE (μg/L)	TAME (μg/L)				
MW-7	9/21/2004	<10	<0.5	<0.5	1.5				
	12/14/2004	<2.5	<0.5	<0.5	<2.0				
	3/11/2005	<12.5	<2.5	<2.5	<10				
	6/15/2005	<10	<0.5	<0.5	2.23				
	8/26/2005	<10	<0.5	<0.5	<2.0				
	11/11/2005	<10	<0.5	<0.5	<2.0				
	2/9/2006	NA	NA	NA	NA				
	5/9/2006	<10	<0.5	<0.5	<2.0				
MW-8	9/21/2004	<10	<0.5	<0.5	<0.5				
	12/14/2004	<2.5	<0.5	<0.5	<2.0				
	3/11/2005	NA	NA	NA	NA				
	6/15/2005	<10	<0.5	<0.5	<2.0				
	8/26/2005	<10	<0.5	<0.5	<2.0				
	11/11/2005	<10	<0.5	<0.5	<2.0				
	2/9/2006	<10	<0.5	<0.5	<2.0				
	5/9/2006	<10	<0.5	<0.5	<2.0				
MW-9	9/21/2004	<10	<0.5	<0.5	<0.5				
	12/14/2004	<2.5	<0.5	<0.5	<2.0				
	3/11/2005	<2.5	<0.5	<0.5	<2.0				
	6/15/2005	<10	<0.5	<0.5	<2.0				
	8/26/2005	<10	<0.5	<0.5	<2.0				
	11/11/2005	<10	<0.5	<0.5	<2.0				
	2/9/2006	<10	<0.5	<0.5	<2.0				
	5/9/2006	<10	<0.5	<0.5	<2.0				

Notes:

August 8, 2002 was the first time that samples were analyzed for Gasoline Oxygenates

<: Not detected above the laboratory reporting limit.

NA: Not Analyzed. Well MW-8 was inaccessible during the 1Q05 & well MW-7 (1Q06) car was parked over each well.

TBA: tert-Butyl Alcohol

DIPE: Isopropyl Ether

ETBE: Ethyl tert-Butyl Ether

TAME: Methyl tert-Amyl Ether

Appendix A

SOMA's Groundwater Monitoring Procedures

Field Activities

On May 9, 2006, SOMA's field crew conducted a groundwater monitoring event in accordance with the procedures and guidelines of the Alameda County Environmental Health Services and the California Regional Water Quality Control Board. Figure 2 shows the locations of the wells.

Water Level Measurements

On May 9, 2006, a total of five onsite monitoring wells (MW-1 to MW-5), and four off-site wells (MW-6 to MW-9) were measured for depth to groundwater. On May 9, 2006, additional field measurements and grab groundwater samples were collected from all of the monitoring wells.

Prior to measuring the groundwater depth at each monitoring well, equalization with the surrounding aquifer was achieved. The well cap was removed from each well, and the pressure in each well was then allowed to dissipate. This allowed for a more stable water table level within the well. After a few minutes, and once the water level in the well stabilized, the depth to groundwater in each monitoring well was measured from the top of the casing to the nearest 0.01 foot using an electric sounder.

The Site was re-surveyed by Harrington Surveys Inc., of Walnut Creek, on October 11, 2004. The survey datum was based on California Coordinate System, Zone 3, NAVD 83. The elevation data was based on a datum of 58.50 feet NAVD88. Top of casing elevation data and the depth to groundwater in each monitoring well was used to calculate the groundwater elevation.

The survey data is included in Appendix B.

Purging and Field Measurements

Prior to collecting samples, each monitoring well was purged using a battery operated 2-inch diameter pump (Model ES-60 DC).

In order to ensure that the final samples were in equilibrium with and representative of the surrounding groundwater, several samples were taken during the purging for field measurements of pH, temperature and EC. These parameters were measured using a Hanna pH, conductivity, and temperature meter. The equipment was calibrated at the Site using standard solutions and procedures provided by the manufacturer.

The pH of groundwater has an effect on the activity of microbial populations in the groundwater. The groundwater temperature affects the metabolic activity of bacteria. The groundwater conductivity (EC) is directly related to the concentration of ions in solution

The purging continued until these parameters stabilized or three casing volumes were purged.

Sampling

On May 9, 2006, for sampling purposes, after purging, a disposable polyethylene bailer was used to collect sufficient samples from each monitoring well for laboratory analyses. The groundwater samples collected from each monitoring well were transferred to four 40-mL VOA vials, which had been prepared with a hydrochloric acid preservative. The vials were sealed to prevent the development of air bubbles within the headspace area.

After the groundwater samples were collected, they were placed in an ice chest and maintained at 4°C. A chain of custody (COC) form was completed for all of the samples and was submitted along with the samples to the laboratory. Upon completion of this monitoring event, SOMA's field crew delivered the groundwater samples to Pacific Analytical Laboratory in Alameda, California.

LABORATORY ANALYSIS

Pacific Analytical Laboratory, a state certified laboratory, analyzed the groundwater samples for TPH-g, BTEX, MtBE, gasoline oxygenates, ethanol and lead scavengers. Samples for TPH-g, BTEX, MtBE, gasoline oxygenates, ethanol and lead scavengers measurements were prepared using EPA Method 5030B and analyzed using Method 8260B.

Appendix B

Table of Elevations & Coordinates on Monitoring Wells Measured by Harrington Surveys, Inc., and

Field Measurements of Physical and Chemical Parameters of Groundwater Samples

Harrington Surveys Inc.

Land Surveying & Mapping 2278 Larkey Lane, Walnut Creek, Ca. 94596 Phone (925)935–7228 Fax (925)935–5118 Cel (925)788–7359 E-Mail (ben5132@pacbell.net)

Soma Environmental Engineering 2680 Bishop Dr. # 203 San Ramon, Ca. 94583

Oct. 14, 2004

Attn: Elena Manzo Job # 2445

Ref: 15101 Freedom Ave, San Leandro, Ca.

HORZONTAL CONTROL, NAD 88:

Survey based on California Coordinate System, Zone 3, NAD 83.

CHABOT "B', NORTH 2,087,731.02 EAST 6,094,039.23 sft. LAT. N37°43'02.71762" W122°07"00.46339", NAVD 88, ELEV. 134.957.

CHABOT "A", NORTH 2,088,584.99 EAST 6,093,351.39 sft. LAT. N37°43'11.04190" W122°07'09.20691", NAVD 88, ELEV. 492.08.

VERTICAL CONTROL, NAVD 88:

NGS 1974, STATION K 1256, NAVD 88 ELEV. 58.50. PID # HT1871

GPS: TRIMBLE 5800, LEICA TCA 1800, 1" HORZ. & VERT.

EPOCH DATE 1998.5

OBSERVATION: EPOCH=180.

FIELD SURVEY: OCT. 11, 2004.

Ben Harrington

PLS 5132



SURVEY REPORT 15101 FREEDOM AVE SAN LEANDRO, CA.

HARRINGTON SURVEYS INC. 2278 LARKEY LANE WALNUT CREEK, CA. 94597 925-935-7228 FAX. 935-5118

1 2087731.02 6094039.23 442.77 FD CHABOT B 37°43'02.71762" 122°07 2 2088584.99 6093351.39 492.08 FD CHABOT A 37°43'11.04190" 122°07 51 2084073.17 6092159.32 55.44 FD. X-8 52 2084073.17 6092141.24 46.15 MW-6 PAV 53 2084072.72 6092140.95 46.15 MW-6 NOTCH 37°42'26.22635" 122°07 54 2084072.47 6092140.95 45.82 MW-6 NOTCH 37°42'26.22635" 122°07 55 2083909.71 6091947.10 40.61 MW-9 PAV 56 2083909.10 6091946.97 40.61 MW-9 PONCH 57 2083908.71 6091947.00 40.26 MW-9 NOTCH 37°42'24.57425" 122°07 58 2083861.20 6092118.11 41.38 MW-8 PAV 59 2083860.43 6092118.52 41.14 MW-8 NOTCH 37°42'24.12245" 122°07 61 2084007.88 6092290.11 44.94 MW-7 PAV 50 2084007.88 6092290.27 44.95 MW-7 NOTCH 37°42'25.61150" 122°07 <td< th=""><th>TUDE (DMS) '00.46339'' '09.20691'' '23.29643 '25.67431'' '23.52966'' '21.42290''</th></td<>	TUDE (DMS) '00.46339'' '09.20691'' '23.29643 '25.67431'' '23.52966'' '21.42290''
2 2088584.99 6093351.39 492.08 FD CHABOT A 37°43'11.04190" 122°07 51 2084348.54 6092159.32 55.44 FD X-8 52 2084073.17 6092141.24 46.15 MW-6 PAV 53 2084072.72 6092140.95 46.15 MW-6 PAV 53 2084072.47 6092140.95 45.82 MW-6 NOTCH 37°42'26.22635" 122°07 55 2083909.71 6091947.10 40.61 MW-9 PAV 56 2083909.10 6091946.97 40.61 MW-9 PUNCH 57 2083861.20 6092118.11 41.38 MW-8 PUNCH 59 2083860.43 6092118.36 41.44 MW-8 PUNCH 59 2083860.03 6092118.52 41.14 MW-8 NOTCH 37°42'24.12245" 122°07 51 2084007.88 6092290.27 44.95 MW-7 PAV 50 2084007.68 6092290.27 44.95 MW-7 NOTCH 37°42'25.61150" 122°07 61 2084007.68 6092290.27 44.95 MW-7 NOTCH 37°42'25.61150" 122°07 62<	'09.20691'' '23.29643 '25.67431'' '23.52966''
51 2084348.54 6092159.32 55.44 FD. X-8 52 2084073.17 6092141.24 46.15 MW-6 PAV 53 53 2084072.72 6092140.95 46.15 MW-6 PUNCH 57 54 2084072.47 6092140.95 45.82 MW-6 NOTCH 37°42'26.22635'' 122°07' 55 2083909.71 6091947.10 40.61 MW-9 PAV 56 2083909.10 6091946.97 40.61 MW-9 PUNCH 57 2083908.71 6092118.17 41.26 MW-9 NOTCH 37°42'24.57425'' 122°07' 58 2083861.20 6092118.11 41.38 MW-8 PAV 59 2083860.43 6092118.36 41.44 MW-8 PAV 59 2083860.03 6092118.52 41.14 MW-8 NOTCH 37°42'24.12245'' 122°07' 61 2084008.21 6092290.11 44.94 MW-7 PAV 50 2083860.03 6092175.95 51.03 MW-7 NOTCH 37°42'25.61150'' 122°07 62 2084007.68 6092290.27 44.95 MW-7 NOTCH 37°42'25.61150'' 122°07 63 2084007.68 60	'23.29643 '25.67431'' '23.52966''
52 2084073.17 6092141.24 46.15 MW-6 PAV 53 53 2084072.72 6092140.95 46.15 MW-6 PUNCH 57 54 2084072.47 6092140.95 45.82 MW-6 NOTCH 37°42'26.22635" 122°07 55 2083909.71 6091947.10 40.61 MW-9 PAV 56 2083909.10 6091946.97 40.61 MW-9 PUNCH 57 2083908.71 6091947.00 40.26 MW-9 NOTCH 37°42'24.57425" 122°07 58 2083861.20 6092118.11 41.38 MW-8 PAV 59 2083860.43 6092118.52 41.44 MW-8 PONCH 57°42'24.57425" 122°07 59 2083860.03 6092118.52 41.14 MW-8 PONCH 37°42'24.12245" 122°07 60 2083860.03 6092118.52 41.14 MW-8 NOTCH 37°42'24.12245" 122°07 61 2084008.21 6092290.11 44.94 MW-7 PAV 50 50°42'24.12245" 122°07 62 2084007.88 6092290.27 44.95 MW-7 NOTCH 37°42'25.61150" 122°07 64 20842	'25.67431" '23.52966"
53 2084072.72 6092140.95 46.15 MW-6 PUNCH 122°07 54 2084072.47 6092140.95 45.82 MW-6 NOTCH 37°42'26.22635" 122°07 55 2083909.71 6091947.10 40.61 MW-9 PAV 122°07 56 2083909.10 6091946.97 40.61 MW-9 PUNCH 122°07 57 2083908.71 6091947.00 40.26 MW-9 NOTCH 37°42'24.57425" 122°07 58 2083861.20 6092118.11 41.38 MW-8 PAV 122°07 122°07 59 2083860.43 6092118.52 41.44 MW-8 PUNCH 122°07 60 2083860.03 6092118.52 41.14 MW-8 NOTCH 37°42'24.12245" 122°07 61 2084008.21 6092290.11 44.94 MW-7 PAV 122°07 122°07 62 2084007.68 6092290.27 44.95 MW-7 NOTCH 37°42'24.12245" 122°07 63 2084007.68 6092175.95 51.03 MW-5 NOTCH 37°42'25.61150" 122°07 64 2084206.49 6092175.95 50.96	'25.67431" '23.52966"
54 2084072.47 6092140.95 45.82 MW-6 NOTCH 37°42'26.22635" 122°07' 55 2083909.71 6091947.10 40.61 MW-9 PAV	'25.67431" '23.52966"
55 2083909.71 6091947.10 40.61 MW-9 PAV 56 56 2083909.10 6091946.97 40.61 MW-9 PUNCH 57 57 2083908.71 6091947.00 40.26 MW-9 NOTCH 37°42'24.57425'' 122°07' 58 2083861.20 6092118.11 41.38 MW-8 PAV 59 2083860.43 6092118.52 41.44 MW-8 PUNCH 57' 122°07' 60 2083860.03 6092118.52 41.14 MW-8 NOTCH 37°42'24.12245'' 122°07' 61 2084008.21 6092290.11 44.94 MW-7 PAV 50' 2084007.68 6092290.27' 44.95 MW-7 PVNCH 37°42'25.61150'' 122°07' 63 2084007.68 6092290.27' 44.95 MW-7 NOTCH 37°42'25.61150'' 122°07' 64 2084206.49 6092175.95 51.03 MW-5 PAV 50' 50' 50' 50' 65 2084206.17 6092176.55 50.96 MW-5 PUNCH 50' 50' 50' 50' 50' 50' 50' 50' 50' 50' 50' <t< td=""><td>'25.67431" '23.52966"</td></t<>	'25.67431" '23.52966"
56 2083909.10 6091946.97 40.61 MW-9 PUNCH 37°42'24.57425'' 122°07' 57 2083908.71 6091947.00 40.26 MW-9 NOTCH 37°42'24.57425'' 122°07' 58 2083861.20 6092118.11 41.38 MW-8 PAV 59 2083860.43 6092118.36 41.44 MW-8 PUNCH 59 2083860.03 6092118.52 41.14 MW-8 NOTCH 37°42'24.12245'' 122°07' 122°07' 61 2084008.21 6092290.11 44.94 MW-7 PAV 50 2084007.68 6092290.27 44.95 MW-7 NOTCH 37°42'25.61150'' 122°07' 62 2084007.68 6092290.27 44.95 MW-7 NOTCH 37°42'25.61150'' 122°07' 63 2084007.68 6092290.40 44.74 MW-7 NOTCH 37°42'25.61150'' 122°07' 64 2084206.49 6092175.95 51.03 MW-5 PAV 50.53 122°07' 65 2084206.01 6092176.55 50.96 MW-5 NOTCH 37°42'27.55260 122°07'	'23.52966''
57 2083908.71 6091947.00 40.26 MW-9 NOTCH 37°42'24.57425" 122°07' 58 2083861.20 6092118.11 41.38 MW-8 PAV 59 2083860.43 6092118.36 41.44 MW-8 PUNCH 60 2083860.03 6092118.52 41.14 MW-8 NOTCH 37°42'24.12245" 122°07' 61 2084008.21 6092290.11 44.94 MW-7 PAV 62 2084007.88 6092290.27 44.95 MW-7 PVNCH 63 2084007.68 6092290.40 44.74 MW-7 NOTCH 37°42'25.61150" 122°07 64 2084206.49 6092175.95 51.03 MW-7 NOTCH 37°42'25.61150" 122°07 64 2084206.17 6092176.55 50.96 MW-5 PAV 65 2084206.01 6092176.79 50.53 MW-5 NOTCH 37°42'27.55260 122°07 67 2084670.41 6092307.68 69.79 FD BM FAIR580 122°07	'23.52966"
58 2083861.20 6092118.11 41.38 MW-8 PAV 59 59 2083860.43 6092118.36 41.44 MW-8 PUNCH 50 60 2083860.03 6092118.52 41.14 MW-8 NOTCH 37°42'24.12245" 122°07 61 2084008.21 6092290.11 44.94 MW-7 PAV 50 50 50 62 2084007.88 6092290.27 44.95 MW-7 PVNCH 50	'23.52966"
59 2083860.43 6092118.36 41.44 MW-8 PUNCH 122°07 60 2083860.03 6092118.52 41.14 MW-8 NOTCH 37°42'24.12245" 122°07 61 2084008.21 6092290.11 44.94 MW-7 PAV 122°07 62 2084007.88 6092290.27 44.95 MW-7 PVNCH 122°07 63 2084007.68 6092290.40 44.74 MW-7 NOTCH 37°42'25.61150" 122°07 64 2084206.49 6092175.95 51.03 MW-5 PAV 122°07 122°07 65 2084206.17 6092176.55 50.96 MW-5 PAV 122°07 122°07 66 2084206.01 6092176.79 50.53 MW-5 NOTCH 37°42'25.61150" 122°07 67 2084670.41 6092176.79 50.53 MW-5 NOTCH 37°42'27.55260 122°07	
60 2083860.03 6092118.52 41.14 MW-8 NOTCH 37°42'24.12245" 122°07 61 2084008.21 6092290.11 44.94 MW-7 PAV 122°07 62 2084007.88 6092290.27 44.95 MW-7 PVNCH 122°07 63 2084007.68 6092290.40 44.74 MW-7 NOTCH 37°42'25.61150" 122°07 64 2084206.49 6092175.95 51.03 MW-5 PAV 122°07 65 2084206.17 6092176.55 50.96 MW-5 PUNCH 122°07 66 2084206.01 6092176.79 50.53 MW-5 NOTCH 37°42'27.55260 122°07 67 2084670.41 6092307.68 69.79 FD BM FAIR580 122°07	
61 2084008.21 6092290.11 44.94 MW-7 PAV 1 62 2084007.88 6092290.27 44.95 MW-7 PVNCH 1 63 2084007.68 6092290.40 44.74 MW-7 NOTCH 37°42'25.61150'' 122°07 64 2084206.49 6092175.95 51.03 MW-5 PAV 1	
62 2084007.88 6092290.27 44.95 MW-7 PVNCH 122°07 63 2084007.68 6092290.40 44.74 MW-7 NOTCH 37°42'25.61150'' 122°07 64 2084206.49 6092175.95 51.03 MW-5 PAV 122°07 65 2084206.17 6092176.55 50.96 MW-5 PUNCH 122°07 66 2084206.01 6092176.79 50.53 MW-5 NOTCH 37°42'27.55260 122°07 67 2084670.41 6092307.68 69.79 FD BM FAIR580 122°07	'21.42290''
63 2084007.68 6092290.40 44.74 MW-7 NOTCH 37°42'25.61150'' 122°07 64 2084206.49 6092175.95 51.03 MW-5 PAV 122°07 65 2084206.17 6092176.55 50.96 MW-5 PUNCH 122°07 66 2084206.01 6092176.79 50.53 MW-5 NOTCH 37°42'27.55260 122°07 67 2084670.41 6092307.68 69.79 FD BM FAIR580 122°07	'21.42290''
64 2084206.49 6092175.95 51.03 MW-5 PAV 122 01 65 2084206.17 6092176.55 50.96 MW-5 PUNCH 66 2084206.01 6092176.79 50.53 MW-5 NOTCH 37°42'27.55260 122°07 67 2084670.41 6092307.68 69.79 FD BM FAIR580 122°07	'21.42290''
65 2084206.17 6092176.55 50.96 MW-5 PUNCH 66 2084206.01 6092176.79 50.53 MW-5 NOTCH 37°42'27.55260 122°07 67 2084670.41 6092307.68 69.79 FD BM FAIR580	
65 2084206.17 6092176.55 50.96 MW-5 PUNCH 66 2084206.01 6092176.79 50.53 MW-5 NOTCH 37°42'27.55260 122°07 67 2084670.41 6092307.68 69.79 FD BM FAIR580 4 4	
67 2084670.41 6092307.68 69.79 FD BM FAIR580	
67 2084670.41 6092307.68 69.79 FD BM FAIR580	22.87930
68 2084443.65 6092198.88 53.70 MW-4 PAV	
69 2084444.39 6092199.72 53.74 MW-4 PUNCH	
70 2084444.59 6092199.51 53.31 MW-4 NOTCH 37°42'29.91496" 122°07	'22.64809"
71 2084399.10 6092145.43 54.37 MW-3 PAV	
72 2084399.78 6092145.28 54.33 MW-3 PUNCH	
73 2084400.15 6092145.27 53.91 MW-3 NOTCH 37°42'29.46636" 122°07	"23.31339"
74 2084329.47 6092199.72 54.82 MW-1 PAV	
75 2084330.44 6092199.45 54.79 MW-1 PUNCH	
76 2084330.75 6092199.20 54.46 MW-1 NOTCH 37°42'28.78955" 122°07	"22.62738"
77 2084367.59 6092256.38 52.88 MW-2 PAV	
78 2084368.15 6092256.14 52.92 MW-2 PUNCH	
79 2084368.53 6092256.06 52.41 MW-2 NOTCH 37°42'29.17277" 122°07	"21.92804"
	"28.23011"
CONTRACTOR AND STREET TO TANK STREET	
19132 ha	
COT CALLED	



ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW				Project No.:	2551
Casing Diameter:	4	inch			Address:	15101 Freedom Ave.
Depth of Well:	30	40 ft				San Leandro, CA
Top of Casing Elevation:	54,	46 ft			Date:	May 9, 2006
Depth to Groundwater:	21.	<u>ه ۶</u> ft			Sampler:	John Lohman
Groundwater Elevation:	_ 32.	<u>7\$</u> ft				Eric Jennings
Water Column Height:	S	7 2 ft				
Purged Volume:	15	gallons				
Purging Method: Sampling Method:	Baile Baile				Pump 🖄 Pump 🗆	
Sampling Metrica.	Dane	• • •				
Color:	No	<u>ک</u>	Yes		Describe	
Sheen:	No	Ľ K	Yes		Describe	
Odor:	No	尺	Yes	₽	Describe	· · ·

Field Measurements:

Time	Volume	D.O.	рН	Temp	E.C.	Turb.	ORP
PM	(gallons)	mg/L		°C	(µS/cm)	NTU	
156	STAR	T PU	R6E				
59	4	2.65	7.06	21.23	937	357	19
202	8	2.28	6.92	21.21	936	311	- 39
205	12	2.19	6.89	21.20	936	2.73	- 49
2*7	15	Z.10	6.88	21.18	937	252	-52
2°1	SAMP	LED					

Notes:



Well No.:	Ми	1-2		Project No.:	2551
Casing Diameter:	4	inch		Address:	15101 Freedom Ave.
Depth of Well:	30.	<u>⊰</u> ∿_ft			San Leandro, CA
Top of Casing Elevation:	52.	<u>4)</u> ft		Date:	May 9, 2006
Depth to Groundwater:	19.	<u>41</u> ft		Sampler:	John Lohman
Groundwater Elevation:	33	<u>.00</u> ft			Eric Jennings
Water Column Height:	0,9	<u> Տ Գ</u> ft			
Purged Volume:	lj_	, gallons			
Purging Method:	Baile	r 🗆		Pump 🕰	
r urging method.	Dane			i unip 🕰	
Sampling Method:	Baile	r 🗹		Pump 🗆	
Color:	No	¢	Yes	Describe	
Sheen:	No	A	Yes	Describe	
Odor:	No	R.	Yes	Describe	

Field Measurements:

Time PM	Volume (gallons)	D.O. mg/L	рН	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP
135-	STAR	t pho	2GE				
138	4	3.56	7.08	21.11	1310	230	67
141	8	2.82	b .99	21.06	950	327	16
l ⁴⁴	12	2.26	6.95	21.02	1050	271	-12
46	16	2.18	6.95	21.02	1080	261	-13
48	SAMP	LED					



Well No.:	Mw-3	_		Project No.:	2551
Casing Diameter:	4	inch		Address:	15101 Freedom Ave.
Depth of Well:	30.0D	_ft			San Leandro, CA
Top of Casing Elevation:	53.91	_ft		Date:	May 9, 2006
Depth to Groundwater:	21.09	_ft		Sampler:	John Lohman
Groundwater Elevation:	32.82	_ft			Eric Jennings
Water Column Height:	3.9	_ft			
Purged Volume:	12	gallons			
	.			. .	
Purging Method:	Bailer 🗆			Pump 🖾	
Sampling Method:	Bailer 🖄			Pump 🗆	
Color:	No ¤(Yes	Describe	
Sheen:	No 🗷		Yes	Describe	
Odor:	No 风		Yes	Describe	

Field Measurements:

Time	Volume	D.O.	рН	Temp	E.C.	Turb.	ORP
PM	(gallons)	mg/L		°C	(µS/cm)	NTU	
220	STAR	TP	AR GE				
222	*	3.00	6.95	21.66	1390	316	25
224	b	2.60	6.82	21.05	1360	274	-11
226	٩	2.20	6.76	21.64	1360	251	- 33
228	12	2.22	6.73	21.64	1390	235	-46
230	SAM	PLF D					



Well No.:	MW-4		Project No.: 2551
Casing Diameter:	4inch		Address: 15101 Freedom Ave.
Depth of Well:	<u> </u>		San Leandro, CA
Top of Casing Elevation:	<u>53.31</u> ft		Date: May 9, 2006
Depth to Groundwater:	<u> 20.33 </u> ft		Sampler: John Lohman
Groundwater Elevation:	32.98 ft		Eric Jennings
Water Column Height:	<u> </u>		
Purged Volume:	<u>b</u> gallons		
Purging Method:	Bailer 🗆		Pump ಥ
Sampling Method:	Bailer 🕰		Pump 🗆
Color:	No 🖄	Yes 🗆	Describe
Sheen:	No 🔍	Yes 🗆	Describe
Odor:	No 🗇	Yes ⊡≮	Describe Grium

Field Measurements:

Time	Volume	D.O.	рН	Temp	E.C.	Turb.	ORP
PM	(gallons)	mg/L		°C	(µS/cm)	NTU	
300	ST AG	RT P	NR GE	111			
503	7	z.68	6.88	20.67	1490	232	l
306	8	2.24	6.81	20.62	530	217	- 23
308	12 .	2,22	b.B	20.59	1590	230	-35
312	16	1.93	4.78	Z0 60	lbou	217	- 37
314	SAM	PLSD					



Well No.:	MW-5	Project No.: 2551
Casing Diameter:	inch	Address: 15101 Freedom Ave.
Depth of Well:	<u>29.35</u> ft	San Leandro, CA
Top of Casing Elevation:	<u> </u>	Date: May 9, 2006
Depth to Groundwater:	17.54ft	Sampler: John Lohman
Groundwater Elevation:	<u>32,99</u> ft	Eric Jennings
Water Column Height:	<u> </u>	
Purged Volume:		
Purging Method:	Bailer 🗆	Pump 🕂
Sampling Method:	Bailer 🛛	Pump
Color:	No 🗷	Yes 🗆 Describe
Sheen:	No 🔍	Yes 🗆 Describe
Odor:	No 🗆	Yes AD Describe Stinkt

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	рН	Temp °C	E.C. (μS/cm)	Turb. NTU	ORP
2 40	STAR	RUPEDA					
2.43	4	2.90	6.85	21,26	1370	337	1
246	8	2.82	6.81	21.35	1370	269	- 33
241	12	196	6.79	2131	1360	252	- 50
251	15	1.88	6.79	2131	1360	298	-56
253	SAM	PLED					



Weil No.:	MW	-6		Project No.:	2551
Casing Diameter:	4	inch		Address:	15101 Freedom Ave.
Depth of Well:	27.	<u>40 ft</u>			San Leandro, CA
Top of Casing Elevation:	45,	<u>82</u> ft		Date:	May 9, 2006
Depth to Groundwater:	13.	<u>95</u> ft		Sampler:	John Lohman
Groundwater Elevation:	31.	<u>87</u> ft			Eric Jennings
Water Column Height:	3.	<u>95</u> ft			
Purged Volume:		gallons			
Purging Method:	Baile	r 🗆		Pump 🛱	
Sampling Method:	Baile	r⊠;		Pump 🗆	
Color:	No		Yes	Describe	
Sheen:	No	Щ.	Yes	Describe	
Odor:	No	Ŕ	Yes	Describe	

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	рН	Temp °C	E.C. (μS/cm)	Turb. NTU	ORP
1221	STAR:	t ph	R6E				
12 24	4	197	7.H	20.59	915	333	97
12 27	°€	1.74	1/98	20.56	913	273	67
1229	11	1.58	b.92	20.58	11	217	34
12 31	14	1.52	6.90	20.59	915	198	12
12 33	17	1.59	6.90	20.60	914	223	Z
1235	SAN	h PLED					



Well No.:	<u>M</u> M	1-7		Project No.:	2551
Casing Diameter:	2	inch		Address:	15101 Freedom Ave.
Depth of Well:	21.1	<u>00</u> ft			San Leandro, CA
Top of Casing Elevation:	<u>니니.</u> -	<u>74</u> ft		Date:	May 9, 2006
Depth to Groundwater:	12.0	<u>ייft</u>		Sampler:	John Lohman
Groundwater Elevation:	32	<u>72_</u> ft			Eric Jennings
Water Column Height:	ξ.9	<u> </u>			
Purged Volume:	12	gallons			
Purging Method:	Baile	r 🗆		Pump 🖄	
Sampling Method:	Baile	r 🛱		Pump 🗆	
Color:	No	赵	Yes	Describe	
Sheen:	No	Ъ	Yes	Describe	
Odor:	No	R	Yes	Describe	

Field Measurements:

Time	Volume	Volume D.O.		Temp	E.C.	Turb.	ORP
	(gallons)	mg/L		°C	(µS/cm)	NTU	
1244	STF	RT8	1R6E	~			
12 ⁴⁶	3	2.74	6.58	18.44	1260	436	66
12.45	Ь	2,22	6.78	18.37	1250	331	46
1250	9	2.03	6.74	18.39	1250	294 	٥۴
1252	12	1.90	6.71	18.38	1250	247	M
1254	SA	MPLED					



Well No.:	MW	- ?		F	Project No.:	2551
Casing Diameter:	2	inch			Address:	15101 Freedom Ave.
Depth of Well:	28.7	<u>'5</u> ft				San Leandro, CA
Top of Casing Elevation:	41.1	<u>4</u> ft			Date:	May 9, 2006
Depth to Groundwater:	9.9	٥ ft			Sampler:	John Lohman
Groundwater Elevation:	31.7	<u>2</u> 4 ft				Eric Jennings
Water Column Height:	18.8	5_ft				
Purged Volume:	9	gallons				
Purging Method:	Bailer				Pump 🗹	
Sampling Method:	Bailer	μ μ			Pump 🗆	
Color:	No		Yes	⊠∕	Describe	411-1
Sheen:	No	¤₹	Yes		Describe	
Odor:	No	в	Yes		Describe	

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	рН	Temp °C	E.C. (μS/cm)	Turb. NTU	ORP
1150	ST KAR	T PL	IR6E				
1152	3	11.29	6.75	19.92	1450	999	135
11 54	6	9.94	6.80	19.92	1450	463	130
11 56	9	9.90	6.84	19.91	1450	2.79	128
58	SAN	uple D					



Well No.:	MW-9	Project No.: 2551	
Casing Diameter:	inch	Address: 15101 Freedom Ave.	
Depth of Well:	32.60 ft	San Leandro, CA	
Top of Casing Elevation:	<u>40.26</u> ft	Date: May 9, 2006	
Depth to Groundwater:	<u>4.06</u> ft	Sampler: John Lohman	
Groundwater Elevation:	<u>31.20</u> ft	Eric Jennings	
Water Column Height:	<u>23,54</u> ft		
Purged Volume:	gallons		
Purging Method:	Bailer □ Bailer □	Pump 🖾	
Sampling Method:	Bailer 🛒	Pump 🗆	
Color: Sheen:	No ⊄	Yes 🗆 Describe	
Sheen:	No 🖳	Yes 🗆 Describe	—
Odor:	No R	Yes 🗆 Describe	

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	рН	Temp °C	E.C. (μS/cm)	Turb. NTU	ORP
1206	STAR	TPUR	GE				
12.08	3	6.83	7.12	19.90	40	310	122
12 10	ю	5.43	7.14	19.78	170	270	123
1212	9	2.34	7.12	19.79	1160	999	123
1214	SAN	1 R.≇D					

Appendix C

Laboratory Report and Chain of Custody Form for the Second Quarter 2006 Monitoring Event

CHAIN OF CUSTODY FORM

PAL

Login# 6050004



PAL Pacific Analytical Laboratory 851 West Midway Ave., Suite 201B Alameda, CA 94501 510-864-0364 Telephone 510-864-0365 Fax

Analyses/Method Sampler: John Lohman / Eric Jennings Project No: 2551 TPH-g, BTEX, MtBE Gasoline Oxygenates & Lead Scavengers Report To: Tony Perini Project Name: 15101 Freedom Avenue San Leandro Company: SOMA Environmental Engineering, Inc. Turnaround Time: Standard 925-244-6600 Tel: Fax: 925-244-6601 # of Preservatives Sampling Date/Time Matrix Containers Water Waste H₂So4 Lab Sample ID Date Time Soil HNO3 HCL ICE Field Notes No. X Grab Sample MW-1 5/9/06 2:09 х 4 VOAs х X X Х Grab Sample X MW-2 5/9/06 1.48 X 4 VOAs X Х Grab Sample 2:30 Х 4 VOAs Х X MW-3 5/9/06 х Х Grab Sample Х 4 VOAs Х X X X 5/9/06 MW-4 8114 7.53 Х 4 VOAs Х X Grab Sample Х Х MW-5 5/9/06 4 VOAs Х Grab Sample X X MW-6 5/9/06 12:35 Х X 17:54 X Х X 4 VOAs X Grab Sample 5/9/06 Х MW-7 Х 4 VOAs X Х Grab Sample Х X MW-8 5/9/06 11:54 X X X Х 4 VOAs Grab Sample Х MW-9 5/9/06 12:14 Relinguished by: Date/Time: Received by: Date/Time: Sampler Remarks: 5/9/00 15m MAT 9, 2006 / 45 pm Fren Francing James EDF REQUIRED Ethanol



19 May 2006

Mansour Sepehr SOMA Environmental Engineering Inc. 6620 Owens Drive, Suite A Pleasanton, CA 94588

RE: 15101 Freedom Ave., San Leandro

Work Order Number: 6050004

This Laboratory report has been reviewed for technical correctness and completeness. This entire report was reviewed and approved by the Laboratory Director or the Director's designee, as verified by the following signature.

Sincerely,

Mapd Ach

Maiid Akhavan Laboratorv Director



Project: 15101 Freedom Ave., San Leandro Project Number: 2551 Project Manager: Mansour Sepehr

Reported: 19-May-06 13:25

ANALYTICAL REPORT FOR SAMPLES

		M / 1		
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6050004-01	Water	09-May-06 14:09	09-May-06 16:16
MW-2	6050004-02	Water	09-May-06 13:48	09-May-06 16:16
MW-3	6050004-03	Water	09-May-06 14:30	09-May-06 16:16
MW-4	6050004-04	Water	09-May-06 15:14	09-May-06 16:16
MW-5	6050004-05	Water	09-May-06 14:53	09-May-06 16:16
MW-6	6050004-06	Water	09-May-06 12:35	09-May-06 16:16
MW-7	6050004-07	Water	09-May-06 12:54	09-May-06 16:16
MW-8	6050004-08	Water	09-May-06 11:58	09-May-06 16:16
MW-9	6050004-09	Water	09-May-06 12:14	09-May-06 16:16

Pacific Analytical Laboratory



Project: 15101 Freedom Ave., San Leandro Project Number: 2551 Project Manager: Mansour Sepehr

Reported: 19-May-06 13:25

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6050004-01) Water Sampled: 09-	-May-06 14:09 Rec	eived: 09-May-	-06 16:16						
Gasoline (C6-C12)	444	50.0	ug/l	1	BE61501	09-May-06	10-May-06	EPA 8260B	
Benzene	7.80	0.500		"		"	"	"	
Ethylbenzene	12.1	0.500		"		"	"	"	
m&p-Xylene	4.58	1.00		"				"	
o-xylene	1.73	0.500		"		"	"	"	
Toluene	ND	2.00	"	"	"			"	
MTBE	1.75	0.500	"	"	"			"	
DIPE	ND	0.500	"	"	"			"	
ETBE	ND	0.500	"	"	"			"	
TAME	ND	2.00	"	"	"			"	
TBA	ND	10.0	"	"	"			"	
1,2-dichloroethane	0.510	0.500	"	"	"			"	
1,2-Dibromoethane (EDB)	ND	0.500	"	"	"			"	
Ethanol	ND	1000		"		"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	70-	130	"	"	"	"	
Surrogate: Dibromofluoromethane		90.2 %	70-	130	"	"	"	"	
Surrogate: Perdeuterotoluene		101 %	70-	130	"	"	"	"	
MW-2 (6050004-02) Water Sampled: 09-	-May-06 13:48 Rec	eived: 09-May-	•06 16:16						
Gasoline (C6-C12)	1100	50.0	ug/l	1	BE61501	09-May-06	10-May-06	EPA 8260B	
Benzene	ND	0.500	"	"	"			"	
Ethylbenzene	86.5	0.500	"	"	"			"	
m&p-Xylene	17.0	1.00	"	"	"			"	
o-xylene	ND	0.500	"	"	"			"	
Toluene	ND	2.00	"	"	"			"	
MTBE	ND	0.500	"	"	"			"	
DIPE	ND	0.500	"	"	"			"	
ETBE	ND	0.500		"	"	"	"		
TAME	ND	2.00		"	"	"	"		
TBA	ND	10.0	"	"	"	"	"	"	
	ND	0.500	"	"	"	"	"	"	
1,2-dichloroethane						"		"	
	ND	0.500	"	"					
1,2-dichloroethane 1,2-Dibromoethane (EDB) Ethanol	ND ND	0.500 1000	"				"	"	

Pacific Analytical Laboratory



Project Number: 2551 Project Manager: Mansour Sepehr

Project: 15101 Freedom Ave., San Leandro

Reported: 19-May-06 13:25

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

			-		-				
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (6050004-02) Water Sampled	l: 09-May-06 13:48 Rece	eived: 09-May-	06 16:16						
Surrogate: Dibromofluoromethane		95.4 %	70-	130	BE61501	09-May-06	10-May-06	EPA 8260B	
Surrogate: Perdeuterotoluene		107 %	70-	130	"	"	"	"	
MW-3 (6050004-03RE1) Water San	npled: 09-May-06 14:30	Received: 09-N	May-06 10	6:16					
Gasoline (C6-C12)	48100	1080	ug/l	21.5	BE61501	09-May-06	12-May-06	EPA 8260B	
Benzene	2510	10.8	"	"	"	"		"	
Ethylbenzene	1950	10.8	"	"	"	"		"	
m&p-Xylene	2950	21.5	"	"	"	"		"	
o-xylene	2080	10.8	"	"	"	"		"	
Toluene	1140	43.0	"	"	"	"		"	
MTBE	2210	10.8	"	"	"	"		"	
DIPE	ND	10.8	"	"	"	"		"	
ETBE	ND	10.8	"	"	"	"		"	
TAME	594	43.0	"	"	"	"		"	
TBA	367	215	"	"	"	"		"	
1,2-dichloroethane	ND	10.8	"	"	"	"		"	
1,2-Dibromoethane (EDB)	ND	10.8	"	"	"	"		"	
Ethanol	ND	21500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		115 %	70-	130	"	"	"	"	
Surrogate: Dibromofluoromethane		88.8 %	70-	130	"	"	"	"	
Surrogate: Perdeuterotoluene		99.4 %	70-	130	"	"	"	"	

MW-4 (6050004-04RE1) Water Sampled: 09-May-06 15:14 Received: 09-May-06 16:16

Gasoline (C6-C12)	1290	215	ug/l	4.3	BE61501	09-May-06	12-May-06	EPA 8260B
Benzene	18.1	2.15	"	"	"	"	"	"
Ethylbenzene	12.9	2.15	"	"	"	"	"	"
m&p-Xylene	19.5	4.30	"	"	"	"	"	"
o-xylene	6.37	2.15	"	"	"	"	"	"
Toluene	ND	8.60	"	"	"	"	"	"
MTBE	799	2.15	"	"	"	"	"	"
DIPE	ND	2.15	"	"	"	"	"	"
ETBE	2.95	2.15	"	"	"	"	"	"
TAME	31.3	8.60	"	"	"	"	"	"
TBA	405	43.0	"	"	"	"	"	"
1,2-dichloroethane	ND	2.15	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	2.15	"	"	"	"	"	"
Ethanol	ND	4300	"	"	"	"	"	"

Pacific Analytical Laboratory



Project Number: 2551 Project Manager: Mansour Sepehr

Project: 15101 Freedom Ave., San Leandro

Reported: 19-May-06 13:25

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (6050004-04RE1) Water Sampled: 09-	May-06 15:14 R	eceived: 09-l	May-06 16	:16					
Surrogate: 4-Bromofluorobenzene		109 %	70-1	130	BE61501	09-May-06	12-May-06	EPA 8260B	
Surrogate: Dibromofluoromethane		90.4 %	70-1	130	"	"	"	"	
Surrogate: Perdeuterotoluene		103 %	70-1	130	"	"	"	"	

MW-5 (6050004-05RE1) Water Sampled: 09-May-06 14:53 Received: 09-May-06 16:16

(, , I	·		•						
Gasoline (C6-C12)	8360	215	ug/l	4.3	BE61501	09-May-06	12-May-06	EPA 8260B	
Benzene	111	2.15	"	"	"	"		"	
Ethylbenzene	300	2.15	"	"	"	"		"	
m&p-Xylene	69.5	4.30	"	"	"	"		"	
o-xylene	6.34	2.15	"	"	"	"		"	
Toluene	ND	8.60	"	"	"	"		"	
MTBE	566	2.15	"	"	"	"		"	
DIPE	ND	2.15	"	"	"	"		"	
ETBE	ND	2.15	"	"	"	"		"	
TAME	163	8.60	"	"	"	"		"	
TBA	91.8	43.0	"	"	"	"		"	
1,2-dichloroethane	ND	2.15	"	"	"	"		"	
1,2-Dibromoethane (EDB)	ND	2.15	"	"	"	"		"	
Ethanol	ND	4300	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		116 %	70-	130	"	"	"	"	
Surrogate: Dibromofluoromethane		91.4 %	70-	130	"	"	"	"	
Surrogate: Perdeuterotoluene		98.6 %	70-	130	"	"	"	"	

MW-6 (6050004-06) Water Sampled: 09-May-06 12:35 Received: 09-May-06 16:16

Gasoline (C6-C12)	3730	50.0	ug/l	1	BE61501	09-May-06	10-May-06	EPA 8260B
Benzene	25.0	0.500	"	"	"	"	"	"
Ethylbenzene	213	0.500	"	"	"	"	"	"
m&p-Xylene	202	1.00	"	"	"		"	"
o-xylene	5.82	0.500	"	"	"		"	"
Toluene	ND	2.00	"	"	"	"	"	"
MTBE	5.87	0.500	"	"	"	"	"	"
DIPE	ND	0.500	"	"	"	"	"	"
ETBE	ND	0.500	"	"	"	"	"	"
TAME	ND	2.00	"	"	"	"	"	"
TBA	ND	10.0	"	"	"	"	"	"
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.500	"	"	"		"	"

Pacific Analytical Laboratory



Project Number: 2551 Project Manager: Mansour Sepehr

Reported: 19-May-06 13:25

Volatile Organic Compounds by EPA Method 8260B

Project: 15101 Freedom Ave., San Leandro

Pacific Analytical Laboratory

			-						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (6050004-06) Water Sampled: 09-M	1ay-06 12:35 Rece	eived: 09-May	-06 16:16						
Ethanol	ND	1000	ug/l	1	BE61501	09-May-06	10-May-06	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		111 %	70-1.	30	"	"	"	"	
Surrogate: Dibromofluoromethane		92.0 %	70-1.	30	"	"	"	"	
Surrogate: Perdeuterotoluene		99.6 %	70-1.	30	"	"	"	"	

MW-7 (6050004-07) Water Sampled: 09-May-06 12:54 Received: 09-May-06 16:16

Gasoline (C6-C12)	1400	50.0	ug/l	1	BE61501	09-May-06	11-May-06	EPA 8260B
Benzene	ND	0.500	"	"	"	"	"	"
Ethylbenzene	19.8	0.500	"	"	"	"	"	"
m&p-Xylene	12.4	1.00	"	"	"	"	"	"
o-xylene	ND	0.500	"	"	"	"	"	"
Toluene	ND	2.00	"	"	"	"	"	"
MTBE	2.30	0.500	"	"	"	"	"	"
DIPE	ND	0.500	"	"	"	"	"	"
ETBE	ND	0.500	"	"	"	"	"	"
TAME	ND	2.00	"	"	"	"	"	"
TBA	ND	10.0	"	"	"	"	"	"
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"
1,2-Dibromoethane (EDB)	ND	0.500	"	"	"	"	"	"
Ethanol	ND	1000	"		"	"	"	"
Surrogate: 4-Bromofluorobenzene		110 %	70-	130	"	"	"	"
Surrogate: Dibromofluoromethane		84.4 %	70-	130	"	"	"	"
Surrogate: Perdeuterotoluene		102 %	70-	130	"	"	"	"

MW-8 (6050004-08) Water Sampled: 09-May-06 11:58 Received: 09-May-06 16:16

Gasoline (C6-C12)	ND	50.0	ug/l	1	BE61501	09-May-06	11-May-06	EPA 8260B	
Benzene	ND	0.500	"	"	"			"	
Ethylbenzene	ND	0.500	"	"	"	"		"	
m&p-Xylene	ND	1.00	"	"	"	"		"	
o-xylene	ND	0.500	"	"	"	"		"	
Toluene	ND	2.00	"	"	"	"		"	
MTBE	ND	0.500	"	"	"	"		"	
DIPE	ND	0.500	"	"	"	"		"	
ETBE	ND	0.500	"	"	"	"		"	
TAME	ND	2.00	"	"	"			"	
TBA	ND	10.0	"	"	"	"	"	"	
1,2-dichloroethane	ND	0.500	"	"	"	"	"	"	

Pacific Analytical Laboratory



SOMA Environmental Engineering Inc. 6620 Owens Drive, Suite A

Pleasanton CA, 94588

Project Number: 2551 Project Manager: Mansour Sepehr

Project: 15101 Freedom Ave., San Leandro

Reported: 19-May-06 13:25

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
MW-8 (6050004-08) Water Sampled: 09-May-06 11:58 Received: 09-May-06 16:16											
1,2-Dibromoethane (EDB)	ND	0.500	ug/l	1	BE61501	09-May-06	11-May-06	EPA 8260B			
Ethanol	ND	1000	"	"	"	"	"				
Surrogate: 4-Bromofluorobenzene		102 %	70-	130	"	"	"	"			
Surrogate: Dibromofluoromethane		89.2 %	70-	130	"	"	"	"			
Surrogate: Perdeuterotoluene		101 %	70-	130	"	"	"	"			

MW-9 (6050004-09) Water Sampled: 09-May-06 12:14 Received: 09-May-06 16:16

Gasoline (C6-C12)	ND	50.0	ug/l	1	BE61501	09-May-06	11-May-06	EPA 8260B	
Benzene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"		"	
m&p-Xylene	ND	1.00	"	"	"	"		"	
o-xylene	ND	0.500	"	"	"	"		"	
Toluene	ND	2.00	"	"	"	"		"	
MTBE	ND	0.500	"	"	"	"		"	
DIPE	ND	0.500	"	"	"	"		"	
ETBE	ND	0.500	"	"	"	"		"	
TAME	ND	2.00	"	"	"	"		"	
TBA	ND	10.0	"	"	"	"		"	
1,2-dichloroethane	2.80	0.500	"	"	"	"		"	
1,2-Dibromoethane (EDB)	ND	0.500	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	70-	130	"	"	"	"	
Surrogate: Dibromofluoromethane		89.0 %	70-	130	"	"	"	"	
Surrogate: Perdeuterotoluene		101 %	70-	130	"	"	"	"	



SOMA Environmental Engineering Inc.	Project:	15101 Freedom Ave., San Leandro	
6620 Owens Drive, Suite A	Project Number:	2551	Reported:
Pleasanton CA, 94588	Project Manager:	Mansour Sepehr	19-May-06 13:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BE61501 - EPA 5030 Water MS										
Blank (BE61501-BLK1)				Prepared &	k Analyzed:	15-May-06	6			
Surrogate: 4-Bromofluorobenzene	50.8		ug/l	50.0		102	70-130			
Surrogate: Dibromofluoromethane	45.2		"	50.0		90.4	70-130			
Surrogate: Perdeuterotoluene	51.0		"	50.0		102	70-130			
MTBE	ND	0.500	"							
DIPE	ND	0.500	"							
ETBE	ND	0.500	"							
TAME	ND	2.00	"							
Gasoline (C6-C12)	ND	50.0	"							
TBA	ND	10.0	"							
1,2-dichloroethane	ND	0.500	"							
1,2-Dibromoethane (EDB)	ND	0.500	"							
Ethanol	ND	1000	"							
Benzene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
m&p-Xylene	ND	1.00	"							
o-xylene	ND	0.500	"							
Toluene	ND	2.00	"							
LCS (BE61501-BS1)				Prepared &	k Analyzed:	15-May-06	5			
Surrogate: 4-Bromofluorobenzene	54.4		ug/l	50.0		109	70-130			
Surrogate: Dibromofluoromethane	43.7		"	50.0		87.4	70-130			
Surrogate: Perdeuterotoluene	48.2		"	50.0		96.4	70-130			
MTBE	74.0	0.500	"	100		74.0	70-130			
ETBE	85.5	0.500	"	100		85.5	70-130			
TAME	91.5	2.00	"	100		91.5	70-130			
Gasoline (C6-C12)	2160	50.0	"	2000		108	70-130			
TBA	507	10.0	"	500		101	70-130			
Benzene	110	0.500	"	100		110	70-130			
Toluene	120	2.00	"	100		120	70-130			



SOMA Environmental Engineering Inc.Project:15101 Freedom Ave., San Leandro6620 Owens Drive, Suite AProject Number:2551Reported:Pleasanton CA, 94588Project Manager:Mansour Sepehr19-May-06 13:25

Volatile Organic Compounds by EPA Method 8260B - Quality Control

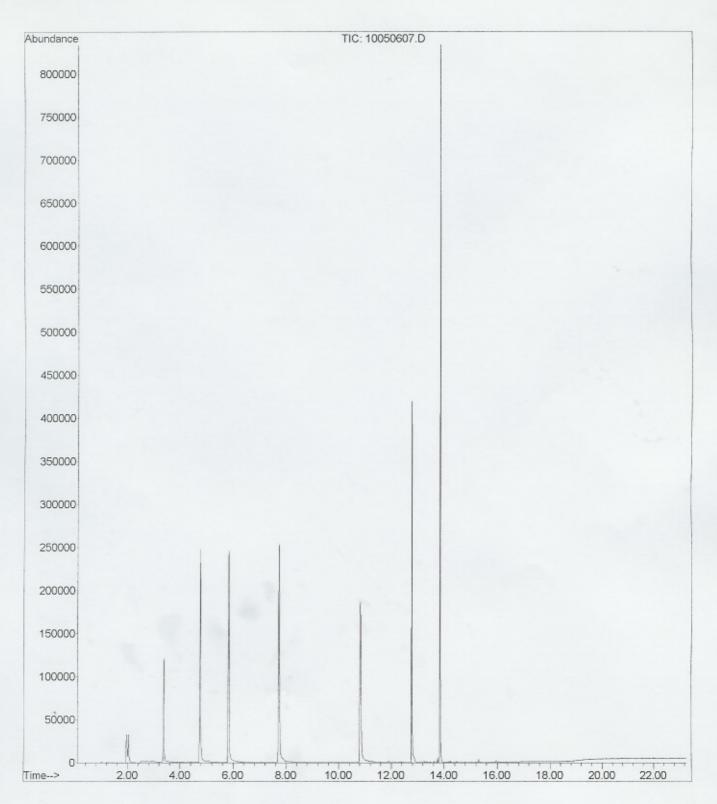
Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BE61501 - EPA 5030 Water MS										
LCS Dup (BE61501-BSD1)				Prepared &	Analyzed:	15-May-0	6			
Surrogate: 4-Bromofluorobenzene	53.1		ug/l	50.0		106	70-130			
Surrogate: Dibromofluoromethane	44.6		"	50.0		89.2	70-130			
Surrogate: Perdeuterotoluene	48.9		"	50.0		97.8	70-130			
MTBE	78.4	0.500	"	100		78.4	70-130	5.77	20	
ETBE	88.5	0.500	"	100		88.5	70-130	3.45	20	
TAME	95.4	2.00	"	100		95.4	70-130	4.17	20	
TBA	533	10.0	"	500		107	70-130	5.00	20	
Gasoline (C6-C12)	1720	50.0	"	2000		86.0	70-130	22.7	20	QR-0
Benzene	115	0.500	"	100		115	70-130	4.44	20	
Toluene	123	2.00		100		123	70-130	2.47	20	



SOMA Environmental Engineering Inc. 6620 Owens Drive, Suite A Pleasanton CA, 94588		Project: 15101 Freedom Ave., San Leandro Project Number: 2551 Project Manager: Mansour Sepehr	Reported: 19-May-06 13:25						
		Notes and Definitions							
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.								
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								

```
File :C:\MSDChem\1\DATA\2006-May-10-0946.b\10050607.D
Operator :
Acquired : 10 May 2006 2:38 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BE61501-BLK1
Misc Info :
Vial Number: 7
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File :C:\MSDChem\l\DATA\2006-May-10-0946.b\10050610.D
Operator :
Acquired : 10 May 2006 5:27 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BE61501-BS1@voc
Misc Info :
Vial Number: 10
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File :C:\MSDChem\1\DATA\2006-May-10-0946.b\10050606.D
Operator :
Acquired : 10 May 2006 1:49 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BE61501-BS1@gas
Misc Info :
Vial Number: 6
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