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ENVIRONMENTAL ENGINEERING, INC

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November 29, 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

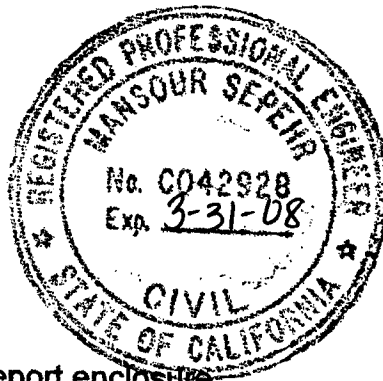
Dear Mr. Plunkett:

SOMA's "Fourth 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
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**FOURTH QUARTER 2006
GROUNDWATER MONITORING REPORT
TEXACO GASOLINE SERVICE STATION
15101 FREEDOM AVENUE
SAN LEANDRO, CALIFORNIA**

November 29, 2006

Project 2551

Prepared for

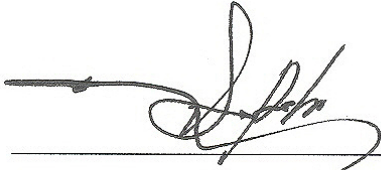
**Mr. Mohammad Pazdel
1770 Pistacia Court
Fairfield, California**

Prepared by

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

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 Fourth Quarter 2006 groundwater monitoring event.



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



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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 Fourth Quarter 2006 groundwater monitoring event conducted at the Site on October 26, 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 underground storage tanks (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 October 26, 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 10.81 feet in well MW-9 to 23.19 feet in well MW-1. The corresponding groundwater elevations ranged from 29.45 feet in well MW-9 to 31.27 feet in well MW-1.

Figure 3 displays the contour map of groundwater elevations. The groundwater flow direction is south to southwesterly across the Site, at a gradient of 0.0035 feet/feet. The groundwater gradient and flow direction are consistent with the previous monitoring event.

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 1,200 ug/L in well MW-2 to 33,400 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 is in the vicinity of the dispenser islands and former USTs, around well MW-3.

The following BTEX concentrations were observed during this monitoring event.

- 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 well MW-8, all BTEX analytes were below the laboratory reporting limit, with the exception of ethylbenzene (3.37 ug/L).
- In well MW-9, all BTEX analytes were below the laboratory reporting limit.
- The most impacted BTEX sample was collected from well MW-3. The groundwater BTEX concentrations in this well were detected at 4,800 ug/L, 331 ug/L, 1,170 ug/L, and 3,510 ug/L, respectively.

Figure 5 displays a contour map of benzene concentrations in the groundwater. The most impacted benzene region is 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. Benzene appears to have only minimally impacted off-site well MW-6 and was non-detectable in the remaining off-site wells.

Low levels or non-detectable levels of MtBE were observed in all site wells with the exception of wells MW-3 to MW-5. Detectable MtBE concentrations ranged from 0.60 ug/L in well MW-2 to 4,790 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 1 shows the detailed historical concentration trends for all site wells. In well MW-3, all TPH-g, toluene, ethylbenzene, and total xylenes analytes decreased and only slight increased benzene and MtBE concentrations were observed since the previous (Third Quarter 2006) monitoring event.

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), and ethanol constituents were below the laboratory reporting limit in all of the groundwater samples collected during this monitoring event. Ethyl tertiary Butyl Ether (EtBE) was detected at 13.8 ug/L in well MW-4, and was non-detectable in the remaining site wells. 1,2-Dichloroethane (1,2-DCA) was only detected in the groundwater samples collected from wells MW-1 and MW-9, at 2.92 ug/L and 3.07 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-1, MW-3, MW-4, and MW-5 at 39.4 ug/L, 591 ug/L, 3,430 ug/L, and 322 ug/L, respectively. Figure 7 displays the contour map of TBA

concentrations in the groundwater. The most impacted TBA region is in the vicinity of the dispenser islands around well MW-4. The TBA concentration detected in well MW-4 was several orders of magnitude higher than the remaining site wells. TBA appears to have only minimally impacted on-site wells MW-1, MW-3, and MW-5.

Methyl tert-Amyl Ether (TAME) was only detected in wells MW-3 and MW-5 at 899 ug/L and 712 ug/L, respectively. Figure 8 displays the contour map of TAME concentrations in the groundwater. TAME has not migrated to any off-site wells or to the western section of the Site.

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 Fourth 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.
- 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. However, in well MW-3, TPH-g and several BTEX analytes decreased since the Third Quarter 2006.
- 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 centrally located in the vicinity of well MW-4.
- Based on the quarterly groundwater monitoring results, in general, all BTEX, MtBE and gasoline oxygenates have remained at low or non-detectable 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 program to better understand the seasonal variations in the groundwater quality conditions.

- Recently SOMA conducted an extensive site investigation in order to prepare a site conceptual model (SCM). The results of this investigation were submitted to the ACHCS on November 22, 2006. Based on the recommendations of the SCM, soil and groundwater remediation is warranted.

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

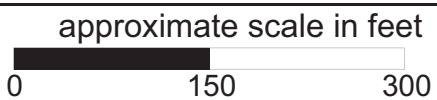
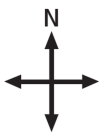
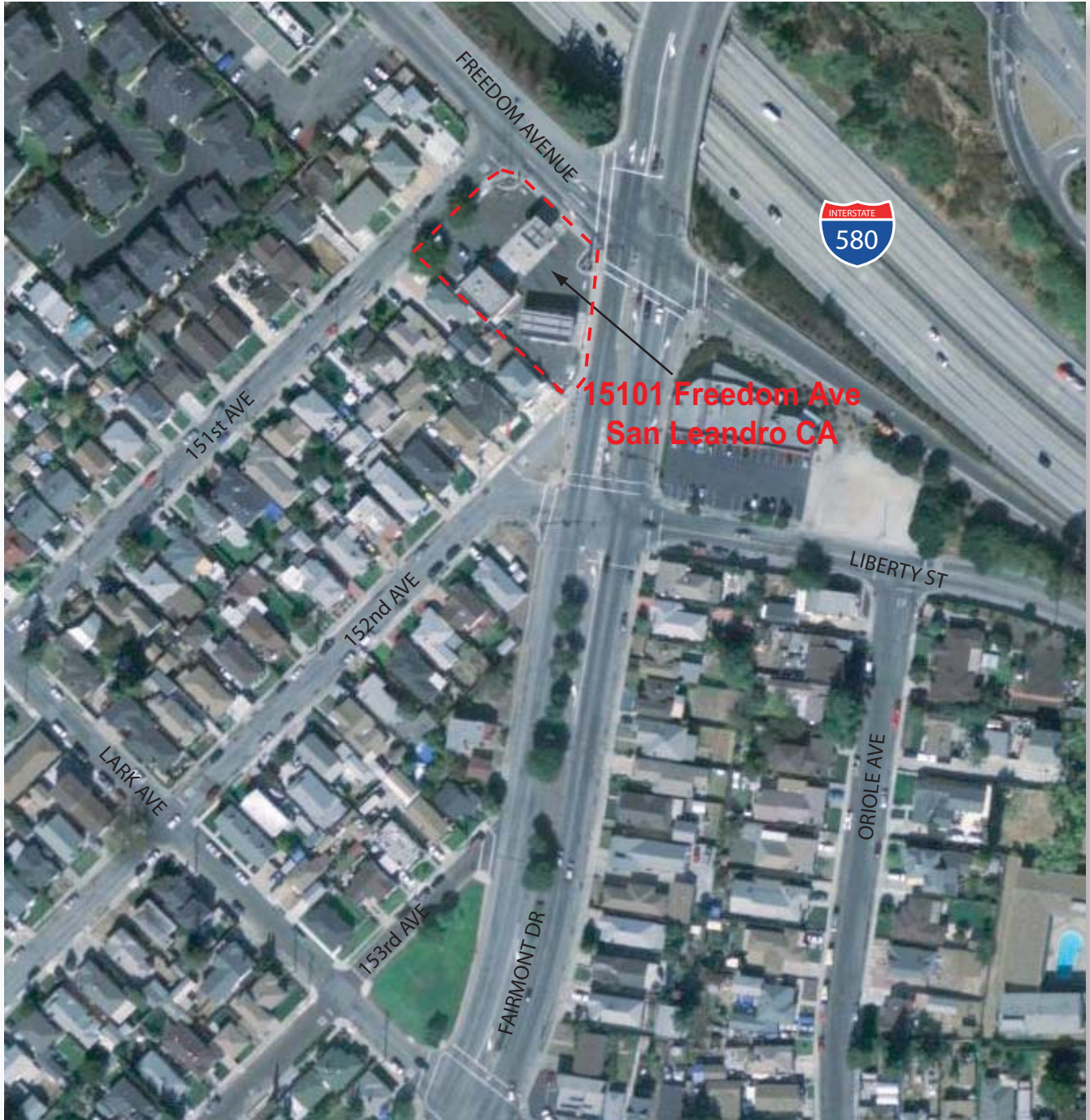


Figure 1: Site vicinity map.

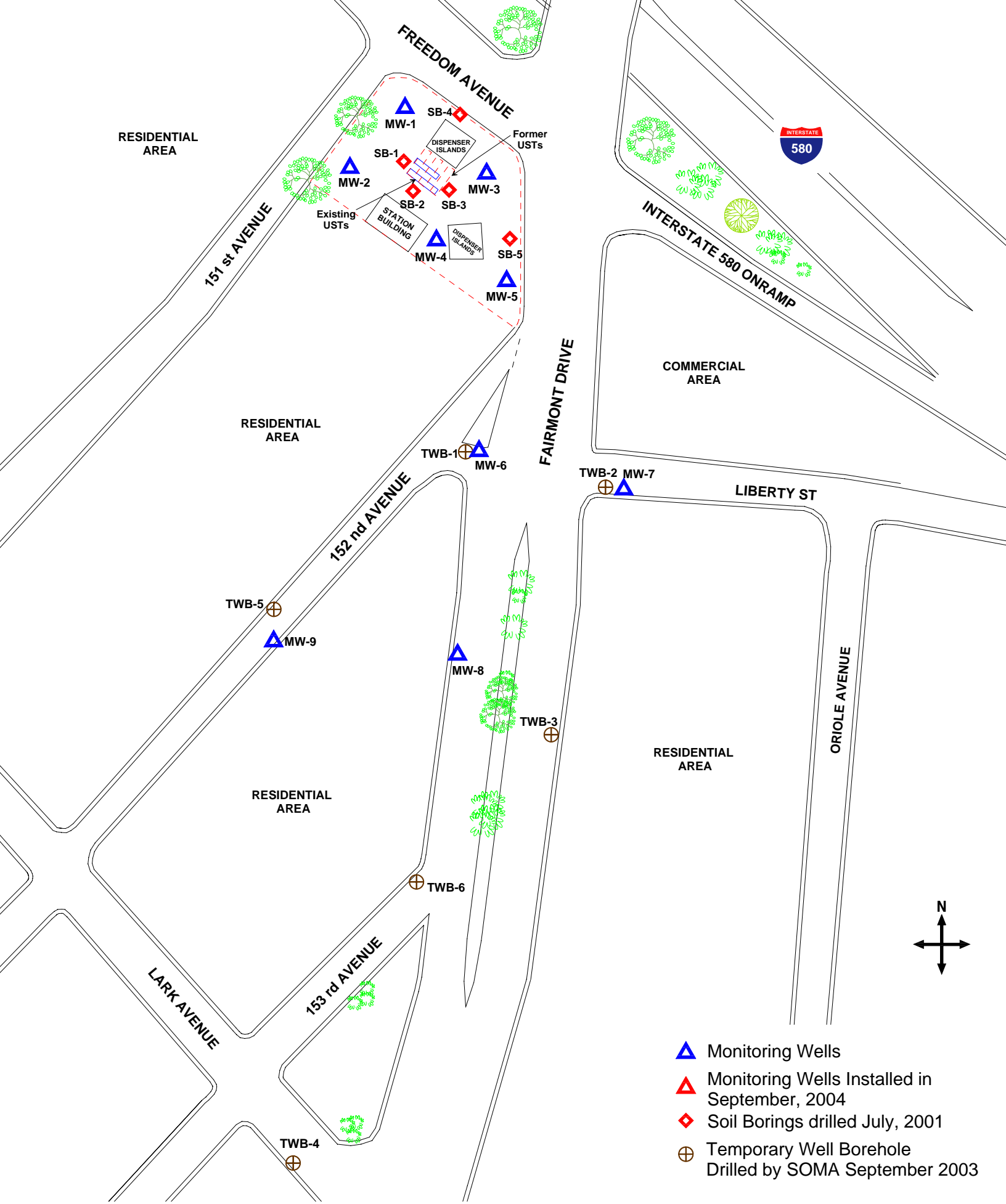
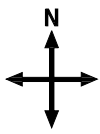


Figure 2: Site map showing locations of groundwater monitoring wells and soil borings.



RESIDENTIAL AREA

FREEDOM AVENUE



151 st AVENUE

MW-1
31.27

MW-2
31.19

MW-3
31.18

Existing USTs

MW-4
31.02

MW-5
30.92

30.6

30.2

RESIDENTIAL AREA

29.8

MW-6
29.71

FAIRMONT DRIVE

COMMERCIAL AREA

INTERSTATE 580 ONRAMP

LIBERTY ST

Approximate groundwater flow direction

MW-9
29.45

MW-8
29.46

MW-7
30.36

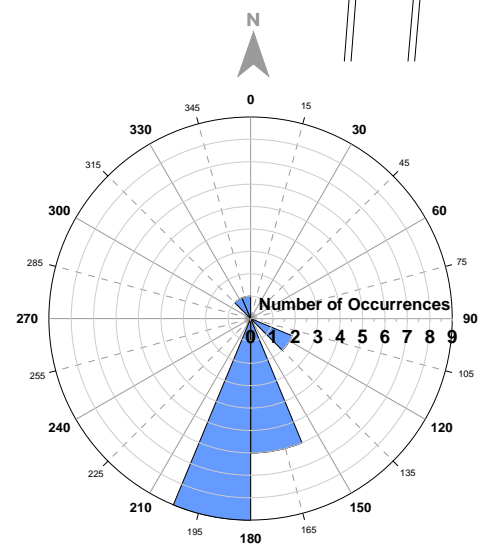
RESIDENTIAL AREA

ORIOLE AVENUE

RESIDENTIAL AREA

LARK AVENUE

153 rd AVENUE



Rose Diagram of Groundwater Flow Direction (June 2002 - October 2006)

▲ Monitoring Wells

Note: Monitoring wells MW-6 through MW-9 installed in September 2004.

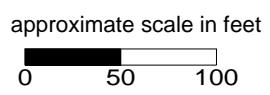
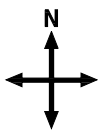


Figure 3: Groundwater elevation contour map in feet. October 26, 2006.





RESIDENTIAL AREA

FREEDOM AVENUE



151 st AVENUE

MW-1
6,950

MW-2
1,200

MW-3
33,400

Former USTs

Existing USTs

MW-4
1,540

MW-5
10,100

INTERSTATE 580 ONRAMP

COMMERCIAL AREA

RESIDENTIAL AREA

MW-6
6,080

FAIRMONT DRIVE

152 nd AVENUE

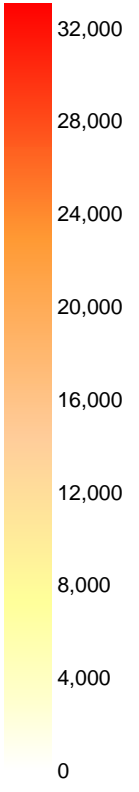
LIBERTY ST

MW-9
<50

MW-8
<50

MW-7
1,350

TPH-g
µg/L



RESIDENTIAL AREA

ORIOLE AVENUE

RESIDENTIAL AREA

Approximate groundwater flow direction

▲ Monitoring Wells

< Less than Laboratory Reporting Limit

Note: Monitoring wells MW-6 through MW-9 installed in September 2004.

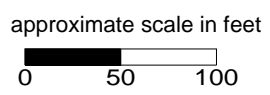
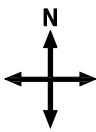


Figure 4: Contour map of TPH-g concentrations in groundwater. October 26, 2006.





RESIDENTIAL AREA

FREEDOM AVENUE



INTERSTATE 580 ONRAMP

151 st AVENUE



MW-1

556



MW-2

<0.5



MW-3

4,800



MW-4

81.9



MW-5

430

Existing USTs

STATION BUILDING

Former USTs

DISPENSER ISLANDS

DISPENSER ISLANDS

COMMERCIAL AREA

RESIDENTIAL AREA

FAIRMONT DRIVE



MW-6

37.4

152 nd AVENUE



MW-9

<0.50



MW-8

<0.50

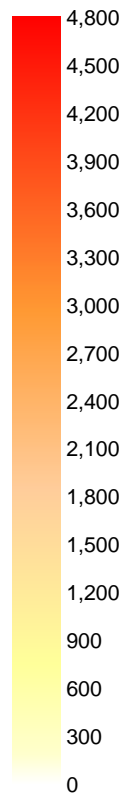


MW-7

<0.50

LIBERTY ST

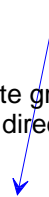
Benzene $\mu\text{g/L}$



RESIDENTIAL AREA

ORIOLE AVENUE

Approximate groundwater flow direction



Monitoring Wells



Less than Laboratory Reporting Limit

Note: Monitoring wells MW-6 through MW-9 installed in September 2004.

approximate scale in feet

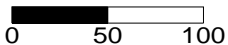
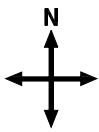


Figure 5: Contour map of Benzene concentrations in groundwater. October 26, 2006.



RESIDENTIAL AREA

FREEDOM AVENUE



151 st AVENUE

MW-1
8.61

MW-2
0.6

MW-3
4,790

Existing USTs

MW-4
3,610

MW-5
3,060

INTERSTATE 580 ONRAMP

COMMERCIAL AREA

RESIDENTIAL AREA

FAIRMONT DRIVE

MW-6
9.78

152 nd AVENUE

LIBERTY ST

MW-9
<0.50

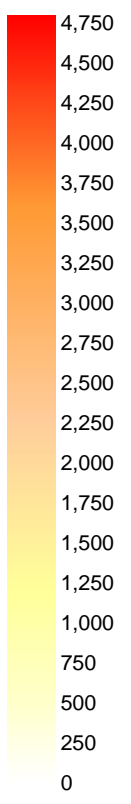
MW-8
<0.50

MW-7
1.87

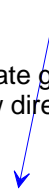
RESIDENTIAL AREA

ORIOLE AVENUE

MtBE
µg/L



Approximate groundwater flow direction



▲ Monitoring Wells

< Less than Laboratory Reporting Limit

Note: Monitoring wells MW-6 through MW-9 installed in September 2004.

approximate scale in feet

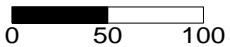
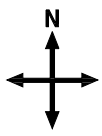


Figure 6: Contour map of MtBE concentrations in groundwater (EPA Method 8260B). October 26, 2006.





RESIDENTIAL AREA

FREEDOM AVENUE



151 st AVENUE

MW-1
39.4

MW-2
<10

MW-3
591

Existing USTs

MW-4
3,430

MW-5
322

INTERSTATE 580 ONRAMP

COMMERCIAL AREA

RESIDENTIAL AREA

FAIRMONT DRIVE

MW-6
<10

152 nd AVENUE

LIBERTY ST

MW-9
<10

MW-8
<10

MW-7
<10

TBA
µg/L

3,250

3,000

2,750

2,500

2,250

2,000

1,750

1,500

1,250

1,000

750

500

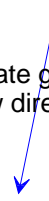
250

0

RESIDENTIAL AREA

ORIOLE AVENUE

Approximate groundwater flow direction



▲ Monitoring Wells

< Less than Laboratory Reporting Limit

Note: Monitoring wells MW-6 through MW-9 installed in September 2004.

approximate scale in feet

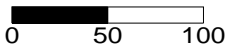
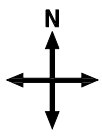


Figure 7: Contour map of TBA concentrations in groundwater. October 26, 2006.





RESIDENTIAL AREA

FREEDOM AVENUE



151 st AVENUE

MW-1
<4.0

MW-2
<2.0

MW-3
899

Existing USTs

MW-4
<43

MW-5
712

INTERSTATE 580 ONRAMP

COMMERCIAL AREA

RESIDENTIAL AREA

FAIRMONT DRIVE

MW-6
<2.0

152 nd AVENUE

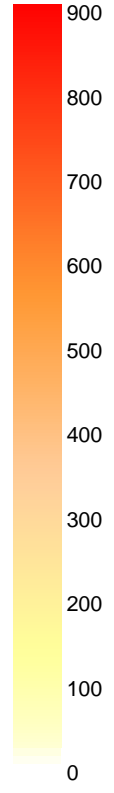
LIBERTY ST

MW-9
<2.0

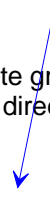
MW-8
<2.0

RESIDENTIAL AREA

TAME
µg/L



Approximate groundwater flow direction



▲ Monitoring Wells

< Less than Laboratory Reporting Limit

LARK AVENUE

153 rd AVENUE

ORIOLE AVENUE

Note: Monitoring wells MW-6 through MW-9 installed in September 2004.

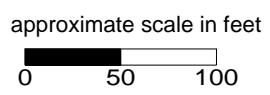


Figure 8: Contour map of TAME concentrations in groundwater. October 26, 2006.



Tables

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
8/10/2006	54.46	22.79	31.67	5,090	324	<8.60	108	59.9	8.24	
10/26/2006	54.46	23.19	31.27	6,950	556	<4.0	190	136.09	8.61	

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-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
	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
	8/10/2006	52.41	20.8	31.61	3,180	2.87	<2.0	88.9	24.8	<0.50
	10/26/2006	52.41	21.22	31.19	1,200	<0.5	<2.0	23.5	4.79	0.6

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-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
8/10/2006	53.91	22.26	31.65	42,100	3,450	869	1,760	5,650	3,570	
10/26/2006	53.91	22.73	31.18	33,400	4,800	331	1,170	3,510	4,790	

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-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
8/10/2006	53.31	21.74	31.57	7,830	118	<8.60	25.3	174.6	919	
10/26/2006	53.31	22.29	31.02	1,540	81.9	<43	96	46.4	3,610	

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-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
	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
8/10/2006	50.53	19.02	31.51	16,100	250	<22	455	187.4	1,590	
10/26/2006	50.53	19.61	30.92	10,100	430	<22	375	192.6	3,060	

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-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
	8/10/2006	45.82	15.28	30.54	4,800	41.9	<2.0	201	189	10.4
	10/26/2006	45.82	16.11	29.71	6,080	37.4	<2.0	116	183	9.78
MW-7	9/21/2004	44.74	15.21	29.53	2,900	<0.5	<0.5	52	61	8.1
	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	NA	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
	8/10/2006	44.74	13.72	31.02	604	<0.50	<2.0	6.2	4.63	1.42
	10/26/2006	44.74	14.38	30.36	1350	<0.50	<2.0	16.6	10.8	1.87

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-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
	8/10/2006	41.14	10.9	30.24	<50	<0.50	<2.0	<0.50	<1.0	<0.50
	10/26/2006	41.14	11.68	29.46	<50	<0.50	<2.0	3.37	<1.0	<0.50
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
	8/10/2006	40.26	10.01	30.25	<50	<0.50	<2.0	<0.50	<1.0	<0.50
	10/26/2006	40.26	10.81	29.45	<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)
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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.

Table 2
Historical Gasoline Oxygenates Results
15101 Freedom Avenue, San Leandro, CA

Monitoring Well	Date	TBA (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
	8/10/2006	<43	<2.15	<2.15	<8.60
	10/26/2006	39.4	<1.0	<1.0	<4.0
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
	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
	8/10/2006	<10	<0.5	<0.5	<2.0
	10/26/2006	<10	<0.5	<0.5	<2.0

Table 2
Historical Gasoline Oxygenates Results
15101 Freedom Avenue, San Leandro, CA

Monitoring Well	Date	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
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
	8/10/2006	365	<10.8	<10.8	727
10/26/2006	591	<10.8	<10.8	899	
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
	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
	8/10/2006	306	<2.15	<2.15	35.3
10/26/2006	3430	<10.8	13.8	<43	

Table 2
Historical Gasoline Oxygenates Results
15101 Freedom Avenue, San Leandro, CA

Monitoring Well	Date	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)
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
	8/10/2006	138	<5.50	<5.50	342
10/26/2006	322	<5.50	<5.50	712	
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
	8/10/2006	<10	<0.5	<0.5	<2.0
	10/26/2006	<10	<0.5	<0.5	<2.0

Table 2
Historical Gasoline Oxygenates Results
15101 Freedom Avenue, San Leandro, CA

Monitoring Well	Date	TBA (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
	8/10/2006	<10	<0.5	<0.5	<2.0
	10/26/2006	<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
	8/10/2006	<10	<0.5	<0.5	<2.0
	10/26/2006	<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
	8/10/2006	<10	<0.5	<0.5	<2.0
	10/26/2006	<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 October 26, 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 October 26, 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 October 26, 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 October 26, 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 three 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.

HORIZONTAL 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:

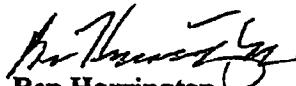
NGS 1974, STATION K 1256, NAVD 88 ELEV. 58.50.
PID # HT1871

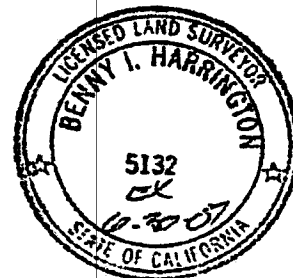
GPS: TRIMBLE 5800, LEICA TCA 1800, 1" HORZ. & VERT.

EPOCH DATE 1998.5

OBSERVATION: EPOCH=180.

FIELD SURVEY: OCT. 11, 2004.


Ben Harrington
PLS 5132

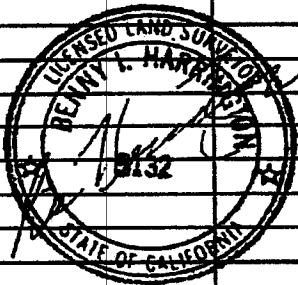


SURVEY REPORT
 15101 FREEDOM AVE
 SAN LEANDRO, CA.

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

JOB NO. 2445
DATE: OCT. 12, 2004

	NAD 83	NAD 83	NAVD 88		NORTH	WEST
PT	NORTH (sft)	EAST(sft)	ELEV.	DESCRIPTION	LATITUDE (DMS)	LONGITUDE (DMS)
1	2087731.02	6094039.23	442.77	FD CHABOT B	37°43'02.71762"	122°07'00.46339"
2	2088584.99	6093351.39	492.08	FD CHABOT A	37°43'11.04190"	122°07'09.20691"
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 PUNCH		
54	2084072.47	6092140.95	45.82	MW-6 NOTCH	37°42'26.22635"	122°07'23.29643
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°07'25.67431"
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°07'23.52966"
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°07'21.42290"
64	2084206.49	6092175.95	51.03	MW-5 PAV		
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°07'22.87930
67	2084670.41	6092307.68	69.79	FD BM FAIR580		
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"
80	2084930.49	6091759.33	58.50	FD BM K1256	37°42'34.64279"	122°07'28.23011"



ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-1
 Casing Diameter: 4 inch
 Depth of Well: 30.24 ft
 Top of Casing Elevation: 54.46 ft
 Depth to Groundwater: 23.19 ft
 Groundwater Elevation: 31.27 ft
 Water Column Height: 7.05 ft
 Purged Volume: 10 gallons

Project No.: 2551
 Address: 15101 Freedom Ave.
 San Leandro, CA
 Date: 10/26/06
 Sampler: TONY PERINI

Purging Method: Bafler Pump
 Sampling Method: Bafler Pump

Color: No Yes Describe _____
 Sheen: No Yes Describe _____
 Odor: No Yes Describe slight petro odor

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP
12:38 PM		START PURGED CYCLE					
12:40 PM	2	—	6.84	19.80	1057	—	—
12:43 PM	7	—	6.85	20.20	1053	—	—
12:45 PM	10	—	6.86	20.20	1058	—	—
12:47 PM	samples						

Notes:



Well No.: MW-2
 Casing Diameter: 4 inch
 Depth of Well: 30.05 ft
 Top of Casing Elevation: 52.41 ft
 Depth to Groundwater: 21.22 ft
 Groundwater Elevation: 31.19 ft
 Water Column Height: 8.86 ft
 Purged Volume: 11 gallons

Project No.: 2551
 Address: 15101 Freedom Ave.
 San Leandro, CA
 Date: 10/26/06
 Sampler: Tony Perini

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump
 Color: No Yes Describe: _____
 Sheen: No Yes Describe: _____
 Odor: No Yes Describe: _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP
1 PM		START PURGED CYCLE					
1:02 PM	2	—	7.01	20.40	1220	—	—
1:05 PM	6	—	6.99	20.60	1110	—	—
1:09 PM	11	—	7.02	20.60	1130	—	—
1:11 PM	sampled						

Notes:



Well No.: MW-3
 Casing Diameter: 4 inch
 Depth of Well: 29.95 ft
 Top of Casing Elevation: 53.91 ft
 Depth to Groundwater: 22.73 ft
 Groundwater Elevation: 31.18 ft
 Water Column Height: 7.22 ft
 Purged Volume: 11 gallons

Project No.: 2551
 Address: 15101 Freedom Ave.
 San Leandro, CA
 Date: 10/26/06
 Sampler: TONY PERINI

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

Color: No Yes Describe: cloudy
 Sheen: No Yes Describe _____
 Odor: No Yes Describe _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP
2:41 PM		START PURGED CYCLE					
2:43 PM	2	—	6.76	22.60	1227	—	—
2:45 PM	5	—	6.83	21.70	1194	—	—
2:47 PM	8	—	6.82	21.50	1160	—	—
2:50 PM	11	—	6.89	21.50	1170	—	—
2:53 PM	Samples						

Notes:



Well No.: MW-4
 Casing Diameter: 4 Inch
 Depth of Well: 30.28 ft
 Top of Casing Elevation: 53.31 ft
 Depth to Groundwater: 22.29 ft
 Groundwater Elevation: 31.02 ft
 Water Column Height: 7.99 ft
 Purged Volume: 12 gallons

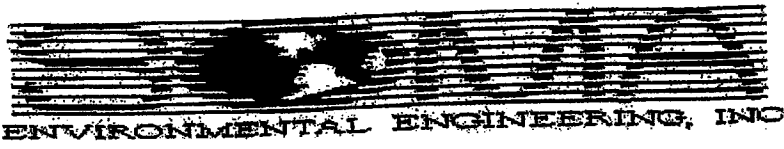
Project No.: 2551
 Address: 15101 Freedom Ave.
 San Leandro, CA
 Date: 10/26/06
 Sampler: TONY PERINI

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump
 Color: No Yes Describe: cloudy
 Sheen: No Yes Describe _____
 Odor: No Yes Describe slight petro odor

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP
1:45 PM		START					
1:46 PM	1	—	6.49	21.20	1316	—	—
1:49 PM	5	—	6.30	20.80	1269	—	—
1:52 PM	9	—	6.63	20.50	1285	—	—
1:55 PM	12	—	6.67	20.50	1292	—	—
1:58 PM	1 sample						

Notes:



Well No.: MW-5
 Casing Diameter: 4 inch
 Depth of Well: 29.85 ft
 Top of Casing Elevation: 50.53 ft
 Depth to Groundwater: 19.61 ft
 Groundwater Elevation: 30.92 ft
 Water Column Height: 10.24 ft
 Purged Volume: 10 gallons

Project No.: 2551
 Address: 15101 Freedom Ave.
 San Leandro, CA
 Date: 10/26/06
 Sampler: TONY PERINI

Purging Method: Bailler Pump

Sampling Method: Bailler Pump

Color: No Yes Describe: cloudy
 Sheen: No Yes Describe: _____
 Odor: No Yes Describe: _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	EC. (µS/cm)	Turb. NTU	ORP
2:13 PM		START PURGE CYCLE					
2:14 PM	1	—	7.00	22.20	1116	—	—
2:16 PM	4	—	6.90	21.20	1075	—	—
2:18 PM	7	—	6.87	21.30	1070	—	—
2:20 PM	10	—	6.88	21.30	1068	—	—
2:23 PM	samples						

Notes:



Well No.: MW-6
 Casing Diameter: 7 inch
 Depth of Well: 27.40 ft
 Top of Casing Elevation: 45.82 ft
 Depth to Groundwater: 16.11 ft
 Groundwater Elevation: 29.71 ft
 Water Column Height: 11.29 ft
 Purged Volume: 10 gallons

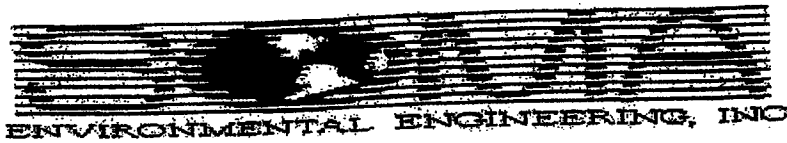
Project No.: 2551
 Address: 15101 Freedom Ave.
 San Leandro, CA
 Date: 10/26/06
 Sampler: Tony Perini

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump
 Color: No Yes Describe: _____
 Sheen: No Yes Describe: _____
 Odor: No Yes Describe: _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	
11:42 AM		START PURGED CYCLE						
11:43 AM	1	—	6.87	21.70	911	—	—	
11:45 AM	3	—	6.91	21.50	899	—	—	
11:48 AM	7	—	6.98	21.80	892	—	—	
11:50 AM	10	—	6.97	21.80	895	—	—	
11:52 AM	samples							

Notes:



Well No.: MW-7
 Casing Diameter: 2 inch
 Depth of Well: 21.00 ft
 Top of Casing Elevation: 44.74 ft
 Depth to Groundwater: 14.38 ft
 Groundwater Elevation: 30.36 ft
 Water Column Height: 6.62 ft
 Purged Volume: 7 gallons

Project No.: 2551
 Address: 15101 Freedom Ave.
 San Leandro, CA
 Date: 10/26/06
 Sampler: Tommy Perkins

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump
 Color: No Yes Describe: _____
 Sheen: No Yes Describe: _____
 Odor: No Yes Describe: _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	
11:18 AM								
		START PURGE cycle						
11:20 AM	2	—	6.92	19.80	1027	—	—	
11:22 AM	5	—	6.91	19.40	1064	—	—	
11:24 AM	7	—	6.90	19.60	1070	—	—	
11:26 AM	samples							

Notes:



Well No.: MW-8
 Casing Diameter: 2 inch
 Depth of Well: 28.72 ft
 Top of Casing Elevation: 41.14 ft
 Depth to Groundwater: 11.68 ft
 Groundwater Elevation: 29.46 ft
 Water Column Height: 17.04 ft
 Purged Volume: 9 gallons

Project No.: 2551
 Address: 15101 Freedom Ave.
 San Leandro, CA
 Date: 10/26/06
 Sampler: TONY PERINI

Purging Method: Bafler Pump

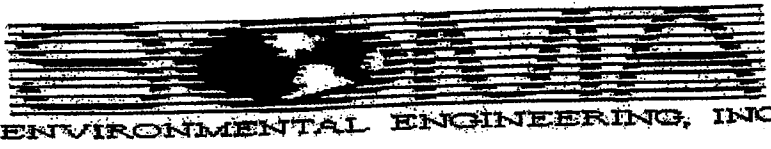
Sampling Method: Bafler Pump

Color: No Yes Describe: _____
 Sheen: No Yes Describe: _____
 Odor: No Yes Describe: _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	
10:55 AM		START PURGED cycle						
10:56 AM	1	—	7.05	19.80	1179	—	—	
10:58 AM	4	—	7.18	19.70	1190	—	—	
11 AM	7	—	7.22	19.70	1188	—	—	
11:02 AM	9	—	7.28	19.80	1190	—	—	
11:05 AM	sampled							

Notes:



Well No.: MW-9
 Casing Diameter: 2 inch
 Depth of Well: 32.55 ft
 Top of Casing Elevation: 40.26 ft
 Depth to Groundwater: 10.81 ft
 Groundwater Elevation: 29.45 ft
 Water Column Height: 21.74 ft
 Purged Volume: 9 gallons

Project No.: 2551
 Address: 15101 Freedom Ave.
 San Leandro, CA
 Date: 10/26/06
 Sampler: Tony Perina

Purging Method: Bailer Pump

Sampling Method: Bailer Pump

Color: No Yes Describe: cloudy

Sheen: No Yes Describe: _____

Odor: No Yes Describe: _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP	
10:28 AM		START PURGE cycle						
10:29 AM	1.0	—	6.94	20.80	806	—	—	
10:31 AM	5	—	7.11	20.20	974	—	—	
10:33 AM	9	—	7.13	20.10	989	—	—	
10:35 AM	sampled							

Notes:

Appendix C

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

CHAIN OF CUSTODY FORM

Page ___ of ___

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

PAL
 Login# 6100011

Project No: 2581		Sampler: John Lehman / Eric Jennings Tony Parini		Analyses/Method																
Project Name: 15101 Freedom Avenue San Leandro				Report To: Tony Parini				TPH-g, BTEX, MIBE Gasoline Oxygenates & Lead Scavengers												
Turnaround Time: Standard				Company: SOMA Environmental Engineering, Inc.																
				Tel: 925-244-6600 Fax: 925-244-6601																
Lab No.	Sample ID	Sampling Date/Time		Matrix			# of Containers	Preservatives				Field Notes								
		Date	Time	Soil	Water	Waste		HCL	H ₂ O ₂	HNO ₃	ICE									
	MW-1	10/20/06	12:47 PM	X			3 VOAs	X			X	Grab Sample	X	X						
	MW-2	10/20/06	1:11 PM	X			3 VOAs	X			X	Grab Sample	X	X						
	MW-3	10/20/06	2:57 PM	X			3 VOAs	X			X	Grab Sample	X	X						
	MW-4	10/20/06	1:58 PM	X			3 VOAs	X			X	Grab Sample	X	X						
	MW-5	10/20/06	2:23 PM	X			3 VOAs	X			X	Grab Sample	X	X						
	MW-6	10/20/06	11:52 AM	X			3 VOAs	X			X	Grab Sample	X	X						
	MW-7	10/20/06	11:20 AM	X			3 VOAs	X			X	Grab Sample	X	X						
	MW-8	10/20/06	11:05 AM	X			3 VOAs	X			X	Grab Sample	X	X						
	MW-9	10/20/06	10:35 AM	X			3 VOAs	X			X	Grab Sample	X	X						
Sampler Remarks: EDF REQUIRED Ethanol				Relinquished by: Tony Parini		Date/Time: 10/26/06		Received by: James Z...		Date/Time: 4:00 PM 10/26/06										

09 November 2006

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

RE: 15101 Freedom Ave., San Leandro

Work Order Number: 6100011

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,



Maiid Akhavan
Laboratory Director



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:
09-Nov-06 14:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6100011-01	Water	26-Oct-06 12:47	26-Oct-06 16:10
MW-2	6100011-02	Water	26-Oct-06 13:11	26-Oct-06 16:10
MW-3	6100011-03	Water	26-Oct-06 14:53	26-Oct-06 16:10
MW-4	6100011-04	Water	26-Oct-06 13:58	26-Oct-06 16:10
MW-5	6100011-05	Water	26-Oct-06 14:23	26-Oct-06 16:10
MW-6	6100011-06	Water	26-Oct-06 11:52	26-Oct-06 16:10
MW-7	6100011-07	Water	26-Oct-06 11:26	26-Oct-06 16:10
MW-8	6100011-08	Water	26-Oct-06 11:05	26-Oct-06 16:10
MW-9	6100011-09	Water	26-Oct-06 10:35	26-Oct-06 16:10



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:
09-Nov-06 14:48

Volatile Organic Compounds by EPA Method 8260B
Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6100011-01) Water Sampled: 26-Oct-06 12:47 Received: 26-Oct-06 16:10									
Gasoline (C6-C12)	6950	100	ug/l	2	BJ63101	26-Oct-06	30-Oct-06	EPA 8260B	
Benzene	556	1.00	"	"	"	"	"	"	
Ethylbenzene	190	1.00	"	"	"	"	"	"	
m&p-Xylene	134	2.00	"	"	"	"	"	"	
o-xylene	2.09	1.00	"	"	"	"	"	"	
Toluene	ND	4.00	"	"	"	"	"	"	
MTBE	8.61	1.00	"	"	"	30-Oct-06	"	"	
DIPE	ND	1.00	"	"	"	"	"	"	
ETBE	ND	1.00	"	"	"	"	"	"	
TAME	ND	4.00	"	"	"	"	"	"	
TBA	39.4	20.0	"	"	"	"	"	"	
1,2-dichloroethane	2.92	1.00	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.00	"	"	"	"	"	"	
Ethanol	ND	2000	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %		70-130	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		94.2 %		70-130	"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		92.0 %		70-130	"	"	"	"	
MW-2 (6100011-02) Water Sampled: 26-Oct-06 13:11 Received: 26-Oct-06 16:10									
Gasoline (C6-C12)	1200	50.0	ug/l	1	BJ63101	26-Oct-06	30-Oct-06	EPA 8260B	
Benzene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	23.5	0.500	"	"	"	"	"	"	
m&p-Xylene	4.79	1.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	0.600	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	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.8 %		70-130	"	"	"	"	

Pacific Analytical Laboratory

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.



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:
09-Nov-06 14:48

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (6100011-02) Water Sampled: 26-Oct-06 13:11 Received: 26-Oct-06 16:10									
Surrogate: Dibromofluoromethane		98.8 %	70-130		BJ63101	26-Oct-06	30-Oct-06	EPA 8260B	
Surrogate: Perdeuterotoluene		93.0 %	70-130		"	"	"	"	
MW-3 (6100011-03) Water Sampled: 26-Oct-06 14:53 Received: 26-Oct-06 16:10									
Gasoline (C6-C12)	33400	1080	ug/l	21.5	BJ63101	26-Oct-06	30-Oct-06	EPA 8260B	
Benzene	4800	10.8	"	"	"	"	"	"	
Ethylbenzene	1170	10.8	"	"	"	"	"	"	
m&p-Xylene	2090	21.5	"	"	"	"	"	"	
o-xylene	1420	10.8	"	"	"	"	"	"	
Toluene	331	43.0	"	"	"	"	"	"	
MTBE	4790	10.8	"	"	"	"	"	"	
DIPE	ND	10.8	"	"	"	"	"	"	
ETBE	ND	10.8	"	"	"	"	"	"	
TAME	899	43.0	"	"	"	"	"	"	
TBA	591	215	"	"	"	"	"	"	
1,2-dichloroethane	ND	10.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10.8	"	"	"	"	"	"	
Ethanol	ND	21500	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.8 %	70-130		"	"	"	"	
Surrogate: Dibromofluoromethane		93.6 %	70-130		"	"	"	"	
Surrogate: Perdeuterotoluene		87.2 %	70-130		"	"	"	"	
MW-4 (6100011-04RE1) Water Sampled: 26-Oct-06 13:58 Received: 26-Oct-06 16:10									
Gasoline (C6-C12)	1540	1080	ug/l	21.5	BJ63101	26-Oct-06	31-Oct-06	EPA 8260B	
Benzene	81.9	10.8	"	"	"	"	"	"	
Ethylbenzene	96.0	10.8	"	"	"	"	"	"	
m&p-Xylene	46.4	21.5	"	"	"	"	"	"	
o-xylene	ND	10.8	"	"	"	"	"	"	
Toluene	ND	43.0	"	"	"	"	"	"	
MTBE	3610	10.8	"	"	"	"	"	"	
DIPE	ND	10.8	"	"	"	"	"	"	
ETBE	13.8	10.8	"	"	"	"	"	"	
TAME	ND	43.0	"	"	"	"	"	"	
TBA	3430	215	"	"	"	"	"	"	
1,2-dichloroethane	ND	10.8	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	10.8	"	"	"	"	"	"	
Ethanol	ND	21500	"	"	"	"	"	"	



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

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

Reported:
09-Nov-06 14:48

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (6100011-04RE1) Water Sampled: 26-Oct-06 13:58 Received: 26-Oct-06 16:10									
Surrogate: 4-Bromofluorobenzene		88.2 %	70-130		BJ63101	26-Oct-06	31-Oct-06	EPA 8260B	
Surrogate: Dibromofluoromethane		103 %	70-130		"	"	"	"	
Surrogate: Perdeuterotoluene		85.8 %	70-130		"	"	"	"	
MW-5 (6100011-05) Water Sampled: 26-Oct-06 14:23 Received: 26-Oct-06 16:10									
Gasoline (C6-C12)	10100	550	ug/l	11	BJ63101	26-Oct-06	30-Oct-06	EPA 8260B	
Benzene	430	5.50	"	"	"	"	"	"	
Ethylbenzene	375	5.50	"	"	"	"	"	"	
m&p-Xylene	175	11.0	"	"	"	"	"	"	
o-xylene	17.6	5.50	"	"	"	"	"	"	
Toluene	ND	22.0	"	"	"	"	"	"	
MTBE	3060	5.50	"	"	"	"	"	"	
DIPE	ND	5.50	"	"	"	"	"	"	
ETBE	ND	5.50	"	"	"	"	"	"	
TAME	712	22.0	"	"	"	"	"	"	
TBA	322	110	"	"	"	"	"	"	
1,2-dichloroethane	ND	5.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.50	"	"	"	"	"	"	
Ethanol	ND	11000	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.6 %	70-130		"	"	"	"	
Surrogate: Dibromofluoromethane		94.6 %	70-130		"	"	"	"	
Surrogate: Perdeuterotoluene		86.8 %	70-130		"	"	"	"	
MW-6 (6100011-06) Water Sampled: 26-Oct-06 11:52 Received: 26-Oct-06 16:10									
Gasoline (C6-C12)	6080	50.0	ug/l	1	BJ63101	26-Oct-06	30-Oct-06	EPA 8260B	
Benzene	37.4	0.500	"	"	"	"	"	"	
Ethylbenzene	116	0.500	"	"	"	"	"	"	
m&p-Xylene	183	1.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	9.78	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

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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:
09-Nov-06 14:48

Volatile Organic Compounds by EPA Method 8260B

Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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MW-6 (6100011-06) Water Sampled: 26-Oct-06 11:52 Received: 26-Oct-06 16:10

Ethanol	ND	1000	ug/l	1	BJ63101	26-Oct-06	30-Oct-06	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		98.8 %	70-130		"	"	"	"	
Surrogate: Dibromofluoromethane		95.8 %	70-130		"	"	"	"	
Surrogate: Perdeuterotoluene		91.0 %	70-130		"	"	"	"	

MW-7 (6100011-07) Water Sampled: 26-Oct-06 11:26 Received: 26-Oct-06 16:10

Gasoline (C6-C12)	1350	50.0	ug/l	1	BJ63101	26-Oct-06	30-Oct-06	EPA 8260B	
Benzene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	16.6	0.500	"	"	"	"	"	"	
m&p-Xylene	10.8	1.00	"	"	"	"	"	"	
o-xylene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
MTBE	1.87	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	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.4 %	70-130		"	"	"	"	
Surrogate: Dibromofluoromethane		95.8 %	70-130		"	"	"	"	
Surrogate: Perdeuterotoluene		91.2 %	70-130		"	"	"	"	

MW-8 (6100011-08) Water Sampled: 26-Oct-06 11:05 Received: 26-Oct-06 16:10

Gasoline (C6-C12)	ND	50.0	ug/l	1	BJ63101	26-Oct-06	30-Oct-06	EPA 8260B	
Benzene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	3.37	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	"	"	"	"	"	"	

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

Reported:
09-Nov-06 14:48

Volatile Organic Compounds by EPA Method 8260B
Pacific Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (6100011-08) Water Sampled: 26-Oct-06 11:05 Received: 26-Oct-06 16:10									
1,2-Dibromoethane (EDB)	ND	0.500	ug/l	1	BJ63101	26-Oct-06	30-Oct-06	EPA 8260B	
Ethanol	ND	1000	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		83.0 %	70-130		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %	70-130		"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		84.4 %	70-130		"	"	"	"	
MW-9 (6100011-09) Water Sampled: 26-Oct-06 10:35 Received: 26-Oct-06 16:10									
Gasoline (C6-C12)	ND	50.0	ug/l	1	BJ63101	26-Oct-06	30-Oct-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	3.07	0.500	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.500	"	"	"	"	"	"	
Ethanol	ND	1000	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		79.8 %	70-130		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		105 %	70-130		"	"	"	"	
<i>Surrogate: Perdeuterotoluene</i>		85.6 %	70-130		"	"	"	"	



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:
09-Nov-06 14:48

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
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Batch BJ63101 - EPA 5030 Water MS

Blank (BJ63101-BLK1)

Prepared & Analyzed: 31-Oct-06

Surrogate: 4-Bromofluorobenzene	41.3		ug/l	50.0		82.6	70-130			
Surrogate: Dibromofluoromethane	53.3		"	50.0		107	70-130			
Surrogate: Perdeuterotoluene	48.3		"	50.0		96.6	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 (BJ63101-BS1)

Prepared & Analyzed: 31-Oct-06

Surrogate: 4-Bromofluorobenzene	33.8		ug/l	50.0		67.6	70-130			S-GC
Surrogate: Dibromofluoromethane	46.8		"	50.0		93.6	70-130			
Surrogate: Perdeuterotoluene	41.5		"	50.0		83.0	70-130			
MTBE	112	0.500	"	100		112	70-130			
ETBE	110	0.500	"	100		110	70-130			
TAME	96.0	2.00	"	100		96.0	70-130			
Gasoline (C6-C12)	1850	50.0	"	2000		92.5	70-130			
TBA	625	10.0	"	500		125	70-130			
Benzene	97.2	0.500	"	100		97.2	70-130			
Toluene	83.4	2.00	"	100		83.4	70-130			



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

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

Reported:
 09-Nov-06 14:48

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
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Batch BJ63101 - EPA 5030 Water MS

LCS Dup (BJ63101-BSD1)

Prepared & Analyzed: 31-Oct-06

<i>Surrogate: 4-Bromofluorobenzene</i>	36.6		ug/l	50.0		73.2	70-130			
<i>Surrogate: Dibromofluoromethane</i>	47.9		"	50.0		95.8	70-130			
<i>Surrogate: Perdeuterotoluene</i>	42.6		"	50.0		85.2	70-130			
MTBE	104	0.500	"	100		104	70-130	7.41	20	
ETBE	94.9	0.500	"	100		94.9	70-130	14.7	20	
TAME	87.8	2.00	"	100		87.8	70-130	8.92	20	
TBA	618	10.0	"	500		124	70-130	1.13	20	
Gasoline (C6-C12)	1640	50.0	"	2000		82.0	70-130	12.0	20	
Benzene	86.3	0.500	"	100		86.3	70-130	11.9	20	
Toluene	75.6	2.00	"	100		75.6	70-130	9.81	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:
09-Nov-06 14:48

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

DET Analyte DETECTED

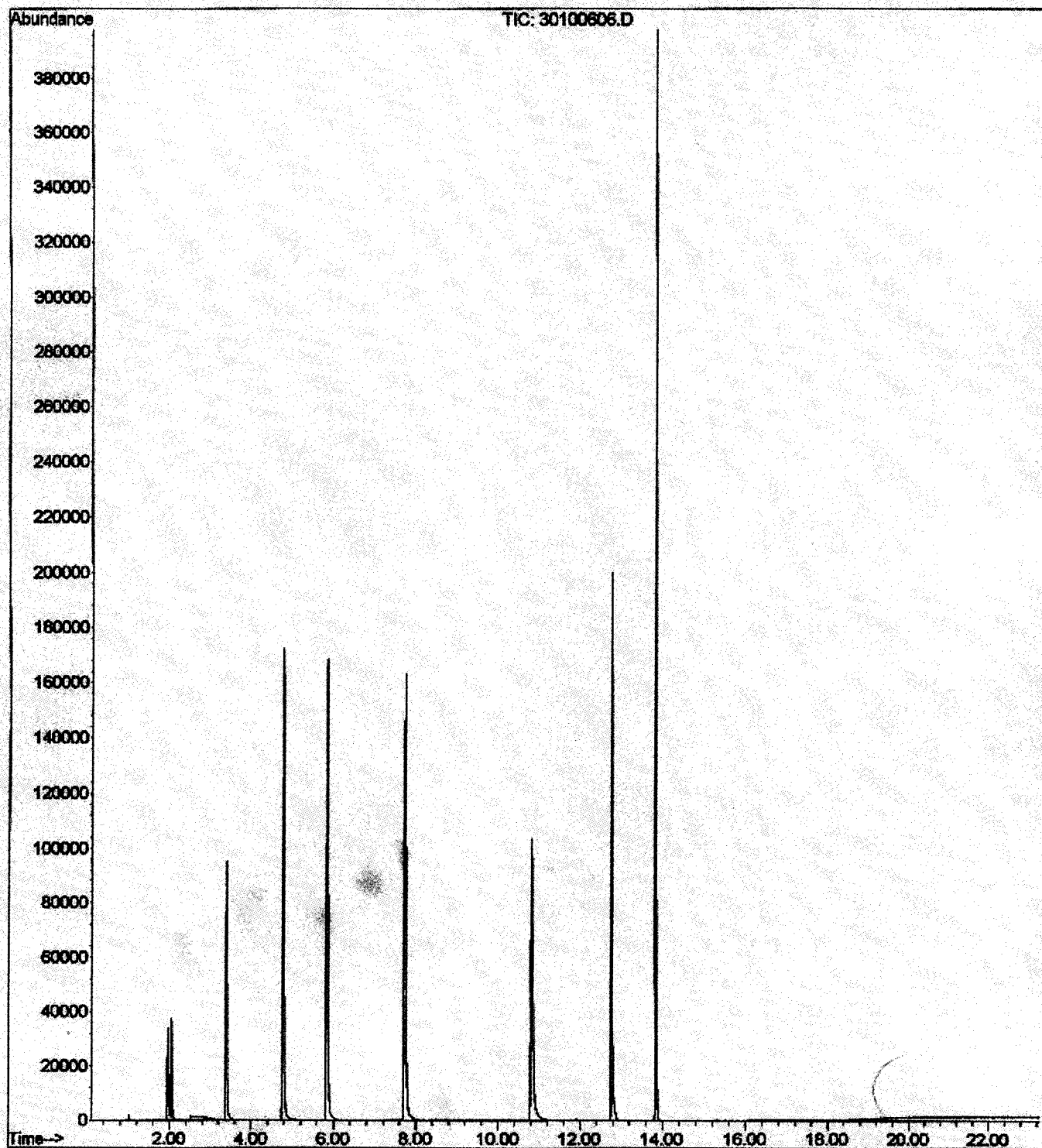
ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

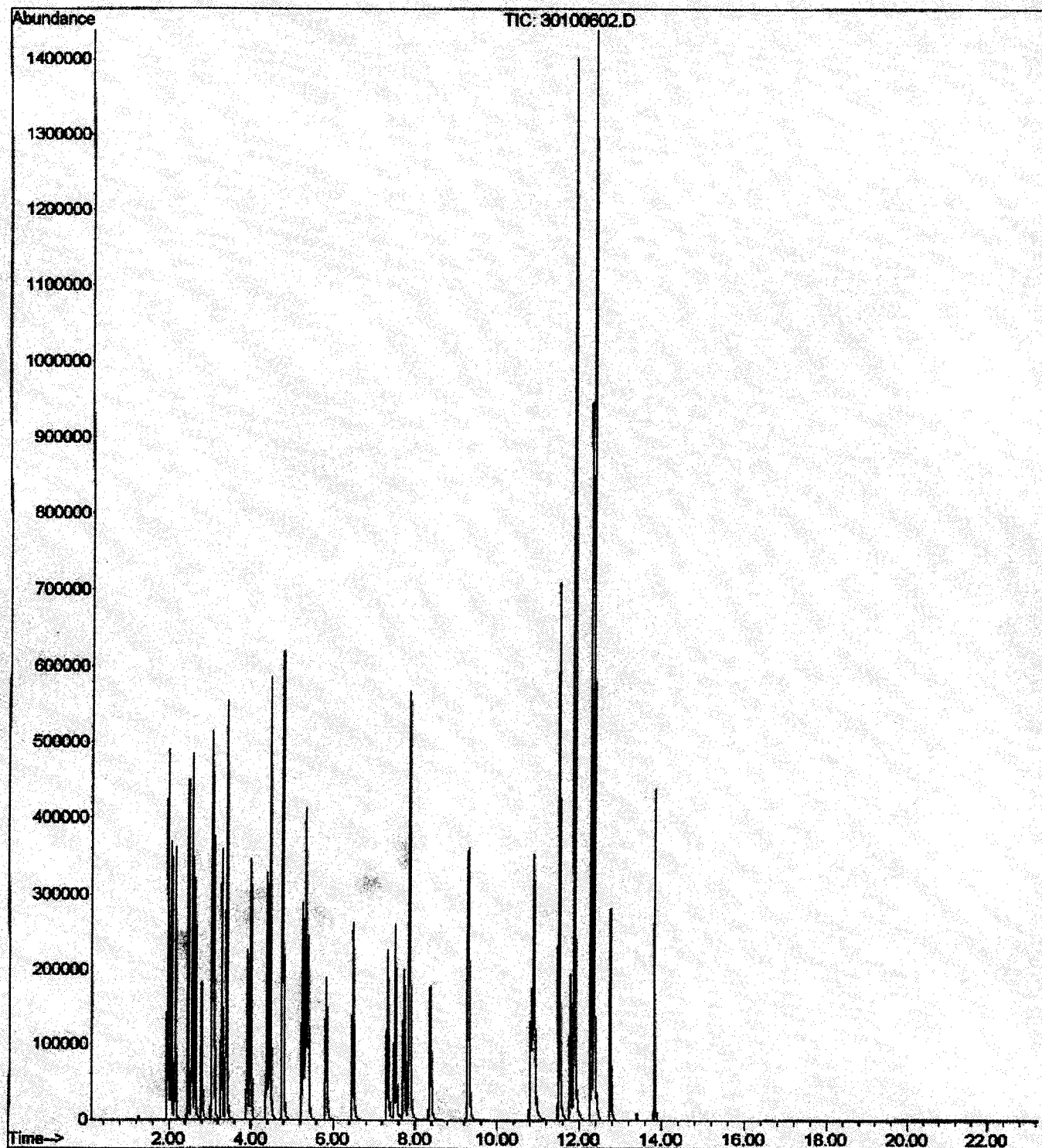
dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

File : C:\MSDCHEM\1\DATA\2006-Oct-30-0921.b\30100606.D
Operator :
Acquired : 30 Oct 2006 12:16 pm using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BJ63101-BLK1
Misc Info :
Vial Number: 6



File : C:\MSDCHEM\1\DATA\2006-Oct-30-0921.b\30100602.D
Operator :
Acquired : 30 Oct 2006 10:07 am using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BJ63101-BS1@voc
Misc Info :
Vial Number: 2



File :C:\MSDCHEM\1\DATA\2006-Oct-30-0921.b\30100603.D
Operator :
Acquired : 30 Oct 2006 10:39 am using AcqMethod OXY21506.M
Instrument : PAL GCMS
Sample Name: BJ63101-BS1@gas
Misc Info :
Vial Number: 3

