SOMA
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June 17, 2011

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

Subject: Freedom Food and Gas (Formerly Freedom ARCO Mini-Mart)
Site Address: 15101 Freedom Avenue, San Leandro, California
STID 4473/RO0000473

Dear Mr. Khatri:

SOMA's "Second Quarter 2011 Groundwater Monitoring and Remediation Progress 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

REGISTERED PROFESSIONAL ENGINEER
MANSOUR SEPEHR
No. C042928
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

cc: Mr. Mohammad Pazdel w/report enclosure

Second Quarter 2011
Groundwater Monitoring and
Remediation Progress Report
Freedom Food and Gas

15101 Freedom Avenue
San Leandro, California

June 17, 2011

Project 2551/2555

Prepared for

Mr. Mohammad Pazdel
1770 Pistacia Court
Fairfield, California

SOMA ENVIRONMENTAL ENGINEERING, INC.
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PERJURY STATEMENT

Site Location: 15101 Freedom Avenue, San Leandro, California

"I declare under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge".

M. R. Pazdel

Mohammad Pazdel
1770 Pistacia Court
Fairfield, California 94533
Responsible Party

CERTIFICATION

SOMA Environmental Engineering, Inc. has prepared this report on behalf of the responsible party, Mr. Mohammad Pazdel, for property located at 15101 Freedom Avenue, San Leandro, California, to comply with Alameda County Health Care Services requirements for the Second Quarter 2011 groundwater monitoring event.

Mansour Sepehr, PhD, PE
Principal Hydrogeologist

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1. INTRODUCTION

SOMA Environmental Engineering, Inc. (SOMA) has prepared this report on behalf of the responsible party, Mr. Mohammad Pazdel, for property located at 15101 Freedom Avenue, San Leandro, California. The site is located in an area of primarily residential properties and adjacent commercial areas (Figure 1). The property was formerly owned by Mr. Mohammad Pazdel. In late 2009, the property was sold to DDH, LLC, Assignee and in early 2010 it was sold to Mr. Mohammad Mashhoon. Under the new management, the site is currently operational with the business name of "Freedom Food and Gas" formerly "Freedom Arco Mini-Mart".

This report summarizes results of the Second Quarter 2011 groundwater monitoring event conducted on May 19 and 20, 2011. It includes physical and chemical properties measured in the field and laboratory analysis results for each groundwater sample. It also presents the remediation progress report for Second Quarter 2011, which includes operation of a groundwater extraction and treatment system.

1.1 Field Activities

On May 19 and 20, 2011, SOMA's field crew conducted a groundwater monitoring event in accordance with procedures and guidelines of Alameda County Health Care Services (ACHCS) and the California Regional Water Quality Control Board (CRWQCB). Figure 2 shows well locations.

On May 19, 2011, the following wells were measured for depth to groundwater: five on-site monitoring wells (MW-1 to MW-5) and two off-site wells (MW-6 and MW-7) in the First water bearing zone (WBZ); two extraction wells (EX-1 and EX-2) and two MPE wells (MPE-1 and MPE-2); and three on-site monitoring wells (MW-1D, MW-3D, and MW-4D) in the Second WBZ. On May 19 and 20, 2011, additional field measurements and grab groundwater samples were collected from all monitoring wells. Grab groundwater samples were also collected from the two extraction wells. Properties measured include pH, temperature, and electrical conductivity (EC). A natural attenuation study was conducted during this event to determine whether petroleum hydrocarbons in groundwater are biodegrading. Dissolved oxygen (DO) and oxidation reduction potential (ORP) measurements were taken for all monitoring wells.

1.2 Laboratory Analysis

Curtis & Tompkins, Ltd., a California state-certified laboratory, analyzed groundwater samples for the following: total petroleum hydrocarbons as gasoline (TPH-g); benzene, toluene, ethylbenzene, total xylenes (collectively termed BTEX); methyl tertiary-butyl ether (MtBE); and gasoline oxygenates, ethanol and

lead scavengers. Samples were prepared using EPA Method 5030B and analyzed using EPA Method 8260B.

2. RESULTS

Following are results of field measurements and laboratory analysis for the May 2011 groundwater monitoring event.

2.1 Field Measurements, First WBZ Wells

Table 1 presents calculated groundwater elevations and depths to groundwater for each monitoring well. Depths to groundwater ranged from 13.43 feet in MW-7 to 22.80 feet in MW-1. Corresponding groundwater elevations ranged from 30.87 feet in MW-6 to 31.66 feet in MW-1 and MW-2. Groundwater elevations at extraction wells EX-1 and EX-2 were 31.24 feet and 30.88 feet respectively.

Figure 3 displays the contour map of groundwater elevations. As illustrated, groundwater flows south to slightly southwesterly across the site as compared to slightly southeasterly during the previous monitoring event (First Quarter 2011), at a gradient of 0.0071 feet/feet. The groundwater gradient has slightly decreased since the previous monitoring event.

Upon equalization with the surrounding aquifer at each well location, when the purge cycle was terminated, DO concentrations in the First WBZ ranged from 1.04 mg/L in MW-3 to 1.78 mg/L in MW-4. ORP showed negative redox potentials in all First WBZ monitoring wells. Negative redox potentials indicate that contaminants in groundwater are conducive to anaerobic biodegradation.

Field measurements taken during this monitoring event are included in Appendix B (Table A).

2.2 Laboratory Analysis, First WBZ Wells

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

Table 1 presents TPH-g, BTEX, and MtBE analysis results for the current and historical groundwater monitoring events.

TPH-g concentrations ranged from 310 µg/L in MW-2 to 14,000 µg/L in MW-6. Since the previous monitoring event (First Quarter 2011), TPH-g decreased in MW-3, MW-4, MW-7, EX-1, and EX-2 and increased in MW-1, MW-2, MW-5, and MW-6.

Figure 4 displays the contour map of TPH-g concentrations in groundwater. As illustrated, the highest TPH-g impact is in the vicinity of the off-site well MW-6. High TPH-g concentration was also observed in the vicinity of dispenser islands and former underground storage tanks (USTs) around MW-3.

The following BTEX concentrations were observed:

- In MW-7, benzene and toluene were below laboratory-reporting limits and ethylbenzene and total xylenes were at low levels.
- In MW-2, all BTEX analytes were below laboratory reporting limits except, ethylbenzene which was at a low level.
- Toluene was also below laboratory-reporting limit in MW-4, MW-6, and EX-1.
- The highest benzene and total xylenes were detected in MW-3 at 710 µg/L and 1,460 µg/L, respectively. The highest toluene was detected in EX-2 at 65 µg/L. The highest ethylbenzene was detected in MW-1 at 970 µg/L

Figure 5 displays the contour map of benzene concentrations in groundwater. The highest benzene impact is in the vicinity of the dispenser islands and former USTs around MW-3. Since the previous monitoring event (First Quarter 2011), benzene has increased in MW-1, MW-3, and MW-5 and decreased in MW-4, MW-6, EX-1, and EX-2.

MtBE was below the laboratory-reporting limit in MW-1 and MW-2. Detectable MtBE concentrations ranged from 4.8 µg/L in MW-4 to 110 µg/L in EX-1. Figure 6 displays the contour map of MtBE concentrations in groundwater. The highest MtBE impact was in the vicinity of extraction well EX-1. Since the previous monitoring event (First Quarter 2011), MtBE concentrations decreased in MW-1, MW-3, MW-6, MW-7, and EX-2 and increased in MW-4 and MW-5.

As shown in Table 1, since the previous monitoring event (First Quarter 2011), TPH-g, ethylbenzene, and total xylenes concentrations increased, while benzene and MtBE decreased in the off-site well MW-6; TPH-g, toluene, ethylbenzene, total xylenes, and MtBE decreased, while benzene increased, in the more impacted well MW-3.

Table 2 shows analysis results for gasoline oxygenate and lead scavenger concentrations for the current as well as historical events.

The following gasoline oxygenate and lead scavenger concentrations were observed:

- In MW-1, MW-2, MW-3, MW-6, and EX-2, all gasoline oxygenates and lead scavengers were below laboratory-reporting limits.

- Tertiary-butyl alcohol (TBA) was detected in MW-4, MW-5, and EX-1 at 130 µg/L, 480 µg/L, and 370 µg/L respectively, and was below the laboratory reporting limit in all other First WBZ wells.

  Figure 7 shows the contour map of TBA concentrations in groundwater. The highest TBA impact was to the south of dispenser islands around MW-5. High TBA concentration was also observed around extraction well EX-1.

- Methyl tertiary-amyl ether (TAME) was detected in MW-7 and EX-1 at 2.1 µg/L, and 13 µg/L, respectively and was below the laboratory reporting limit in remaining wells. Figure 8 displays the map of TAME concentrations in First WBZ wells.

- Ethyl tertiary-butyl ether (ETBE) was detected in MW-4 and EX-1 at 1.4 µg/L and 1.9 µg/L, respectively and was below the laboratory-reporting limit in remaining wells. Figure 8 displays the map of ETBE concentrations in First WBZ wells

- Isopropyl ether (DIPE), 1,2-dichloroethane (1,2-DCA), 1,2-dibromoethane (EDB), and ethanol concentrations were below laboratory-reporting limits in all groundwater samples. Analysis results for ethanol are shown in Appendix C.

2.3 Field Measurements, Second WBZ Wells

Table 1 presents calculated groundwater elevations and depths to groundwater for each Second WBZ monitoring well. Depths to groundwater ranged from 21.57 feet in MW-4D to 22.89 feet in MW-1D. Corresponding groundwater elevations ranged from 31.49 feet in MW-3D to 31.55 feet in MW-4D.

Figure 9 displays the contour map of groundwater elevations in the Second WBZ. Groundwater flows easterly as compared to north to slightly northwesterly during the previous monitoring event (First Quarter 2011), at a gradient of 0.001 feet/feet. The groundwater gradient decreased since the previous monitoring event.

Upon equalization with the surrounding aquifer at each well location, when the purge cycle was terminated, DO concentrations in the Second WBZ ranged from 1.99 mg/L in MW-3D to 2.81 mg/L in MW-1D. ORP showed negative potentials in MW-3D and MW-4D and positive potential in MW-1D. Negative redox potentials indicate that contaminants in groundwater are conducive to anaerobic biodegradation. Positive redox potentials are more energetically favorable in utilizing electron acceptors during chemical reactions. This promotes the removal of organic mass from the contaminated groundwater by indigenous bacteria in the subsurface during the release of the transfer of electrons.

Field measurements taken during this monitoring event are included in Appendix B.

2.4 Laboratory Analysis for Second WBZ Wells

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

Table 1 presents TPH-g, BTEX, and MtBE analysis results for the current and historical groundwater monitoring events.

TPH-g, BTEX, and MtBE concentrations were below the laboratory reporting limit in all second WBZ wells except MtBE in MW-3D, which was detected at 5.2 µg/L. Since the previous monitoring event (First Quarter 2011), benzene, total xylenes, and MtBE have decreased in MW-3D; MtBE in MW-4D has also decreased.

Table 2 shows analysis results for gasoline oxygenate and lead scavenger concentrations for the current as well as historical events.

All gasoline oxygenate, lead scavenger, and ethanol concentrations were below laboratory reporting limits in second WBZ wells. Since the previous monitoring event (First Quarter 2011), TAME has deceased in MW-3D.

Figure 10 displays a map of MtBE concentrations in Second WBZ wells.

3. OPERATION OF TREATMENT SYSTEM

SOMA installed a groundwater treatment system at the site in December 2009. The system includes two extraction wells (EX-1 and EX-2), trenching containing influent and effluent lines and electrical conduits, and the treatment system compound. During system operation, extracted groundwater is pumped from extraction wells through underground piping to a fenced treatment compound, adjacent to the existing service station building.

In the treatment compound, groundwater is treated using granular activated carbon (GAC) and subsequently discharged to the sanitary sewer. Two GAC vessels are connected in series. The first unit (1,000 gallons) serves as the primary treatment unit, and the second (55 gallons) provides an additional safety buffer prior to discharge. Effectiveness of the GAC units is monitored by collection and analysis of samples from the system discharge, including a sample collected from water that has passed only through the first GAC unit. When analytical results indicate that the first GAC unit is no longer effectively treating groundwater, the vessel will be removed from the treatment line and refurbished with new carbon.

The treatment system operates under discharge permit issued by Oro Loma Sanitary District (OLSD) in May 2009. This discharge permit was renewed in May 2010. Treated groundwater has been discharging to the OLSD sewer since December 9, 2009. Figure 11 shows the schematic diagram of the groundwater treatment system. Treatment system effluent is sampled monthly to comply with OLSD discharge permit requirements. Table 3 includes analytical results and operational history of the treatment system. As shown in Table 4, as of April 11, 2011, cumulative masses of TPH-g and BTEX extracted from groundwater were approximately 17.06 pounds, 0.75 pounds, 0.20 pounds, 0.36 pounds, and 2.63 pounds, respectively. Appendix D includes laboratory analytical results. Since the system began discharging, approximately 1,574,301 gallons of groundwater have been treated and discharged at the site (as of June 13, 2011).

4. MULTI-PHASE EXTRACTION EVENTS

During Second Quarter 2011, SOMA performed an MPE event from April 18-29, utilizing MPE-1, MPE-2 and MW-5. Duration of the event was increased from five to ten days based on ACHCS directive dated February 17, 2011

MPE operational data is presented in Table 5. Extraction data is presented in Table 6. Field data sheets are presented in Appendix E.

Representative samples were analyzed from the stack of the thermal oxidizer to show compliance with the BAAQMD permit. An influent soil vapor sample was collected through a sampling port located on the vacuum pump discharge manifold. A thermal oxidizer stack vapor sample was collected through a sampling port located at the top of the stack. The air samples were submitted under chain-of-custody documentation to a California state-certified analytical laboratory (Torrent Laboratory, Inc.) and analyzed for TPH-g using USEPA Analytical Method TO-3; and for BTEX, and MtBE using USEPA Analytical Method TO-15. Soil vapor analytical results and abatement efficiencies are presented in Table 7. Certified laboratory analytical reports and chain-of-custody documentation are included in Appendix F.

The estimated mass of volatile organic compounds (VOCs) removed from soil vapor extraction and VOC mass removal rate for the April 2011 event was 27 lbs at 3 lbs/day.

The overall estimated total mass of VOCs extracted by previous MPE events is 712 pounds; this includes 106 pounds extracted during the November 2007 pilot test, 243 pounds during the October 2009 event, 72 pounds during the November 2009 event, 97 pounds during the December 2009 event, 17 pounds during the February 2010 event, 11 pounds during the March 2010 event, 30 pounds during the June 2010 event, 30 pounds during the August 2010 event, 79

pounds during the October 2010 event, and 27 pounds during the April 2011 event. Figure 12 shows the cumulative mass of VOCs removed in pounds.

5. CONCLUSIONS AND RECOMMENDATIONS

Second Quarter 2011 groundwater monitoring and previous MPE events results are summarized below.

- In First WBZ groundwater flows south to slightly southwesterly across the site. In Second WBZ groundwater flows easterly.
- High hydrocarbon concentrations remain in the vicinity of the former UST cavity, near MW-3, where a previous release of petroleum hydrocarbons occurred. However, the highest TPH-g concentration was detected at off-site well MW-6.
- The groundwater treatment system has created a capture zone in the vicinity of EX-1 and EX-2 which is evidenced by a second source area appearing centered on the extraction wells. Highest MtBE and high TBA concentrations were detected at extraction well EX-1.
- Since the previous quarterly monitoring event (First Quarter 2011), TPH-g concentration decreased in MW-3, MW-4, MW-7, EX-1, and EX-2 and increased in MW-1, MW-2, MW-5, and MW-6.
- In the Second WBZ, all contaminants of concern were below laboratory-reporting limits except MtBE in MW-3D which was detected at a low level.
- MPE events conducted since November 2007 have removed an estimated 712 pounds of VOCs.

Based on results of this monitoring event and previous MPE events, SOMA recommends the following action items:

- Continue quarterly groundwater monitoring to increase understanding of seasonal variations in groundwater quality conditions.

Other on-going activities: SOMA is currently preparing to conduct a limited off-site investigation in order to determine the extent of the elevated concentrations of petroleum hydrocarbons detected in off-site monitoring well MW-6 as approved by ACHCS directive dated May 12, 2011.

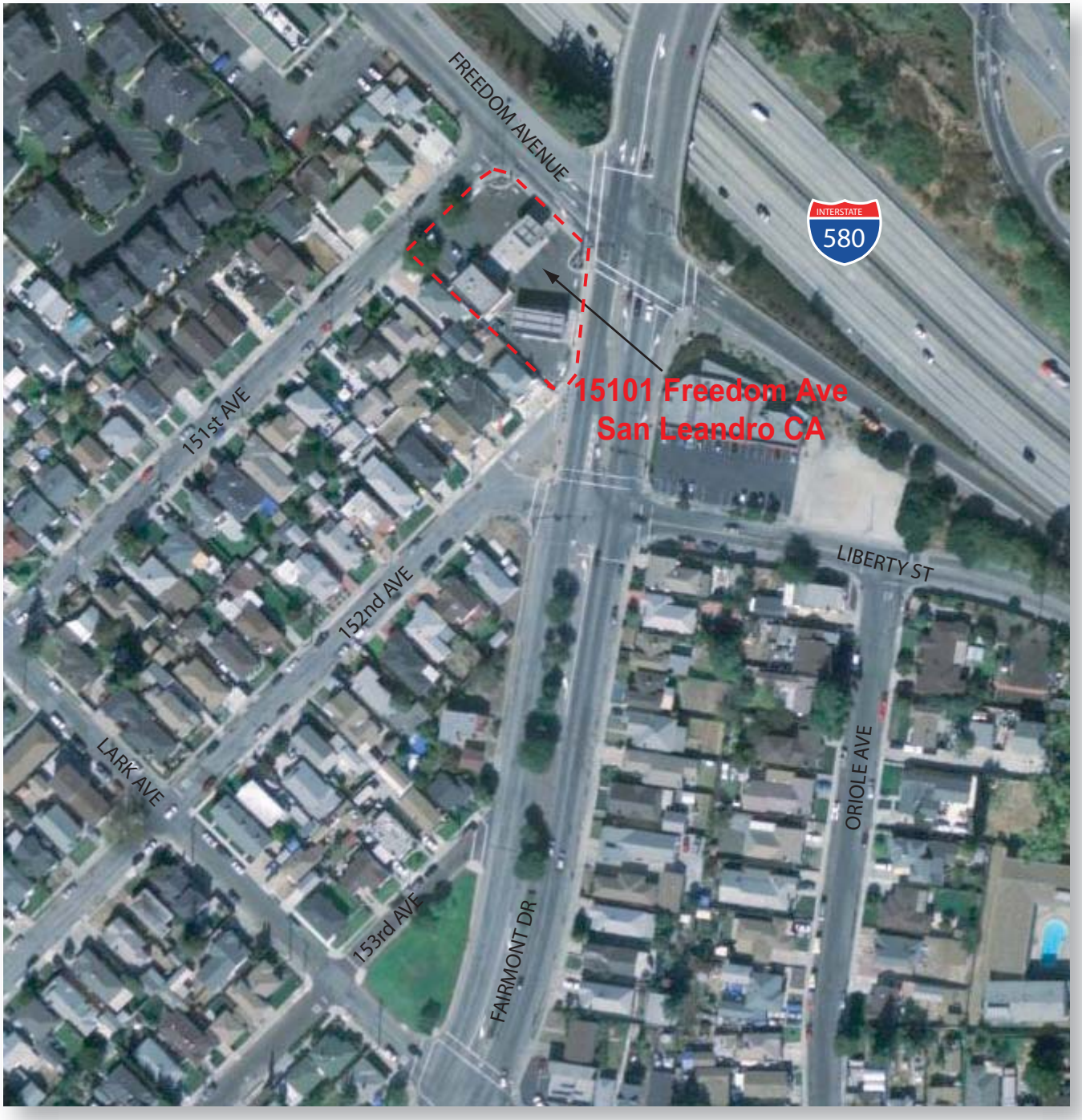
6. REPORT LIMITATIONS

This report is the summary of work done by SOMA, including observations and descriptions of site conditions. It includes analysis results produced by Curtis & Tompkins, Ltd. for the current groundwater monitoring event. Quantities and

locations of wells were selected to provide the required information, but may not be representative of entire site conditions. All conclusions and recommendations are based on laboratory analysis results. Conclusions beyond those specifically stated in this document should not be inferred from this report.

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

Figures



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approximate scale in feet

0 150 300

Figure 1: Site vicinity map.

SOMA ENVIRONMENTAL ENGINEERING, INC.

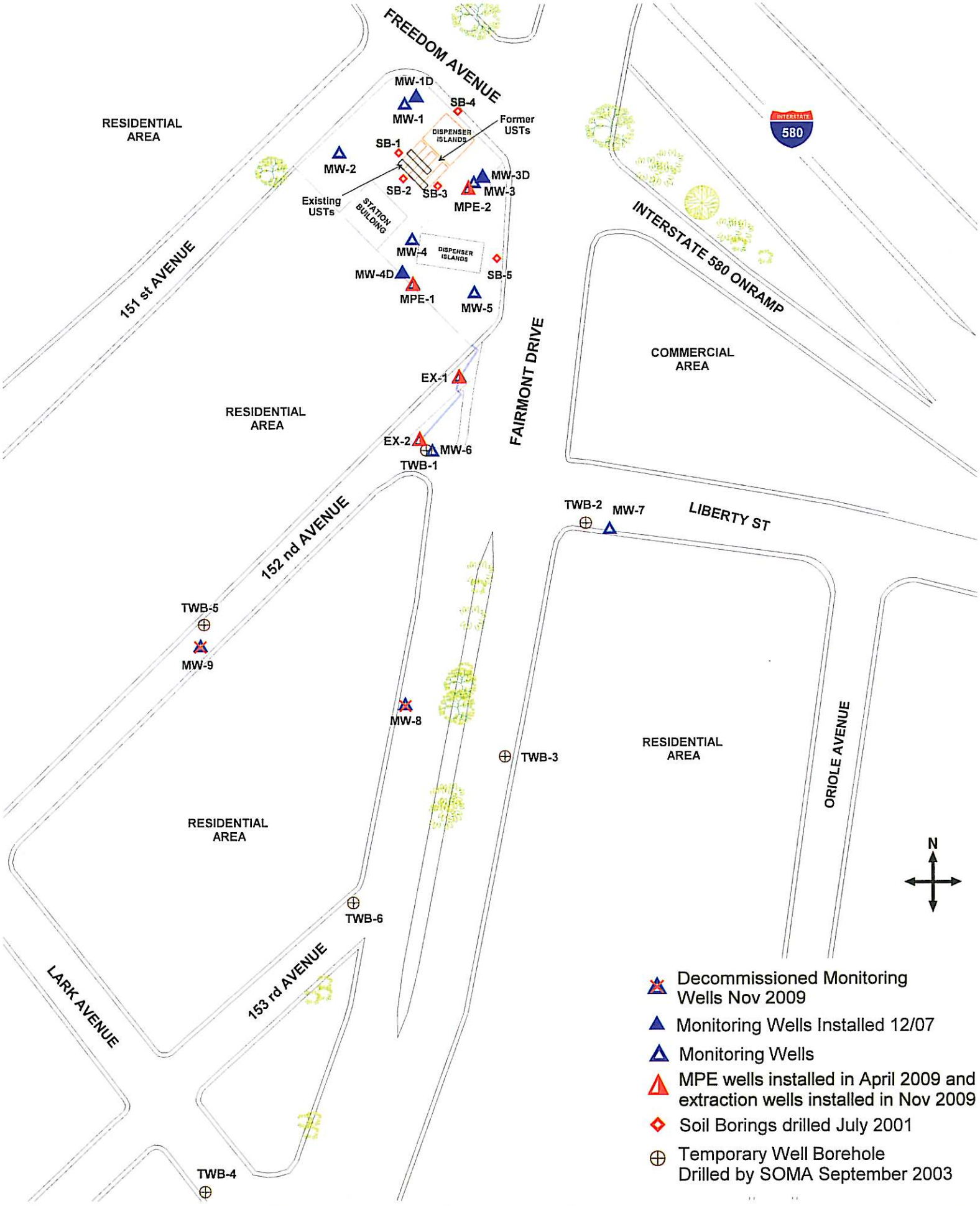

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Figure 2: Site map showing locations of groundwater monitoring wells, soil borings, and extraction wells.

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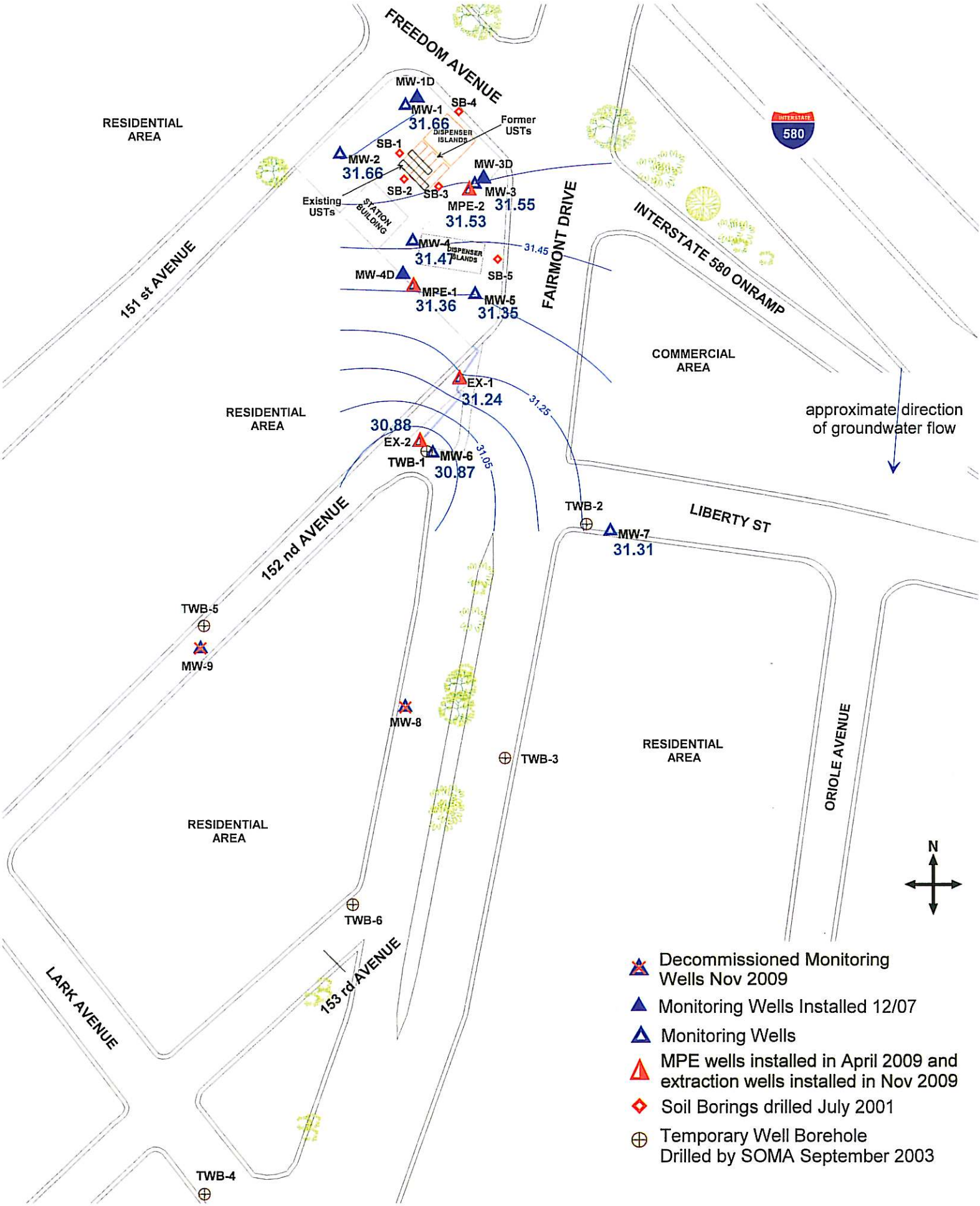

approximate scale in feet

0 50 100

Figure 3: Groundwater Elevation Contour Map in Feet, First WBZ
May 19, 2011

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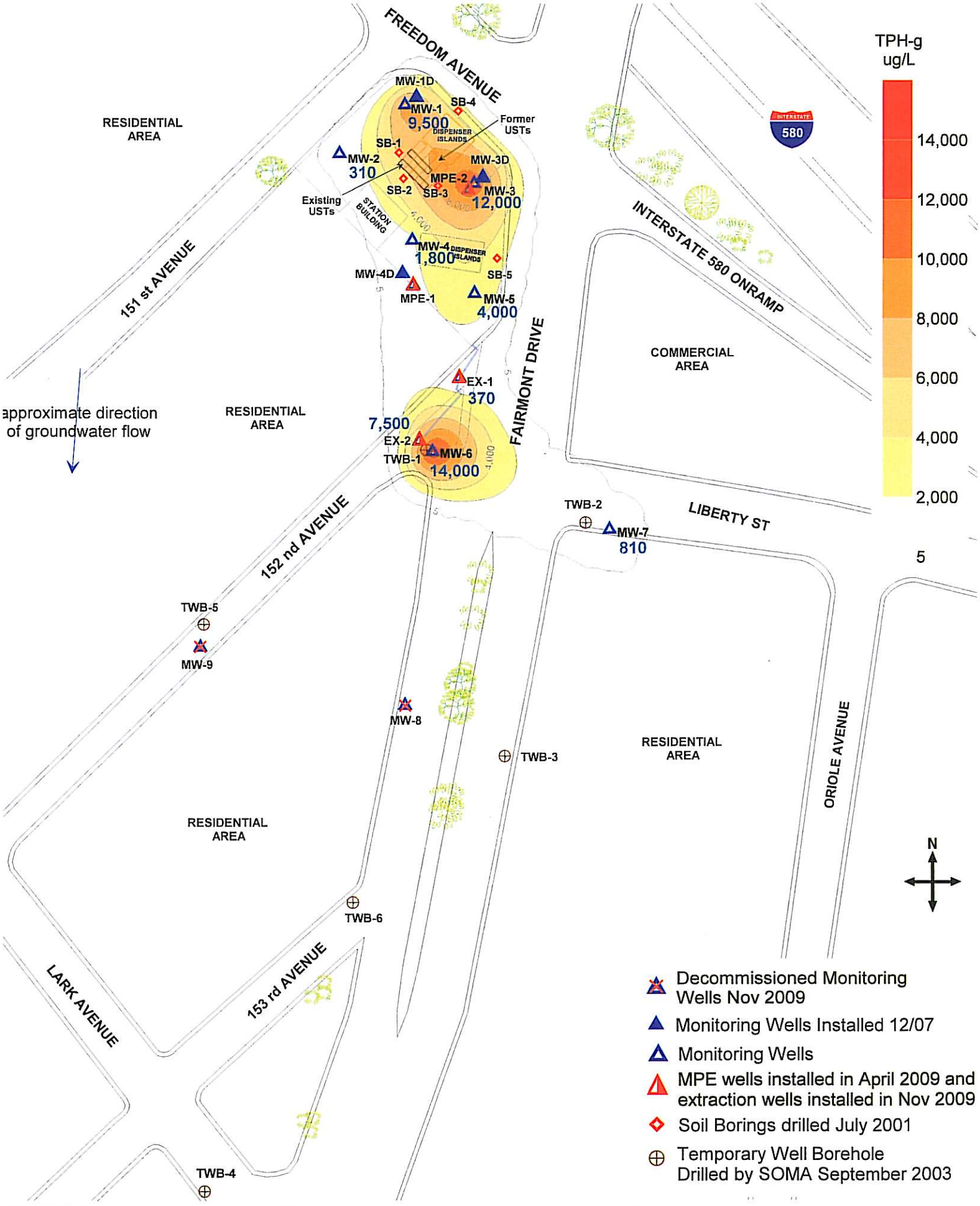

approximate scale in feet

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Figure 4: Contour Map of TPH-g Concentrations in Groundwater, First WBZ, May 19 and 20, 2011

SOMA ENVIRONMENTAL ENGINEERING, INC.

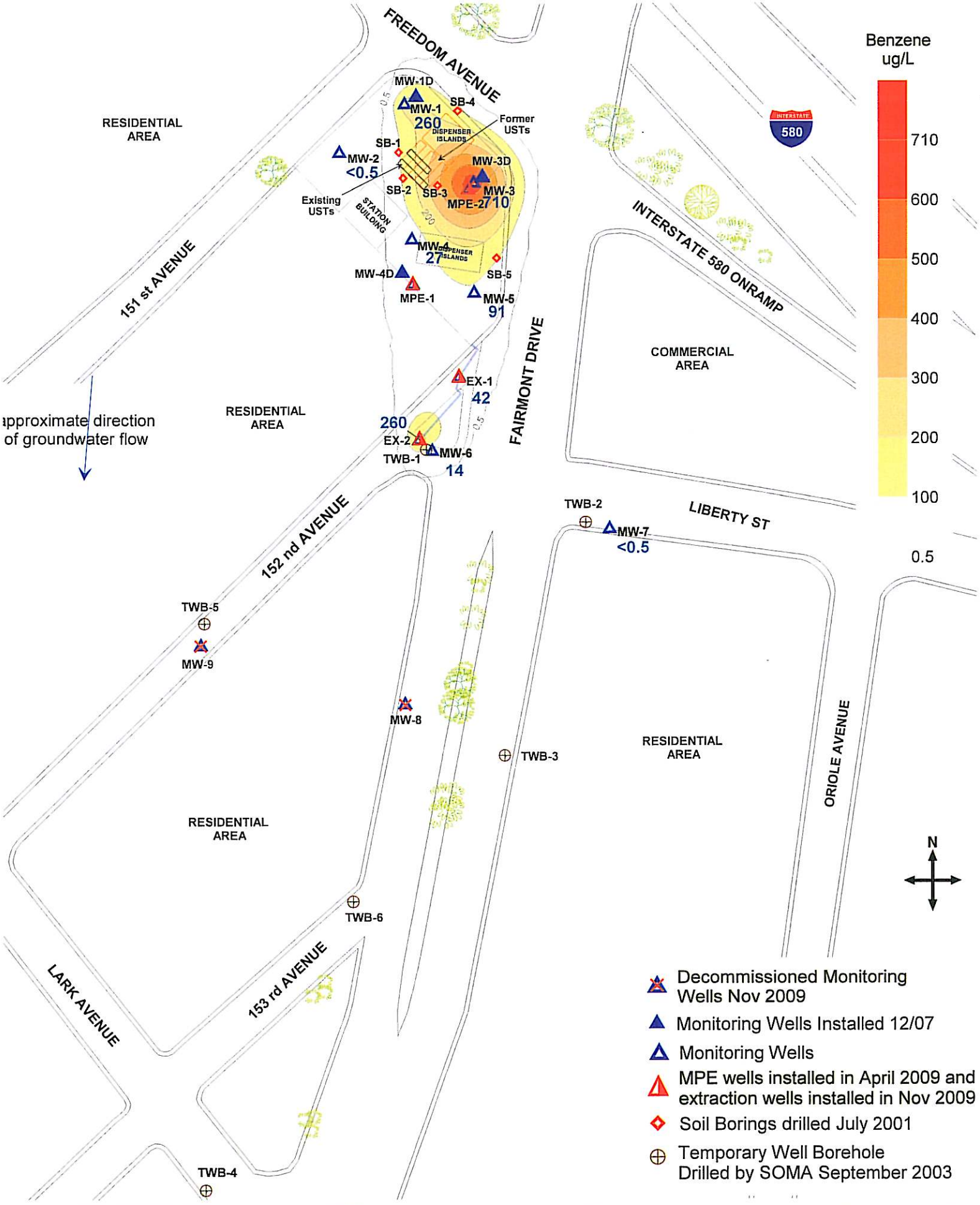

Figure 5: Contour Map of benzene Concentrations in Groundwater, First WBZ, May 19 and 20, 2011

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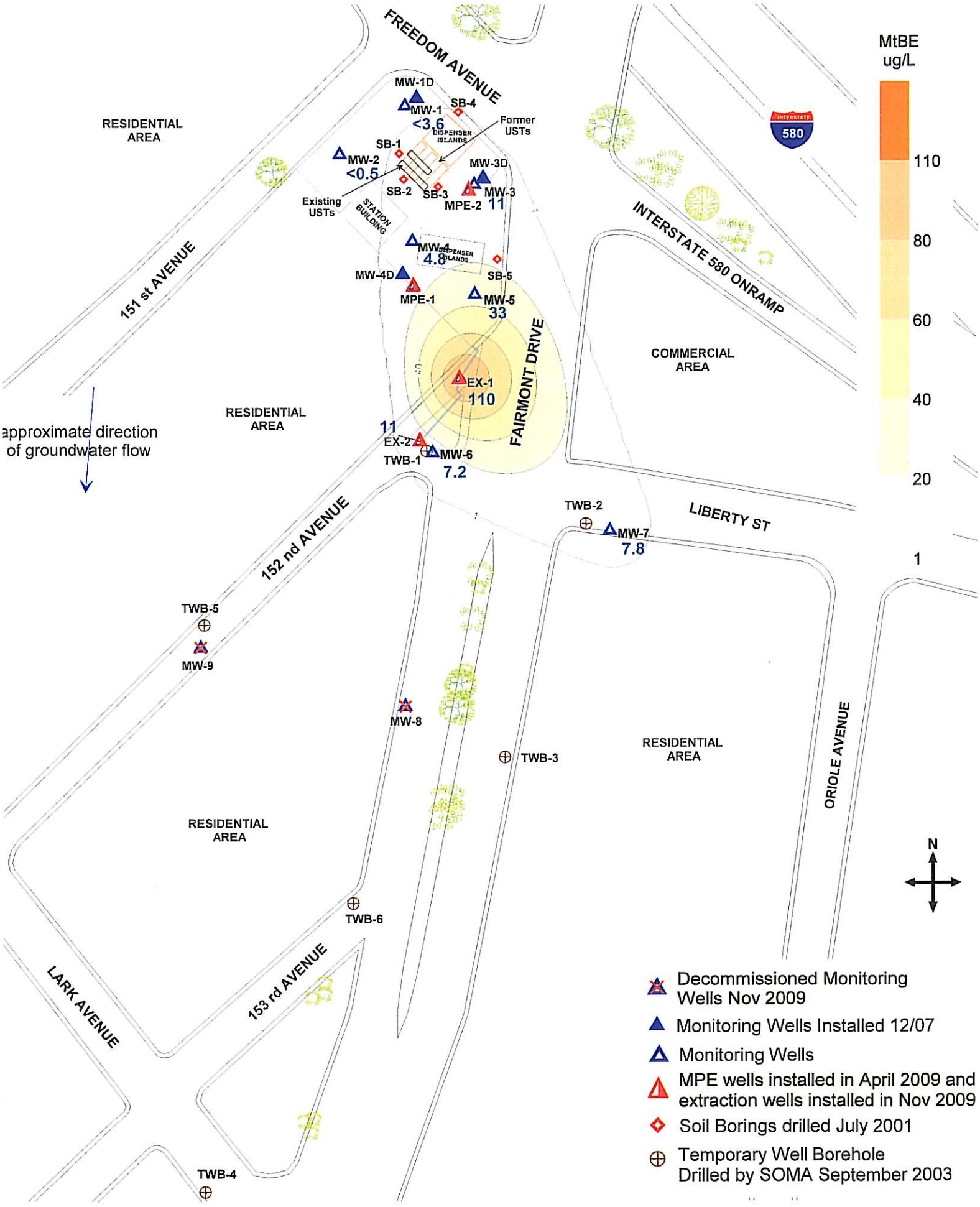

approximate scale in feet

0 50 100

Figure 6: Contour Map of MtBE Concentrations in Groundwater, First WBZ, May 19 and 20, 2011

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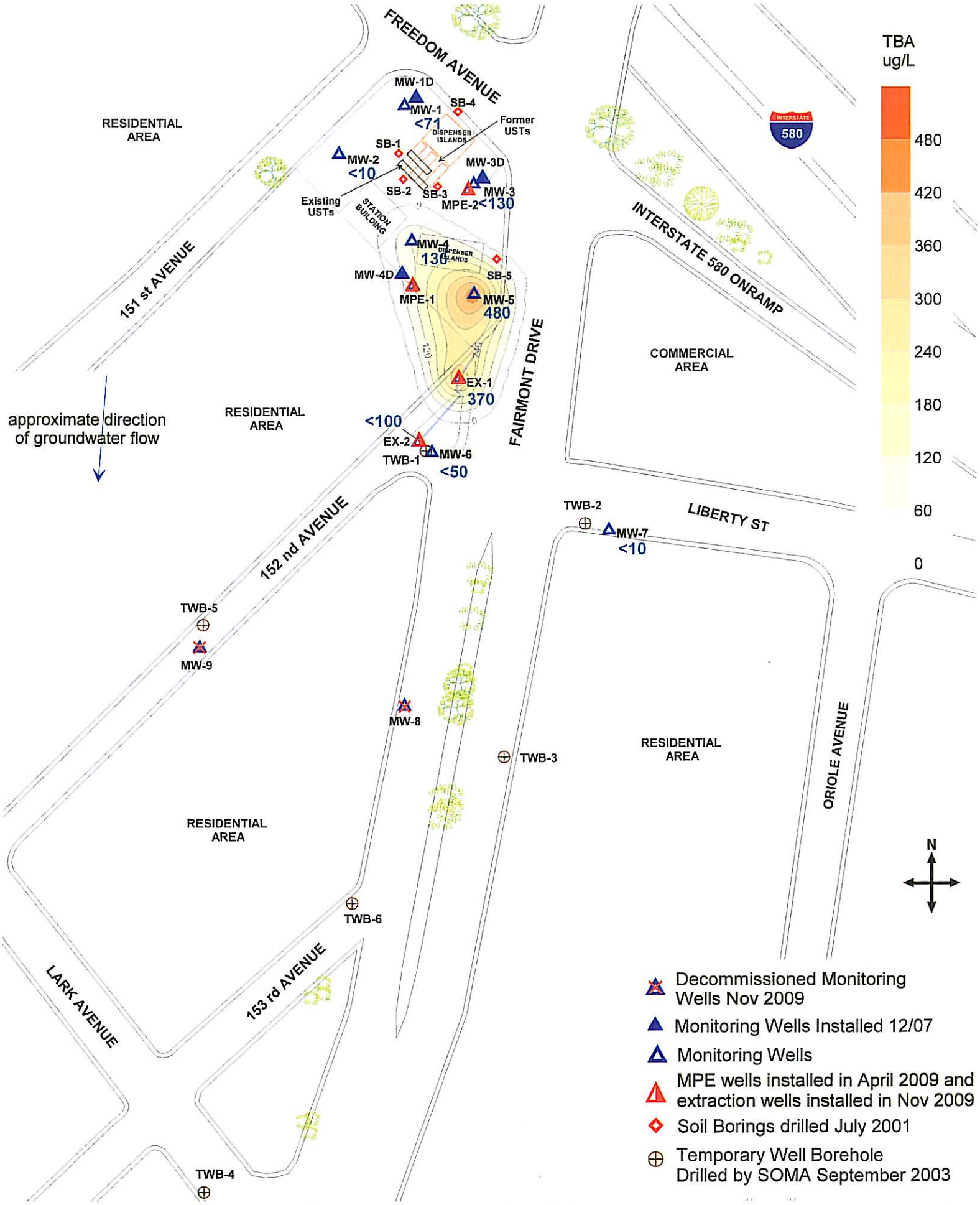

approximate scale in feet

0 50 100

Figure 7: Contour Map of TBA Concentrations in Groundwater, First WBZ, May 19 and 20, 2011

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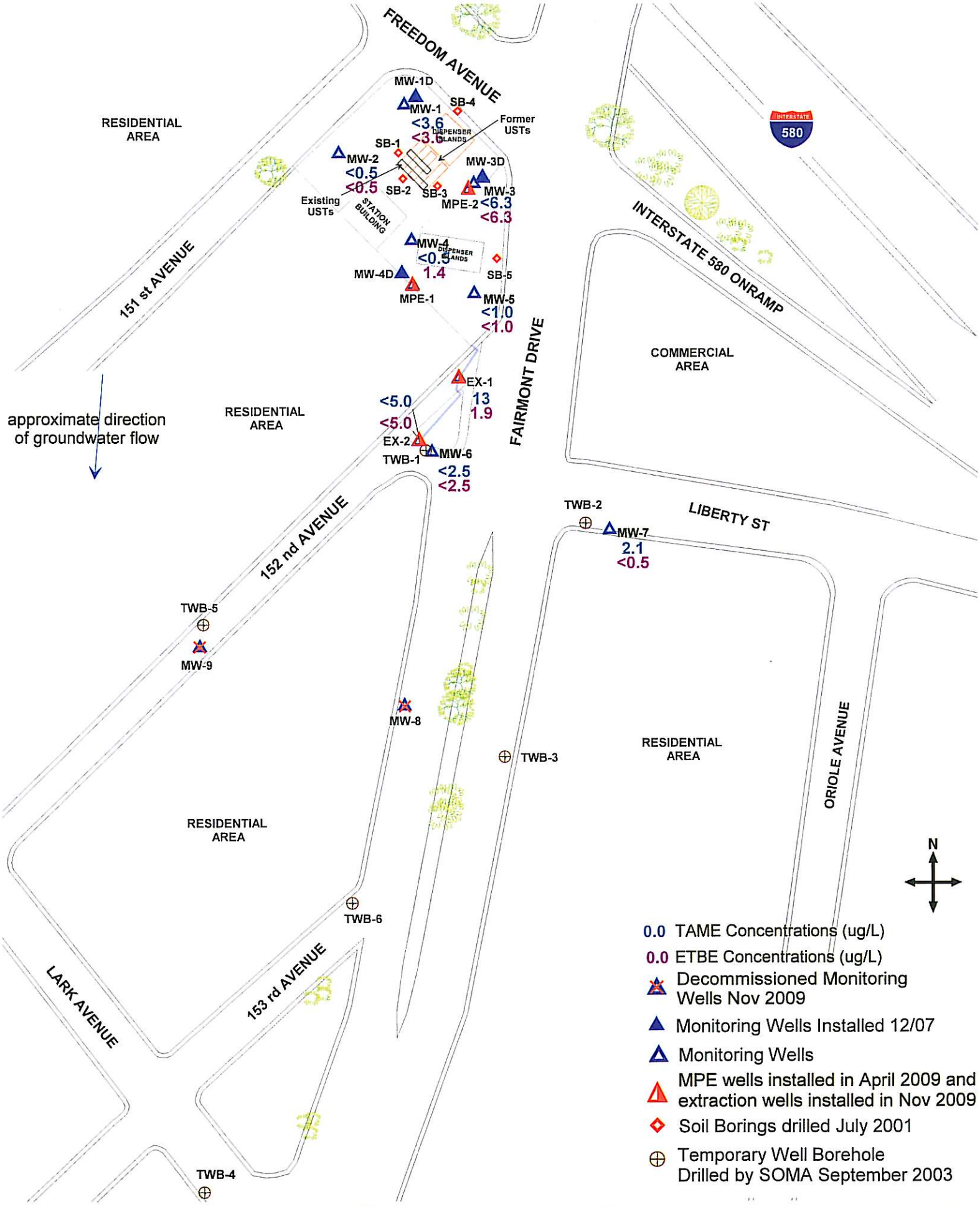

Figure 8: Map of TAME and ETBE Concentrations in Groundwater, First WBZ,May 19 and 20, 2011

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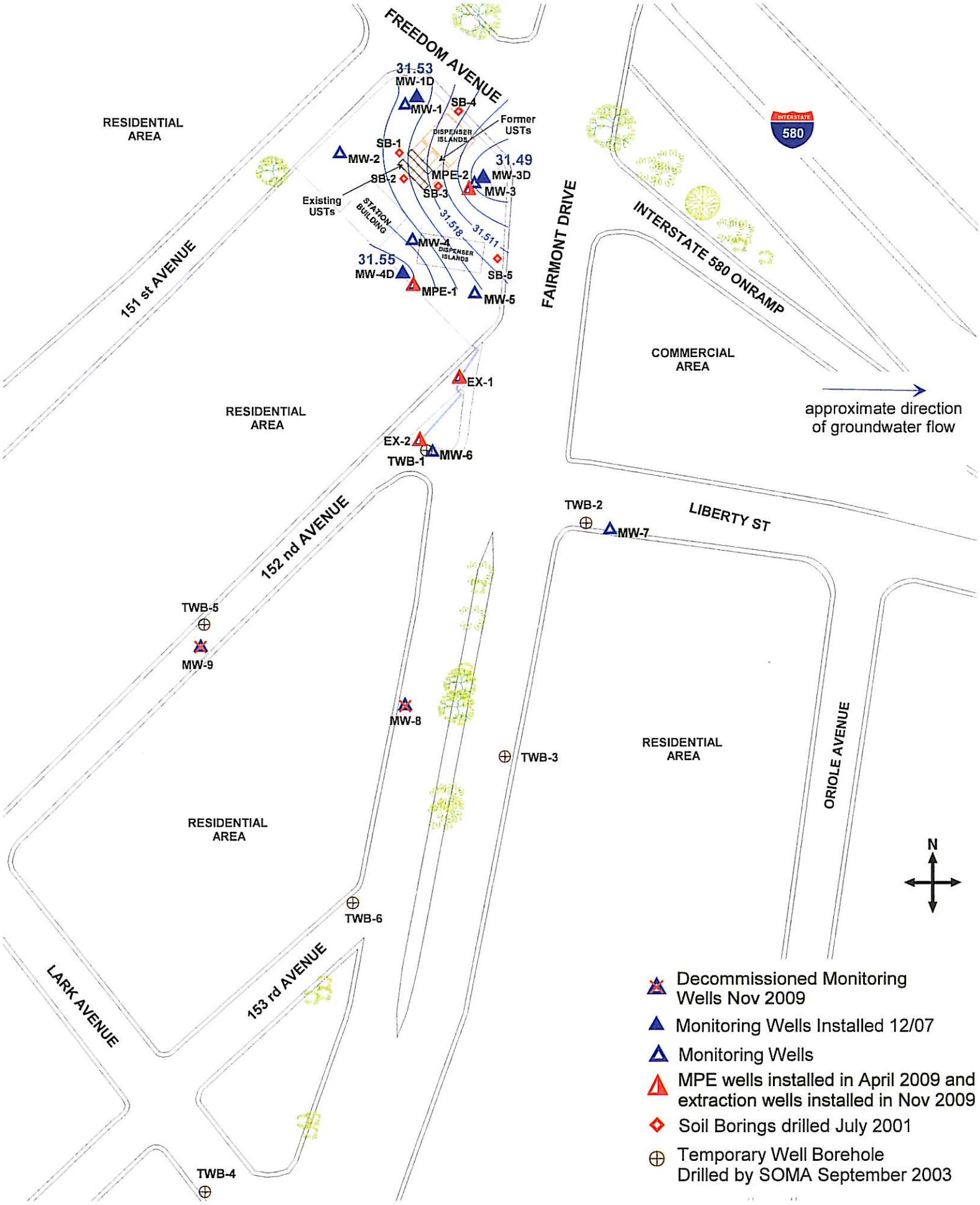

approximate scale in feet

0 50 100

Figure 9: Groundwater Elevation Contour Map in Feet, Second WBZ, May 19, 2011

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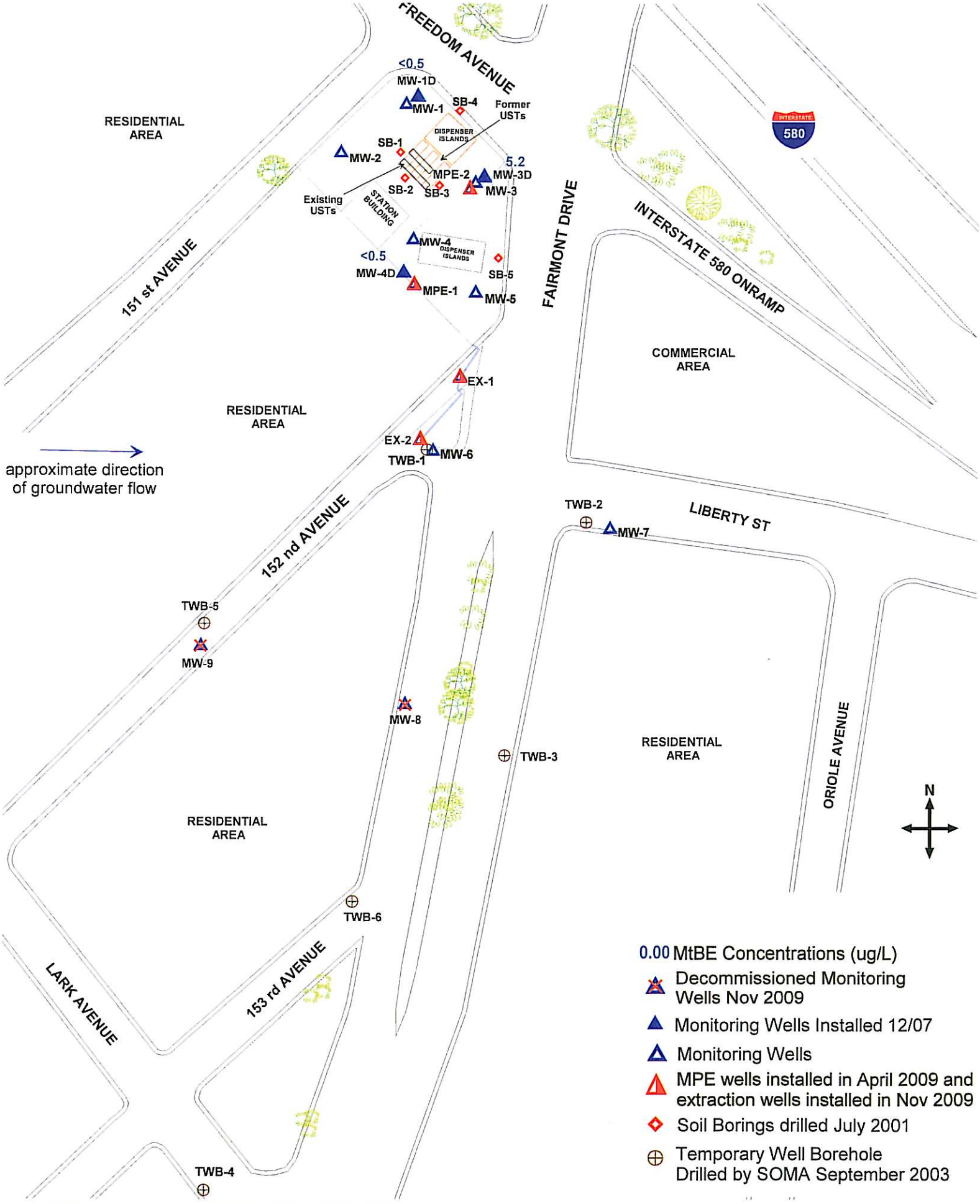

Figure 10: Map Showing Concentrations of MtBE in Groundwater, Second WBZ, May 19 and 20, 2011

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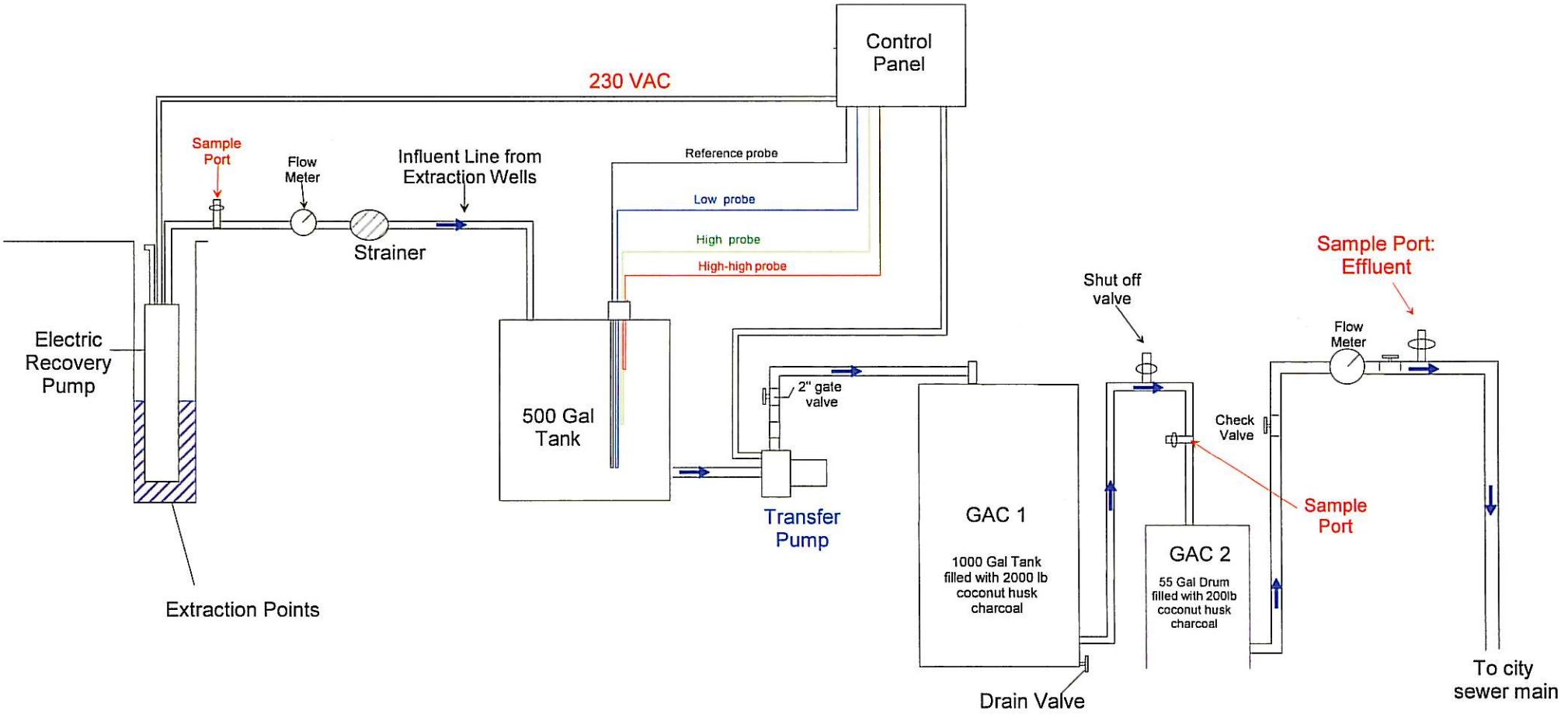

Figure 11: Schematic diagram of Groundwater Remediation System

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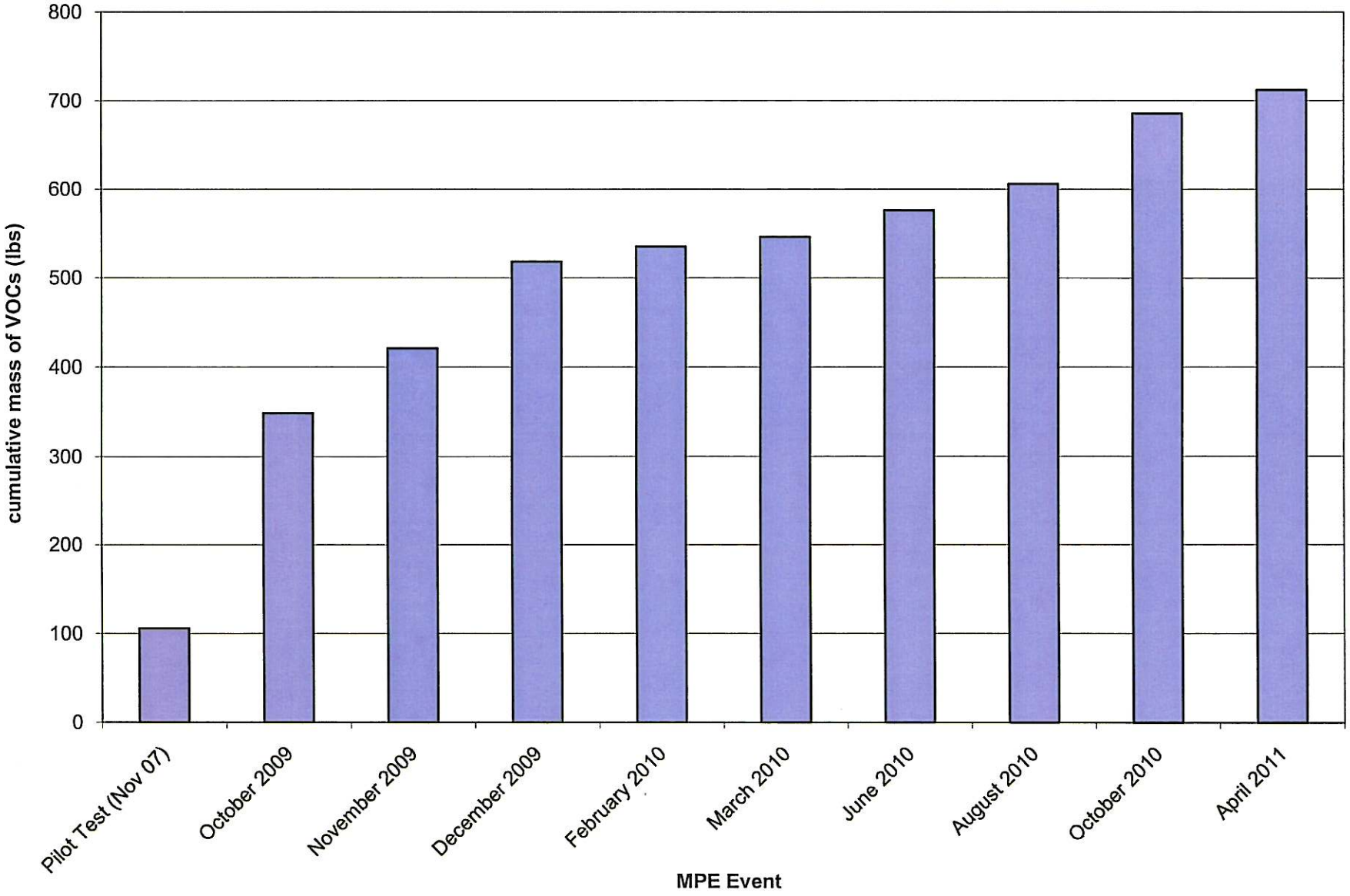

Figure 12: Cumulative mass of VOCs removed

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)
1st WBZ										
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
	1/25/2007	54.46	22.82	31.64	2,640	196	<2.0	105	25.5	7.92
	4/26/2007	54.46	22.67	31.79	861	95.5	<2.0	17	6.36	4.00
	7/25/2007	54.46	23.25	31.21	4,520	412	<4.0	182	77.9	7.48
	10/23/2007	54.46	23.42	31.04	3,900	117	<2.0	87.1	23.87	4.54

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 cont	1/22/2008	54.46	22.59	31.87	2,260	81.3	<2.0	17.5	<2.0	4.23
	4/16/2008	54.46	22.89	31.57	2,320	248	<2.0	54.1	37.3	<0.5
	7/3/2008	54.46	23.33	31.13	5,240	414	<2.0	168	94	6.56
	10/15/2008	54.46	23.76	30.70	4,500 Y	260	<1.0	150	130	3.40
	1/7/2009	54.46	23.25	31.21	4,800	140	<1.3	48	32	1.70
	4/14/2009	54.46	22.52	31.94	1,800 Y	78	<0.5	35	18	2.50
	8/27/2009	54.46	23.6	30.86	4,500	330	<2.0	97	42	4.60
	12/2/2009	54.46	23.43	31.03	3,800 Y	250	<2.0	110	25	2.50
	3/17/2010	54.46	22.32	32.14	1,100	33	<0.50	46	18	1.70
	6/3/2010	54.46	22.88	31.58	10,000	330	4.3	680	841.5	5.20
	9/2/2010	54.46	23.28	31.18	8,900	440	<5.0	510	310	<5.0
	12/2/2010	54.46	23.21	31.25	7,400	250	<3.1	390	180	<3.1
	3/4/2011	54.46	21.95	32.51	2,400	67	<0.5	45	8.4	2.20
	5/20/2011	**54.46**	**22.8**	**31.66**	**9,500**	**260**	**6.2**	**970**	**480**	**<3.6**
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

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 cont.	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
	1/25/2007	52.41	20.89	31.52	623	0.64	<2.0	42.4	4.37	0.66
	4/26/2007	52.41	20.65	31.76	169	<0.5	<2.0	15.2	2.3	<0.5
	7/25/2007	52.41	21.43	30.98	276	0.78	<2.0	22.1	4.04	<0.5
	10/23/2007	52.41	21.59	30.82	535	<0.5	<2.0	18	5.11	<0.5
	1/22/2008	52.31	20.45	31.86	132	<0.5	<2.0	12.2	<2.0	<0.5
	4/15/2008	52.41	20.89	31.52	852	<0.5	<2.0	27.2	4.78	<0.5
	7/2/2008	52.41	21.5	30.91	98.3	<0.5	<2.0	2.76	<2.0	<0.5
	10/15/2008	52.41	22.06	30.35	1,400 [Y]	<0.5	<0.5	60	17	<0.5
	1/7/2009	52.41	21.35	31.06	93	<0.5	<0.5	2.1	0.74	<0.5
	4/13/2009	52.41	20.52	31.89	480 [Y]	<0.5	<0.5	20	5.5	<0.5
	8/27/2009	52.41	21.85	30.56	130	<0.5	<0.5	2.5	0.61	<0.5
	12/1/2009	52.41	21.59	30.82	760 [Y]	<0.5	<0.5	14	1.5	<0.5
	3/17/2010	52.41	20.11	32.30	480	<0.5	<0.5	30	6.9	<0.5
	6/3/2010	52.41	21	31.41	690	<0.5	<0.5	14	2.6	<0.5
	9/2/2010	52.41	21.42	30.99	470	<0.5	<0.5	7.6	1	<0.5
	12/2/2010	52.41	21.44	30.97	470	<0.5	<0.5	7.6	3.3	<0.5
	3/4/2011	52.41	19.65	32.76	240	<0.5	<0.5	6.6	0.8	<0.5
	5/20/2011	**52.41**	**20.75**	**31.66**	**310**	**<0.5**	**<0.5**	**4.8**	**<0.5**	**<0.5**

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
	1/25/2007	53.91	22.34	31.57	19,300	4,820	167	1,540	3,740	3,430
	4/26/2007	53.91	22.24	31.67	30,700	2,350	158	1,470	4,320	1,330
	7/25/2007	53.91	22.83	31.08	34,900	5,400	364	2,080	6,360	1,980
	10/23/2007	53.91	23.01	30.9	22,600	4,070	<86	1,120	3,095	970

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 cont.	1/22/2008	53.96	22.04	31.92	22,100	1,280	453	1,330	3,520	490
	4/16/2008	53.91	22.4	31.51	20,700	2,790	182	860	3,389	263
	7/3/2008	53.91	22.9	31.01	48,500	3,760	346	3,130	12,980	573
	10/16/2008	53.91	23.36	30.55	50,000	3,900	300	3,100	11,000	460
	1/8/2009	53.91	22.82	31.09	54,000	2,600	180	2,500	8,800	220
	4/13/2009	53.91	22.06	31.85	49,000	2,900	170	2,100	8,100	490
	8/27/2009	53.91	23.11	30.80	43,000	2,500	160	1,900	7,000	210
	12/2/2009	53.91	23.00	30.91	30,000	2,100	180	1,600	5,600	91
	3/17/2010	53.91	21.90	32.01	24,000	970	81	1,100	3,700	38
	6/3/2010	53.91	22.49	31.42	31,000	1,200	110	1,300	4,400	34
	9/2/2010	53.91	22.76	31.15	26,000	1,100	81	1,200	3,810	26
	12/2/2010	53.91	22.86	31.05	18,000	830	47	780	2,360	14
	3/4/2011	53.91	21.44	32.47	18,000	410	32	850	2,480	16
	5/20/21011	**53.91**	**22.36**	**31.55**	**12,000**	**710**	**24**	**620**	**1,460**	**11**
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

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 cont.	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
	1/25/2007	53.31	21.86	31.45	4,370	163	<8.6	85.1	269.1	1,050
	4/26/2007	53.31	21.63	31.68	4,380	140	<8.6	67	276.8	576
	7/25/2007	53.31	22.49	30.82	4,970	220	<8.60	198	241.5	1,040
	10/23/2007	53.31	22.69	30.62	4,200	267	<8.6	147	155.5	1,220
	1/22/2008	53.36	21.39	31.97	2,180	133	<22.0	43.1	32.2	1,800
	4/15/2008	53.31	21.9	31.41	4,240	90.4	<22.0	107	380	674
	7/2/2008	53.31	22.55	30.76	2,300	193	<22.0	212	183	4,050
	10/16/2008	53.31	23.13	30.18	8,900	320	3.7	430	1,160	450
	1/8/2009	53.31	22.42	30.89	19,000	430	44	590	3,380	440
	4/13/2009	53.31	21.51	31.80	21,000	400	38	450	2,880	330
	8/27/2009	53.31	22.94	30.37	16,000	960	64	560	2,120	290
	12/2/2009	53.31	22.36	30.95	4,400	480	6	170	640	110
	3/17/2010	53.31	21.39	31.92	14,000	260	6	230	1,220	93
	6/3/2010	53.31	22.23	31.08	18,000	240	4	310	770	41
	9/2/2010	53.31	22.51	30.80	1,800	800	<3.6	150	25	33
	12/2/2010	53.31	22.71	30.60	3,800	1,500	<10	200	115	29
	3/3/2011	53.31	20.64	32.67	2,400	28	<0.71	28	17	3
	5/19/2011	**53.31**	**21.84**	**31.47**	**1,800**	**27**	**<0.5**	**29**	**11.2**	**4.8**

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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	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
	1/25/2007	50.53	19.19	31.34	3,960	340	<22	323	150.1	1,740
	4/26/2007	50.53	18.89	31.64	4,590	187	<8.6	307	116.5	861
	7/25/2007	50.53	19.81	30.72	6,490	419	21.8	413	223.2	913
	10/23/2007	50.53	19.98	30.55	6,120	550	11	284	141.4	433

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 cont.	1/22/2008	50.18	18.69	31.49	9,810	572	22	574	184.1	126
	4/15/2008	50.18	19.16	31.02	8,890	335	15.1	477	397.5	136
	7/3/2008	50.53	19.88	30.65	13,100	949	34.4	875	825.5	176
	10/16/2008	50.53	20.45	30.08	11,000	870	25	820	668	160
	1/8/2009	50.53	19.72	30.81	12,000	490	21	690	456	76
	4/13/2009	50.53	18.81	31.72	9,000 [Y]	200	11	390	198	44
	8/27/2009	50.53	21.30	29.23	7,400	610	15	320	185	66
	12/2/2009	50.53	20.00	30.53	8,400 [Y]	400	12	540	296	45
	3/17/2010	50.53	18.73	31.80	4,800	120	8.7	120	107	14
	6/4/2010	50.53	19.60	30.93	7,200	160	5.7	190	149.2	24
	9/2/2010	50.53	19.82	30.71	9,200	110	12	270	318	35
	12/2/2010	50.53	20.10	30.43	9,100	170	6.7	350	442	23
	3/4/2011	50.53	18.00	32.53	2,600	18	0.62	54	18.1	3
	5/20/2011	**50.53**	**19.18**	**31.35**	**4,000**	**91**	**8.5**	**110**	**106**	**33**
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

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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-6 cont.	1/25/2007	45.82	15.76	30.06	3,220	25.2	<2.0	219	174	14.7
	4/26/2007	45.82	15.18	30.64	3,110	28	<2.0	165	138.47	14.6
	7/25/2007	45.82	16.82	29.00	4,960	54.1	<2.0	199	255.87	8.05
	10/23/2007	45.82	16.91	28.91	9,610	64.3	<2.0	188	302.6	5.81
	1/21/2008	45.82	15.36	30.46	3,290	33	<2.0	149	131.31	3.86
	4/15/2008	45.82	15.73	30.09	2,070	10.8	<2.0	51.1	67	<0.5
	7/2/2008	45.82	16.9	28.92	7,900	42.4	<2.0	194	296	3.58
	10/15/2008	45.82	17.21	28.61	18,000 [Y]	42	1.4	320	673	1.7
	1/7/2009	45.82	17.08	28.74	13,000	47	<3.1	210	425	<3.1
	4/13/2009	45.82	15.52	30.30	7,200 [Y]	26	<1.3	170	312.6	2.6
	8/26/2009	45.82	17.82	28.00	10,000 [Y]	25	<2.0	130	294	2.2
	12/1/2009	45.82	17.34	28.48	11,000 [Y]	31	6.1	220	539	<2.0
	3/16/2010	45.82	14.81	31.01	31,000	63	140	970	4,200	64
	6/3/2010	45.82	15.72	30.10	27,000	22	67	840	3,100	32
	9/1/2010	45.82	16.86	28.96	33,000	24	34	1,100	3,780	12
	12/2/2010	45.82	16.98	28.84	70,000	32	55	1,700	5,670	18
	3/3/2011	45.82	14.35	31.47	7,000	18	<2.5	97	237	11
	5/20/2011	**45.82**	**14.95**	**30.87**	**14,000**	**14**	**<2.5**	**300**	**823**	**7.2**
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

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-7 cont.	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
	1/25/2007	44.74	13.93	30.81	340	<0.5	<2.0	6.84	2.44	1.63
	4/26/2007	44.74	14.44	30.30	552	<0.5	<2.0	11.4	6.11	4.12
	7/25/2007	44.74	14.79	29.95	1,230	<0.5	<2.0	27	19.24	3.2
	10/23/2007	44.74	14.88	29.86	1,730	0.67	<2.0	20.7	17.31	8.44
	1/21/2008	44.74	13.34	31.40	610	1.15	<2.0	8.4	4.34	17.2
	4/15/2008	44.74	13.91	30.83	1,460	<0.5	<2.0	15.9	19.7	17.3
	7/2/2008	44.74	14.87	29.87	1,450	<0.5	<2.0	11	6.8	22.1
	10/15/2008	44.74	15.68	29.06	1,900 [Y]	0.56	1.2	27	39.5	55
	1/7/2009	44.74	14.72	30.02	2,700	1.2	2.9	11	25	39
	4/13/2009	44.74	13.54	31.20	2,300 [Y]	<0.5	<0.5	15	6.3	63
	8/26/2009	44.74	15.84	28.90	2,700 [Y]	<0.5	<0.5	48	53	140
	12/1/2009	44.74	15.03	29.71	1,800 [Y]	<0.5	<0.5	22	15	120
	3/16/2010	44.74	12.56	32.18	1,100	<0.5	<0.5	3.2	1.4	65
	6/3/2010	44.74	13.80	30.94	740	<0.5	<0.5	1.8	0.62	28
	9/1/2010	44.74	14.84	29.90	1,200	<0.5	<0.5	10	3.2	29
	12/2/2010	44.74	14.74	30.00	1,400	<0.5	<0.5	8	0.74	21
	3/3/2011	44.74	13.31	31.43	1,000	<0.5	<0.5	1.8	<0.5	16
	5/19/2011	**44.74**	**13.43**	**31.31**	**810**	**<0.5**	**<0.5**	**2.2**	**0.79**	**7.8**
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

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 cont.	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
	1/25/2007	41.14	11.44	29.70	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	4/26/2007	41.14	10.81	30.33	<50	<0.5	<2.0	4.29	<2.0	<0.5
	7/25/2007	41.14	12.31	28.83	<50	<0.5	<2.0	4.39	<2.0	<0.5
	10/23/2007	41.14	12.37	28.77	<50	<0.5	<2.0	4.31	<2.0	<0.5
	1/21/2008	41.14	11.02	30.12	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	4/15/2008	41.14	11.44	29.70	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	7/2/2008	41.14	12.39	28.75	94.8	<0.5	<2.0	1	<2.0	<0.5
	10/15/2008	41.14	13.42	27.72	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	1/7/2009	41.14	12.50	28.64	<50	<0.5	<0.5	<0.5	0.6	<0.5
	4/13/2009	41.14	11.23	29.91	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	8/27/2009	41.14	13.24	27.90	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	Well Decommissioned 11/13/2009									
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

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 cont.	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
	1/25/2007	40.26	10.67	29.59	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	4/26/2007	40.26	10.05	30.21	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	7/25/2007	40.26	11.44	28.82	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	10/23/2007	40.26	11.59	28.67	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	1/21/2008	40.26	10.37	29.89	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	4/15/2008	40.26	10.56	29.70	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	7/2/2008	40.26	11.95	28.31	161	<0.5	<2.0	2.15	<2.0	<0.5
	10/15/2008	40.26	12.64	27.62	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	1/7/2009	40.26	11.75	28.51	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	4/13/2009	40.26	10.89	29.37	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	8/26/2009	40.26	12.50	27.76	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	Well Decommissioned 11/13/2009									

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)
Extraction Wells										
EX-1	12/2/2009	47.36	17.02	30.34	2,900	120	4	64	410	25
	3/16/2010	47.36	19.08	28.28	2,200	150	18	94	326	210
	6/3/2010	47.36	17.02	30.34	3,600	180	6.3	150	428	83
	9/1/2010	47.36	16.88	30.48	550	6.5	0.5	6.9	31.7	38
	12/2/2010	47.36	19.84	27.52	<200	3.1	<2.0	<2.0	<2.0	210
	3/3/2011	47.36	14.96	32.4	530	51	0.94	15	31.3	110
	5/19/2011	**47.36**	**16.12**	**31.24**	**370**	**42**	**<0.71**	**7.6**	**17.2**	**110**
EX-2	12/2/2009	45.96	17.56	28.4	7,100 [Y]	9.3	3.2	440	770	<3.1
	3/16/2010	45.96	19.65	26.31	13,000	600	360	770	2,250	15
	6/3/2010	45.96	17.10	28.86	16,000	590	400	700	2,500	9.5
	9/1/2010	45.96	16.99	28.97	6,100	230	74	200	890	11
	12/2/2010	45.96	20.87	25.09	14,000	510	270	640	2,170	15
	3/3/2011	45.96	14.61	31.35	8,600	340	52	460	1,350	13
	5/19/2011	**45.96**	**15.08**	**30.88**	**7,500**	**260**	**65**	**390**	**1,080**	**11**
MPE Wells										
MPE-1	12/1/2009	51.96	21.41	30.55	NA	NA	NA	NA	NA	NA
	3/16/2010	51.96	20.22	31.74	NA	NA	NA	NA	NA	NA
	6/3/2010	51.96	21.18	30.78	NA	NA	NA	NA	NA	NA
	9/1/2010	51.96	21.25	30.71	NA	NA	NA	NA	NA	NA
	12/2/2010	51.96	21.64	30.32	NA	NA	NA	NA	NA	NA
	3/3/2011	51.96	19.33	32.63	NA	NA	NA	NA	NA	NA
	5/19/2011	**51.96**	**20.6**	**31.36**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
MPE-2	12/1/2009	53.72	22.87	30.85	NA	NA	NA	NA	NA	NA

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)
MPE-2 cont.	3/16/2010	53.72	21.7	32.02	NA	NA	NA	NA	NA	NA
	6/3/2010	53.72	22.35	31.37	NA	NA	NA	NA	NA	NA
	9/1/2010	53.72	23.7	30.02	NA	NA	NA	NA	NA	NA
	12/2/2010	53.72	22.7	31.02	NA	NA	NA	NA	NA	NA
	3/3/2011	53.72	21.25	32.47	NA	NA	NA	NA	NA	NA
	5/19/2011	**53.72**	**22.19**	**31.53**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
2nd WBZ										
MW-1D	1/3/2008	54.42		-	<50	<0.50	<2.0	<0.50	<2.0	<0.50
	1/22/2008	54.42	22.85	31.57	<50	<0.50	<2.0	<0.50	<2.0	<0.50
	4/16/2008	54.42	23.10	31.32	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	7/3/2008	54.42	23.44	30.98	75.9	<0.5	<2.0	0.54	<2.0	<0.5
	10/15/2008	54.42	23.82	30.60	120	1.6	<0.5	2.8	3.6	<0.5
	1/8/2009	54.42	23.44	30.98	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	4/14/2009	54.42	23.06	31.36	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	8/26/2009	54.42	23.73	30.69	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	12/1/2009	54.42	23.59	30.83	330 [Y]	<0.5	<0.5	1.3	2.2	<0.5
	3/16/2010	54.42	22.60	31.82	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	6/4/2010	54.42	23.10	31.32	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	9/1/2010	54.42	23.51	30.91	<50	<0.5	<0.5	0.52	1.8	<0.5
	12/3/2010	54.42	23.41	31.01	61	<0.5	<0.5	1.0	3.73	<0.5
	3/3/2011	54.42	22.27	32.15	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	5/19/2011	**54.42**	**22.89**	**31.53**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
MW-3D	1/3/2008	54.10		-	<50	<0.50	<2.0	<0.50	<2.0	87.6
	1/22/2008	54.10	22.31	31.79	<50	<0.50	<2.0	<0.50	<2.0	88.3
	4/16/2008	54.10	22.64	31.46	<50	<0.5	<2.0	<0.5	<2.0	71.1
	7/3/2008	54.10	23.17	30.93	<50	<0.5	<2.0	<0.5	<2.0	67.4
	10/16/2008	54.10	23.62	30.48	<50	<0.5	<0.5	<0.5	<0.5	37

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-3D cont.	1/8/2009	54.10	23.07	31.03	<50	<0.5	<0.5	<0.5	<0.5	29
	4/14/2009	54.10	22.36	31.74	<50	<0.5	<0.5	<0.5	<0.5	44
	8/26/2009	54.10	23.41	30.69	<50	<0.5	<0.5	<0.5	<0.5	20
	12/1/2009	54.10	23.27	30.83	110 Y	<0.5	<0.5	<0.5	0.52	24
	3/16/2010	54.10	22.10	32.00	<50	<0.5	<0.5	<0.5	<0.5	7.1
	6/4/2010	54.10	22.70	31.40	<50	<0.5	<0.5	<0.5	<0.5	17
	9/1/2010	54.10	23.09	31.01	78	<0.5	<0.5	1.1	4.71	24
	12/3/2010	54.10	22.90	31.20	<50	<0.5	<0.5	0.56	1.4	13
	3/3/2011	54.10	21.66	32.44	<50	1.3	<0.5	<0.5	0.59	14
	5/19/2011	**54.10**	**22.61**	**31.49**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**5.2**
MW-4D	1/4/2008	53.12		-	<50	<0.50	<2.0	<0.50	<2.0	<0.50
	1/22/2008	53.12	21.11	32.01	91.5	18.7	<2.0	7.08	11.42	219
	4/15/2008	53.12	21.67	31.45	<50	<0.5	<2.0	<0.5	<2.0	27
	7/3/2008	53.12	22.39	30.73	<50	<0.5	<2.0	<0.5	<2.0	6.27
	10/16/2008	53.12	22.98	30.14	<50	<0.5	<0.5	<0.5	<0.5	1.9
	1/8/2009	53.12	22.25	30.87	<50	<0.5	<0.5	<0.5	<0.5	2
	4/14/2009	53.12	21.34	31.78	<50	<0.5	<0.5	<0.5	<0.5	2.2
	8/27/2009	53.12	22.79	30.33	<50	<0.5	<0.5	<0.5	<0.5	2.2
	12/1/2009	53.12	22.49	30.63	120 Y	<0.5	<0.5	1.4	2.3	2.3
	3/16/2010	53.12	21.02	32.10	<50	<0.5	<0.5	<0.5	<0.5	0.65
	6/4/2010	53.12	21.93	31.19	<50	<0.5	<0.5	<0.5	<0.5	1.1
	9/1/2010	53.12	23.32	29.80	<50	<0.5	<0.5	0.85	3.76	2.2
	12/3/2010	53.12	22.46	30.66	<50	<0.5	<0.5	<0.5	0.67	<0.5
	3/3/2011	53.12	20.45	32.67	<50	<0.5	<0.5	<0.5	<0.5	0.58
	5/19/2011	**53.12**	**21.57**	**31.55**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

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)
1573 153 RD	7/2/2008	NS	NM	NC	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	10/16/2008	NS	NM	NC	<50	<0.5	<0.5	<0.5	<0.5	<0.5
Equipment Blanks										
EB-PMP	1/21/2008	-	-	-	<50	<0.50	<2.0	<0.50	<2.0	<0.50
EB-PRB	1/21/2008	-	-	-	<50	<0.50	<2.0	<0.50	<2.0	<0.50
EB-PMP2	1/22/2008	-	-	-	<50	<0.50	<2.0	<0.50	<2.0	<0.50
EB-PRB2	1/22/2008	-	-	-	<50	<0.50	<2.0	<0.50	<2.0	<0.50
ESL (ug/L)	-	-	-	-	**100**	**1**	**40**	**30**	**20**	**5**

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.

NC: Not Calculated

[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.

Y: Sample exhibits chromatographic pattern which does not resemble standard

[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.

EB-PMP/EB-PRB: Equipment Blanks for Pump and Probe

ESL: Environmental Screening Levels per CRWQCB SFBay Region Interim Final Nov. 2007 (Revised May 2008);
Table F-1a,Groundwater Screening Levels (groundwater is a current or potential drinking water resource)

MW-8 and MW-9 were decommissioned November 13, 2009

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)	1,2-DCA (µg/L)	EDB (µg/L)
1st WBZ							
MW-1	8/8/2002	78	<1.3	<1.3	<1.3	NA	NA
	11/1/2002	42	< 1.0	< 1.0	< 1.0	NA	NA
	2/21/2003	47	<0.5	<0.5	<0.5	NA	NA
	5/28/2003	25	<0.5	<0.5	<0.5	NA	NA
	8/12/2003	<10	<0.5	<0.5	<0.5	NA	NA
	10/9/2003	70	<1.0	<1.0	<1.0	NA	NA
	1/15/2004	55	<0.5	<0.5	<0.5	NA	NA
	5/25/2004	62	<0.7	<0.7	<0.7	NA	NA
	9/21/2004	<10	<0.5	<0.5	<0.5	NA	NA
	12/14/2004	<21.5	<4.3	<4.3	<17.2	NA	NA
	3/11/2005	81	<0.5	<0.5	<2.0	NA	NA
	6/15/2005	<10	<0.5	<0.5	<2.0	NA	NA
	8/26/2005	68.9	<2.15	<2.15	<8.6	NA	NA
	11/11/2005	46	<2.15	<2.15	<8.6	NA	NA
	2/9/2006	11.3	<0.5	<0.5	<2.0	NA	NA
	5/9/2006	<10	<0.5	<0.5	<2.0	0.51	<0.5
	8/10/2006	<43	<2.15	<2.15	<8.60	3.37	<2.15
	10/26/2006	39.4	<1.0	<1.0	<4.0	2.92	<1.0
	1/25/2007	41.4	<0.5	<0.5	<2.0	1.36	<0.5
	4/26/2007	39.6	<0.5	<0.5	<2.0	<0.5	<0.5
	7/25/2007	46.5	<1.0	<1.0	<4.0	<1.0	<1.0
	10/23/2007	53.7	<0.5	<0.5	<2.0	<0.5	<0.5
	1/22/2008	23.8	<0.5	<0.5	2.16	<0.5	<0.5
	4/16/2008	8.36	<0.5	<0.5	<2.0	164	<0.5
	7/3/2008	30.5	<0.5	<0.5	<2.0	1.08	<0.5
	10/15/2008	<20	<1.0	<1.0	<1.0	<1.0	<1.0
	1/7/2009	<25	<1.3	<1.3	<1.3	<1.3	<1.3
	4/14/2009	15	<0.5	<0.5	<0.5	<0.5	<0.5
	8/27/2009	<40	<2.0	<2.0	<2.0	<2.0	<2.0
	12/2/2009	<40	<2.0	<2.0	<2.0	<2.0	<2.0
	3/17/2010	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	6/3/2010	26	<0.5	<0.5	<0.5	<0.5	<0.5
	9/2/2010	<100	<5.0	<5.0	<5.0	<5.0	<5.0
	12/2/2010	<63	<3.1	<3.1	<3.1	<3.1	<3.1
	3/4/2011	40	<0.5	<0.5	<0.5	<0.5	<0.5
	5/20/2011	**<71**	**<3.6**	**<3.6**	**<3.6**	**<3.6**	**<3.6**
MW-2	8/8/2002	21	<0.5	<0.5	<0.5	NA	NA
	11/1/2002	15	<0.5	<0.5	<0.5	NA	NA
	2/21/2003	12	<0.5	<0.5	<0.5	NA	NA
	5/28/2003	31	<0.5	<0.5	<0.5	NA	NA
	8/12/2003	69	<0.8	<0.8	<0.8	NA	NA
	10/9/2003	12	<0.5	<0.5	<0.5	NA	NA
	1/15/2004	<10	<0.5	<0.5	<0.5	NA	NA
	5/25/2004	14	<0.5	<0.5	<0.5	NA	NA
	9/21/2004	<10	<0.5	<0.5	<0.5	NA	NA
	12/14/2004	<2.5	<0.5	<0.5	<2.0	NA	NA

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)	1,2-DCA (µg/L)	EDB (µg/L)
MW-2 cont.	3/11/2005	<2.5	<0.5	<0.5	<2.0	NA	NA
	6/15/2005	<10	<0.5	<0.5	<2.0	NA	NA
	8/26/2005	<10	<0.5	<0.5	<2.0	NA	NA
	11/11/2005	<10	<0.5	<0.5	<2.0	NA	NA
	2/9/2006	<10	<0.5	<0.5	<2.0	NA	NA
	5/9/2006	<10	<0.5	<0.5	<2.0	<0.5	<0.5
	8/10/2006	<10	<0.5	<0.5	<2.0	<0.5	<0.5
	10/26/2006	<10	<0.5	<0.5	<2.0	<0.5	<0.5
	1/25/2007	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	4/26/2007	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	7/25/2007	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	10/23/2007	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	1/22/2008	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	4/15/2008	<2.0	<0.5	<0.5	<2.0	2.44	<0.5
	7/2/2008	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	10/15/2008	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	1/7/2009	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	4/13/2009	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	8/27/2009	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	12/1/2009	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	3/17/2010	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	6/3/2010	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	9/2/2010	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	12/2/2010	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	3/4/2011	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	5/20/2011	**<10**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
MW-3	8/8/2002	<330	<8.3	<8.3	330	NA	NA
	11/1/2002	85	< 1.3	<1.3	220	NA	NA
	2/21/2003	140	<5.0	<5.0	320	NA	NA
	5/28/2003	520	<10	<10	530	NA	NA
	8/12/2003	180	<4.2	<4.2	270	NA	NA
	10/9/2003	<170	<8.3	<8.3	200	NA	NA
	1/15/2004	<100	<5.0	<5.0	150	NA	NA
	5/25/2004	<100	<5.0	<5.0	270	NA	NA
	9/21/2004	<140	<7.1	<7.1	110	NA	NA
	12/14/2004	<100	<20	<20	154	NA	NA
	3/11/2005	<215	<43	<43	256	NA	NA
	6/15/2005	<215	<10.8	<10.8	374	NA	NA
	8/26/2005	699	<21.5	<21.5	277	NA	NA
	11/11/2005	<430	<21.5	<21.5	171	NA	NA
	2/9/2006	<430	<21.5	<21.5	620	NA	NA
	5/9/2006	367	<10.8	<10.8	594	<10.8	<10.8
	8/10/2006	365	<10.8	<10.8	727	<10.8	<10.8
	10/26/2006	591	<10.8	<10.8	899	<10.8	<10.8
	1/25/2007	711	<10.8	<10.8	768	<10.8	<10.8
	4/26/2007	690	<10.8	<10.8	369	<10.8	<10.8
	7/25/2007	1,340	<10.8	<10.8	565	<10.8	<10.8
	10/23/2007	1,050	<21.5	<21.5	301	<21.5	<21.5
	1/22/2008	373	<10.8	<10.8	170	<0.5	<0.5
	4/16/2008	881	<5.50	<5.50	<22.0	1,850	12.1
	7/3/2008	426	<10.8	<10.8	124	<10.8	<10.8
	10/16/2008	<400	<20	<20	<20	<20	<20
	1/8/2009	<500	<25	<25	<25	<25	<25
	4/13/2009	<500	<25	<25	<25	<25	<25
	8/27/2009	<500	<25	<25	<25	<25	<25
	12/2/2009	270	<13	<13	<13	<13	<13

Table 2
Historical Gasoline Oxygenates Results
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Monitoring Well	Date	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-3 cont.	3/17/2010	<250	<13	<13	<13	<13	<13
	6/3/2010	<250	<13	<13	<13	<13	<13
	9/2/2010	<250	<13	<13	<13	<13	<13
	12/2/2010	<130	<6.3	<6.3	<6.3	<6.3	<6.3
	3/4/2011	<170	<8.3	<8.3	<8.3	<8.3	<8.3
	5/20/2011	**<130**	**<6.3**	**<6.3**	**<6.3**	**<6.3**	**<6.3**
MW-4	8/8/2002	1500	<17	<17	18	NA	NA
	11/1/2002	580	< 5.0	6	13	NA	NA
	2/21/2003	1600	<20	22	<20	NA	NA
	5/28/2003	690	<8.3	<8.3	17	NA	NA
	8/12/2003	550	<7.1	7.3	18	NA	NA
	10/9/2003	1400	<31	50	<31	NA	NA
	1/15/2004	1,300	<20	25	21	NA	NA
	5/25/2004	560	<8.3	<8.3	24	NA	NA
	9/21/2004	1,300	<50	<50	<50	NA	NA
	12/14/2004	826	<10.75	21	49	NA	NA
	3/11/2005	1,110	<10.8	12.1	<43	NA	NA
	6/15/2005	<110	<5.5	<5.5	22.9	NA	NA
	8/26/2005	902	<5.50	<5.50	37.4	NA	NA
	11/11/2005	884	<10.8	<10.8	<43	NA	NA
	2/9/2006	769	<10.8	16.4	45.6	NA	NA
	5/9/2006	405	<2.15	2.95	31.3	<2.15	<2.15
	8/10/2006	306	<2.15	<2.15	35.3	<2.15	<2.15
	10/26/2006	3430	<10.8	13.8	<43	<10.8	<10.8
	1/25/2007	822	<2.15	2.4	28	2.25	<2.15
	4/26/2007	556	<2.15	2.28	29.2	<2.15	<2.15
	7/25/2007	1,860	<2.15	9.94	24	<2.15	<2.15
	10/23/2007	3,400	<2.15	18.4	25.9	<2.15	<2.15
	1/22/2008	2,580	<5.50	64.7	<22	<0.5	<0.5
	4/15/2008	1,100	<5.50	11.7	<22	39.9	<5.50
	7/2/2008	8,720	<5.50	75.2	<22	<5.50	<5.50
	10/16/2008	700	<3.6	4.2	37	5.4	<3.6
	1/8/2009	1,500	<3.6	9.9	41	3.6	<3.6
	4/13/2009	1,100	<8.3	<8.3	28	<8.3	<8.3
	8/27/2009	4,900	<5.0	24	<5.0	<5.0	<5.0
	12/2/2009	6,800	<5.0	69	<5.0	<5.0	<5.0
	3/17/2010	1,900	<3.6	18	<3.6	<3.6	<3.6
	6/3/2010	930	<3.6	7.7	<3.6	<3.6	<3.6
	9/2/2010	7,200	<3.6	57	<3.6	<3.6	<3.6
	12/2/2010	3,800	<10	30	<10	<10	<10
	3/3/2011	410	<0.71	3.2	<0.71	<0.71	<0.71
	5/19/2011	**130**	**<0.5**	**1.4**	**<0.5**	**<0.5**	**<0.5**
MW-5	8/8/2002	<250	<6.3	<6.3	510	NA	NA
	11/1/2002	66	< 2.0	< 2.0	560	NA	NA
	2/21/2003	<63	<3.1	<3.1	280	NA	NA
	5/28/2003	<33	<1.7	<1.7	110	NA	NA
	8/12/2003	130	<3.6	<3.6	270	NA	NA
	10/9/2003	<100	<5.0	<5.0	740	NA	NA
	1/15/2004	<63	<3.1	<3.1	300	NA	NA
	5/25/2004	<100	<5.0	<5.0	210	NA	NA
	9/21/2004	<130	<6.3	<6.3	550	NA	NA
	12/14/2004	40	<5.5	<5.5	444	NA	NA
	3/11/2005	88.8	<5.5	<5.5	448	NA	NA
	6/15/2005	<43	<2.15	<2.15	88.1	NA	NA
	8/26/2005	274	<5.50	<5.50	195	NA	NA
	11/11/2005	192	<5.50	<5.50	360	NA	NA

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)	1,2-DCA (µg/L)	EDB (µg/L)
MW-5 cont.	2/9/2006	218	<5.50	<5.50	523	NA	NA
	5/9/2006	91.8	<2.15	<2.15	163	<2.15	<2.15
	8/10/2006	138	<5.50	<5.50	342	<5.50	<5.50
	10/26/2006	322	<5.50	<5.50	712	<5.50	<5.50
	1/25/2007	878	<5.50	<5.50	552	<5.50	<5.50
	4/26/2007	708	<2.15	<2.15	310	<2.15	<2.15
	7/25/2007	1,020	<2.15	<2.15	356	<2.15	<2.15
	10/23/2007	1,510	<2.15	<2.15	181	<2.15	<2.15
	1/22/2008	470	<0.5	4.56	62.1	<0.5	<0.5
	4/15/2008	566	<1.0	<1.0	29.6	231	5.66
	7/3/2008	2,320	<2.15	<2.15	53.3	<2.15	<2.15
	10/16/2008	990	<5.0	<5.0	82	<5.0	<5.0
	1/8/2009	360	<6.3	<6.3	51	<6.3	<6.3
	4/13/2009	280	<3.1	<3.1	<3.1	<3.1	<3.1
	8/27/2009	1,300	<5.0	<5.0	<5.0	<5.0	<5.0
	12/2/2009	320	<5.0	<5.0	25	<5.0	<5.0
	3/17/2010	570	<1.0	<1.0	<1.0	<1.0	<1.0
	6/4/2010	340	<1.0	<1.0	<1.0	<1.0	<1.0
	9/2/2010	320	<2.5	<2.5	13	<2.5	<2.5
	12/2/2010	200	<3.1	<3.1	<3.1	<3.1	<3.1
	3/4/2011	180	<0.5	<0.5	<0.5	<0.5	<0.5
	5/20/2011	**480**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<1.0**
MW-6	9/21/2004	<10	<0.5	<0.5	<0.5	NA	NA
	12/14/2004	<5.5	<5.5	<5.5	<22	NA	NA
	3/11/2005	2.54	<0.5	<0.5	<2.0	NA	NA
	6/15/2005	<20	<1.0	<1.0	<4.0	NA	NA
	8/26/2005	<43	<2.15	<2.15	<8.6	NA	NA
	11/11/2005	<43	<2.15	<2.15	<8.6	NA	NA
	2/9/2006	<43	<2.15	<2.15	<8.6	NA	NA
	5/9/2006	<10	<0.5	<0.5	<2.0	<0.5	<0.5
	8/10/2006	<10	<0.5	<0.5	<2.0	<0.5	<0.5
	10/26/2006	<10	<0.5	<0.5	<2.0	<0.5	<0.5
	1/25/2007	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	4/26/2007	7.21	<0.5	<0.5	<2.0	<0.5	<0.5
	7/25/2007	5.66	<0.5	<0.5	<2.0	<0.5	<0.5
	10/23/2007	6.68	<0.5	<0.5	<2.0	<0.5	<0.5
	1/21/2008	13.9	<0.5	<0.5	<2.0	<0.5	<0.5
	4/15/2008	<2.0	<0.5	<0.5	<2.0	6.78	1.49
	7/2/2008	4.54	<0.5	<0.5	<2.0	<0.5	<0.5
	10/15/2008	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	1/7/2009	<63	<3.1	<3.1	<3.1	<3.1	<3.1
	4/13/2009	<25	<1.3	<1.3	<1.3	<1.3	<1.3
	8/26/2009	<40	<2.0	<2.0	<2.0	<2.0	<2.0
	12/1/2009	<40	<2.0	<2.0	<2.0	<2.0	<2.0
	3/16/2010	<40	<2.0	<2.0	<2.0	<2.0	<2.0
	6/3/2010	<40	<2.0	<2.0	<2.0	<2.0	<2.0
	9/1/2010	<200	<10	<10	<10	<10	<10
	12/2/2010	<330	<17	<17	<17	<17	<17
	3/3/2011	<50	<2.5	<2.5	<2.5	<2.5	<2.5
	5/20/2011	**<50**	**<2.5**	**<2.5**	**<2.5**	**<2.5**	**<2.5**
MW-7	9/21/2004	<10	<0.5	<0.5	1.5	NA	NA
	12/14/2004	<2.5	<0.5	<0.5	<2.0	NA	NA
	3/11/2005	<12.5	<2.5	<2.5	<10	NA	NA
	6/15/2005	<10	<0.5	<0.5	2.23	NA	NA
	8/26/2005	<10	<0.5	<0.5	<2.0	NA	NA
	11/11/2005	<10	<0.5	<0.5	<2.0	NA	NA
	2/9/2006	NA	NA	NA	NA	NA	NA
	5/9/2006	<10	<0.5	<0.5	<2.0	<0.5	<0.5
	8/10/2006	<10	<0.5	<0.5	<2.0	<0.5	<0.5
	10/26/2006	<10	<0.5	<0.5	<2.0	<0.5	<0.5

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)	1,2-DCA (µg/L)	EDB (µg/L)
MW-7 contd.	1/25/2007	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	4/26/2007	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	7/25/2007	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	10/23/2007	6.49	<0.5	<0.5	2.58	<0.5	<0.5
	1/21/2008	<2.0	<0.5	<0.5	6.01	<0.5	<0.5
	4/15/2008	8.8	<0.5	<0.5	<2.0	<0.5	1.26
	7/2/2008	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	10/15/2008	<10	<0.5	<0.5	14	<0.5	<0.5
	1/7/2009	<10	<0.5	<0.5	11	<0.5	<0.5
	4/13/2009	<10	<0.5	<0.5	16	<0.5	<0.5
	8/26/2009	<33	<0.5	<0.5	33	<0.5	<0.5
	12/1/2009	<10	<0.5	<0.5	30	<0.5	<0.5
	3/16/2010	11	<0.5	<0.5	<0.5	<0.5	<0.5
	6/3/2010	20	<0.5	<0.5	7.1	<0.5	<0.5
	9/1/2010	47	<0.5	<0.5	7.2	<0.5	<0.5
	12/2/2010	22	<0.5	<0.5	4.9	<0.5	<0.5
	3/4/2011	14	<0.5	<0.5	4.0	<0.5	<0.5
	5/19/2011	**<10**	**<0.5**	**<0.5**	**2.1**	**<0.5**	**<0.5**
MW-8	9/21/2004	<10	<0.5	<0.5	<0.5	NA	NA
	12/14/2004	<2.5	<0.5	<0.5	<2.0	NA	NA
	3/11/2005	NA	NA	NA	NA	NA	NA
	6/15/2005	<10	<0.5	<0.5	<2.0	NA	NA
	8/26/2005	<10	<0.5	<0.5	<2.0	NA	NA
	11/11/2005	<10	<0.5	<0.5	<2.0	NA	NA
	2/9/2006	<10	<0.5	<0.5	<2.0	NA	NA
	5/9/2006	<10	<0.5	<0.5	<2.0	<0.5	<0.5
	8/10/2006	<10	<0.5	<0.5	<2.0	<0.5	<0.5
	10/26/2006	<10	<0.5	<0.5	<2.0	<0.5	<0.5
	1/25/2007	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	4/26/2007	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	7/25/2007	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	10/23/2007	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	1/21/2008	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	4/15/2008	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	7/2/2008	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	10/15/2008	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	1/7/2009	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	4/13/2009	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	8/27/2009	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	Well Decommissioned 11/13/2009						
MW-9	9/21/2004	<10	<0.5	<0.5	<0.5	NA	NA
	12/14/2004	<2.5	<0.5	<0.5	<2.0	NA	NA
	3/11/2005	<2.5	<0.5	<0.5	<2.0	NA	NA
	6/15/2005	<10	<0.5	<0.5	<2.0	NA	NA
	8/26/2005	<10	<0.5	<0.5	<2.0	NA	NA
	11/11/2005	<10	<0.5	<0.5	<2.0	NA	NA
	2/9/2006	<10	<0.5	<0.5	<2.0	NA	NA
	5/9/2006	<10	<0.5	<0.5	<2.0	2.8	<0.5
	8/10/2006	<10	<0.5	<0.5	<2.0	1.83	<0.5
	10/26/2006	<10	<0.5	<0.5	<2.0	3.07	<0.5
	1/25/2007	<2.0	<0.5	<0.5	<2.0	2.92	<0.5
	4/26/2007	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	7/25/2007	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	10/23/2007	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	1/21/2008	<2.0	<0.5	<0.5	<2.0	1.18	<0.5
	4/15/2008	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	7/2/2008	<2.0	<0.5	<0.5	<2.0	2.07	<0.5
	10/15/2008	<10	<0.5	<0.5	<0.5	1.5	<0.5

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)	1,2-DCA (µg/L)	EDB (µg/L)
MW-9 contd.	1/7/2009	<10	<0.5	<0.5	<0.5	1.4	<0.5
	4/13/2009	<10	<0.5	<0.5	<0.5	0.97	<0.5
	8/26/2009	<10	<0.5	<0.5	<0.5	2.6	<0.5
Well Decommissioned 11/13/2009							
EX-1	12/2/2009	150	<1.3	<1.3	<1.3	<1.3	<1.3
	3/16/2010	980	<1.3	2.4	27	<1.3	<1.3
	6/3/2010	570	<1.3	1.9	<1.3	<1.3	<1.3
	9/1/2010	470	<0.5	1.4	2	<0.5	<0.5
	12/2/2010	1,300	<2.0	3.6	15	<2.0	<2.0
	3/3/2011	690	<0.71	2.5	12	<0.71	<0.71
	5/19/2011	**370**	**<0.71**	**1.9**	**13**	**<0.71**	**<0.71**
EX-2	12/2/2009	<63	<3.1	<3.1	<3.1	<3.1	<3.1
	3/16/2010	<100	<5.0	<5.0	<5.0	<5.0	<5.0
	6/3/2010	<100	<5.0	<5.0	<5.0	<5.0	<5.0
	9/1/2010	<50	<2.5	<2.5	<2.5	<2.5	<2.5
	12/2/2010	<100	<5.0	<5.0	<5.0	<5.0	<5.0
	3/3/2011	<100	<5.0	<5.0	<5.0	<5.0	<5.0
	5/19/2011	**<100**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**<5.0**
2nd WBZ							
MW-1D	1/3/2008	111	<0.5	<0.5	<2.0	NA	NA
	1/22/2008	12.9	<0.5	<0.5	<2.0	<0.5	<0.5
	4/16/2008	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	7/3/2008	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	10/15/2008	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	1/8/2009	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	4/14/2009	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	8/26/2009	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	12/1/2009	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	3/16/2010	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	6/4/2010	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	9/1/2010	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	12/3/2010	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	3/3/2011	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	5/19/2011	**<10**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
MW-3D	1/3/2008	37.3	<0.5	3.12	15.3	NA	NA
	1/22/2008	15.6	<0.5	3.1	15.3	<0.5	<0.5
	4/16/2008	17.7	<0.5	<0.5	<2.0	<0.5	<0.5
	7/3/2008	<2.0	<0.5	<0.5	7.45	<0.5	<0.5
	10/16/2008	<10	<0.5	<0.5	4.7	<0.5	<0.5
	1/8/2009	<10	<0.5	<0.5	3.4	<0.5	<0.5
	4/14/2009	<10	<0.5	<0.5	5	<0.5	<0.5
	8/26/2009	<10	<0.5	<0.5	1.6	<0.5	<0.5
	12/1/2009	<10	<0.5	<0.5	2.2	<0.5	<0.5
	3/16/2010	<10	<0.5	<0.5	0.65	<0.5	<0.5
	6/4/2010	<10	<0.5	<0.5	1.8	<0.5	<0.5
	9/1/2010	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	12/3/2010	<10	<0.5	<0.5	0.93	<0.5	<0.5
	3/3/2011	<10	<0.5	<0.5	1.0	<0.5	<0.5
	5/19/2011	**<10**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
MW-4D	1/4/2008	25	<0.5	<0.5	<2.0	NA	NA
	1/22/2008	124	<0.5	4.9	3.32	<0.5	<0.5
	4/15/2008	25.7	<0.5	<0.5	<2.0	<0.5	<0.5
	7/3/2008	3.38	<0.5	<0.5	<2.0	<0.5	<0.5
	10/16/2008	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	1/8/2009	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	4/14/2009	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	8/27/2009	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	12/1/2009	<10	<0.5	<0.5	<0.5	<0.5	<0.5

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)	1,2-DCA (µg/L)	EDB (µg/L)
MW-4D (cont)	3/16/2010	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	6/4/2010	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	9/1/2010	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	12/3/2010	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	3/3/2011	<10	<0.5	<0.5	<0.5	<0.5	<0.5
	5/19/2011	**<10**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
1573 153 RD	7/2/2008	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
	10/16/2008	<10	<0.5	<0.5	<0.5	<0.5	<0.5
EB-PMP	1/21/2008	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
EB-PRB	1/21/2008	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
EB-PMP2	1/22/2008	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
EB-PRB2	1/22/2008	<2.0	<0.5	<0.5	<2.0	<0.5	<0.5
ESL		**12**	**NE**	**NE**	**NE**	**0.5**	**0.05**

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.
NE: Not Established
TBA: tert-Butyl Alcohol
DIPE: Isopropyl Ether
ETBE: Ethyl tert-Butyl Ether
TAME: Methyl tert-Amyl Ether
ESL: Environmental Screening Levels per CRWQCB SFBay Region Interim Final Nov. 2007 (Revised May 2008); Table F-1a,Groundwater Screening Levels (groundwater is a current or potential drinking water resource)
MW-8 and MW-9 were decommissioned November 13, 2009

Table 3
Effluent Chemical Analytical Results
and Operational History of Remediation System
15101 Freedom Ave, San Leandro, CA

Date	Volume (gallons)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-mo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	COD (mg/L)	TSS (mg/L)	pH
2009											
8-Oct-2009	15,351	<50	120 [Y]	NA	NA	NA	NA	NA	NA	NA	NA
19-Nov-2009	8,287	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<10	<5	7.7
9-Dec-2009	0	Installation of GWETS									
16-Dec-2009	20,000	<50	<50	<300	<0.5	0.65 C	<0.5	0.84 C	<10	<5	7.4
2010											
18-Jan-2010	215,453	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<10	<5	7.4
15-Feb-2010	297,560	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	11	<5	6.7
15-Mar-2010	475,245	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<10	<5.0	6.5
19-Apr-2010	621,180	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<10	8	6.6
17-May-2010	705,770	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<10	8	6.7
16-Jun-2010	825,200	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	17	9	6.8
19-Jul-2010	910,652	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<10	8	6.6
16-Aug-2010	939,935	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<10	6	6.6
28-Sep-2010	970,450	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<10	10	6.8
26-Oct-2010	1,013,700	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<10	<5	7.2
15-Nov-2010	1,052,591	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<10	<5	6.5
7-Dec-2010	1,100,492	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<10	6	6.6
2011											
11-Jan-2011	1,179,075	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	12	6	6.6
10-Feb-2011	1,249,569	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<10	<5	6.6
14-Mar-2011	1,336,784	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<10	<5	6.5
11-Apr-2011	1,364,272	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<10	6	6.5
10-May-2011	1,466,472	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	12	7	6.6
7-Jun-2011	**1,532,263**	**<50**	**<50**	**<300**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<10**	**6**	**6.6**

Table 3
Effluent Chemical Analytical Results
and Operational History of Remediation System
15101 Freedom Ave, San Leandro, CA

Date	Volume (gallons)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-mo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	COD (mg/L)	TSS (mg/L)	pH

Note:
NA: Not Available/Not Applicable
< : Less than Laboratory-reporting limit
In October and November 2009 discharge occurred only during MPE events
GWETS and totalizer installed in December 2009.
Week # 1 sampling conducted on Oct 8, 2009
C: Presence confirmed, but RPD between column exceeds 40%
Volume discharged during the October 2009 MPE event was 18,669 gallons
Volume discharged during the November 2009 MPE event was 10,507 gallons
Volume discharged during the December 2009 MPE event was 20,298 gallons
Volume discharged during the February 2010 MPE event was 6,339 gallons
Volume discharged during the March 2010 MPE event was 3,810 gallons
Volume discharged during the June 2010 MPE event was 15, 600 gallons
Volume discharged during the August 2010 MPE event was 1,421 gallons
Volume discharged during the October 2010 MPE event was 13,282 gallons

Table 4

Cumulative Masses of Petroleum Hydrocarbons Removed from the Groundwater Since Installation of the Treatment System

15101 Freedom Ave, San Leandro, CA

Date	Volume (gallons)	Influent Concentration (µg/L)					Mass removed (pounds)				
		TPH-g	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH-g	Benzene	Toluene	Ethyl-benzene	Total Xylenes
2009											
9-Dec-2009	0	Installation of GWETS, began discharging treated groundwater to site sewer main									
2010											
18-Jan-2010	215,453	1,900	79	32.00	2.4	260	3.41	0.14	0.06	0.00	0.47
19-Apr-2010	621,180	2,100	75	28	56	332	10.50	0.40	0.15	0.19	1.59
19-Jul-2010	910,652	56 Y	<0.5	<0.5	<0.5	<0.5	10.64	0.40	0.15	0.19	1.59
26-Oct-2010	1,013,700	2,600	200	25	68	405	12.87	0.57	0.17	0.25	1.94
2011											
11-Jan-2011	1,179,075	1,700	80	19	50	295	15.21	0.68	0.20	0.32	2.34
11-Apr-2011	**1,364,272**	**1,200**	**41**	**3.3**	**23**	**185**	**17.06**	**0.75**	**0.20**	**0.36**	**2.63**

Notes:

< : Below laboratory-reporting limit

Y : sample exhibits chromatographic pattern which does not resmeble standard

Table 5

Second Quarter 2011 MPE Event
Operational Data : April 2011

15101 Freedom Ave.
San Leandro, California

DATE	TIME	PID (ppmv)	WELL MANIFOLD VACUUM (In of Hg)	OXIDIZER TEMPERATURE (^{0}F)	WELL FIELD FLOW VAPOR RATE (scfm)	TOTAL SYSTEM VAPOR FLOW RATE (scfm)	DILUTION AIR FLOW RATE (scfm)	SYSTEM (BLOWER) VACUUM (In of Hg)	SYSTEM TOTALIZER READING (gallons)	COMMENTS
4/18/2011	1100								0	begin extraction from MPE- 2 and MW-5
	1400	250	26	1500	9	12	4	27	695	
	1500	263	25.6	1510	9	12	4	27	1,015	
									1015	MPE-2 only
4/19/2011	700	IN:101,EFF:8	23	1500	15	24	10	25.8	3,285	
	930	109	22.8	1500	15	24	10	26	3,585	
									3,585	MPE-2 and MW-5
	1030	220	25	1500	18	25	6	26	3,795	
	1200	205	24.2	1520	18	24	6	26.6	4,425	
	1330	234	24.4	1502	18	24	6	26.4	4,985	
	1430	230	24.6	1494	23	30	8	26.6	5,395	
	1530	214	24.4	1497	22	30	7	26.4	5,685	
	1630	220	24.4	1505	23	30	8	26.4	6,045	
4/20/2011	800	171	23	1519	22	30	7	26	11,240	
	930	174	23	1491	22	30	7	26	11,629	
	1030	179	23.2	1524	22	30	7	26	11,911	
	1130	186	23.2	1521	22	30	7	26	12,257	
	1230	185	23	1531	22	30	7	26	12,517	
	1330	182	23	1513	22	30	7	26	12,840	
	1430	173	23.2	1513	22	30	7	26	13,109	
	1530	187	23.2	1528	22	30	7	26	13,427	
	1630	186	23.2	1510	22	30	7	26	13,752	
4/21/2011	730	180	24	1500	22	30	7	26	17,929	
	1030	176	24	1520	23	30	8	26	18,765	
	1430	195	23.6	1530	22	30	7	26	19,865	
	1630	191	23.4	1501	22	30	7	26	20,375	
4/22/2011	730	165	23	1500	26	34	9	25.6	24,300	
									24,300	Added MPE-1 with MPE-2 and MW-5
	930	175	21	1505	38	38	0	25.2	24,865	
	1030	191	22	1520	39	39	0	25.2	25,230	
	1400	181	22	1515	38	38	0	25	26,525	
4/23/2011	730	192	21	1500	38	38	0	25	32,218	
	1030	210	21.4	1500	42	42	0	24.8	33,145	
	1130	201	21.4	1525	42	42	0	24.8	33,485	
	1400	236	21	1529	42	42	0	24.6	34,378	
	1500	220	21.4	1510	42	42	0	24.8	34,675	
	1600	211	21.2	1505	42	42	0	24.8	34,985	
4/24/2000	800	186	20.6	1500	42	42	0	24.4	39,755	
	1000	191	21.2	1500	42	42	0	24.4	40,355	
	1200	197	21.2	1510	42	42	0	24.4	40,968	
	1330	514	20	1508	45	45	0	24.2	41,049	
	1430	186	20.4	1529	45	45	0	24.4	41,649	
	1530	177	20.8	1517	45	45	0	24.2	41,887	
	1630	181	21.2	1493	46	46	0	24.4	42,166	
4/25/2011	730	201	21	1525	45	45	0	24.2	46,365	
	1030	199	21	1500	45	45	0	24.6	47,159	
	1130	197	21	1500	45	45	0	24.6	47,435	
	1300	258	20.4	1524	45	45	0	24.6	47,989	
	1400	178	20.4	1496	46	46	0	24.6	48,159	
	1500	192	20.4	1490	46	46	0	24.6	48,370	
	1600	179	20.4	1520	46	46	0	24.6	48,685	
	1700	173	20.4	1504	45	45	0	24.6	48,899	

Table 5

Second Quarter 2011 MPE Event
Operational Data : April 2011

15101 Freedom Ave.
San Leandro, California

DATE	TIME	PID (ppmv)	WELL MANIFOLD VACUUM (In of Hg)	OXIDIZER TEMPERATURE (^{0}F)	WELL FIELD FLOW VAPOR RATE (scfm)	TOTAL SYSTEM VAPOR FLOW RATE (scfm)	DILUTION AIR FLOW RATE (scfm)	SYSTEM (BLOWER) VACUUM (In of Hg)	SYSTEM TOTALIZER READING (gallons)	COMMENTS
4/26/2011	800	181	20.4	1510	46	46	0	24.4	52,872	
	1100	185	20.4	1490	45	45	0	24.4	53,685	
	1300	269	20.4	1491	45	45	0	24.4	54,276	
	1400	131	20.4	1535	45	45	0	24.4	54,417	
	1500	527	20.8	1492	46	46	0	24.4	54,698	
	1600	181	21	1484	46	46	0	24.4	54,953	
	1700	685	21	1535	46	46	0	24.4	55,171	
4/27/2011	800	169	20.6	1520	49	49	0	24.2	58,897	
	1300	650	20.6	1530	48	48	0	24.2	60,184	
	1400	208	20	1532	48	48	0	24.2	60,318	
	1500	146	20	1494	49	49	0	24.2	60,575	
	1600	150	20.4	1500	49	49	0	24.2	60,776	
	1700	363	20.4	1537	48	48	0	24.4	60,970	
4/28/2011	800	163	21	1500	49	49	0	24.4	64,275	
	1400	220	20.8	1508	48	48	0	24.4	66,571	
4/29/2011	730	135	21	1520	49	49	0	24.4	69,255	
	1000	125	21	1500	48	48	0	24.4	69,790	end MPE

Totalizer readings = 69,790 gallons = 4.44 gpm
Total time of test = 15,720 minutes = 262 hours = 10.9 days

Notes

ppmv	parts per million vapor
In of Hg	inches of mercury
In of H_20	inches of water
^{0}F	degrees Fahrenheit
scfm	standard cubic feet per minute

Table 6

Second Quarter 2011 MPE Event
Extraction Data and VOC Mass Removal Rate
April 2011

15101 Freedom Avenue
San Leandro, California

MPE WELL	COMMENT	DATE	CLOCK TIME	INCREMENTAL TIME	ELAPSED TIME	Q			PID		MASS REMOVAL		
				minutes	minutes	SCFM	ft^3 of extracted air	Moles of extracted air	ppmv as hexane	VOC mole %	lb VOC mass removal as hexane	lbs/min	lbs/day
MPE-2,MW-5	**START**	**4/18/2011**	1100	0	0								
			1400	180	180	12	2,226	5.8723	250	0.0003	0.1265	0.0007	1
			1500	60	240	12	736	1.9408	263	0.0003	0.0440	0.0007	1
MPE-2				0	240								
		4/19/2011	700	960	1,200	24	23,341	61.5855	101	0.0001	0.5362	0.0006	1
			930	90	1,290	24	2,188	5.7736	109	0.0001	0.0542	0.0006	1
MPE-2,MW-5				0	1,290								
			1030	60	1,350	25	1,471	3.8816	220	0.0002	0.0736	0.0012	2
			1200	90	1,440	24	2,192	5.7833	205	0.0002	0.1022	0.0011	2
			1330	90	1,530	24	2,185	5.7640	234	0.0002	0.1163	0.0013	2
			1430	60	1,590	30	1,802	4.7539	230	0.0002	0.0943	0.0016	2
			1530	60	1,650	30	1,787	4.7142	214	0.0002	0.0870	0.0014	2
			1630	60	1,710	30	1,802	4.7539	220	0.0002	0.0902	0.0015	2
		4/20/2011	800	930	2,640	30	27,740	73.1915	171	0.0002	1.0789	0.0012	2
			930	90	2,730	30	2,680	7.0712	174	0.0002	0.1061	0.0012	2
			1030	60	2,790	30	1,787	4.7142	179	0.0002	0.0727	0.0012	2
			1130	60	2,850	30	1,787	4.7142	186	0.0002	0.0756	0.0013	2
			1230	60	2,910	30	1,787	4.7142	185	0.0002	0.0752	0.0013	2
			1330	60	2,970	30	1,787	4.7142	182	0.0002	0.0740	0.0012	2
			1430	60	3,030	30	1,787	4.7142	173	0.0002	0.0703	0.0012	2
			1530	60	3,090	30	1,787	4.7142	187	0.0002	0.0760	0.0013	2
			1630	60	3,150	30	1,787	4.7142	186	0.0002	0.0756	0.0013	2
		4/21/2011	730	900	4,050	30	26,935	71.0686	180	0.0002	1.1027	0.0012	2
			1030	180	4,230	30	5,405	14.2618	176	0.0002	0.2164	0.0012	2
			1430	240	4,470	30	7,147	18.8566	195	0.0002	0.3170	0.0013	2
			1630	120	4,590	30	3,573	9.4283	191	0.0002	0.1552	0.0013	2
		4/22/2011	730	900	5,490	34	31,050	81.9251	165	0.0002	1.1652	0.0013	2
MPE-1,2,MW-5				0	5,490								
			930	120	5,610	38	4,613	12.1719	175	0.0002	0.1836	0.0015	2
			1030	60	5,670	39	2,314	6.1063	191	0.0002	0.1005	0.0017	2
			1400	210	5,880	38	8,007	21.1255	181	0.0002	0.3296	0.0016	2
		4/23/2011	730	1050	6,930	38	40,365	106.5041	192	0.0002	1.7627	0.0017	2
			1030	180	7,110	42	7,518	19.8359	210	0.0002	0.3591	0.0020	3
			1130	60	7,170	42	2,518	6.6447	201	0.0002	0.1151	0.0019	3
			1400	150	7,320	42	6,244	16.4759	236	0.0002	0.3352	0.0022	3
			1500	60	7,380	42	2,506	6.6120	220	0.0002	0.1254	0.0021	3
			1600	60	7,440	42	2,506	6.6120	211	0.0002	0.1203	0.0020	3

Table 6

Second Quarter 2011 MPE Event
Extraction Data and VOC Mass Removal Rate
April 2011

15101 Freedom Avenue
San Leandro, California

MPE WELL	COMMENT	DATE	CLOCK TIME	INCREMENTAL TIME	ELAPSED TIME	Q			PID		MASS REMOVAL		
				minutes	minutes	SCFM	ft^3 of extracted air	Moles of extracted air	ppmv as hexane	VOC mole %	lb VOC mass removal as hexane	lbs/min	lbs/day
		4/24/2011	800	960	8,400	42	40,428	106.6692	186	0.0002	1.7102	0.0018	3
			1000	120	8,520	42	5,037	13.2894	191	0.0002	0.2188	0.0018	3
			1200	120	8,640	42	5,037	13.2894	197	0.0002	0.2257	0.0019	3
			1330	90	8,730	45	4,047	10.6776	514	0.0005	0.4731	0.0053	8
			1430	60	8,790	45	2,729	7.2010	186	0.0002	0.1155	0.0019	3
			1530	60	8,850	45	2,729	7.2010	177	0.0002	0.1099	0.0018	3
			1630	60	8,910	46	2,748	7.2495	181	0.0002	0.1131	0.0019	3
		4/25/2011	730	900	9,810	45	40,601	107.1258	201	0.0002	1.8561	0.0021	3
			1030	180	9,990	45	8,120	21.4252	199	0.0002	0.3675	0.0020	3
			1130	60	10,050	45	2,707	7.1417	197	0.0002	0.1213	0.0020	3
			1300	90	10,140	45	4,087	10.7835	258	0.0003	0.2398	0.0027	4
			1400	60	10,200	46	2,748	7.2495	178	0.0002	0.1112	0.0019	3
			1500	60	10,260	46	2,738	7.2251	192	0.0002	0.1196	0.0020	3
			1600	60	10,320	46	2,738	7.2251	179	0.0002	0.1115	0.0019	3
			1700	60	10,380	45	2,720	7.1771	173	0.0002	0.1070	0.0018	3
		4/26/2011	800	900	11,280	46	41,144	108.5590	181	0.0002	1.6938	0.0019	3
			1100	180	11,460	45	8,120	21.4252	185	0.0002	0.3417	0.0019	3
			1300	120	11,580	45	5,413	14.2834	269	0.0003	0.3312	0.0028	4
			1400	60	11,640	45	2,707	7.1417	131	0.0001	0.0806	0.0013	2
			1500	60	11,700	46	2,743	7.2373	527	0.0005	0.3288	0.0055	8
			1600	60	11,760	46	2,743	7.2373	181	0.0002	0.1129	0.0019	3
			1700	60	11,820	46	2,743	7.2373	685	0.0007	0.4273	0.0071	10
		4/27/2011	800	900	12,720	49	43,764	115.4727	169	0.0002	1.6822	0.0019	3
			1300	300	13,020	48	14,444	38.1117	650	0.0007	2.1354	0.0071	10
			1400	60	13,080	48	2,894	7.6348	208	0.0002	0.1369	0.0023	3
			1500	60	13,140	49	2,932	7.7370	146	0.0001	0.0974	0.0016	2
			1600	60	13,200	49	2,952	7.7896	150	0.0002	0.1007	0.0017	2
			1700	60	13,260	48	2,908	7.6727	363	0.0004	0.2401	0.0040	6
		4/28/2011	800	900	14,160	49	43,764	115.4727	163	0.0002	1.6225	0.0018	3
			1400	360	14,520	48	17,362	45.8089	220	0.0002	0.8687	0.0024	3
		4/29/2011	730	1050	15,570	49	50,931	134.3827	135	0.0001	1.5638	0.0015	2
	STOP		1000	150	15,720	48	7,234	19.0871	125	0.0001	0.2057	0.0014	2
	TOTAL				**15,720**		**617,366**	**1629**			**27**	**0.0017**	**3**
	MEDIAN					**42**			**187**	**0.0002**			

Table 6

Second Quarter 2011 MPE Event
Extraction Data and VOC Mass Removal Rate
April 2011

15101 Freedom Avenue
San Leandro, California

MPE WELL	COMMENT	DATE	CLOCK TIME	INCREMENTAL TIME	ELAPSED TIME	Q			PID		MASS REMOVAL		
				minutes	minutes	SCFM	ft^3 of extracted air	Moles of extracted air	ppmv as hexane	VOC mole %	lb VOC mass removal as hexane	lbs/min	lbs/day

Notes

Q	volumetric flow rate
SCFM	standard cubic feet per minute
ft^3	cubic feet per minute
VOC	volatile organic compounds
PID	photo-ionization detector
ppmv	parts per million vapor

DERIVATION OF MASS REMOVAL RATE

ppmv as hexane/1,000,000 = VOC mole %
ft3 of extracted air/(379 ft3 air/lb-mole air) = moles of extracted air
(moles of extracted air)(VOC mole %)(86.2 lb/lb-mole hexane) = lbs of VOC removed as hexane
(lbs of VOC mass removed as hexane)(elapsed time) = lbs/min of VOC removed as hexane
(lbs/min of VOC removed as hexane)(60 min/1 hour)(24 hours/1 day) = lbs/day of VOC removed as hexane

Table 7
SVE Abatement System Emissions
15101 Freedom Avenue, San Leandro, CA

Operation Start Date/Time	Onboard Analyzer Sample Date/Time	Onboard Analyzer		Lab Sample Date/Time	USEPA TO-3 MODIFIED		USEPA TO-15 MODIFIED		Q (SCFM)	Abatement Efficiency	Emissions Rate Benzene (lbs/day)
		Hydrocarbons (TPH-g + BTEX) (ppmv as hexane)			TPH-g (ppmv)		Benzene (ppmv)				
		Inlet	Outlet		Inlet	Outlet	Inlet	Outlet			
4/18/1` @ 11:00	4/19/11 @ 7:00	101	8	4/19/11 @ 9:45	39.42	<0.322	2.84	<0.00069	42	99.9757%	1.28E-05
										total lbs	1.3952E-04

SCFM standard cubic feet per minute

lbs/day pounds per day

Appendix A

Standard Operating Procedures for
Conducting Groundwater Monitoring Activities

Standard Operating Procedures for Conducting Groundwater Monitoring Activities

Water Level Measurements

Prior to measurement of groundwater depth at each well, equalization with the surrounding aquifer must be achieved. Initially, the well cap is removed and the pressure is allowed to dissipate, creating a more stable water table level within the well. After about 10-15 minutes, once the water level in the well stabilizes, the depth to groundwater is measured from the top of the casing to the nearest 0.01 foot using an electric sounder.

Purging and Field Measurements

Prior to sample collection, each well is purged using a battery-operated, 2-inch-diameter pump (Model ES-60 DC). During purging, groundwater is measured for parameters such as dissolved oxygen (DO), pH, temperature, electrical conductivity (EC), and oxygen-reduction potential (ORP) using a Hanna HI-9828 multi-parameter instrument. Turbidity is measured using a Hanna HI-98703 portable turbidimeter. The equipment is calibrated at the site using standard solutions and procedures provided by the manufacturer.

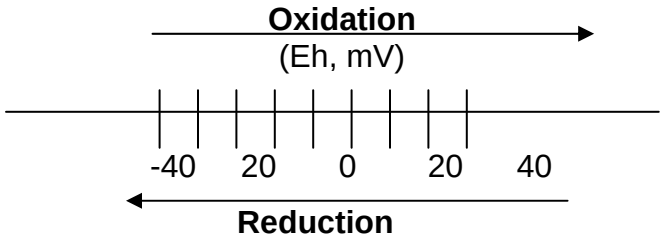
The pH of groundwater has an effect on the activity of microbial populations in the groundwater. The groundwater temperature affects the metabolic activity of bacteria. The groundwater EC is directly related to the concentration of total dissolved solids (TDS) in solution.

There is a strong correlation between the turbidity level and the biological oxygen demand of natural water bodies. The main purpose for checking the turbidity level is to provide a general overview of the extent of the suspended solids in the groundwater.

ORP is the measure of the potential for an oxidation or reduction process to occur. In the oxidation process, a molecule or ion loses one or several electrons. In the reduction process, a molecule or ion gains one or several electrons. The unit of the redox potential is the volt or millivolt. The most important redox reaction in petroleum-contaminated groundwater is the oxidation of petroleum hydrocarbons in the presence of bacteria and free molecular oxygen. Because the solubility of O_2 in water is low (9 mg/L at 25 ^{o}C and 11 mg/L at 5 ^{o}C), and because the rate of O_2 replenishment in subsurface environments is limited, DO can be entirely consumed when the oxidation of only a small amount of petroleum hydrocarbons occurs.

Oxidation of petroleum hydrocarbons can still occur when all the dissolved O_2 in the groundwater is consumed; however, the oxidizing agents (i.e., the constituents that undergo reduction) now become NO^{-}_3, MnO_2, $Fe(OH)_3$, SO_4^{2-}

and others (Freeze and Cherry, 1979). As these oxidizing agents are consumed, the groundwater environment becomes more and more reduced. If the process advances far enough, the environment may become so strongly reduced that the petroleum hydrocarbons undergo anaerobic degradation, resulting in the production of methane and carbon dioxide. The concept of oxidation and reduction in terms of changes in oxidation states is illustrated below.



Purging of wells continues until the parameters for DO, pH, temperature, EC, turbidity, and redox stabilize, or three casing volumes are purged.

Once stabilization occurs, the groundwater samples are also tested on-site for ferrous iron (Fe^{+2}), nitrate (NO_3^-), and sulfate (SO_4^{-2}) concentrations.

Fe^{+2}, NO_3^-, and SO_4^{-2} are measured colorimetrically using the Hach Colorimeter Model 890, a microprocessor-controlled photometer suitable for colorimetric testing in the laboratory or the field. The required reagents for each specific test are provided in AccuVac ampuls.

Sampling

For sampling purposes, after purging a disposable polyethylene bailer is used to collect sufficient samples from each monitoring well for laboratory analyses. Groundwater samples are transferred into 40-mL VOA vials and preserved with hydrochloric acid. The vials are sealed to prevent air bubbles from developing within the headspace. For TPH-d analysis, groundwater samples are collected using 1-L, amber, nonpreserved glass containers. Samples are placed in an ice-filled cooler and maintained at 4°C. A chain of custody form for all samples is prepared to accompany the samples, which are promptly delivered to a California state-certified analytical laboratory.

Table A
Historical Field Parameters
15101 Freedom Avenue, San Leandro, CA

Monitoring Well	Date	Disoolved Oxygen (mg/L)	pH	Temperature °C	Electrical Conductivity µS/cm	Turbidity NTU	ORP
1st WBZ							
MW-1	8/27/2009	0.38	6.32	20.8	1357	4.69	-95.7
	12/2/2009	0.15	6.4	20.82	1261	6.19	-136.4
	3/17/2010	0.58	5.68	20.97	1186	7.00	-155.9
	6/3/2010	0.91	6.11	20.81	1285	2.49	-131.6
	9/2/2010	0.92	6.04	20.66	1361	2.46	-86.4
	12/2/2010	0.97	5.96	20.74	1309	4.32	-119.7
	3/4/2011	1.4	6.69	20.96	1169	1.98	-101.2
	5/20/2011	**1.51**	**6.22**	**20.68**	**1305**	**1.85**	**-164.5**
MW-2	8/27/2009	0.43	6.57	20.72	1530	2.59	-168.1
	12/1/2009	0.48	6.75	21.12	1297	5.01	-191.3
	3/17/2010	0.51	5.78	21.08	1025	5.65	-108
	6/3/2010	0.62	6.28	20.84	930	2.66	-150.2
	9/2/2010	0.66	6.29	20.73	1269	2.67	-174.2
	12/2/2010	0.63	6.06	20.94	1439	2062	-162.4
	3/4/2011	1.55	6.84	20.91	815	3.34	-87.8
	5/20/2011	**1.22**	**6.39**	**20.59**	**981**	**2.58**	**-185.9**
MW-3	8/27/2009	1.90	6.36	20.82	1318	5.57	-119.3
	12/2/2009	1.80	6.52	20.94	1239	5.88	-206.6
	3/17/2010	1.60	5.78	21.28	1080	5.37	-166.4
	6/3/2010	1.05	6.24	21.16	1130	2.03	-134.8
	9/2/2010	1.17	6.18	21.04	1256	2.86	-131.2
	12/2/2010	1.27	6.06	21.03	1152	1.83	-171.9
	3/4/2011	1.26	6.77	21.18	1074	3.57	-109.8
	5/20/2011	**1.04**	**6.4**	**20.9**	**1180**	**2.72**	**-220.1**
MW-4	8/27/2009	2.90	6.26	20.11	1649	2.78	-115.5
	12/2/2009	0.87	6.4	20.12	1578	5.06	-173.2
	3/17/2010	2.30	5.63	20.39	1506	4.01	-119.4
	6/3/2010	1.90	6.14	20.45	1418	1.56	-131.8
	9/2/2010	1.80	6.06	20.21	1305	1.45	-101.5
	12/2/2010	1.63	5.89	20.28	1465	102	-180
	3/3/2011	1.89	6.66	20.47	1278	0.97	-90.5
	5/19/2011	**1.78**	**6.42**	**20.51**	**1251**	**1.5**	**-168.3**
MW-5	8/27/2009	1.00	6.38	20.8	1321	6.63	-91.9
	12/2/2009	1.50	6.47	21.03	1227	5.66	-109.1
	3/17/2010	1.10	5.82	21.28	1150	75.3	-60.7
	6/4/2010	1.10	5.99	20.87	1128	3.84	-33.8
	9/2/2010	1.03	6.16	21.22	1178	13.0	-168.4
	12/2/2010	1.05	6.02	21.46	1112	12.3	-167.7
	3/4/2011	1.11	6.89	21.46	1078	4.59	-106.9
	5/20/2011	**1.18**	**6.47**	**21.02**	**1106**	**26.5**	**-222.5**
MW-6	8/26/2009	0.42	6.47	20.93	1201	6.53	-172.3
	12/1/2009	0.26	6.89	21.64	1171	6.83	-207.9
	3/16/2010	0.63	5.91	21.26	1544	6.72	-168.2
	6/3/2010	0.58	6.38	20.74	1346	2.61	-116.4
	9/1/2010	0.41	6.44	20.86	1419	2.77	-120.3
	12/2/2010	0.37	6.24	21.17	1362	4.5	-148
	3/3/2011	1.54	6.81	21	1262	1.87	-98.3
	5/20/2011	**1.23**	**6.62**	**20.51**	**1312**	**2.53**	**-221.1**

Table A
Historical Field Parameters
15101 Freedom Avenue, San Leandro, CA

Monitoring Well	Date	Disoolved Oxygen (mg/L)	pH	Temperature °C	Electrical Conductivity µS/cm	Turbidity NTU	ORP
MW-7	8/26/2009	0.98	6.36	19.24	1375	145	-128.3
	12/1/2009	1.05	6.83	19.51	1340	997	-4.3
	3/16/2010	0.83	5.88	18.37	1266	382	-37.9
	6/3/2010	0.77	6.46	18.67	1199	873	-30.4
	9/1/2010	0.98	6.4	19.83	1271	999	-60
	12/2/2010	1.01	6.23	19.17	1253	999	-85.6
	3/4/2011	3.66	6.68	18.33	1098	609	-49.5
	5/19/2011	**1.35**	**6.42**	**17.71**	**1192**	**879**	**-53.7**
EX-1	12/2/2009	grab sample					
	3/16/2010	grab sample					
	6/3/2010	grab sample					
	9/1/2010	grab sample					
	12/2/2010	grab sample					
	3/3/2011	grab sample					
	5/19/2011	**grab sample**					
EX-2	12/2/2009	grab sample					
	3/16/2010	grab sample					
	6/3/2010	grab sample					
	9/1/2010	grab sample					
	12/2/2010	grab sample					
	3/3/2011	grab sample					
	5/19/2011	**grab sample**					
2nd WBZ							
MW-1D	8/26/2009	0.45	7.04	19.93	1388	7.75	-11
	12/1/2009	0.51	7.4	19.79	1342	19.1	-21.7
	3/16/2010	0.57	6.45	19.99	1353	98.9	-28.2
	6/4/2010	0.58	6.66	19.98	1336	3.85	97.7
	9/1/2010	0.52	6.94	20.12	1404	4.41	-6.6
	12/3/2010	0.49	6.64	19.73	1328	7.12	-75.3
MW-1D cont.	3/3/2011	2.77	7.35	19.79	1294	9.97	18.8
	5/19/2011	**2.81**	**7.07**	**19.95**	**1330**	**5.26**	**6.6**
MW-3D	8/26/2009	0.73	6.93	20.17	1276	1.73	-18.8
	12/1/2009	0.98	7.3	20.04	1236	2.48	-23.5
	3/16/2010	0.69	6.38	20.29	1272	8.05	-27.8
	6/4/2010	0.77	6.54	20.2	1254	0.42	78.1
	9/1/2010	0.79	6.85	20.33	1304	0.25	-29.4
	12/3/2010	0.81	6.49	20.04	1252	1.49	-79.2
	3/3/2011	2	7.24	20.02	1254	0.85	54
	5/19/2011	**1.99**	**6.91**	**20.21**	**1260**	**2.03**	**-14.8**
MW-4D	8/27/2009	0.98	6.93	19.46	1280	4.31	-26.4
	12/1/2009	1.9	7.36	19.42	1249	4.66	-24.2
	3/16/2010	1.4	6.36	19.58	1283	24.8	-16.7
	6/4/2010	1.3	6.53	19.49	1259	5.1	115.8
	9/1/2010	1.44	6.92	19.67	1333	2.2	-26.9
	12/3/2010	1.3	6.5	19.4	1266	1.57	-116.6
	3/3/2011	2.11	7.36	19.42	1219	1.8	-96.4
	5/19/2011	**2.12**	**6.95**	**19.56**	**1262**	**2.09**	**-15.5**

Appendix B

Table of Elevations and Coordinates on Monitoring Wells and Field Measurements of Physical, Chemical, and Natural Attentuation Parameters of Groundwater Samples

AMMENDED 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: FEB. 21,2008

	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	2084251.32	6092125.25	53.70	MW-4 PAV	Ammended 2\21\08	From here down
69	2084250.55	6092124.46	53.74	MW-4 PUNCH		
70	2084250.36	6092124.67	53.31	MW-4 NOTCH	37°42'27.98205"	122°07'23.53734"
71	2084298.86	6092176.07	54.37	MW-3 PAV		
72	2084298.19	6092176.26	54.33	MW-3 PUNCH		
73	2084297.82	6092176.29	53.91	MW-3 NOTCH	37°42'28.46009"	122°07'22.90536"
74	2084365.28	6092117.89	54.82	MW-1 PAV		
75	2084364.32	6092118.22	54.79	MW-1 PUNCH		
76	2084364.03	6092118.49	54.46	MW-1 NOTCH	37°42'29.10470"	122°07'23.63882"
77	2084323.98	6092063.51	52.88	MW-2 PAV		
78	2084323.44	6092063.77	52.92	MW-2 PUNCH		
79	2084323.06	6092063.88	52.41	MW-2 NOTCH	37°42'28.69039"	122°07'24.30947"
80	2084930.49	6091759.33	58.50	FD BM K1256	37°42'34.64279"	122°07'28.23011"

DATE: 1/08/2008
JOB NUMBER 0208101
DATE OF SURVEY 1/03/08
INSTRUMENT LIECA SR520

TABLE OF ELEVATIONS & COORDINATES
ON MONITORING WELLS
SOMA ENVIRONMENTAL, PROJECT 15101 FREEDOM DRIVE - SAN LEANDRO

WELL ID#	NORTHING (ft.) LATITUDE	EASTING (ft.) LONGITUDE	ELEVATION (ft.)	DESCRIPTION
MW-1D	2084371.23	6092127.90	54.42	MW-1D NOTCH
	37.708104856	122.123200912	54.94	MW-1D RIM
	37º 42' 29.1" N	122º 07' 23" W	54.74	PAVEMENT
MW-3D	2084303.98	6092183.53	54.10	MW-3D NOTCH
	37.707922851	122.123004590	54.56	MW-3D RIM
	37º 42' 28.5" N	122º 07' 22" W	54.47	PAVEMENT
MW-4D	2084222.77	6092116.37	53.12	MW-4D NOTCH
	37.707696648	122.123231858	53.37	MW-4D RIM
	37º 42' 27.7" N	122º 07' 23" W	53.39	PAVEMENT

BENCH MARK: NGS BENCH MARK NO. HT1871

3.0 KM (1.85 MI) NORTH FROM SAM LORENZO. 1.85 MILES NORTH ALONG INTERSTATE HIGHWAY 580 FROM THE JUNCTION OF STATE HIGHWAY 238 IN SAN LORENZO, IN THE WEST CORNER OF THE CROSSING OF 150TH AVENUE, IN TOP OF THE CONCRETE BRIDGE DECK, 15.5 FEET NORTHWEST OF THE SOUTHWEST BOUND LANES OF THE AVENUE, 10.9 FEET NORTHEAST OF THE SOUTH CORNER OF THE SOUTHWEST END OF THE NORTHWEST CONCRETE GUARDRAIL, 0.7 FOOT NORTHEAST OF THE SOUTHWEST EDGE OF THE DECK, 0.9 FOOT SOUTHEAST OF THE NORTHWEST CONCRETE GUARDRAIL, AND ABOUT LEVEL WITH THE HIGHWAY.

ELEVATION = 58.50 NAVD 88 DATUM

HORIZONTAL AND VERTICAL CONTROL BASED ON HARRINGTON SURVEY DATED 10-12-2004

FD CHABOT A, CALIFORNIA STATE PLAIN COORDINATE SYSTEM, NAD 83, ZONE 3. NORTH 2,088,584.99 EAST 6,093,351.39. LAT N 37º43'11.04190" LONG W 122º07'09.20691", ELEVATION 492.08 NAVD 88.

FD CHABOT B, CALIFORNIA STATE PLAIN COORDINATE SYSTEM, NAD 83, ZONE 3. NORTH 2,087,731.02 EAST 6,094,039.23. . LAT N 37º43'02.71762" LONG W 122º07'00.46339", ELEVATION 442.77 NAVD 88.

DATE: 12/11/2009

JOB# 09039

TABLE OF ELEVATIONS & COORDINATES
ON MONITORING WELLS

SOMA ENVIRONMENTAL ENGINEERING
15101 FREEDOM AVENUE
SAN LEANDRO, CA 94579

WELL ID #	NORTHING (FT.) / LATITUDE (D.DEG.)	EASTING (FT.) / LONGITUDE (D.DEG.)	ELEVATION (FT.)	DESCRIPTION
EX-1	2084135.454	6092163.720	47.36	4" PVC NOTCH NORTH SIDE
	37.707459134	122.123062972	47.61	SET PUNCH NORTH SIDE RIM
			47.60	PAVEMENT NORTH SIDE
EX-2	2084082.018	6092130.224	45.96	4" PVC NOTCH NORTH SIDE
	37.707310806	122.123175540	47.04	SET PUNCH NORTH SIDE RIM
			47.00	CONCRETE NORTH SIDE
MPE-1	2084213.168	6092125.258	51.96	4" PVC NOTCH NORTH SIDE
	37.707670702	122.123200567	52.49	SET PUNCH NORTH SIDE RIM
			52.51	CONCRETE NORTH SIDE
MPE-2	2084293.133	6092171.374	53.72	4" PVC NOTCH NORTH SIDE
	37.707892479	122.123045970	54.29	SET PUNCH NORTH SIDE RIM
			54.27	PAVEMENT NORTH SIDE

HORIZONTAL AND VERTICAL CONTROL
SURVEY BASED ON PREVIOUS SURVEY BY HARRINGTON SURVEY INC. DATED: 2/21/2008
COORDINATE VALUES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE 3, NAD83.
ELEVATIONS ARE NAVD 88 DATUM.

MW-2, PUNCH
NORTHING 2,084323.44, EASTING 6,092063.77, ELEVATION 52.92

MW-4 PUNCH
NORTHING 2,084250.55, EASTING 6,092124.46, ELEVATION 53.74

EQUIPMENT USED: TRIMBLE S6

Edgis Land Surveying
Land Surveying and mapping
1374 Garland Avenue, Clovis, CA 93612
Phone (559) 906-3554 Fax (559) 292-0560
email: edgis@aol.com

PROFESSIONAL LAND SURVEYOR
EDUARDO A. ESPINOZA
EXP. 9/30/10
No. L 6772
STATE OF CALIFORNIA

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-1	**Project No.:**	2551
Casing Diameter:	4 inches	**Address:**	15101 Freedom Avenue
Depth of Well:	30.50 feet		San Leandro, CA
Top of Casing Elevation:	54.46 feet	**Date:**	~~June~~ May 20, 2011
Depth to Groundwater:	22.80 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	31.66 feet		
Water Column Height:	7.70 feet		
Purged Volume:	14 gallons		

Purging Method: Bailer ☐ Pump ☑

Sampling Method: Bailer ☑ Pump ☐

Color: Yes ☐ No ☑ Describe: _____

Sheen: Yes ☐ No ☑ Describe: _____

Odor: Yes ☑ No ☐ Describe: Slight Petro

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP
10:23	Started purging well						
10:24	2	3.15	6.25	20.59	1258	1.81	-126.4
10:26	6	2.69	6.23	20.62	1256	2.32	-151.5
10:28	10	2.02	6.23	20.66	1288	3.01	-161.2
10:29	12	1.77	6.22	20.66	1292	2.00	-163.3
10:30	14	1.51	6.22	20.68	1305	1.85	-164.5
10:35	Sampled						

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-2	**Project No.:**	2551
Casing Diameter:	4 inches	**Address:**	15101 Freedom Avenue
Depth of Well:	30.15 feet		San Leandro, CA
Top of Casing Elevation:	52.41 feet	**Date:**	~~June~~ May 20, 2011
Depth to Groundwater:	20.75 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	31.66 feet		
Water Column Height:	9.40 feet		
Purged Volume:	14 gallons		

Purging Method: Bailer ☐ Pump ☑

Sampling Method: Bailer ☑ Pump ☐

Color: Yes ☐ No ☑ **Describe:** _____

Sheen: Yes ☐ No ☑ **Describe:** _____

Odor: Yes ☑ No ☐ **Describe:** Slight Petro

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP
09:49	Started purging well						
09:50	2	3.22	6.41	20.54	973	6.31	-186.9
09:52	6	2.51	6.37	20.51	782	6.86	-200.7
09:54	10	1.90	6.36	20.53	866	4.74	-191.7
09:55	12	1.53	6.38	20.58	977	2.80	-189.1
09:56	14	1.22	6.39	20.59	981	2.58	-185.9
10:01	Sampled						

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-3	**Project No.:**	2551
Casing Diameter:	4 inches	**Address:**	15101 Freedom Avenue
Depth of Well:	29.90 feet		San Leandro, CA
Top of Casing Elevation:	53.91 feet	**Date:**	~~June~~ may 20 , 2011
Depth to Groundwater:	22.36 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	31.55 feet		
Water Column Height:	7.54 feet		
Purged Volume:	14 gallons		

Purging Method: Bailer ☐ Pump ☑

Sampling Method: Bailer ☑ Pump ☐

Color: Yes ☐ No ☑ **Describe:** _____

Sheen: Yes ☐ No ☑ **Describe:** _____

Odor: Yes ☑ No ☐ **Describe:** ~~Slight~~ Petro Odor

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP
10:55	Started purging well						
10:56	2	1.98	6.50	20.89	1142	9.44	-215.1
10:58	6	1.53	6.45	20.89	1094	5.98	-228.1
11:00	10	1.25	6.42	20.93	1142	3.05	-225.1
11:01	12	1.17	6.41	20.92	1159	2.86	-223.0
11:02	14	1.04	6.40	20.90	1180	2.72	-220.1
11:07	Sampled						

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-4	**Project No.:**	2551
Casing Diameter:	4 inches	**Address:**	15101 Freedom Avenue
Depth of Well:	30.20 feet		San Leandro, CA
Top of Casing Elevation:	53.31 feet	**Date:**	~~June~~ May 19, 2011
Depth to Groundwater:	21.84 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	31.47 feet		
Water Column Height:	8.36 feet		
Purged Volume:	14 gallons		

Purging Method: Bailer ☐ Pump ☑

Sampling Method: Bailer ☑ Pump ☐

Color: Yes ☐ No ☑ **Describe:** _____

Sheen: Yes ☐ No ☑ **Describe:** _____

Odor: Yes ☑ No ☐ **Describe:** Very Slight Petro

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP
13:17	Started purging well						
13:18	2	3.75	6.82	20.51	918	5.73	-179.8
13:20	6	2.88	6.54	20.49	1089	4.21	-188.9
13:22	10	2.30	6.44	20.51	1211	1.86	-174.6
13:23	12	1.95	6.41	20.49	1225	1.69	-170.0
13:24	14	1.78	6.42	20.51	1251	1.50	-168.3
13:29	Sampled						

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-5	**Project No.:**	2551
Casing Diameter:	4 inches	**Address:**	15101 Freedom Avenue
Depth of Well:	29.80 feet		San Leandro, CA
Top of Casing Elevation:	50.53 feet	**Date:**	~~June~~ May 20, 2011
Depth to Groundwater:	19.18 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	31.35 feet		
Water Column Height:	10.62 feet		
Purged Volume:	14 gallons		

Purging Method: Bailer ☐ Pump ☑

Sampling Method: Bailer ☑ Pump ☐

Color: Yes ☐ No ☑ **Describe:** _____

Sheen: Yes ☐ No ☑ **Describe:** _____

Odor: Yes ☑ No ☐ **Describe:** Slight Petro

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP
11:29	Started purging well						
11:30	2	2.30	6.55	20.97	1103	11.5	-197.2
11:32	6	1.93	6.48	21.01	1106	5.13	-219.1
11:34	10	1.70	6.47	21.01	1108	5.98	-224.5
11:35	12	1.32	6.47	21.02	1105	14.2	-223.3
11:36	14	1.18	6.47	21.02	1106	26.5	-222.5
11:41	Sampled						

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-6	**Project No.:**	2551
Casing Diameter:	4 inches	**Address:**	15101 Freedom Avenue
Depth of Well:	27.30 feet		San Leandro, CA
Top of Casing Elevation:	45.82 feet	**Date:**	~~June~~ May 20 , 2011
Depth to Groundwater:	14.95 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	30.87 feet		
Water Column Height:	12.35 feet		
Purged Volume:	14 gallons		

Purging Method: Bailer ☐ Pump ☑

Sampling Method: Bailer ☑ Pump ☐

Color: Yes ☐ No ☑ **Describe:** _____

Sheen: Yes ☑ No ☐ **Describe:** Rainbow Sheen

Odor: Yes ☑ No ☐ **Describe:** Strong Petro

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP
12:02	Started purging well						
12:03	2	2.22	6.60	20.46	1287	6.18	-197.7
12:05	6	2.03	6.61	20.47	1297	3.40	-212.8
12:07	10	1.83	6.60	20.48	1306	3.23	-216.9
12:08	12	1.51	6.63	20.50	1309	3.03	-220.8
12:09	14	1.23	6.62	20.51	1312	2.53	-221.1
12:14	Sampled						

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-7	**Project No.:**	2551
Casing Diameter:	2 inches	**Address:**	15101 Freedom Avenue
Depth of Well:	21.00 feet		San Leandro, CA
Top of Casing Elevation:	44.74 feet	**Date:**	~~June~~ May 19, 2011
Depth to Groundwater:	13.43 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	31.31 feet		
Water Column Height:	7.57 feet		
Purged Volume:	3.5 gallons		

Purging Method: Bailer ☑ Pump ☐

Sampling Method: Bailer ☑ Pump ☐

Color: Yes ☑ No ☐ **Describe:** Cloudy

Sheen: Yes ☐ No ☑ **Describe:**

Odor: Yes ☐ No ☑ **Describe:**

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP
10:46	Started purging well						
10:48	1	5.24	6.34	17.98	1220	433	-60.8
10:51	2	3.15	6.35	17.78	1173	784	-83.6
10:55	3	2.07	6.40	17.77	1185	957	-66.8
10:57	3.5	1.35	6.42	17.71	1192	879	-53.7
11:02	Sampled						

ENVIRONMENTAL ENGINEERING, INC

Well No.:	EX-1	**Project No.:**	2551
Casing Diameter:	6 inches	**Address:**	15101 Freedom Avenue
Depth of Well:	— feet		San Leandro, CA
Top of Casing Elevation:	47.36 feet	**Date:**	~~June~~ May 19 , 2011
Depth to Groundwater:	16.12 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	31.24 feet		Erica Fisker
Water Column Height:	NC feet		
Purged Volume:	— gallons		
	Not purged		

Purging Method: Bailer ☐ Pump ☐

Sampling Method: Bailer ☑ Pump ☐

Color: Yes ☐ No ☑ **Describe:** _____

Sheen: Yes ☐ No ☑ **Describe:** _____

Odor: Yes ☐ No ☑ **Describe:** _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP
11:10	Grab sample						

ENVIRONMENTAL ENGINEERING, INC

Well No.:	EX-2	**Project No.:**	2551
Casing Diameter:	6 inches	**Address:**	15101 Freedom Avenue
Depth of Well:	— feet		San Leandro, CA
Top of Casing Elevation:	45.96 feet	**Date:**	~~June~~ May 19, 2011
Depth to Groundwater:	15.08 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	30.88 feet		Erica Fisker
Water Column Height:	NC feet		
Purged Volume:	— gallons		
	Not purged		

Purging Method: Bailer ☐ Pump ☐

Sampling Method: Bailer ☑ Pump ☐

Color: Yes ☐ No ☑ **Describe:** _____

Sheen: Yes ☐ No ☑ **Describe:** _____

Odor: Yes ☑ No ☐ **Describe:** Slight Petro

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP
11:18	Grab sample						

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MPE-1	**Project No.:**	2551
Casing Diameter:	4 inches	**Address:**	15101 Freedom Avenue
Depth of Well:	30.00 feet		San Leandro, CA
Top of Casing Elevation:	51.96 feet	**Date:**	~~June~~ May 19, 2011
Depth to Groundwater:	20.60 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	31.36 feet		
Water Column Height:	9.40 feet		
Purged Volume:	— gallons		
	Not purged		

Purging Method: Bailer ☐ Pump ☐

Sampling Method: Bailer ☐ Pump ☐ Not sampled

Color: Yes ☐ No ☐ **Describe:** Unknown

Sheen: Yes ☐ No ☐ **Describe:** Unknown

Odor: Yes ☐ No ☐ **Describe:** Unknown

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MPE-2	**Project No.:**	2551
Casing Diameter:	4 inches	**Address:**	15101 Freedom Avenue
Depth of Well:	30.00 feet		San Leandro, CA
Top of Casing Elevation:	53.72 feet	**Date:**	~~June~~ May 19 , 2011
Depth to Groundwater:	22.19 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	31.53 feet		
Water Column Height:	7.81 feet		
Purged Volume:	— gallons		
	Not purged		

Purging Method: Bailer ☐ Pump ☐

Sampling Method: Bailer ☐ Pump ☐ Not sampled

Color:	Yes ☐	No ☐	**Describe:**	Unknown
Sheen:	Yes ☐	No ☐	**Describe:**	Unknown
Odor:	Yes ☐	No ☐	**Describe:**	Unknown

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-1D	**Project No.:**	2551
Casing Diameter:	2 inches	**Address:**	15101 Freedom Avenue
Depth of Well:	59.81 feet		San Leandro, CA
Top of Casing Elevation:	54.42 feet	**Date:**	~~June~~ May 19, 2011
Depth to Groundwater:	22.89 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	31.53 feet		Erica Fiskeer
Water Column Height:	36.92 feet		
Purged Volume:	14 gallons		

Purging Method: Bailer ☐ Pump ☑

Sampling Method: Bailer ☑ Pump ☐

Color: Yes ☐ No ☑ **Describe:** _____

Sheen: Yes ☐ No ☑ **Describe:** _____

Odor: Yes ☐ No ☑ **Describe:** _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP
12:00	Started purging well						
12:01	2	5.02	7.38	20.06	1305	5.73	-6.3
12:03	6	4.31	7.16	19.95	1325	8.74	+6.6
12:05	10	3.97	7.09	19.92	1328	9.82	+7.7
12:06	12	3.02	7.08	19.94	1329	8.08	+6.9
12:07	14	2.81	7.07	19.95	1330	5.26	+6.6
12:12	Sampled						

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-3D	**Project No.:**	2551
Casing Diameter:	2 inches	**Address:**	15101 Freedom Avenue
Depth of Well:	58.59 feet		San Leandro, CA
Top of Casing Elevation:	54.10 feet	**Date:**	~~June~~ May 19 , 2011
Depth to Groundwater:	22.61 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	31.49 feet		Erica Fisker
Water Column Height:	35.98 feet		
Purged Volume:	14 gallons		

Purging Method: Bailer ☐ Pump ☑

Sampling Method: Bailer ☑ Pump ☐

Color: Yes ☐ No ☑ Describe: _____

Sheen: Yes ☐ No ☑ Describe: _____

Odor: Yes ☐ No ☑ Describe: _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP
12:24	Started purging well						
12:25	2	3.55	6.98	20.24	1242	8.49	-28.8
12:27	6	3.19	6.94	20.22	1253	3.18	-20.6
12:29	10	2.56	6.93	20.21	1257	2.33	-17.3
12:30	12	2.12	6.91	20.21	1259	1.30	-15.4
12:31	14	1.99	6.91	20.21	1260	2.03	-14.8
12:36	sampled						

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-4D	**Project No.:**	2551
Casing Diameter:	2 inches	**Address:**	15101 Freedom Avenue
Depth of Well:	58.79 feet		San Leandro, CA
Top of Casing Elevation:	53.12 feet	**Date:**	~~June~~ May 19, 2011
Depth to Groundwater:	21.57 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	31.55 feet		Erica Fisher
Water Column Height:	37.22 feet		
Purged Volume:	14 gallons		

Purging Method: Bailer ☐ Pump ☑

Sampling Method: Bailer ☑ Pump ☐

Color: Yes ☐ No ☑ **Describe:** _____

Sheen: Yes ☐ No ☑ **Describe:** _____

Odor: Yes ☐ No ☑ **Describe:** _____

Field Measurements:

Time	Volume (gallons)	D.O. mg/L	pH	Temp °C	E.C. (µS/cm)	Turb. NTU	ORP
12:50	Started purging well						
12:51	2	3.32	7.00	19.58	1237	2.27	-28.8
12:53	6	3.03	6.97	19.57	1259	1.55	-25.7
12:55	10	2.75	6.94	19.57	1260	6.38	-20.3
12:56	12	2.31	6.93	19.58	1261	3.08	-17.8
12:57	14	2.12	6.95	19.56	1262	2.09	-15.5
13:02	Sampled						

Appendix C

Laboratory Report and Chain of Custody Form
for the Second Quarter 2011 Monitoring Event

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 228168
ANALYTICAL REPORT

SOMA Environmental Engineering Inc.
6620 Owens Dr.
Pleasanton, CA 94588

Project : 2551
Location : 15101 Freedom Avenue
Level : II

Sample ID	Lab ID
MW-1	228168-001
MW-2	228168-002
MW-3	228168-003
MW-4	228168-004
MW-5	228168-005
MW-6	228168-006
MW-7	228168-007
MW-1D	228168-008
MW-3D	228168-009
MW-4D	228168-010
EX-1	228168-011
EX-2	228168-012

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 06/03/2011
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**228168**
Client:	**SOMA Environmental Engineering Inc.**
Project:	**2551**
Location:	**15101 Freedom Avenue**
Request Date:	**05/20/11**
Samples Received:	**05/20/11**

This data package contains sample and QC results for twelve water samples, requested for the above referenced project on 05/20/11. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

CHAIN OF CUSTODY

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

C&T LOGIN # 223168

Sampler: Lizzie Hightower/ Erica Fisker

Project No: 2551

Report To: Joyce Bobek

Project Name: 15101 Freedom Ave.,San Leandro

Company : SOMA Environmental

Turnaround Time: Standard

Telephone: 925-734-6400

Fax: 925-734-6401

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Matrix: Water	Matrix: Waste	# of Containers	Preservative: HCL	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: ICE	Analyses: TPHg, BTEX, MtBE 8260B	Analyses: Gasoline Oxygenates & Lead Scavengers
1	MW-1	5/20/11 10:35		*		3-VOAs	*			*	*	*
2	MW-2	5/20/11 10:01		*		3-VOAs	*			*	*	*
3	MW-3	5/20/11 11:07		*		3-VOAs	*			*	*	*
4	MW-4	5/19/11 13:29		*		3-VOAs	*			*	*	*
5	MW-5	5/20/11 11:41		*		3-VOAs	*			*	*	*
6	MW-6	5/20/11 12:14		*		3-VOAs	*			*	*	*
7	MW-7	5/19/11 11:02		*		3-VOAs	*			*	*	*
8	MW-1D	5/19/11 12:12		*		3-VOAs	*			*	*	*
9	MW-3D	5/19/11 12:36		*		3-VOAs	*			*	*	*
10	MW-4D	5/19/11 13:02		*		3-VOAs	*			*	*	*
11	EX-1	5/19/11 11:10		*		3-VOAs	*			*	*	*
12	EX-2	5/19/11 11:18		*		3-VOAs	*			*	*	*

Notes: **EDF OUTPUT REQUIRED**
Ethanol
Blue ice, took to her. Tc.

RELINQUISHED BY:	RECEIVED BY:
E Hightower 5/20/11 13:33 DATE/TIME	5/20/11 13:33 DATE/TIME
DATE/TIME	DATE/TIME
DATE/TIME	DATE/TIME

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 22163 Date Received 5/20/11 Number of coolers 1
Client SOMA Project 2551

Date Opened 5/20/11 By (print) Micah Smith (sign)
Date Logged in 5/23/11 By (print) R. Pinus (sign)

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☐ (NO)
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) _____ (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☒ Foam blocks ☐ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

Type of ice used: ☐ Wet ☒ Blue/Gel ☐ None Temp(°C) _____

☒ Samples Received on ice & cold without a temperature blank

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
11. Are sample labels present, in good condition and complete? _____ (YES) NO
12. Do the sample labels agree with custody papers? _____ (YES) NO
13. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
14. Are the samples appropriately preserved? _____ (YES) NO N/A
15. Did you check preservatives for all bottles for each sample? _____ YES NO (N/A)
16. Did you document your preservative check _____ YES NO (N/A)
17. Are bubbles > 6mm absent in VOA samples? _____ (YES) NO N/A
18. Was the client contacted concerning this sample delivery? _____ YES (NO)
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____

_____

_____

_____

_____

_____

_____

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	228168	Location:	15101 Freedom Avenue
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2551	Analysis:	EPA 8260B
Field ID:	MW-1	Units:	ug/L
Lab ID:	228168-001	Sampled:	05/20/11
Matrix:	Water	Received:	05/20/11

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Gasoline C7-C12	9,500	360	7.143	175292	05/29/11
tert-Butyl Alcohol (TBA)	ND	71	7.143	175292	05/29/11
Isopropyl Ether (DIPE)	ND	3.6	7.143	175292	05/29/11
Ethyl tert-Butyl Ether (ETBE)	ND	3.6	7.143	175292	05/29/11
Methyl tert-Amyl Ether (TAME)	ND	3.6	7.143	175292	05/29/11
Ethanol	ND	7,100	7.143	175292	05/29/11
MTBE	ND	3.6	7.143	175292	05/29/11
1,2-Dichloroethane	ND	3.6	7.143	175292	05/29/11
Benzene	260	3.6	7.143	175292	05/29/11
Toluene	6.2	3.6	7.143	175292	05/29/11
1,2-Dibromoethane	ND	3.6	7.143	175292	05/29/11
Ethylbenzene	970	10	20.00	175417	06/02/11
m,p-Xylenes	480	3.6	7.143	175292	05/29/11
o-Xylene	ND	3.6	7.143	175292	05/29/11

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	98	80-125	7.143	175292	05/29/11
1,2-Dichloroethane-d4	104	71-146	7.143	175292	05/29/11
Toluene-d8	95	80-120	7.143	175292	05/29/11
Bromofluorobenzene	99	80-120	7.143	175292	05/29/11

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	228168	Location:	15101 Freedom Avenue
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2551	Analysis:	EPA 8260B
Field ID:	MW-2	Batch#:	175292
Lab ID:	228168-002	Sampled:	05/20/11
Matrix:	Water	Received:	05/20/11
Units:	ug/L	Analyzed:	05/29/11
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	310	50
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
Ethanol	ND	1,000
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	4.8	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-125
1,2-Dichloroethane-d4	117	71-146
Toluene-d8	105	80-120
Bromofluorobenzene	96	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	228168	Location:	15101 Freedom Avenue
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2551	Analysis:	EPA 8260B
Field ID:	MW-3	Batch#:	175292
Lab ID:	228168-003	Sampled:	05/20/11
Matrix:	Water	Received:	05/20/11
Units:	ug/L	Analyzed:	05/29/11
Diln Fac:	12.50		

Analyte	Result	RL
Gasoline C7-C12	12,000	630
tert-Butyl Alcohol (TBA)	ND	130
Isopropyl Ether (DIPE)	ND	6.3
Ethyl tert-Butyl Ether (ETBE)	ND	6.3
Methyl tert-Amyl Ether (TAME)	ND	6.3
Ethanol	ND	13,000
MTBE	11	6.3
1,2-Dichloroethane	ND	6.3
Benzene	710	6.3
Toluene	24	6.3
1,2-Dibromoethane	ND	6.3
Ethylbenzene	620	6.3
m,p-Xylenes	1,100	6.3
o-Xylene	360	6.3

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-125
1,2-Dichloroethane-d4	106	71-146
Toluene-d8	101	80-120
Bromofluorobenzene	95	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	228168	Location:	15101 Freedom Avenue
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2551	Analysis:	EPA 8260B
Field ID:	MW-4	Batch#:	175292
Lab ID:	228168-004	Sampled:	05/20/11
Matrix:	Water	Received:	05/20/11
Units:	ug/L	Analyzed:	05/29/11
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	1,800	50
tert-Butyl Alcohol (TBA)	130	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	1.4	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
Ethanol	ND	1,000
MTBE	4.8	0.50
1,2-Dichloroethane	ND	0.50
Benzene	27	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	29	0.50
m,p-Xylenes	10	0.50
o-Xylene	1.2	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-125
1,2-Dichloroethane-d4	108	71-146
Toluene-d8	97	80-120
Bromofluorobenzene	94	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	228168	Location:	15101 Freedom Avenue
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2551	Analysis:	EPA 8260B
Field ID:	MW-5	Batch#:	175283
Lab ID:	228168-005	Sampled:	05/20/11
Matrix:	Water	Received:	05/20/11
Units:	ug/L	Analyzed:	05/29/11
Diln Fac:	2.000		

Analyte	Result	RL
Gasoline C7-C12	4,000	100
tert-Butyl Alcohol (TBA)	480	20
Isopropyl Ether (DIPE)	ND	1.0
Ethyl tert-Butyl Ether (ETBE)	ND	1.0
Methyl tert-Amyl Ether (TAME)	ND	1.0
Ethanol	ND	2,000
MTBE	33	1.0
1,2-Dichloroethane	ND	1.0
Benzene	91	1.0
Toluene	8.5	1.0
1,2-Dibromoethane	ND	1.0
Ethylbenzene	110	1.0
m,p-Xylenes	93	1.0
o-Xylene	13	1.0

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-125
1,2-Dichloroethane-d4	110	71-146
Toluene-d8	103	80-120
Bromofluorobenzene	93	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	228168	Location:	15101 Freedom Avenue
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2551	Analysis:	EPA 8260B
Field ID:	MW-6	Batch#:	175283
Lab ID:	228168-006	Sampled:	05/20/11
Matrix:	Water	Received:	05/20/11
Units:	ug/L	Analyzed:	05/29/11
Diln Fac:	5.000		

Analyte	Result	RL
Gasoline C7-C12	14,000	250
tert-Butyl Alcohol (TBA)	ND	50
Isopropyl Ether (DIPE)	ND	2.5
Ethyl tert-Butyl Ether (ETBE)	ND	2.5
Methyl tert-Amyl Ether (TAME)	ND	2.5
Ethanol	ND	5,000
MTBE	7.2	2.5
1,2-Dichloroethane	ND	2.5
Benzene	14	2.5
Toluene	ND	2.5
1,2-Dibromoethane	ND	2.5
Ethylbenzene	300	2.5
m,p-Xylenes	750	2.5
o-Xylene	73	2.5

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-125
1,2-Dichloroethane-d4	108	71-146
Toluene-d8	98	80-120
Bromofluorobenzene	97	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	228168	Location:	15101 Freedom Avenue
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2551	Analysis:	EPA 8260B
Field ID:	MW-7	Batch#:	175292
Lab ID:	228168-007	Sampled:	05/19/11
Matrix:	Water	Received:	05/20/11
Units:	ug/L	Analyzed:	05/29/11
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	810	50
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	2.1	0.50
Ethanol	ND	1,000
MTBE	7.8	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	2.2	0.50
m,p-Xylenes	0.79	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-125
1,2-Dichloroethane-d4	118	71-146
Toluene-d8	103	80-120
Bromofluorobenzene	96	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	228168	Location:	15101 Freedom Avenue
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2551	Analysis:	EPA 8260B
Field ID:	MW-1D	Batch#:	175283
Lab ID:	228168-008	Sampled:	05/19/11
Matrix:	Water	Received:	05/20/11
Units:	ug/L	Analyzed:	05/28/11
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
Ethanol	ND	1,000
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-125
1,2-Dichloroethane-d4	118	71-146
Toluene-d8	101	80-120
Bromofluorobenzene	94	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	228168	Location:	15101 Freedom Avenue
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2551	Analysis:	EPA 8260B
Field ID:	MW-3D	Batch#:	175283
Lab ID:	228168-009	Sampled:	05/19/11
Matrix:	Water	Received:	05/20/11
Units:	ug/L	Analyzed:	05/28/11
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
Ethanol	ND	1,000
MTBE	5.2	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-125
1,2-Dichloroethane-d4	113	71-146
Toluene-d8	98	80-120
Bromofluorobenzene	92	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	228168	Location:	15101 Freedom Avenue
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2551	Analysis:	EPA 8260B
Field ID:	MW-4D	Batch#:	175283
Lab ID:	228168-010	Sampled:	05/19/11
Matrix:	Water	Received:	05/20/11
Units:	ug/L	Analyzed:	05/28/11
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
Ethanol	ND	1,000
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-125
1,2-Dichloroethane-d4	117	71-146
Toluene-d8	107	80-120
Bromofluorobenzene	88	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	228168	Location:	15101 Freedom Avenue
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2551	Analysis:	EPA 8260B
Field ID:	EX-1	Batch#:	175283
Lab ID:	228168-011	Sampled:	05/19/11
Matrix:	Water	Received:	05/20/11
Units:	ug/L	Analyzed:	05/28/11
Diln Fac:	1.429		

Analyte	Result	RL
Gasoline C7-C12	370	71
tert-Butyl Alcohol (TBA)	370	14
Isopropyl Ether (DIPE)	ND	0.71
Ethyl tert-Butyl Ether (ETBE)	1.9	0.71
Methyl tert-Amyl Ether (TAME)	13	0.71
Ethanol	ND	1,400
MTBE	110	0.71
1,2-Dichloroethane	ND	0.71
Benzene	42	0.71
Toluene	ND	0.71
1,2-Dibromoethane	ND	0.71
Ethylbenzene	7.6	0.71
m,p-Xylenes	13	0.71
o-Xylene	4.2	0.71

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-125
1,2-Dichloroethane-d4	109	71-146
Toluene-d8	100	80-120
Bromofluorobenzene	92	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	228168	Location:	15101 Freedom Avenue
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2551	Analysis:	EPA 8260B
Field ID:	EX-2	Batch#:	175292
Lab ID:	228168-012	Sampled:	05/19/11
Matrix:	Water	Received:	05/20/11
Units:	ug/L	Analyzed:	05/29/11
Diln Fac:	10.00		

Analyte	Result	RL
Gasoline C7-C12	7,500	500
tert-Butyl Alcohol (TBA)	ND	100
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Ethanol	ND	10,000
MTBE	11	5.0
1,2-Dichloroethane	ND	5.0
Benzene	260	5.0
Toluene	65	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	390	5.0
m,p-Xylenes	890	5.0
o-Xylene	190	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-125
1,2-Dichloroethane-d4	105	71-146
Toluene-d8	104	80-120
Bromofluorobenzene	94	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	228168	Location:	15101 Freedom Avenue
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2551	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC593859	Batch#:	175283
Matrix:	Water	Analyzed:	05/28/11
Units:	ug/L		

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
Ethanol	ND	1,000
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-125
1,2-Dichloroethane-d4	119	71-146
Toluene-d8	103	80-120
Bromofluorobenzene	95	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	228168	Location:	15101 Freedom Avenue
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2551	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	175283
Units:	ug/L	Analyzed:	05/28/11
Diln Fac:	1.000		

Type: BS Lab ID: QC593860

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	96.90	78	45-152
Isopropyl Ether (DIPE)	25.00	19.81	79	53-138
Ethyl tert-Butyl Ether (ETBE)	25.00	20.98	84	56-130
Methyl tert-Amyl Ether (TAME)	25.00	20.74	83	63-120
MTBE	25.00	20.09	80	60-123
1,2-Dichloroethane	25.00	26.89	108	70-136
Benzene	25.00	24.06	96	80-124
Toluene	25.00	26.70	107	80-120
1,2-Dibromoethane	25.00	25.16	101	80-120
Ethylbenzene	25.00	27.36	109	80-122
m,p-Xylenes	50.00	54.52	109	80-123
o-Xylene	25.00	26.33	105	80-121

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-125
1,2-Dichloroethane-d4	111	71-146
Toluene-d8	102	80-120
Bromofluorobenzene	92	80-120

Type: BSD Lab ID: QC593861

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	103.6	83	45-152	7	32
Isopropyl Ether (DIPE)	25.00	21.73	87	53-138	9	20
Ethyl tert-Butyl Ether (ETBE)	25.00	22.98	92	56-130	9	20
Methyl tert-Amyl Ether (TAME)	25.00	22.00	88	63-120	6	20
MTBE	25.00	22.33	89	60-123	11	20
1,2-Dichloroethane	25.00	29.47	118	70-136	9	20
Benzene	25.00	25.45	102	80-124	6	20
Toluene	25.00	26.84	107	80-120	1	20
1,2-Dibromoethane	25.00	26.28	105	80-120	4	20
Ethylbenzene	25.00	27.79	111	80-122	2	20
m,p-Xylenes	50.00	53.92	108	80-123	1	20
o-Xylene	25.00	26.91	108	80-121	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-125
1,2-Dichloroethane-d4	116	71-146
Toluene-d8	99	80-120
Bromofluorobenzene	95	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	228168	Location:	15101 Freedom Avenue
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2551	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	175283
Units:	ug/L	Analyzed:	05/28/11
Diln Fac:	1.000		

Type: BS Lab ID: QC593862

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,011	101	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-125
1,2-Dichloroethane-d4	116	71-146
Toluene-d8	98	80-120
Bromofluorobenzene	104	80-120

Type: BSD Lab ID: QC593863

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,000	1,041	104	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-125
1,2-Dichloroethane-d4	113	71-146
Toluene-d8	96	80-120
Bromofluorobenzene	102	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	228168	Location:	15101 Freedom Avenue
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2551	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC593888	Batch#:	175292
Matrix:	Water	Analyzed:	05/29/11
Units:	ug/L		

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
Ethanol	ND	1,000
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-125
1,2-Dichloroethane-d4	118	71-146
Toluene-d8	100	80-120
Bromofluorobenzene	98	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	228168	Location:	15101 Freedom Avenue
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2551	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	175292
Units:	ug/L	Analyzed:	05/29/11
Diln Fac:	1.000		

Type: BS Lab ID: QC593889

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	75.81	76	45-152
Isopropyl Ether (DIPE)	20.00	16.96	85	53-138
Ethyl tert-Butyl Ether (ETBE)	20.00	16.99	85	56-130
Methyl tert-Amyl Ether (TAME)	20.00	16.70	83	63-120
MTBE	20.00	16.32	82	60-123
1,2-Dichloroethane	20.00	22.17	111	70-136
Benzene	20.00	19.47	97	80-124
Toluene	20.00	20.89	104	80-120
1,2-Dibromoethane	20.00	18.21	91	80-120
Ethylbenzene	20.00	21.66	108	80-122
m,p-Xylenes	40.00	42.71	107	80-123
o-Xylene	20.00	20.92	105	80-121

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-125
1,2-Dichloroethane-d4	116	71-146
Toluene-d8	104	80-120
Bromofluorobenzene	93	80-120

Type: BSD Lab ID: QC593890

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	79.97	80	45-152	5	32
Isopropyl Ether (DIPE)	20.00	15.89	79	53-138	6	20
Ethyl tert-Butyl Ether (ETBE)	20.00	16.99	85	56-130	0	20
Methyl tert-Amyl Ether (TAME)	20.00	17.25	86	63-120	3	20
MTBE	20.00	16.20	81	60-123	1	20
1,2-Dichloroethane	20.00	21.50	107	70-136	3	20
Benzene	20.00	19.10	96	80-124	2	20
Toluene	20.00	19.09	95	80-120	9	20
1,2-Dibromoethane	20.00	17.72	89	80-120	3	20
Ethylbenzene	20.00	20.74	104	80-122	4	20
m,p-Xylenes	40.00	41.11	103	80-123	4	20
o-Xylene	20.00	19.90	100	80-121	5	20

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-125
1,2-Dichloroethane-d4	118	71-146
Toluene-d8	99	80-120
Bromofluorobenzene	95	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	228168	Location:	15101 Freedom Avenue
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2551	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	175292
Units:	ug/L	Analyzed:	05/29/11
Diln Fac:	1.000		

Type: BS Lab ID: QC593891

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	800.0	883.6	110	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-125
1,2-Dichloroethane-d4	116	71-146
Toluene-d8	101	80-120
Bromofluorobenzene	95	80-120

Type: BSD Lab ID: QC593892

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	800.0	837.0	105	80-120	5	20

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-125
1,2-Dichloroethane-d4	113	71-146
Toluene-d8	103	80-120
Bromofluorobenzene	93	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	228168	Location:	15101 Freedom Avenue
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2551	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	175292
MSS Lab ID:	228003-009	Sampled:	05/16/11
Matrix:	Water	Received:	05/16/11
Units:	ug/L	Analyzed:	05/29/11
Diln Fac:	1.000		

Type: MS Lab ID: QC593910

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<2.239	125.0	107.6	86	58-145
Isopropyl Ether (DIPE)	0.5737	25.00	20.64	80	67-126
Ethyl tert-Butyl Ether (ETBE)	<0.1000	25.00	21.12	84	68-120
Methyl tert-Amyl Ether (TAME)	<0.1002	25.00	20.96	84	71-120
MTBE	6.273	25.00	27.46	85	68-120
1,2-Dichloroethane	<0.1071	25.00	26.10	104	80-132
Benzene	<0.1000	25.00	24.16	97	80-121
Toluene	<0.1000	25.00	25.20	101	80-120
1,2-Dibromoethane	<0.1341	25.00	24.37	97	80-120
Ethylbenzene	<0.1000	25.00	25.55	102	80-120
m,p-Xylenes	<0.1454	50.00	53.56	107	80-120
o-Xylene	<0.1000	25.00	25.54	102	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-125
1,2-Dichloroethane-d4	107	71-146
Toluene-d8	103	80-120
Bromofluorobenzene	94	80-120

Type: MSD Lab ID: QC593911

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	115.8	93	58-145	7	29
Isopropyl Ether (DIPE)	25.00	19.45	75	67-126	6	20
Ethyl tert-Butyl Ether (ETBE)	25.00	20.97	84	68-120	1	20
Methyl tert-Amyl Ether (TAME)	25.00	20.96	84	71-120	0	20
MTBE	25.00	26.89	82	68-120	2	20
1,2-Dichloroethane	25.00	25.28	101	80-132	3	20
Benzene	25.00	23.38	94	80-121	3	20
Toluene	25.00	25.28	101	80-120	0	20
1,2-Dibromoethane	25.00	24.39	98	80-120	0	20
Ethylbenzene	25.00	26.11	104	80-120	2	20
m,p-Xylenes	50.00	50.46	101	80-120	6	20
o-Xylene	25.00	23.97	96	80-120	6	20

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-125
1,2-Dichloroethane-d4	107	71-146
Toluene-d8	97	80-120
Bromofluorobenzene	95	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	228168	Location:	15101 Freedom Avenue
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2551	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	175417
Units:	ug/L	Analyzed:	06/02/11
Diln Fac:	1.000		

Type: BS Lab ID: QC594443

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	111.4	89	45-152
Isopropyl Ether (DIPE)	25.00	26.85	107	53-138
Ethyl tert-Butyl Ether (ETBE)	25.00	31.08	124	56-130
Methyl tert-Amyl Ether (TAME)	25.00	28.55	114	63-120
MTBE	25.00	29.79	119	60-123
1,2-Dichloroethane	25.00	26.95	108	70-136
Benzene	25.00	28.46	114	80-124
Toluene	25.00	25.91	104	80-120
1,2-Dibromoethane	25.00	24.68	99	80-120
Ethylbenzene	25.00	27.23	109	80-122
m,p-Xylenes	50.00	54.15	108	80-123
o-Xylene	25.00	27.62	110	80-121

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-125
1,2-Dichloroethane-d4	89	71-146
Toluene-d8	85	80-120
Bromofluorobenzene	90	80-120

Type: BSD Lab ID: QC594444

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	119.3	95	45-152	7	32
Isopropyl Ether (DIPE)	25.00	26.82	107	53-138	0	20
Ethyl tert-Butyl Ether (ETBE)	25.00	30.31	121	56-130	2	20
Methyl tert-Amyl Ether (TAME)	25.00	28.91	116	63-120	1	20
MTBE	25.00	28.57	114	60-123	4	20
1,2-Dichloroethane	25.00	27.27	109	70-136	1	20
Benzene	25.00	29.09	116	80-124	2	20
Toluene	25.00	27.13	109	80-120	5	20
1,2-Dibromoethane	25.00	24.83	99	80-120	1	20
Ethylbenzene	25.00	28.00	112	80-122	3	20
m,p-Xylenes	50.00	57.61	115	80-123	6	20
o-Xylene	25.00	29.21	117	80-121	6	20

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-125
1,2-Dichloroethane-d4	90	71-146
Toluene-d8	87	80-120
Bromofluorobenzene	89	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	228168	Location:	15101 Freedom Avenue
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2551	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC594445	Batch#:	175417
Matrix:	Water	Analyzed:	06/02/11
Units:	ug/L		

Analyte	Result	RL
Gasoline C7-C12	NA	
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
Ethanol	ND	1,000
MTBE	ND	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-125
1,2-Dichloroethane-d4	91	71-146
Toluene-d8	86	80-120
Bromofluorobenzene	94	80-120

NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

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Operator: VOC

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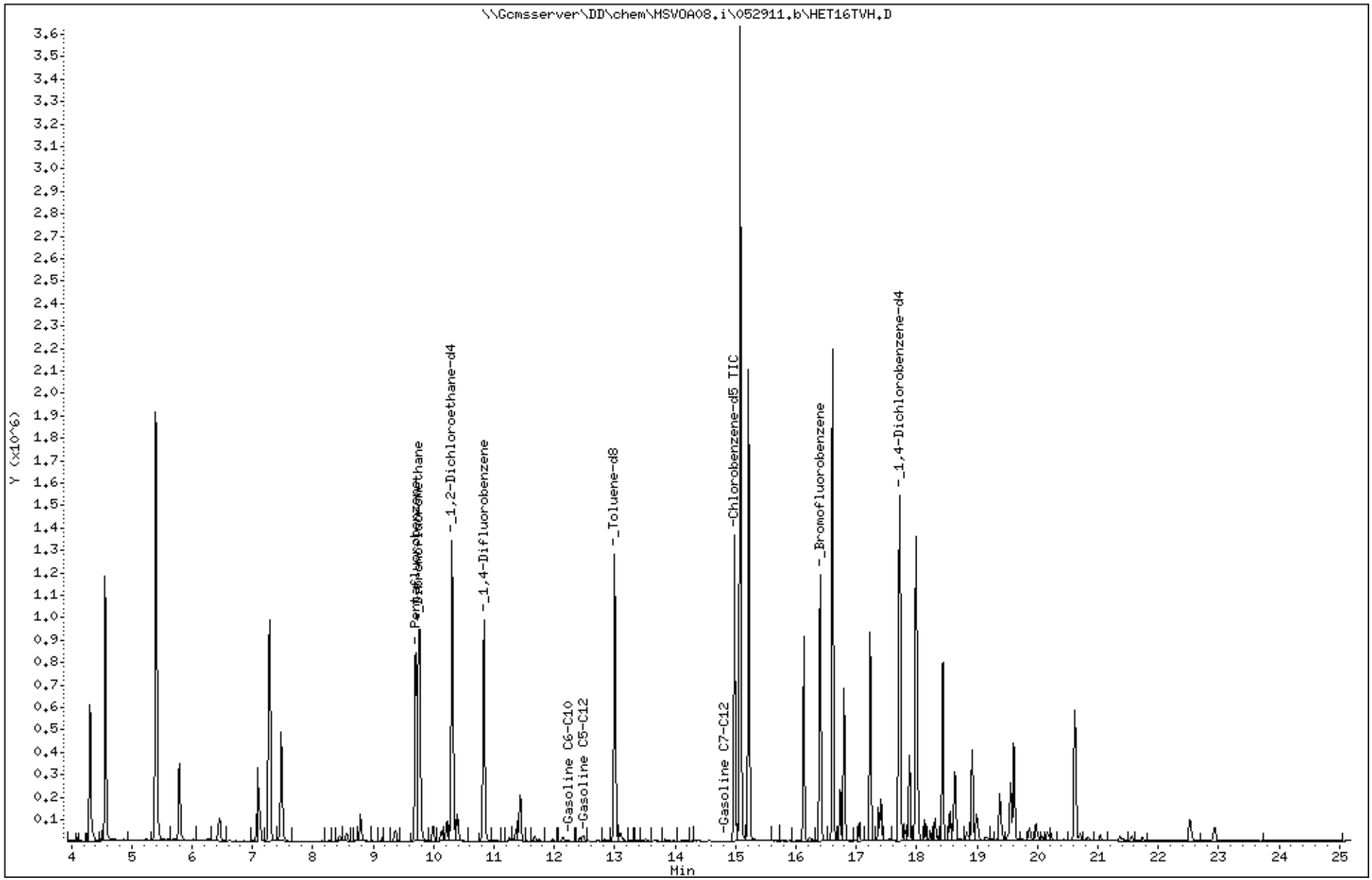

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Operator: VOC

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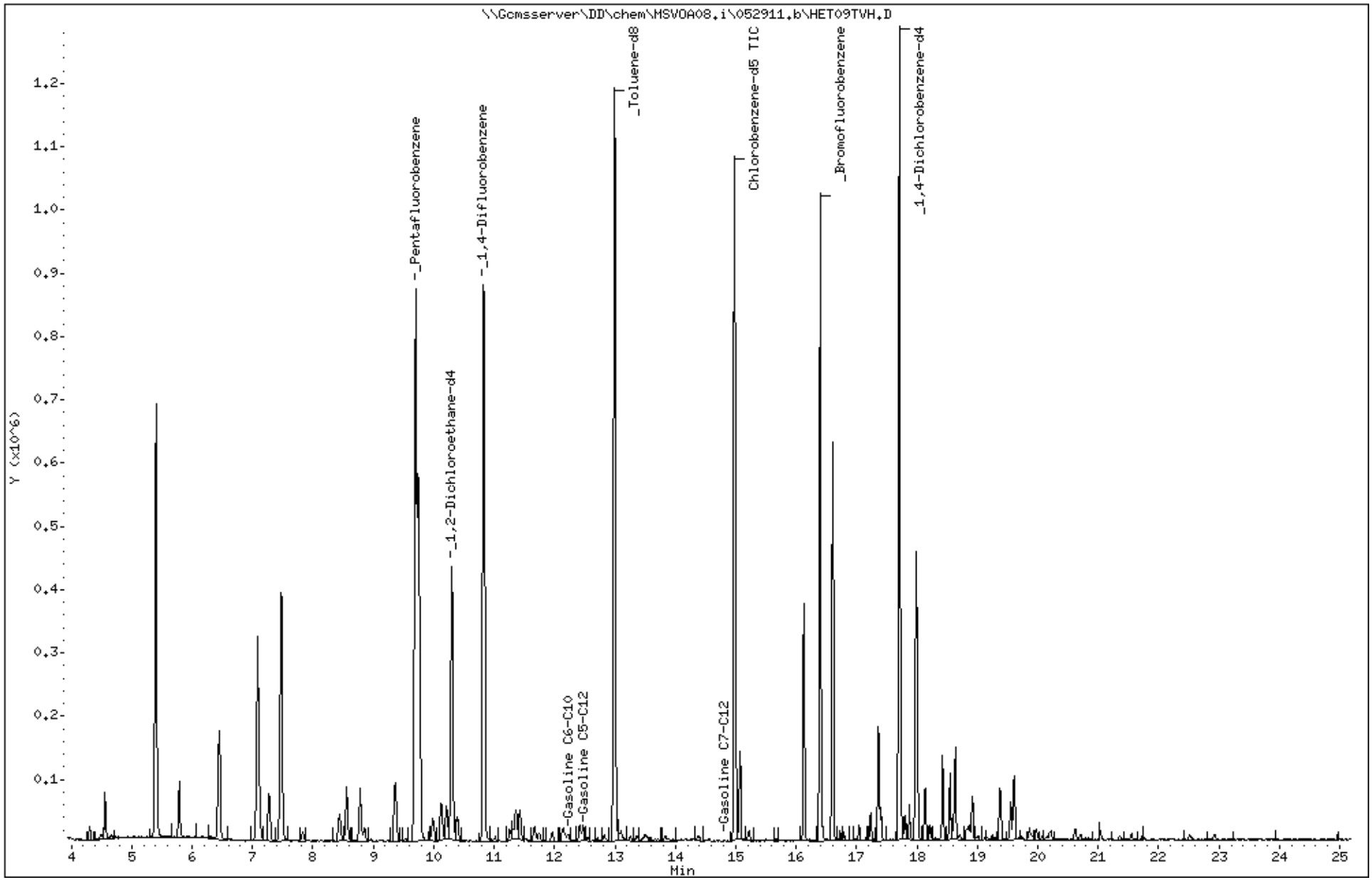

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Operator: VOC

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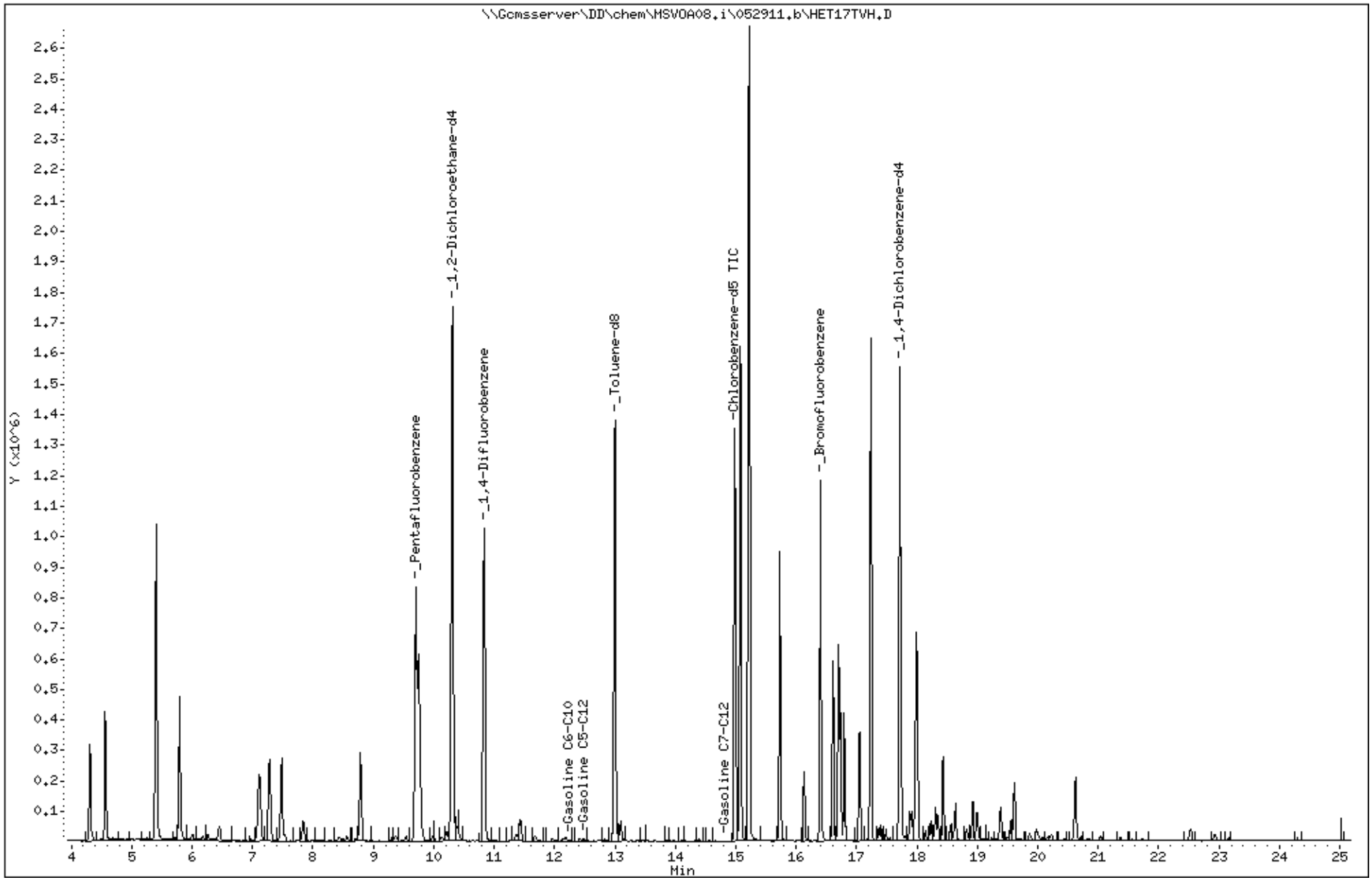

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Instrument: MSVOA08.i

Sample Info: S,228168-004

Operator: VOC

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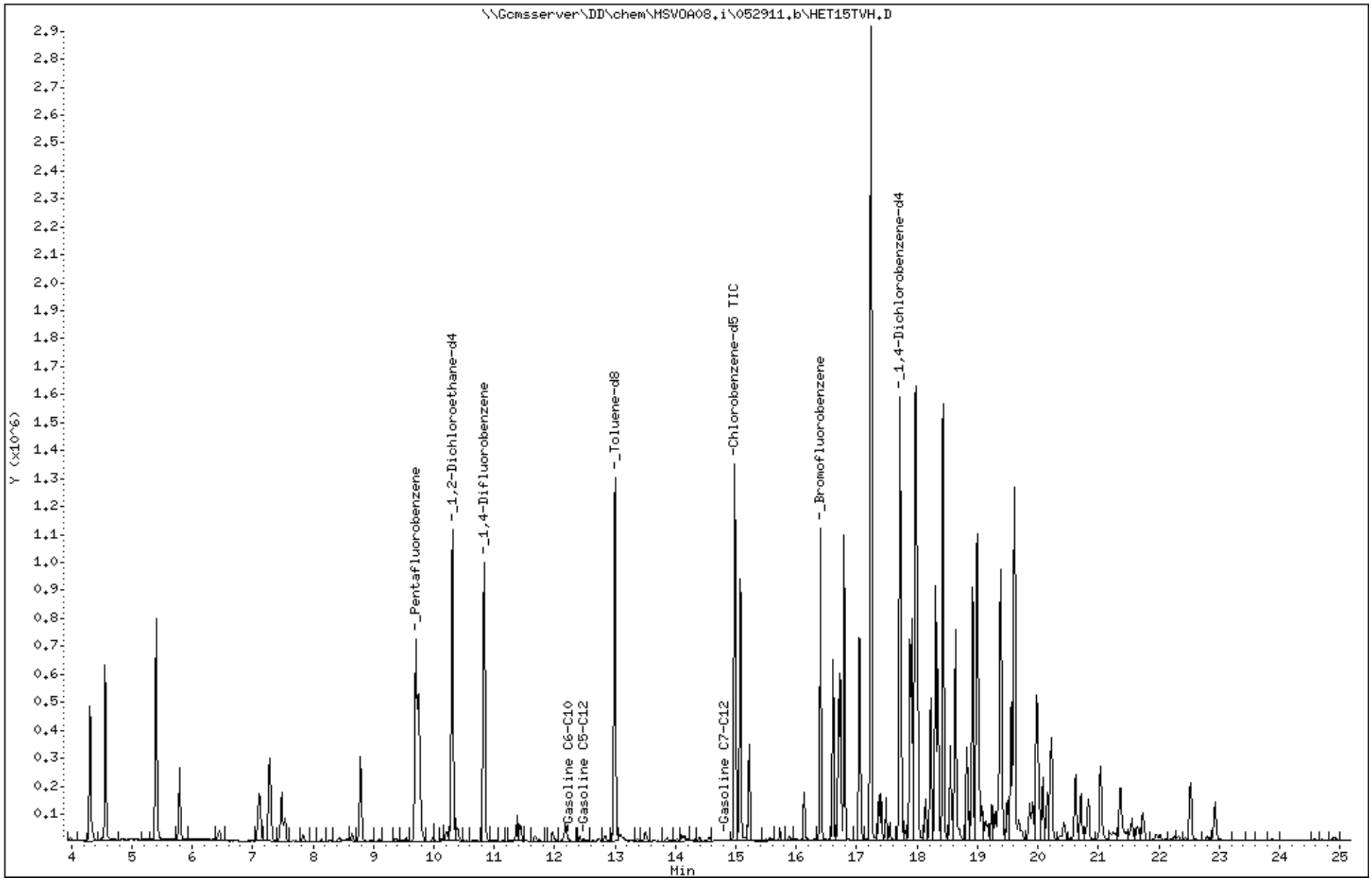

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Sample Info: S,228168-005

Operator: VOC

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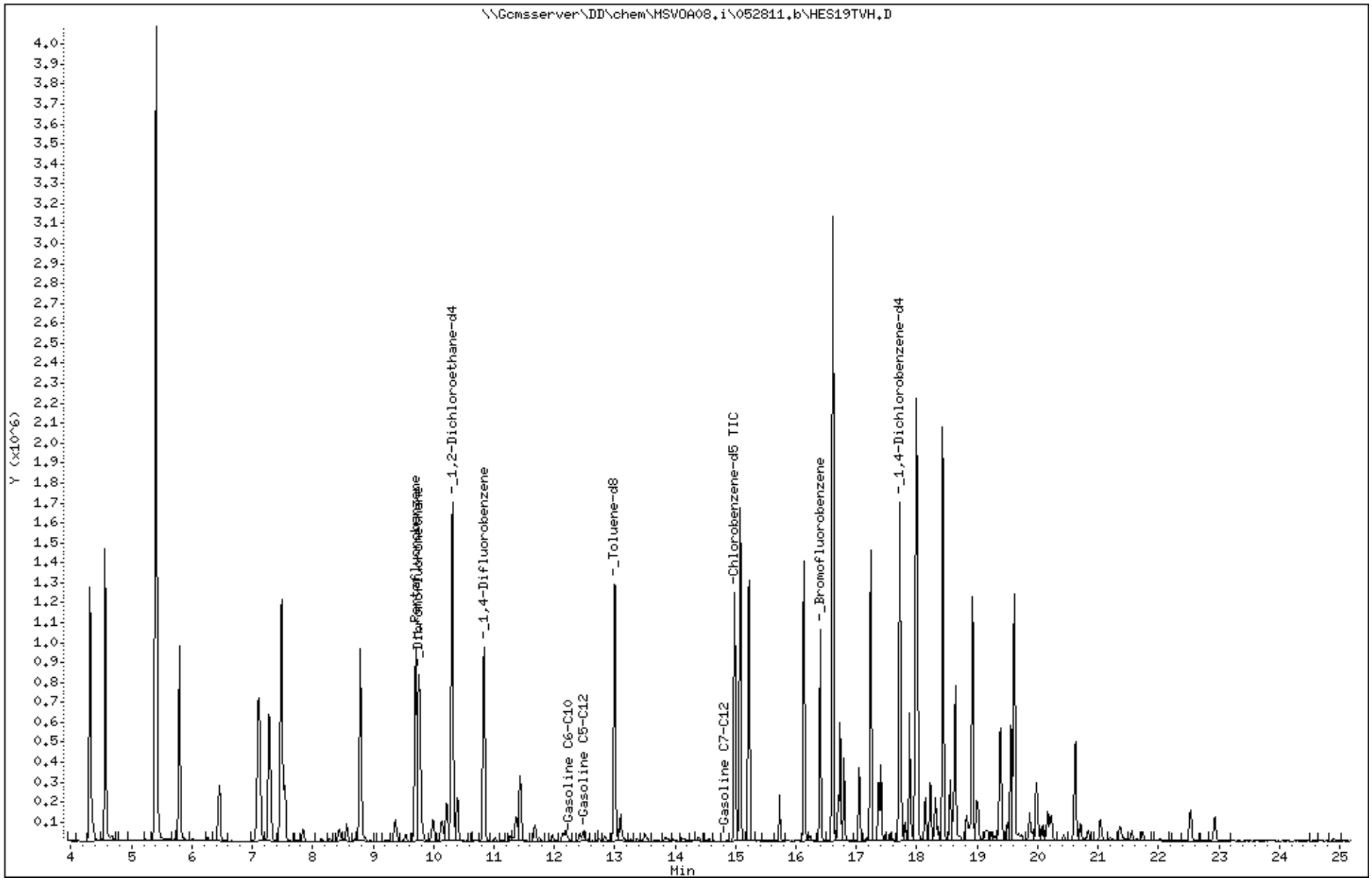

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Date : 29-MAY-2011 00:53

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Sample Info: S,228168-006

Operator: VOC

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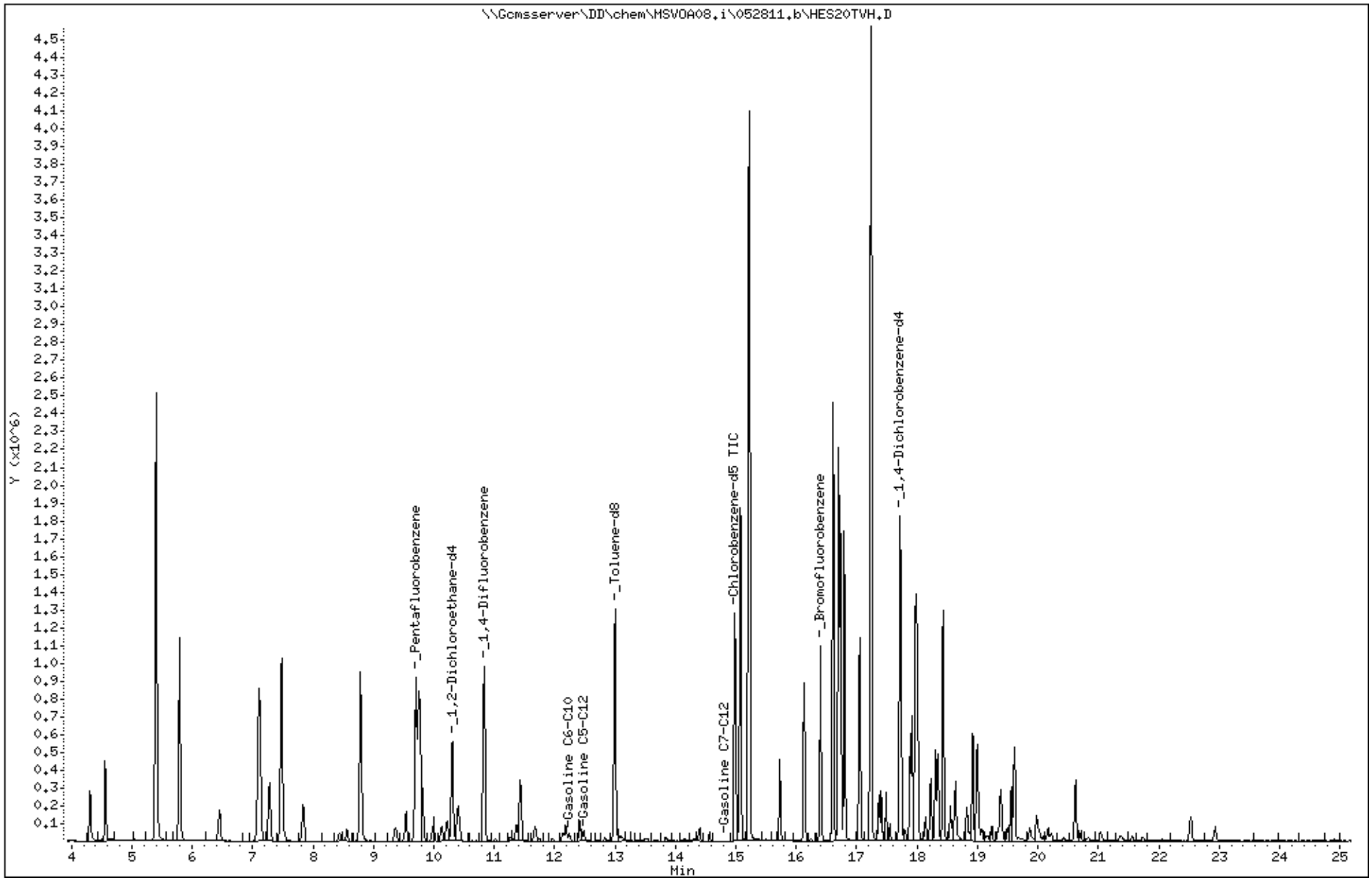
Column diameter: 2.00



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Instrument: MSVOA08.i

Sample Info: S,228168-007

Operator: VOC

Column phase:

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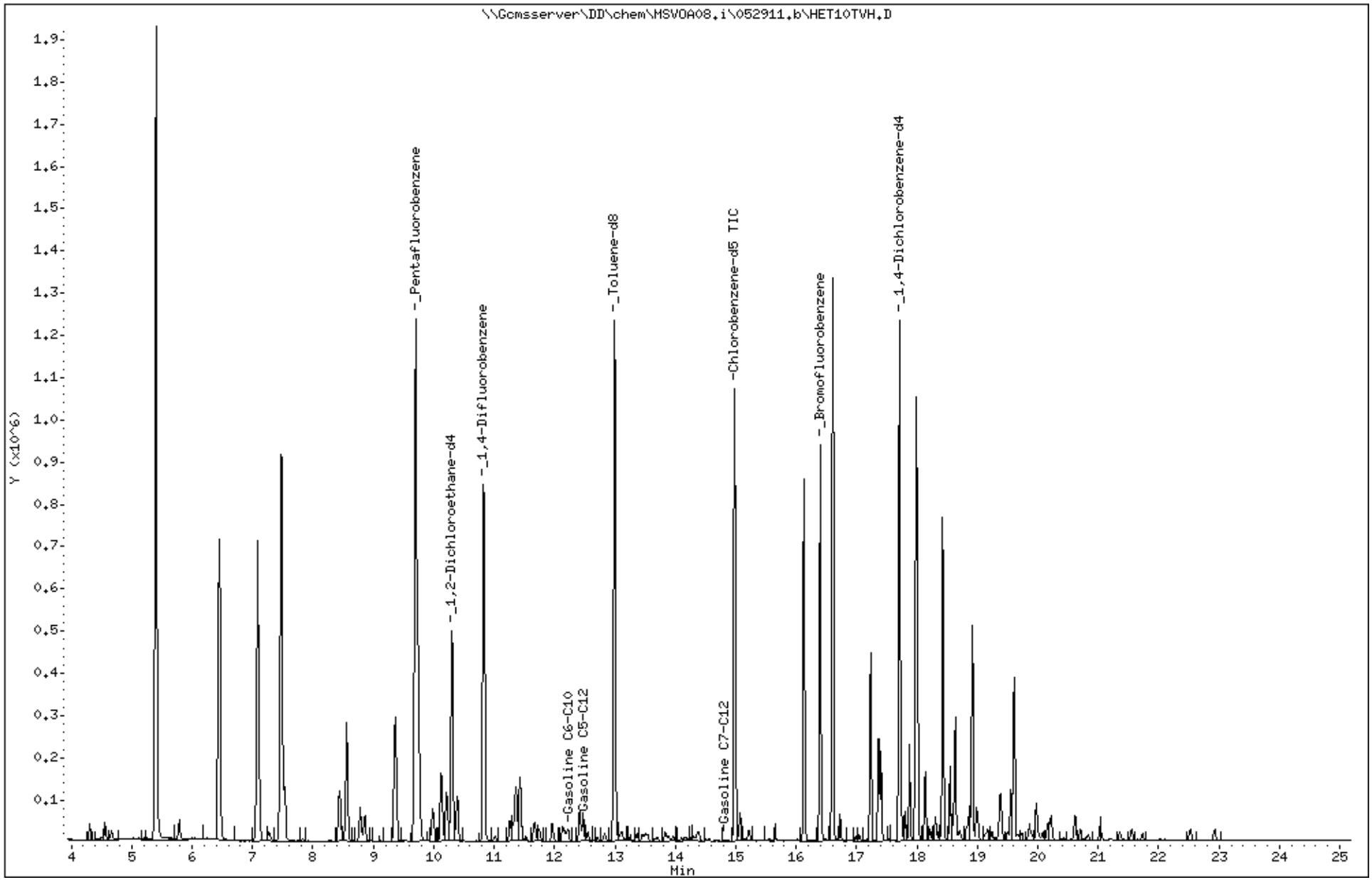

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Operator: VOC

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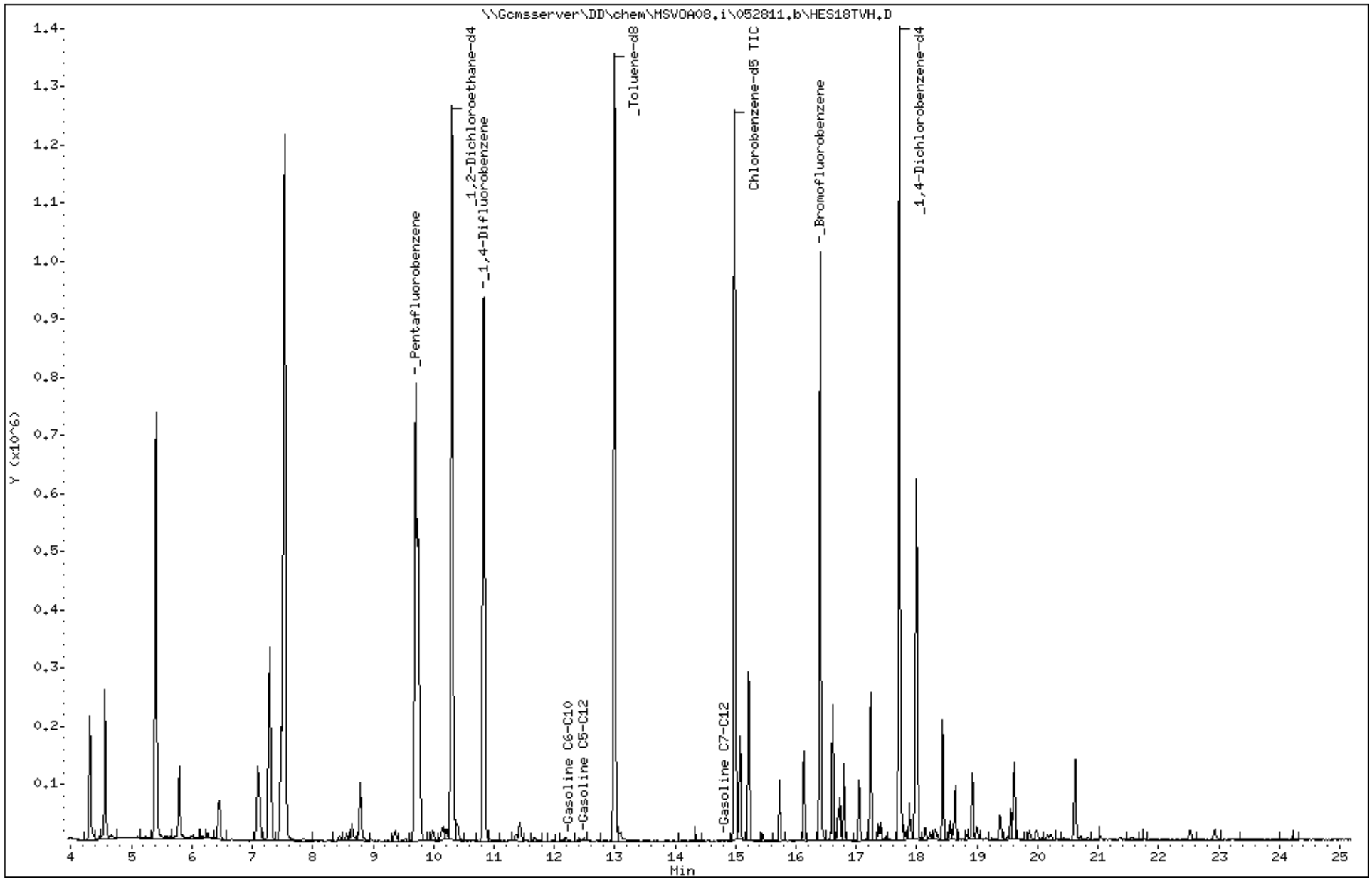

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Client ID: DYNA P&T

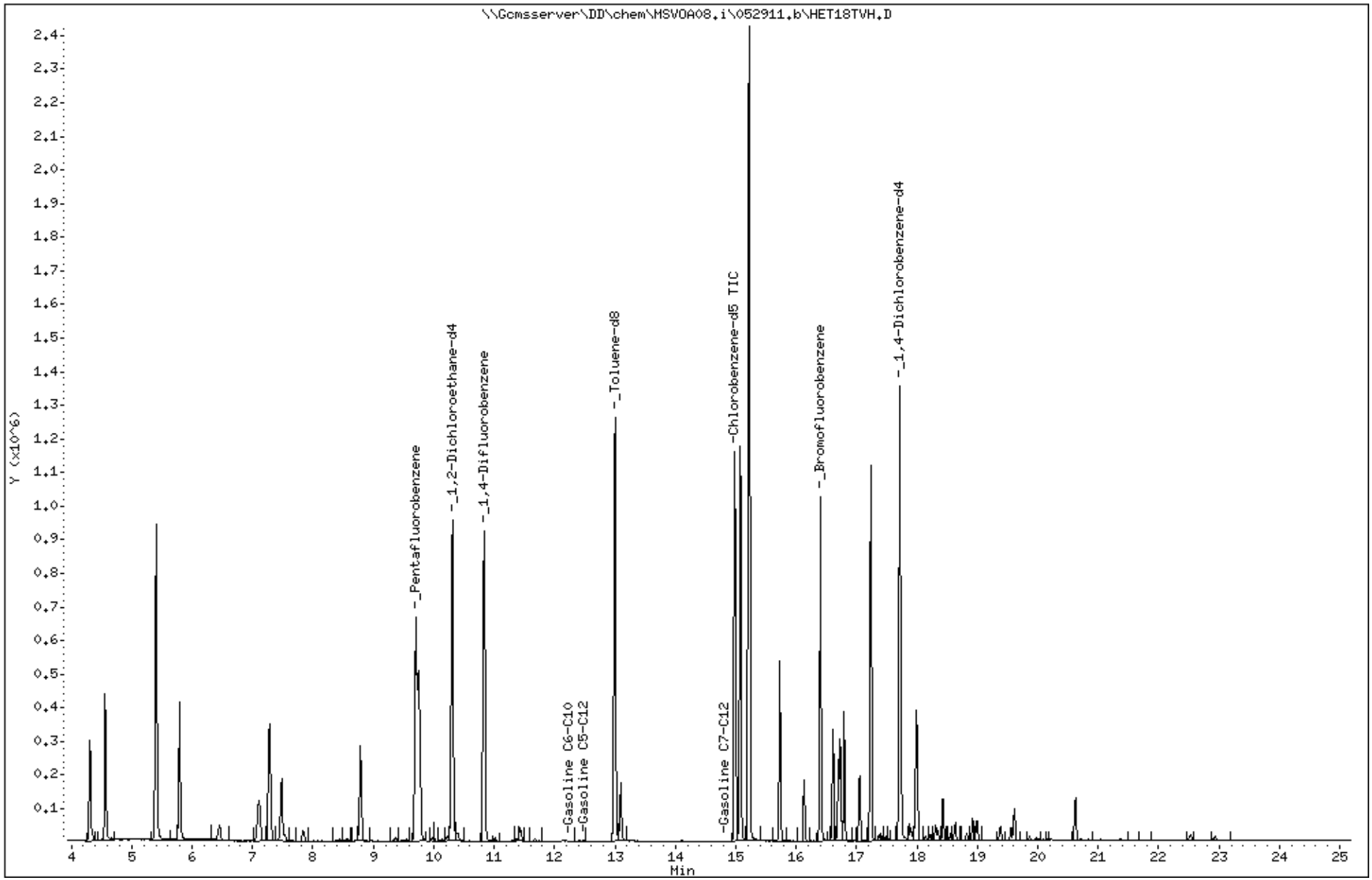
Instrument: MSVOA08.i

Sample Info: S,228168-012

Operator: VOC

Column phase:

Column diameter: 2.00



Data File: \\Gcmsserver\DD\chem\MSVOA08.i\052811.b\HES05TVH.D

Date : 28-MAY-2011 15:21

Client ID: DYNA P&T

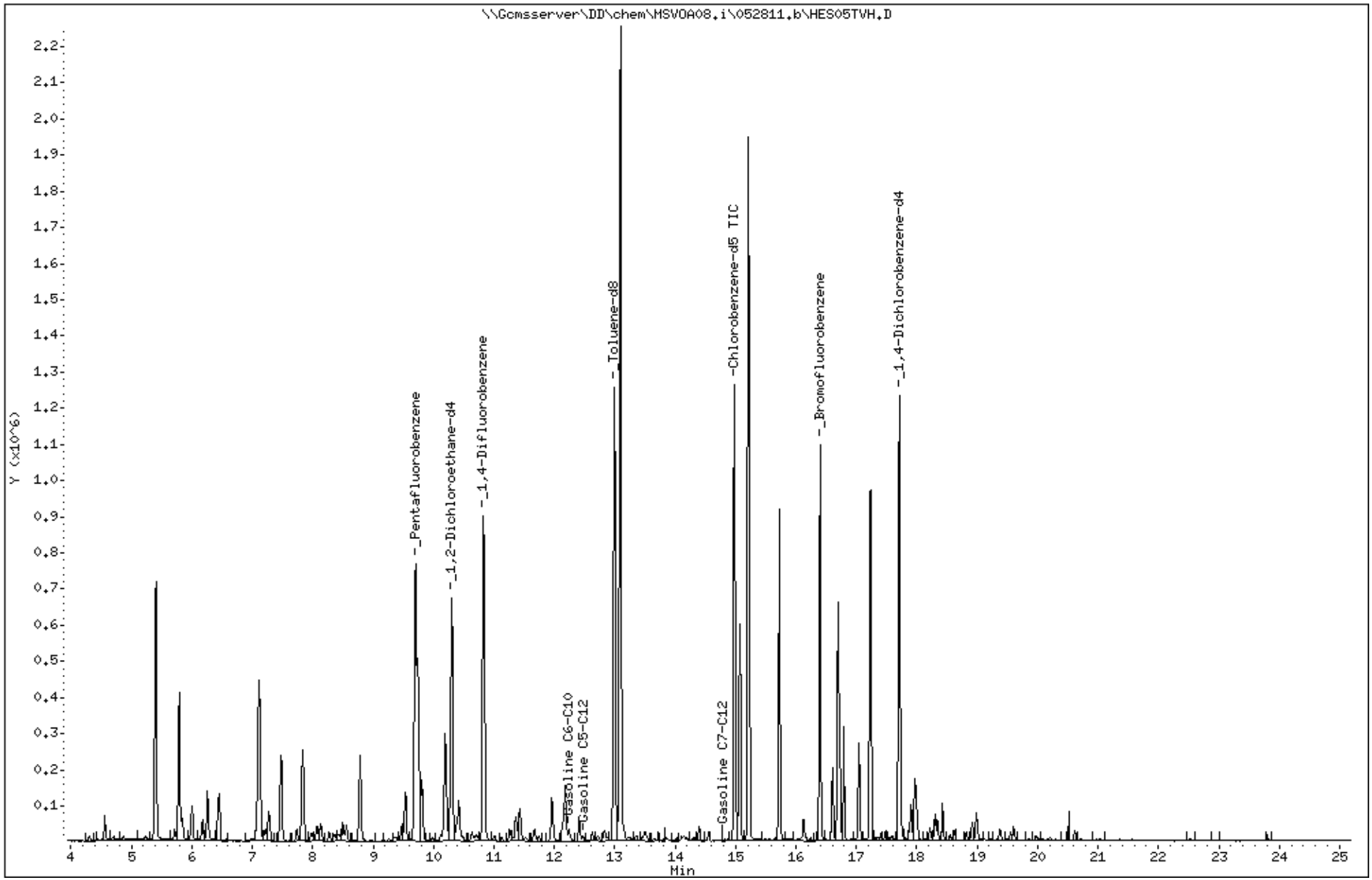
Instrument: MSVOA08.i

Sample Info: CCV/BS,QC593862,175283,S17254,.01/100

Operator: VOC

Column phase:

Column diameter: 2.00



Appendix D

Laboratory Report and Chain of Custody Form for the Treatment System

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 227164
ANALYTICAL REPORT

SOMA Environmental Engineering Inc.	Project : 2553
6620 Owens Dr.	Location : 15101 Freedom Ave. San Leandro
Pleasanton, CA 94588	Level : II

Sample ID	Lab ID
EFFLUENT	227164-001
GAC-1	227164-002
INFLUENT	227164-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 04/18/2011
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**227164**
Client:	**SOMA Environmental Engineering Inc.**
Project:	**2553**
Location:	**15101 Freedom Ave. San Leandro**
Request Date:	**04/11/11**
Samples Received:	**04/11/11**

This data package contains sample and QC results for three water samples, requested for the above referenced project on 04/11/11. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Total Suspended Solids (TSS) (SM2540D):
No analytical problems were encountered.

pH (EPA 9040C):
No analytical problems were encountered.

Chemical Oxygen Demand (SM5220D):
No analytical problems were encountered.

CHAIN OF CUSTODY

Curtis & Tompkins, Ltd
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

LOGIN # 227164

Sampler: MASOUD-SEPEHR

Project No: 2553

Report To: Joyce Bobek

Project Name: 15101 Freedom Ave, San Leandr

Company : SOMA Environmental

Turnaround Time: Standard

Telephone: 925-734-6400

Fax: 925-734-6401

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Water	Waste	# of Containers	Preservative: HCL	H_2SO_4	HNO_3	ICE	Analyses: TPH-g 8015	TPH-d, TPH-mo 8015	BTEX 8020	COD	pH, TSS
1	EFFLUENT	4/11/11 — 10.45		*		6 VOAs	*			*	*		*		
				*		2-500mL Amber				*		*			
				*		250 mL Poly		*		*				*	
				*		500 mL Poly				*					*
2	GAC-1	4/11/11 — 11		*		6 VOAs	*			*	*		*		
3	INFLUENT			*		6 VOAs	*			*	*		*		

Notes: **EDF OUTPUT REQUIRED**

4/11/11
On ice PG

RELINQUISHED BY:	RECEIVED BY:
4,11,11 — 12.35 DATE/TIME	4/11/11 12:05 DATE/TIME
DATE/TIME	DATE/TIME
DATE/TIME	DATE/TIME

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 227164 Date Received 4/11/11 Number of coolers 1
Client SOMA Environmental Project 15101 Freedom Ave

Date Opened 4/11/11 By (print) R. Paris (sign)
Date Logged in 4/11/11 By (print) M. VILLANUEVA (sign)

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☒ Foam blocks ☐ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) _____

☐ Samples Received on ice & cold without a temperature blank

☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
11. Are sample labels present, in good condition and complete? _____ (YES) NO
12. Do the sample labels agree with custody papers? _____ (YES) NO
13. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
14. Are the samples appropriately preserved? _____ (YES) NO N/A
15. Did you check preservatives for all bottles for each sample? _____ (YES) NO N/A
16. Did you document your preservative check _____ (YES) NO N/A
17. Are bubbles > 6mm absent in VOA samples? _____ (YES) NO N/A
18. Was the client contacted concerning this sample delivery? _____ YES (NO)
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____

_____

_____

_____

_____

_____

_____

_____

Curtis & Tompkins Sample Preservation for 227164

Sample	pH: <2	>12	Other
-001a	[ ]	[ ]	_____
b	[ ]	[ ]	_____
c	[ ]	[ ]	_____
d	[ ]	[ ]	_____
e	[ ]	[ ]	_____
f	[ ]	[ ]	_____
g	[ ]	[ ]	_____
h	[✓]	[ ]	_____
i	[ ]	[ ]	_____
j	[ ]	[ ]	_____

Analyst: KN
Date: 4/11/11

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	227164	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2553		
Matrix:	Water	Sampled:	04/11/11
Units:	ug/L	Received:	04/11/11
Diln Fac:	1.000		

Field ID: EFFLUENT
Type: SAMPLE
Lab ID: 227164-001

Analyte	Result	RL	Batch#	Analyzed	Analysis
Gasoline C7-C12	ND	50	173753	04/14/11	EPA 8015B
Benzene	ND	0.50	173656	04/12/11	EPA 8021B
Toluene	ND	0.50	173656	04/12/11	EPA 8021B
Ethylbenzene	ND	0.50	173656	04/12/11	EPA 8021B
m,p-Xylenes	ND	0.50	173656	04/12/11	EPA 8021B
o-Xylene	ND	0.50	173656	04/12/11	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analyzed	Analysis
Bromofluorobenzene (FID)	105	75-130	173753	04/14/11	EPA 8015B
Bromofluorobenzene (PID)	97	58-121	173656	04/12/11	EPA 8021B

Field ID: GAC-1
Type: SAMPLE
Lab ID: 227164-002

Analyte	Result	RL	Batch#	Analyzed	Analysis
Gasoline C7-C12	ND	50	173753	04/14/11	EPA 8015B
Benzene	ND	0.50	173656	04/12/11	EPA 8021B
Toluene	ND	0.50	173656	04/12/11	EPA 8021B
Ethylbenzene	ND	0.50	173656	04/12/11	EPA 8021B
m,p-Xylenes	ND	0.50	173656	04/12/11	EPA 8021B
o-Xylene	ND	0.50	173656	04/12/11	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analyzed	Analysis
Bromofluorobenzene (FID)	106	75-130	173753	04/14/11	EPA 8015B
Bromofluorobenzene (PID)	95	58-121	173656	04/12/11	EPA 8021B

Field ID: INFLUENT
Type: SAMPLE
Lab ID: 227164-003

Analyte	Result	RL	Batch#	Analyzed	Analysis
Gasoline C7-C12	1,200	50	173753	04/14/11	EPA 8015B
Benzene	41	0.50	173656	04/12/11	EPA 8021B
Toluene	3.3	0.50	173656	04/12/11	EPA 8021B
Ethylbenzene	23	0.50	173656	04/12/11	EPA 8021B
m,p-Xylenes	140	0.50	173656	04/12/11	EPA 8021B
o-Xylene	45	0.50	173656	04/12/11	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analyzed	Analysis
Bromofluorobenzene (FID)	108	75-130	173753	04/14/11	EPA 8015B
Bromofluorobenzene (PID)	102	58-121	173656	04/12/11	EPA 8021B

NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	227164	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2553		
Matrix:	Water	Sampled:	04/11/11
Units:	ug/L	Received:	04/11/11
Diln Fac:	1.000		

Type:	BLANK	Batch#:	173656
Lab ID:	QC587224	Analyzed:	04/12/11

Analyte	Result	RL	Analysis
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	92	75-130	EPA 8015B
Bromofluorobenzene (PID)	84	58-121	EPA 8021B

Type:	BLANK	Analyzed:	04/14/11
Lab ID:	QC587629	Analysis:	EPA 8015B
Batch#:	173753		

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	Result	%REC	Limits
Bromofluorobenzene (FID)		99	75-130
Bromofluorobenzene (PID)	NA		

NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	227164	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2553		
Matrix:	Water	Batch#:	173656
Units:	ug/L	Analyzed:	04/12/11
Diln Fac:	1.000		

Type: BS Lab ID: QC587228

Analyte	Spiked	Result	%REC	Limits	Analysis
Benzene	10.00	9.259	93	74-121	EPA 8021B
Toluene	10.00	9.359	94	75-122	EPA 8021B
Ethylbenzene	10.00	10.31	103	75-122	EPA 8021B
m,p-Xylenes	10.00	10.05	100	76-123	EPA 8021B
o-Xylene	10.00	10.10	101	73-127	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	95	75-130	EPA 8015B
Bromofluorobenzene (PID)	88	58-121	EPA 8021B

Type: BSD Lab ID: QC587229

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analysis
Benzene	10.00	8.741	87	74-121	6	29	EPA 8021B
Toluene	10.00	8.597	86	75-122	8	20	EPA 8021B
Ethylbenzene	10.00	8.671	87	75-122	17	20	EPA 8021B
m,p-Xylenes	10.00	8.553	86	76-123	16	20	EPA 8021B
o-Xylene	10.00	8.393	84	73-127	18	20	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	93	75-130	EPA 8015B
Bromofluorobenzene (PID)	86	58-121	EPA 8021B

RPD= Relative Percent Difference

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	227164	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2553	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC587628	Batch#:	173753
Matrix:	Water	Analyzed:	04/14/11
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,108	111	75-126

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	75-130

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	227164	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2553	Analysis:	EPA 8015B
Field ID:	EFFLUENT	Batch#:	173753
MSS Lab ID:	227164-001	Sampled:	04/11/11
Matrix:	Water	Received:	04/11/11
Units:	ug/L	Analyzed:	04/14/11
Diln Fac:	1.000		

Type: MS Lab ID: QC587630

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	12.76	2,000	1,927	96	68-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	75-130

Type: MSD Lab ID: QC587631

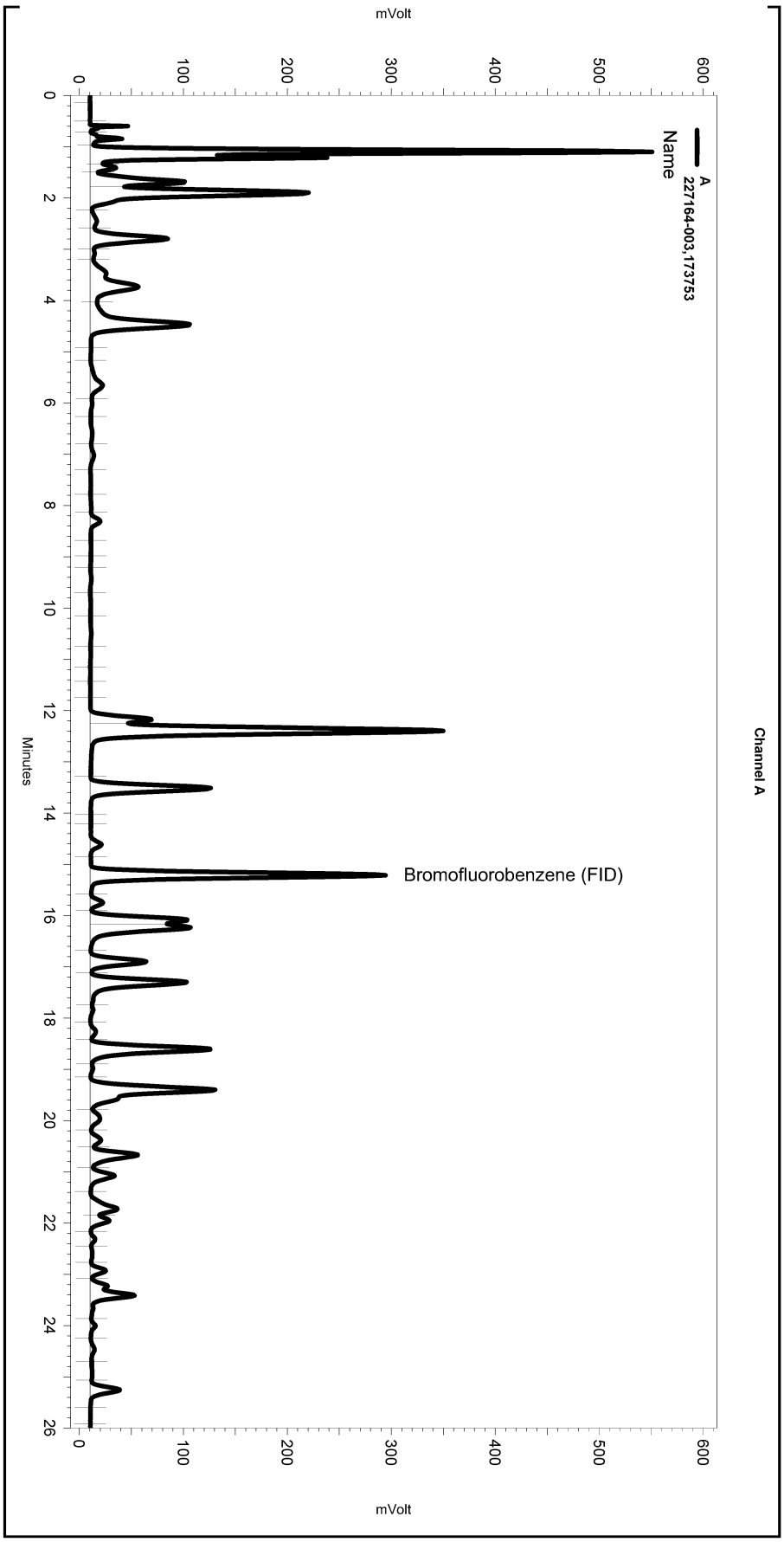
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,940	96	68-120	1	26

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	75-130

RPD= Relative Percent Difference

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\104.seq**
Sample Name: **227164-003,173753**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\104-012**
Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe103.met

Software Version 3.1.7
Run Date: 4/14/2011 9:36:12 PM
Analysis Date: 4/15/2011 11:27:18 AM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: b1.0



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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

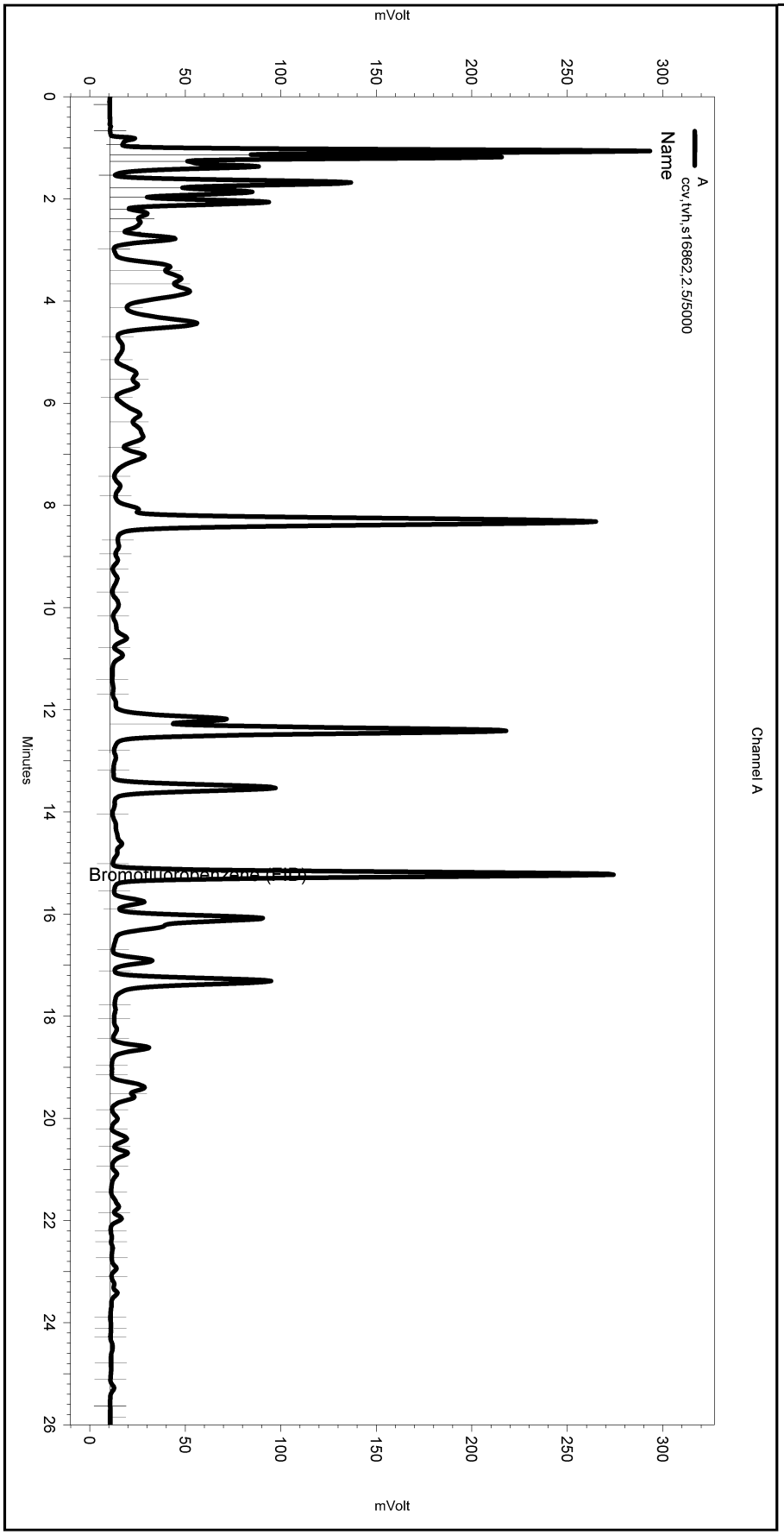
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\104-012

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC07\Sequence\104.seq**
Sample Name: **ccv,tvh,s16862,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC07\Data\104-005**
Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbtxe103.met

Software Version 3.1.7
Run Date: 4/14/2011 4:11:56 PM
Analysis Date: 4/14/2011 4:40:39 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\104-005_CA92.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value

None

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	227164	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	2553	Analysis:	EPA 8015B
Field ID:	EFFLUENT	Sampled:	04/11/11
Matrix:	Water	Received:	04/11/11
Units:	ug/L	Prepared:	04/11/11
Diln Fac:	1.000	Analyzed:	04/12/11
Batch#:	173626		

Type: SAMPLE Lab ID: 227164-001

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	113	60-129

Type: BLANK Lab ID: QC587099

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	117	60-129

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	227164	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	2553	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	173626
Units:	ug/L	Prepared:	04/11/11
Diln Fac:	1.000	Analyzed:	04/12/11

Type: BS
Lab ID: QC587100
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,424	97	53-128

Surrogate	%REC	Limits
o-Terphenyl	99	60-129

Type: BSD
Lab ID: QC587101
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,630	105	53-128	8	48

Surrogate	%REC	Limits
o-Terphenyl	108	60-129

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Chemical Oxygen Demand

Lab #:	227164	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2553	Analysis:	SM5220D
Analyte:	Chemical Oxygen Demand	Batch#:	173698
Field ID:	EFFLUENT	Sampled:	04/11/11 10:45
Matrix:	Water	Received:	04/11/11
Units:	mg/L	Prepared:	04/13/11 12:30
Diln Fac:	1.000	Analyzed:	04/13/11 14:30

Type	Lab ID	Result	RL
SAMPLE	227164-001	ND	10
BLANK	QC587404	ND	10

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chemical Oxygen Demand

Lab #:	227164	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2553	Analysis:	SM5220D
Analyte:	Chemical Oxygen Demand	Batch#:	173698
Field ID:	ZZZZZZZZZZ	Sampled:	04/11/11 10:00
MSS Lab ID:	227163-001	Received:	04/11/11
Matrix:	Water	Prepared:	04/13/11 12:30
Units:	mg/L	Analyzed:	04/13/11 14:30
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC587405		75.00	76.84	102	90-110		
MS	QC587406	<10.00	150.0	149.9	100	65-131		
MSD	QC587407		150.0	145.2	97	65-131	3	20

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

pH

Lab #:	227164	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2553	Analysis:	EPA 9040C
Analyte:	pH	Diln Fac:	1.000
Field ID:	EFFLUENT	Batch#:	173624
Lab ID:	227164-001	Sampled:	04/11/11 10:45
Matrix:	Water	Received:	04/11/11
Units:	SU	Analyzed:	04/11/11 17:45

Result	RL
6.5	1.0

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

pH

Lab #:	227164	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2553	Analysis:	EPA 9040C
Analyte:	pH	Units:	SU
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	173624
MSS Lab ID:	227163-001	Sampled:	04/11/11 10:00
Lab ID:	QC587094	Received:	04/11/11
Matrix:	Water	Analyzed:	04/11/11 17:45

MSS Result	Result	RL	RPD	Lim
7.030	7.020	1.000	0	20

RL= Reporting Limit
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Suspended Solids (TSS)

Lab #:	227164	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2553	Analysis:	SM2540D
Analyte:	Total Suspended Solids	Batch#:	173692
Field ID:	EFFLUENT	Sampled:	04/11/11
Matrix:	Water	Received:	04/11/11
Units:	mg/L	Analyzed:	04/13/11
Diln Fac:	1.000		

Type	Lab ID	Result	RL
SAMPLE	227164-001	6	5
BLANK	QC587376	ND	5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Suspended Solids (TSS)

Lab #:	227164	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2553	Analysis:	SM2540D
Analyte:	Total Suspended Solids	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	173692
MSS Lab ID:	227115-001	Sampled:	04/07/11
Matrix:	Water	Received:	04/07/11
Units:	mg/L	Analyzed:	04/13/11

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC587377		50.00	49.00	98	80-120		
BSD	QC587378		50.00	50.00	100	80-120	2	5
MS	QC587379	23.00	50.00	71.00	96	58-126		
MSD	QC587461		50.00	69.00	92	58-126	3	5

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 227847
ANALYTICAL REPORT

SOMA Environmental Engineering Inc.	Project : 2553
6620 Owens Dr.	Location : 15101 Freedom Ave. San Leandro
Pleasanton, CA 94588	Level : II

Sample ID	Lab ID
EFFLUENT	227847-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 05/16/2011
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**227847**
Client:	**SOMA Environmental Engineering Inc.**
Project:	**2553**
Location:	**15101 Freedom Ave. San Leandro**
Request Date:	**05/10/11**
Samples Received:	**05/10/11**

This data package contains sample and QC results for one water sample, requested for the above referenced project on 05/10/11. The sample was received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Total Suspended Solids (TSS) (SM2540D):
No analytical problems were encountered.

pH (EPA 9040C):
No analytical problems were encountered.

Chemical Oxygen Demand (SM5220D):
No analytical problems were encountered.

CHAIN OF CUSTODY

Curtis & Tompkins, Ltd
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

LOGIN # 227847

Sampler: MASOUD – Sepehr

Project No: 2553

Report To: Joyce Bobek

Project Name: 15101 Freedom Ave, San Leandr

Company : SOMA Environmental

Turnaround Time: Standard

Telephone: 925-734-6400

Fax: 925-734-6401

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Water	Waste	# of Containers	Preservative: HCL	H_2SO_4	HNO_3	ICE
	Effluent	5/10/11 – 11		*		6 VOAs	*			*
		↓		*		2-500 mL Ambers				*
				*		250 mL Poly		*		*
				*		500 mL Poly				*

Analyses

TPH-g, TPH-d, TPH-mo 8015 → TVH / BTXE – EPA	BTEX 8020	COD	pH, TSS
*	*		
*			
		*	
			*

Notes: EDF OUTPUT REQUIRED

RELINQUISHED BY:	RECEIVED BY:
5/10/11 11:50 DATE/TIME	5/10/11 11:50 DATE/TIME
DATE/TIME	DATE/TIME
DATE/TIME	DATE/TIME

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 227847 Date Received 5/10/11 Number of coolers 1
Client SOMA Environmental Project ~~2553~~ 15101 Freedom Ave, San Leandro

Date Opened 5/10/11 By (print) Vidia Qureshi (sign) [signature]
Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____
2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☒ Foam blocks ☐ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 18.2

☐ Samples Received on ice & cold without a temperature blank

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
11. Are sample labels present, in good condition and complete? _____ (YES) NO
12. Do the sample labels agree with custody papers? _____ (YES) NO
13. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
14. Are the samples appropriately preserved? _____ (YES) NO N/A
15. Did you check preservatives for all bottles for each sample? _____ (YES) NO N/A
16. Did you document your preservative check _____ (YES) NO N/A
17. Are bubbles > 6mm absent in VOA samples? _____ (YES) NO N/A
18. Was the client contacted concerning this sample delivery? _____ YES (NO)
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____
_____
_____
_____
_____
_____
_____
_____

Curtis & Tompkins Sample Preservation for 227847

Sample	pH: <2	>12	Other
-001a	[ ]	[ ]	_____
b	[ ]	[ ]	_____
c	[ ]	[ ]	_____
d	[ ]	[ ]	_____
e	[ ]	[ ]	_____
f	[ ]	[ ]	_____
g	[✓]	[ ]	_____
h	[ ]	[ ]	_____
i	[ ]	[ ]	_____
j	[ ]	[ ]	_____

Analyst: VQ
Date: 5/10/10

Page 1 of 1

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	227847	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2553		
Field ID:	EFFLUENT	Batch#:	174631
Matrix:	Water	Sampled:	05/10/11
Units:	ug/L	Received:	05/10/11
Diln Fac:	1.000	Analyzed:	05/10/11

Type: SAMPLE Lab ID: 227847-001

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	102	75-130	EPA 8015B
Bromofluorobenzene (PID)	100	58-121	EPA 8021B

Type: BLANK Lab ID: QC591137

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	98	75-130	EPA 8015B
Bromofluorobenzene (PID)	96	58-121	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	227847	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2553		
Matrix:	Water	Batch#:	174631
Units:	ug/L	Analyzed:	05/10/11
Diln Fac:	1.000		

Type: BS Lab ID: QC591138

Analyte	Spiked	Result	%REC	Limits	Analysis
Benzene	10.00	10.46	105	74-121	EPA 8021B
Toluene	10.00	10.57	106	75-122	EPA 8021B
Ethylbenzene	10.00	11.04	110	75-122	EPA 8021B
m,p-Xylenes	10.00	10.76	108	76-123	EPA 8021B
o-Xylene	10.00	11.13	111	73-127	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	101	75-130	EPA 8015B
Bromofluorobenzene (PID)	98	58-121	EPA 8021B

Type: BSD Lab ID: QC591139

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analysis
Benzene	10.00	9.650	97	74-121	8	29	EPA 8021B
Toluene	10.00	9.461	95	75-122	11	20	EPA 8021B
Ethylbenzene	10.00	9.495	95	75-122	15	20	EPA 8021B
m,p-Xylenes	10.00	9.509	95	76-123	12	20	EPA 8021B
o-Xylene	10.00	9.769	98	73-127	13	20	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	94	75-130	EPA 8015B
Bromofluorobenzene (PID)	92	58-121	EPA 8021B

RPD= Relative Percent Difference

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	227847	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2553		
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC591140	Batch#:	174631
Matrix:	Water	Analyzed:	05/10/11
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	Analysis
Gasoline C7-C12	1,000	1,009	101	75-126	EPA 8015B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	100	75-130	EPA 8015B
Bromofluorobenzene (PID)	97	58-121	EPA 8021B

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	227847	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2553		
Field ID:	ZZZZZZZZZZ	Batch#:	174631
MSS Lab ID:	227849-002	Sampled:	05/09/11
Matrix:	Water	Received:	05/10/11
Units:	ug/L	Analyzed:	05/10/11
Diln Fac:	1.000		

Type: MS Lab ID: QC591141

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analysis
Gasoline C7-C12	137.6	2,000	1,836	85	68-120	EPA 8015B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	103	75-130	EPA 8015B
Bromofluorobenzene (PID)	99	58-121	EPA 8021B

Type: MSD Lab ID: QC591142

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analysis
Gasoline C7-C12	2,000	1,737	80	68-120	6	26	EPA 8015B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	101	75-130	EPA 8015B
Bromofluorobenzene (PID)	98	58-121	EPA 8021B

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	227847	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	2553	Analysis:	EPA 8015B
Field ID:	EFFLUENT	Batch#:	174576
Matrix:	Water	Sampled:	05/10/11
Units:	ug/L	Received:	05/10/11
Diln Fac:	1.000	Analyzed:	05/11/11

Type: SAMPLE Prepared: 05/10/11
Lab ID: 227847-001

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	106	60-129

Type: BLANK Prepared: 05/09/11
Lab ID: QC590923

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	107	60-129

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	227847	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	2553	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC590924	Batch#:	174576
Matrix:	Water	Prepared:	05/09/11
Units:	ug/L	Analyzed:	05/11/11

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,665	107	53-128

Surrogate	%REC	Limits
o-Terphenyl	115	60-129

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	227847	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	2553	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	174576
MSS Lab ID:	227786-006	Sampled:	05/04/11
Matrix:	Water	Received:	05/05/11
Units:	ug/L	Prepared:	05/09/11
Diln Fac:	1.000	Analyzed:	05/12/11

Type: MS
Lab ID: QC590925
Cleanup Method: EPA 3630C

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	10.14	2,500	1,967	78	50-126

Surrogate	%REC	Limits
o-Terphenyl	96	60-129

Type: MSD
Lab ID: QC590926
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,065	82	50-126	5	47

Surrogate	%REC	Limits
o-Terphenyl	97	60-129

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Chemical Oxygen Demand

Lab #:	227847	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2553	Analysis:	SM5220D
Analyte:	Chemical Oxygen Demand	Batch#:	174796
Field ID:	EFFLUENT	Sampled:	05/10/11 11:00
Matrix:	Water	Received:	05/10/11
Units:	mg/L	Prepared:	05/16/11 13:00
Diln Fac:	1.000	Analyzed:	05/16/11 15:00

Type	Lab ID	Result	RL
SAMPLE	227847-001	12	10
BLANK	QC591793	ND	10

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chemical Oxygen Demand

Lab #:	227847	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2553	Analysis:	SM5220D
Analyte:	Chemical Oxygen Demand	Batch#:	174796
Field ID:	ZZZZZZZZZZ	Sampled:	05/04/11 06:00
MSS Lab ID:	227724-006	Received:	05/04/11
Matrix:	Water	Prepared:	05/16/11 13:00
Units:	mg/L	Analyzed:	05/16/11 15:00

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
LCS	QC591794		75.00	73.49	98	90-110			1.000
MS	QC591795	467.2	600.0	1,057	98	65-131			4.000
MSD	QC591796		600.0	1,045	96	65-131	1	20	4.000

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

pH

Lab #:	227847	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2553	Analysis:	EPA 9040C
Analyte:	pH	Diln Fac:	1.000
Field ID:	EFFLUENT	Batch#:	174632
Lab ID:	227847-001	Sampled:	05/10/11 11:00
Matrix:	Water	Received:	05/10/11
Units:	SU	Analyzed:	05/10/11 18:00

Result	RL
6.6	1.0

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

pH

Lab #:	227847	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2553	Analysis:	EPA 9040C
Analyte:	pH	Units:	SU
Field ID:	EFFLUENT	Diln Fac:	1.000
Type:	SDUP	Batch#:	174632
MSS Lab ID:	227847-001	Sampled:	05/10/11 11:00
Lab ID:	QC591143	Received:	05/10/11
Matrix:	Water	Analyzed:	05/10/11 18:00

MSS Result	Result	RL	RPD	Lim
6.600	6.580	1.000	0	20

RL= Reporting Limit
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Suspended Solids (TSS)

Lab #:	227847	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2553	Analysis:	SM2540D
Analyte:	Total Suspended Solids	Batch#:	174789
Field ID:	EFFLUENT	Sampled:	05/10/11
Matrix:	Water	Received:	05/10/11
Units:	mg/L	Analyzed:	05/16/11
Diln Fac:	1.000		

Type	Lab ID	Result	RL
SAMPLE	227847-001	7	5
BLANK	QC591768	ND	5

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Suspended Solids (TSS)

Lab #:	227847	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2553	Analysis:	SM2540D
Analyte:	Total Suspended Solids	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	174789
MSS Lab ID:	227887-001	Sampled:	05/11/11
Matrix:	Water	Received:	05/11/11
Units:	mg/L	Analyzed:	05/16/11

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC591769		50.00	49.00	98	80-120		
BSD	QC591770		50.00	49.00	98	80-120	0	5
MS	QC591771	19.00	50.00	63.00	88	58-126		
MSD	QC591772		50.00	65.00	92	58-126	3	5

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 228546
ANALYTICAL REPORT

SOMA Environmental Engineering Inc.	Project : 2553
6620 Owens Dr.	Location : 15101 Freedom Ave. San Leandro
Pleasanton, CA 94588	Level : II

Sample ID	Lab ID
EFFLUENT	228546-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 06/14/2011
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**228546**
Client:	**SOMA Environmental Engineering Inc.**
Project:	**2553**
Location:	**15101 Freedom Ave. San Leandro**
Request Date:	**06/07/11**
Samples Received:	**06/07/11**

This data package contains sample and QC results for one water sample, requested for the above referenced project on 06/07/11. The sample was received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):
No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Total Suspended Solids (TSS) (SM2540D):
No analytical problems were encountered.

pH (EPA 9040C):
No analytical problems were encountered.

Chemical Oxygen Demand (SM5220D):
No analytical problems were encountered.

CHAIN OF CUSTODY

Curtis & Tompkins, Ltd
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

LOGIN # 228546

Sampler: MASOUD-Sepehr

Project No: 2553

Report To: Joyce Bobek

Project Name: 15101 Freedom Ave, San Leandr

Company : SOMA Environmental

Turnaround Time: Standard

Telephone: 925-734-6400

Fax: 925-734-6401

Lab No.	Sample ID.	Sampling Date Time	Matrix: Soil	Water	Waste	# of Containers	Preservative: HCL	H_2SO_4	HNO_3	ICE
	Effluent	6/7/11, 12		*		6 VOAs	*			*
				*		2-500 mL Ambers				*
				*		250 mL Poly		*		*
				*		500 mL Poly				*

Analyses

TPH-g, TPH-d, TPH-mo 8015	BTEX 8020	COD	pH, TSS								
*	*										
*											
		*									
			*								

Notes: EDF OUTPUT REQUIRED

RELINQUISHED BY:	RECEIVED BY:
6/7/11 – 13:16 DATE/TIME	6/7/11 1:14 DATE/TIME
DATE/TIME	DATE/TIME
DATE/TIME	DATE/TIME

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 228546 Date Received 6/7/11 Number of coolers 1
Client Soma Project 5101 Freedom Ave.

Date Opened 6/7/11 By (print) R Pams (sign)
Date Logged in + By (print) + (sign)

1. Did cooler come with a shipping slip (airbill, etc) YES (NO)
Shipping info

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
How many Name Date
2B. Were custody seals intact upon arrival? YES NO (N/A)
3. Were custody papers dry and intact when received? (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) (YES) NO
6. Indicate the packing in cooler: (if other, describe)

☒ Bubble Wrap ☒ Foam blocks ☐ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C)

☐ Samples Received on ice & cold without a temperature blank

☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES (NO)
If YES, what time were they transferred to freezer?
9. Did all bottles arrive unbroken/unopened? (YES) NO
10. Are samples in the appropriate containers for indicated tests? (YES) NO
11. Are sample labels present, in good condition and complete? (YES) NO
12. Do the sample labels agree with custody papers? (YES) NO
13. Was sufficient amount of sample sent for tests requested? (YES) NO
14. Are the samples appropriately preserved? (YES) NO N/A
15. Did you check preservatives for all bottles for each sample? (YES) NO N/A
16. Did you document your preservative check (YES) NO N/A
17. Are bubbles > 6mm absent in VOA samples? (YES) NO N/A
18. Was the client contacted concerning this sample delivery? YES (NO)
If YES, Who was called? By Date:

COMMENTS

Curtis & Tompkins Sample Preservation for 228546

Sample	pH: <2	>12	Other
-001a	[ ]	[ ]	_____
b	[ ]	[ ]	_____
c	[ ]	[ ]	_____
d	[ ]	[ ]	_____
e	[ ]	[ ]	_____
f	[ ]	[ ]	_____
g	[ ]	[ ]	_____
h	[ ]	[ ]	_____
i	[ ]	[ ]	_____
j	[ ]	[ ]	_____

Analyst: _____

Date: 6/7/11

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	228546	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2553		
Field ID:	EFFLUENT	Batch#:	175585
Matrix:	Water	Sampled:	06/07/11
Units:	ug/L	Received:	06/07/11
Diln Fac:	1.000	Analyzed:	06/07/11

Type: SAMPLE Lab ID: 228546-001

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	116	78-123	EPA 8015B
Bromofluorobenzene (PID)	113	80-120	EPA 8021B

Type: BLANK Lab ID: QC595088

Analyte	Result	RL	Analysis
Gasoline C7-C12	ND	50	EPA 8015B
Benzene	ND	0.50	EPA 8021B
Toluene	ND	0.50	EPA 8021B
Ethylbenzene	ND	0.50	EPA 8021B
m,p-Xylenes	ND	0.50	EPA 8021B
o-Xylene	ND	0.50	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	100	78-123	EPA 8015B
Bromofluorobenzene (PID)	97	80-120	EPA 8021B

ND= Not Detected
RL= Reporting Limit

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	228546	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2553		
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC595087	Batch#:	175585
Matrix:	Water	Analyzed:	06/07/11
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits	Analysis
Gasoline C7-C12	1,000	1,018	102	80-120	EPA 8015B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	112	78-123	EPA 8015B
Bromofluorobenzene (PID)	111	80-120	EPA 8021B

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	228546	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2553		
Field ID:	EFFLUENT	Batch#:	175585
MSS Lab ID:	228546-001	Sampled:	06/07/11
Matrix:	Water	Received:	06/07/11
Units:	ug/L	Analyzed:	06/07/11
Diln Fac:	1.000		

Type: MS Lab ID: QC595089

Analyte	MSS Result	Spiked	Result	%REC	Limits	Analysis
Gasoline C7-C12	11.40	2,000	1,957	97	66-120	EPA 8015B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	115	78-123	EPA 8015B
Bromofluorobenzene (PID)	112	80-120	EPA 8021B

Type: MSD Lab ID: QC595090

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analysis
Gasoline C7-C12	2,000	1,854	92	66-120	5	25	EPA 8015B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	110	78-123	EPA 8015B
Bromofluorobenzene (PID)	108	80-120	EPA 8021B

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	228546	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2553		
Matrix:	Water	Batch#:	175585
Units:	ug/L	Analyzed:	06/07/11
Diln Fac:	1.000		

Type: BS Lab ID: QC595091

Analyte	Spiked	Result	%REC	Limits	Analysis
Benzene	10.00	8.614	86	80-120	EPA 8021B
Toluene	10.00	9.166	92	80-120	EPA 8021B
Ethylbenzene	10.00	9.742	97	80-120	EPA 8021B
m,p-Xylenes	10.00	9.419	94	80-120	EPA 8021B
o-Xylene	10.00	10.17	102	80-120	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	109	78-123	EPA 8015B
Bromofluorobenzene (PID)	108	80-120	EPA 8021B

Type: BSD Lab ID: QC595092

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analysis
Benzene	10.00	9.308	93	80-120	8	20	EPA 8021B
Toluene	10.00	9.810	98	80-120	7	20	EPA 8021B
Ethylbenzene	10.00	10.59	106	80-120	8	20	EPA 8021B
m,p-Xylenes	10.00	10.06	101	80-120	7	20	EPA 8021B
o-Xylene	10.00	11.03	110	80-120	8	20	EPA 8021B

Surrogate	%REC	Limits	Analysis
Bromofluorobenzene (FID)	112	78-123	EPA 8015B
Bromofluorobenzene (PID)	109	80-120	EPA 8021B

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	228546	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	2553	Analysis:	EPA 8015B
Field ID:	EFFLUENT	Batch#:	175636
Matrix:	Water	Sampled:	06/07/11
Units:	ug/L	Received:	06/07/11
Diln Fac:	1.000	Prepared:	06/08/11

Type: SAMPLE Analyzed: 06/10/11
Lab ID: 228546-001

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	99	68-120

Type: BLANK Analyzed: 06/09/11
Lab ID: QC595313

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	99	68-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	228546	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	2553	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC595314	Batch#:	175636
Matrix:	Water	Prepared:	06/08/11
Units:	ug/L	Analyzed:	06/09/11

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,204	88	61-120

Surrogate	%REC	Limits
o-Terphenyl	83	68-120

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	228546	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	2553	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	175636
MSS Lab ID:	228559-001	Sampled:	06/07/11
Matrix:	Water	Received:	06/08/11
Units:	ug/L	Prepared:	06/08/11
Diln Fac:	1.000	Analyzed:	06/09/11

Type: MS Lab ID: QC595315

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	258.1	2,500	2,787	101	33-140

Surrogate	%REC	Limits
o-Terphenyl	97	68-120

Type: MSD Lab ID: QC595316

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,973	109	33-140	6	30

Surrogate	%REC	Limits
o-Terphenyl	97	68-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	228546	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	2553	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	175636
MSS Lab ID:	228584-001	Sampled:	06/08/11
Matrix:	Water	Received:	06/08/11
Units:	ug/L	Prepared:	06/08/11
Diln Fac:	1.000	Analyzed:	06/09/11

Type: MS Lab ID: QC595317

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	7,818	2,500	9,537	69	33-140

Surrogate	%REC	Limits
o-Terphenyl	81	68-120

Type: MSD Lab ID: QC595318

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	8,925	40	33-140	7	30

Surrogate	%REC	Limits
o-Terphenyl	70	68-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	228546	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	2553	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	175636
MSS Lab ID:	228586-002	Sampled:	06/08/11
Matrix:	Water	Received:	06/08/11
Units:	ug/L	Prepared:	06/08/11
Diln Fac:	1.000	Analyzed:	06/10/11

Type: MS Lab ID: QC595319

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	810.8	2,500	3,558	110	33-140

Surrogate	%REC	Limits
o-Terphenyl	120	68-120

Type: MSD Lab ID: QC595320

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,954	86	33-140	19	30

Surrogate	%REC	Limits
o-Terphenyl	113	68-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Chemical Oxygen Demand

Lab #:	228546	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2553	Analysis:	SM5220D
Analyte:	Chemical Oxygen Demand	Batch#:	175658
Field ID:	EFFLUENT	Sampled:	06/07/11 12:00
Matrix:	Water	Received:	06/07/11
Units:	mg/L	Prepared:	06/09/11 12:55
Diln Fac:	1.000	Analyzed:	06/09/11 13:55

Type	Lab ID	Result	RL
SAMPLE	228546-001	ND	10
BLANK	QC595432	ND	10

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Chemical Oxygen Demand

Lab #:	228546	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2553	Analysis:	SM5220D
Analyte:	Chemical Oxygen Demand	Batch#:	175658
Field ID:	ZZZZZZZZZZ	Sampled:	06/01/11 06:00
MSS Lab ID:	228421-001	Received:	06/01/11
Matrix:	Water	Prepared:	06/09/11 12:55
Units:	mg/L	Analyzed:	06/09/11 13:55

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac
LCS	QC595433		75.00	74.28	99	90-110			1.000
MS	QC595434	544.5	1,200	1,642	91	61-127			16.00
MSD	QC595435		1,200	1,613	89	61-127	2	20	16.00

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

pH

Lab #:	228546	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2553	Analysis:	EPA 9040C
Analyte:	pH	Diln Fac:	1.000
Field ID:	EFFLUENT	Batch#:	175584
Lab ID:	228546-001	Sampled:	06/07/11 12:00
Matrix:	Water	Received:	06/07/11
Units:	SU	Analyzed:	06/07/11 17:30

Result	RL
6.6	1.0

RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

pH

Lab #:	228546	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2553	Analysis:	EPA 9040C
Analyte:	pH	Units:	SU
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	175584
MSS Lab ID:	228545-001	Sampled:	06/07/11 11:00
Lab ID:	QC595086	Received:	06/07/11
Matrix:	Water	Analyzed:	06/07/11 17:30

MSS Result	Result	RL	RPD	Lim
7.200	7.170	1.000	0	20

RL= Reporting Limit
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Total Suspended Solids (TSS)

Lab #:	228546	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2553	Analysis:	SM2540D
Analyte:	Total Suspended Solids	Batch#:	175589
Field ID:	EFFLUENT	Sampled:	06/07/11
Matrix:	Water	Received:	06/07/11
Units:	mg/L	Prepared:	06/07/11
Diln Fac:	1.000	Analyzed:	06/08/11

Type	Lab ID	Result	RL
SAMPLE	228546-001	6	5
BLANK	QC595097	ND	5

ND= Not Detected
RL= Reporting Limit

Batch QC Report

Total Suspended Solids (TSS)

Lab #:	228546	Location:	15101 Freedom Ave. San Leandro
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	2553	Analysis:	SM2540D
Analyte:	Total Suspended Solids	Units:	mg/L
Field ID:	ZZZZZZZZZZ	Batch#:	175589
Matrix:	Water	Analyzed:	06/08/11

Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln Fac	Sampled	Received	Prepared
BS		QC595098		50.00	50.00	100	80-120			1.000			06/07/11
BSD		QC595099		50.00	52.00	104	80-120	4	5	1.000			06/07/11
MS	228421-001	QC595100	32.00	50.00	158.0	126	62-127			1.000	06/01/11	06/01/11	06/07/11
MSD	228421-001	QC595101		50.00	158.0	126	62-127	0	5	1.000	06/01/11	06/01/11	06/07/11
MS	228559-001	QC595243	14.00	50.00	71.00	114	62-127			2.000	06/07/11	06/08/11	06/08/11
MSD	228559-001	QC595244		50.00	70.00	112	62-127	1	5	2.000	06/07/11	06/08/11	06/08/11

RPD= Relative Percent Difference

Appendix E

Second Quarter 2011 MPE Event
Field Data Sheets

Golden Gate Remediation Technology

ADDRESS: 15101 Freedom Ave., San Leandro
PROJECT #: 2555

MTS OPERATIONAL DATA

DATE	TIME	OXIDIZER TEMPERATURE (F)	PUMP/AIR TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	PITOT TUBE (In of H2O)	EFFLUENT TEMPERATURE (F)	TOTAL FLOW (SCFM)	DILUTION FLOW (SCFM)	WELL FLOW (SCFM)	INFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER
4/18/2011	1100	begin extraction from MPE- 2 and MW-5										0
	1400	1500	175	26	27	0.01	120	12	4	9	250	695
	1500	1510	185	25.6	27	0.01	130	12	4	9	263	1,015
		extraction from MPE-2 only										1015
4/19/2011	700	1500	181	23	25.8	0.04	140	24	10	15	IN = 101; EFF = 8	3,285
	930	1500	179	22.8	26	0.04	140	24	10	15	109	3,585
		extraction from MPE-2 and MW-5										3,585
	1030	1500	181	25	26	0.04	130	25	6	18	220	3,795
	1200	1520	190	24.2	26.6	0.04	138	24	6	18	205	4,425
	1330	1502	193	24.4	26.4	0.04	142	24	6	18	234	4,985
	1430	1494	181	24.6	26.6	0.06	130	30	8	23	230	5,395
	1530	1497	193	24.4	26.4	0.06	140	30	7	22	214	5,685
	1630	1505	182	24.4	26.4	0.06	130	30	8	23	220	6,045
4/20/2011	800	1519	185	23	26	0.06	138	30	7	22	171	11,240
	930	1491	193	23	26	0.06	140	30	7	22	174	11,629
	1030	1524	184	23.2	26	0.06	140	30	7	22	179	11,911
	1130	1521	187	23.2	26	0.06	140	30	7	22	186	12,257
	1230	1531	193	23	26	0.06	140	30	7	22	185	12,517
	1330	1513	192	23	26	0.06	140	30	7	22	182	12,840
	1430	1513	187	23.2	26	0.06	140	30	7	22	173	13,109
	1530	1528	193	23.2	26	0.06	140	30	7	22	187	13,427
	1630	1510	188	23.2	26	0.06	140	30	7	22	186	13,752

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Golden Gate Remediation Technology

ADDRESS: 15101 Freedom Ave., San Leandro
PROJECT #: 2555

MTS OPERATIONAL DATA

DATE	TIME	OXIDIZER TEMPERATURE (F)	PUMP/AIR TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	PITOT TUBE (In of H2O)	EFFLUENT TEMPERATURE (F)	TOTAL FLOW (SCFM)	DILUTION FLOW (SCFM)	WELL FLOW (SCFM)	INFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER
4/21/2011	730	1500	182	24	26	0.06	134	30	7	22	180	17,929
	1030	1520	176	24	26	0.06	130	30	8	23	176	18,765
	1430	1530	191	23.6	26	0.06	140	30	7	22	195	19,865
	1630	1501	187	23.4	26	0.06	140	30	7	22	191	20,375
4/22/2011	730	1500	179	23	25.6	0.08	136	34	9	26	165	24,300
		added MPE-1 with MPE-2 and MW-5										24,300
	930	1505	180	21	25.2	0.1	140	38	0	38	175	24,865
	1030	1520	185	22	25.2	0.1	136	39	0	39	191	25,230
	1400	1515	197	22	25	0.1	150	38	0	38	181	26,525
4/23/2011	730	1500	176	21	25	0.1	140	38	0	38	192	32,218
	1030	1500	193	21.4	24.8	0.12	150	42	0	42	210	33,145
	1130	1525	188	21.4	24.8	0.12	144	42	0	42	201	33,485
	1400	1529	200	21	24.6	0.12	154	42	0	42	236	34,378
	1500	1510	194	21.4	24.8	0.12	150	42	0	42	220	34,675
	1600	1505	196	21.2	24.8	0.12	150	42	0	42	211	34,985
4/24/2011	800	1500	180	20.6	24.4	0.12	140	42	0	42	186	39,755
	1000	1500	191	21.2	24.4	0.12	144	42	0	42	191	40,355
	1200	1510	192	21.2	24.4	0.12	144	42	0	42	197	40,968
	1330	1508	197	20	24.2	0.14	154	45	0	45	514	41,049
	1430	1529	186	20.4	24.4	0.14	140	45	0	45	186	41,649
	1530	1517	186	20.8	24.2	0.14	140	45	0	45	177	41,887
	1630	1493	180	21.2	24.4	0.14	132	46	0	46	181	42,166
4/25/2011	730	1525	193	21	24.2	0.14	150	45	0	45	201	46,365
	1030	1500	199	21	24.6	0.14	150	45	0	45	199	47,159
	1130	1500	188	21	24.6	0.14	150	45	0	45	197	47,435
	1300	1524	179	20.4	24.6	0.14	142	45	0	45	258	47,989

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Golden Gate Remediation Technology

ADDRESS: 15101 Freedom Ave., San Leandro
PROJECT #: 2555

MTS OPERATIONAL DATA

DATE	TIME	OXIDIZER TEMPERATURE (F)	PUMP/AIR TEMPERATURE (F)	STINGER VACUUM (IN-Hg)	PUMP VACUUM (IN-Hg)	PITOT TUBE (In of H2O)	EFFLUENT TEMPERATURE (F)	TOTAL FLOW (SCFM)	DILUTION FLOW (SCFM)	WELL FLOW (SCFM)	INFLUENT CONCENTRATION (PPMV)	WATER TOTALIZER
	1400	1496	174	20.4	24.6	0.14	132	46	0	46	178	48,159
	1500	1490	180	20.4	24.6	0.14	136	46	0	46	192	48,370
	1600	1520	177	20.4	24.6	0.14	136	46	0	46	179	48,685
	1700	1504	186	20.4	24.6	0.14	144	45	0	45	173	48,899
4/26/2011	800	1510	172	20.4	24.4	0.14	134	46	0	46	181	52,872
	1100	1490	191	20.4	24.4	0.14	150	45	0	45	185	53,685
	1300	1491	197	20.4	24.4	0.14	150	45	0	45	269	54,276
	1400	1535	191	20.4	24.4	0.14	150	45	0	45	131	54,417
	1500	1492	179	20.8	24.4	0.14	134	46	0	46	527	54,698
	1600	1484	179	21	24.4	0.14	134	46	0	46	181	54,953
	1700	1535	179	21	24.4	0.14	134	46	0	46	685	55,171
4/27/2011	800	1520	176	20.6	24.2	0.16	140	49	0	49	169	58,897
	1300	1530	199	20.6	24.2	0.16	152	48	0	48	650	60,184
	1400	1532	188	20	24.2	0.16	150	48	0	48	208	60,318
	1500	1494	177	20	24.2	0.16	134	49	0	49	146	60,575
	1600	1500	173	20.4	24.2	0.16	126	49	0	49	150	60,776
	1700	1537	193	20.4	24.4	0.16	144	48	0	48	363	60,970
4/28/2011	800	1500	176	21	24.4	0.16	140	49	0	49	163	64,275
	1400	1508	192	20.8	24.4	0.16	150	48	0	48	220	66,571
4/29/2011	730	1520	188	21	24.4	0.16	143	49	0	49	135	69,255
	1000	1500	188	21	24.4	0.16	150	48	0	48	125	69,790
	end MPE event											69,790

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Appendix F

Laboratory Report and Chain of Custody
Form for Soil Vapor Samples

Soma Environmental
6620 Owens Dr. Suite A
Pleasanton, California 94588
Tel: 925-734-6400
Fax: 925-734-6401

RE: 15101 Freedom Ave

Work Order No.: 1104106

Dear Joyce Bobek:

Torrent Laboratory, Inc. received 2 sample(s) on April 21, 2011 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Patti Sandrock

April 28, 2011
Date

Date: 4/28/2011

Client: Soma Environmental

Project: 15101 Freedom Ave

Work Order: 1104106

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

483 Sinclair Frontage Rd., Milpitas, CA 95035 | tel: 408.263.5258 | fax: 408.263.8293 | www.torrentlab.com

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Joyce Bobek
Soma Environmental

Date Received: 04/21/11
Date Reported: 04/28/11

EFF 1104106-001A

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3

All compounds were non-detectable for this sample.

INF 1104106-002A

Parameters:	Analysis Method	DF	MDL	PQL	Results ug/m3
Benzene	ETO15	250	170	400	15900
Ethyl Benzene	ETO15	250	250	540	694
m,p-Xylene	ETO15	250	410	1100	1910
TPH-Gasoline	ETO3	500	88000	180000	220000

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Joyce Bobek
Soma Environmental

Date Received: 04/21/11
Date Reported: 04/28/11

Client Sample ID:	EFF	**Lab Sample ID:**	1104106-001A
Project Name/Location:	15101 Freedom Ave	**Sample Matrix:**	Soil Vapor
Project Number:			
Date/Time Sampled:	04/19/11 / 9:45	**Certified Clean WO # :**	
Canister/Tube ID:		**Received PSI :**	0.0
Collection Volume (L):	0.00	**Corrected PSI :**	0.0
Tag Number:	15101 Freedom Ave		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
MTBE	ETO15	NA	04/21/11	5	4.4	9.0	ND	ND		404708	NA
Benzene	ETO15	NA	04/21/11	5	3.4	8.0	ND	ND		404708	NA
Toluene	ETO15	NA	04/21/11	5	4.7	9.4	ND	ND		404708	NA
Ethyl Benzene	ETO15	NA	04/21/11	5	5.0	11	ND	ND		404708	NA
m,p-Xylene	ETO15	NA	04/21/11	5	8.1	22	ND	ND		404708	NA
o-Xylene	ETO15	NA	04/21/11	5	4.1	11	ND	ND		404708	NA
(S) 4-Bromofluorobenzene	ETO15	NA	04/21/11	5	65	135	106 %			404708	NA

NOTE: The reporting limits were raised due to limited sample received (tedlar bag).

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
TPH-Gasoline	ETO3	NA	04/25/11	10	1800	3500	ND	ND		404726	NA

NOTE: Raised reporting limit - see comment for TO-15 analysis.

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Joyce Bobek
Soma Environmental

Date Received: 04/21/11
Date Reported: 04/28/11

Client Sample ID:	INF	**Lab Sample ID:**	1104106-002A
Project Name/Location:	15101 Freedom Ave	**Sample Matrix:**	Soil Vapor
Project Number:			
Date/Time Sampled:	04/19/11 / 10:00	**Certified Clean WO # :**	
Canister/Tube ID:		**Received PSI :**	0.0
Collection Volume (L):	0.00	**Corrected PSI :**	0.0
Tag Number:	15101 Freedom Ave., San Leandro, CA		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
MTBE	ETO15	NA	04/21/11	250	220	450	ND	ND		404708	NA
Benzene	ETO15	NA	04/21/11	250	170	400	15900	4,984.33		404708	NA
Toluene	ETO15	NA	04/21/11	250	240	470	ND	ND		404708	NA
Ethyl Benzene	ETO15	NA	04/21/11	250	250	540	694	159.91		404708	NA
m,p-Xylene	ETO15	NA	04/21/11	250	410	1100	1910	440.09		404708	NA
o-Xylene	ETO15	NA	04/21/11	250	200	540	ND	ND		404708	NA
(S) 4-Bromofluorobenzene	ETO15	NA	04/21/11	250	65	135	105 %			404708	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Lab Qualifier	Analytical Batch	Prep Batch
TPH-Gasoline	ETO3	NA	04/25/11	500	88000	180000	220000	62,500.00	x	404726	NA

NOTE: x - Does not match pattern of reference Gasoline standard. Reported TPH value includes significant amount of non-target hydrocarbons within range of C5-C12 quantified as gasoline.

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1104106	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	04/21/11	**Analytical Batch:**	404708
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	0.30	1.00	ND	
1,1-Difluoroethane	0.18	0.500	ND	
1,2-Dichlorotetrafluoroethane	0.70	2.00	ND	
Chloromethane	0.15	0.500	ND	
Vinyl Chloride	0.26	1.00	ND	
1,3-Butadiene	0.20	0.500	ND	
Bromomethane	0.18	0.500	ND	
Chloroethane	0.19	0.500	ND	
Trichlorofluoromethane	0.32	1.00	ND	
1,1-Dichloroethene	0.15	0.500	ND	
Freon 113	0.11	0.500	ND	
Carbon Disulfide	0.26	1.00	ND	
2-Propanol (Isopropyl Alcohol)	0.39	4.00	ND	
Methylene Chloride	0.17	0.500	ND	
Acetone	0.37	4.00	ND	
trans-1,2-Dichloroethene	0.16	0.500	ND	
Hexane	0.15	0.500	ND	
MTBE	0.24	0.500	ND	
tert-Butanol	0.22	2.00	ND	
Diisopropyl ether (DIPE)	0.21	0.500	ND	
1,1-Dichloroethane	0.18	0.500	ND	
ETBE	0.16	0.500	ND	
cis-1,2-Dichloroethene	0.13	0.500	ND	
Chloroform	0.25	1.00	ND	
Vinyl Acetate	0.16	0.500	ND	
Carbon Tetrachloride	0.14	0.500	ND	
1,1,1-Trichloroethane	0.15	0.500	ND	
2-Butanone (MEK)	0.21	0.500	ND	
Ethyl Acetate	0.21	0.500	ND	
Tetrahydrofuran	0.10	0.500	ND	
Benzene	0.21	0.500	ND	
TAME	0.086	0.500	ND	
1,2-Dichloroethane (EDC)	0.24	0.500	ND	
Trichloroethylene	0.26	1.00	ND	
1,2-Dichloropropane	0.29	1.00	ND	
Bromodichloromethane	0.13	0.500	ND	
1,4-Dioxane	0.35	1.00	ND	
trans-1,3-Dichloropropene	0.19	0.500	ND	
Toluene	0.25	0.500	ND	
4-Methyl-2-Pentanone (MIBK)	0.21	0.500	ND	
cis-1,3-Dichloropropene	0.25	0.500	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1104106	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	04/21/11	**Analytical Batch:**	404708
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Tetrachloroethylene	0.13	0.500	ND	
1,1,2-Trichloroethane	0.17	0.500	ND	
Dibromochloromethane	0.20	0.500	ND	
1,2-Dibromoethane (EDB)	0.27	1.00	ND	
2-Hexanone	0.27	1.00	ND	
Ethyl Benzene	0.23	0.500	ND	
Chlorobenzene	0.15	0.500	ND	
1,1,1,2-Tetrachloroethane	0.15	0.500	ND	
m,p-Xylene	0.38	1.00	ND	
o-Xylene	0.19	0.500	ND	
Styrene	0.16	0.500	ND	
Bromoform	0.11	0.500	ND	
1,1,2,2-Tetrachloroethane	0.10	0.500	ND	
4-Ethyl Toluene	0.17	0.500	ND	
1,3,5-Trimethylbenzene	0.15	0.500	ND	
1,2,4-Trimethylbenzene	0.14	0.500	ND	
1,4-Dichlorobenzene	0.11	0.500	ND	
1,3-Dichlorobenzene	0.14	0.500	ND	
Benzyl Chloride	0.12	0.500	ND	
1,2-Dichlorobenzene	0.15	0.500	ND	
Hexachlorobutadiene	0.22	0.500	ND	
1,2,4-Trichlorobenzene	0.46	1.00	ND	
Naphthalene	0.28	1.00	ND	
(S) 4-Bromofluorobenzene			103	

Work Order:	1104106	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Air	**Analytical Method:**	ETO3	**Analyzed Date:**	04/25/11	**Analytical Batch:**	404726
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH-Gasoline	50	100	ND	

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1104106	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Air	**Analytical Method:**	ETO15	**Analyzed Date:**	04/21/11	**Analytical Batch:**	404708
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.15	0.500	ND	20	90.5	89.8	0.776	65 - 135	30	
Benzene	0.21	0.500	ND	20	99.0	92.7	6.52	65 - 135	30	
Trichloroethylene	0.26	1.00	ND	20	109	110	1.00	65 - 135	30	
Toluene	0.25	0.500	ND	20	101	104	3.08	65 - 135	30	
Chlorobenzene	0.15	0.500	ND	20	90.7	93.0	2.50	65 - 135	30	
(S) 4-Bromofluorobenzene			ND	20	85.0	80.0		65 - 135		

Work Order:	1104106	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Air	**Analytical Method:**	ETO3	**Analyzed Date:**	04/25/11	**Analytical Batch:**	404726
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH-Gasoline	50	100	ND	500	100	101	0.869	50 - 150	30	

Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit (PQL) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - **mg/L** and ***mg/Kg*** (equivalent to PPM - parts per million in **liquid** and ***solid***), **ug/L** and ***ug/Kg*** (equivalent to PPB - parts per billion in **liquid** and ***solid***), **ug/m3**, ***mg.m3***, **ppbv** and ***ppmv*** (all units of measure for reporting concentrations in air), **%** (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS:

B - Indicates when the anlayte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

Sample Receipt Checklist

Client Name: Soma Environmental

Project Name: 15101 Freedom Ave

Work Order No.: 1104106

Date and Time Received: 4/21/2011 11:20

Received By: NG

Physically Logged By: NG

Checklist Completed By: NG

Carrier Name: Gold Bullet Courier

Chain of Custody (COC) Information

Chain of custody present?	Yes
Chain of custody signed when relinquished and received?	Yes
Chain of custody agrees with sample labels?	Yes
Custody seals intact on sample bottles?	Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Not Present
Shipping Container/Cooler In Good Condition?	Yes
Samples in proper container/bottle?	Yes
Samples containers intact?	Yes
Sufficient sample volume for indicated test?	Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes
Container/Temp Blank temperature in compliance?	Temperature: °C
Water-VOA vials have zero headspace?	No VOA vials submitted
Water-pH acceptable upon receipt?	
pH Checked by:	pH Adjusted by:

Login Summary Report

Client ID: TL5237 Soma Environmental

Project Name: 15101 Freedom Ave

Project # :

Report Due Date: 4/28/2011

QC Level:

TAT Requested: 5+ day:0

Date Received: 4/21/2011

Time Received: 11:20

Comments: 5 day TAT! Received 2 tedlars for TPHg,MBTEX.

Work Order # : ***1104106***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1104106-001A	EFF	04/19/11 9:45	Air				A_TO-3GRO A_TO-15MBTEX	
Sample Note:	Tedlars! TPHg,MBTEX for both samples.							
1104106-002A	INF	04/19/11 10:00	Air				A_TO-3GRO A_TO-15MBTEX	

Torrent LABORATORY, INC.

Torrent LABORATORY, INC.
483 Sinclair Frontage Road
Milpitas, CA 95035
Phone: 408.263.5258
FAX: 408.263.8293
www.torrentlab.com

RESET

CHAIN OF CUSTODY

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY

LAB WORK ORDER NO: 1104106

Company Name: SOMA Environmental Engineering, Inc.	Location of Sampling: 15101 Freedom Ave., San Leandro, CA.
Address: 6620 Owens Drive, Suite A	Purpose: soil vapor extraction
City: Pleasanton / State: CA / Zip Code: 94588	Special Instructions / Comments: gasoline station
Telephone: 925-734-6400 / FAX: 925-734-6401	
REPORT TO: Joyce Bobek / SAMPLER:	P.O. #: 2555 / EMAIL: jbobek@somaenv.com

TURNAROUND TIME:
☐ 10 Work Days ☐ 3 Work Days ☐ Noon - Nxt Day
☐ 7 Work Days ☐ 2 Work Days ☐ 2 - 8 Hours
☑ 5 Work Days ☐ 1 Work Day ☐ Other

SAMPLE TYPE:
☐ Storm Water ☐ Air
☐ Waste Water ☑ Other
☐ Ground Water Soil
☐ Soil Vapor

REPORT FORMAT:
☐ QC Level IV
☑ EDF
☐ Excel / EDD

ANALYSIS REQUESTED

LAB ID	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	TO-3, TPH-gas	TO-15, BTEX, MtBE								REMARKS
001A	EFF	4/19/11 @ 0945	air	1	tedlar	✓	✓								
002A	INF	4/19/11 @ 1000	air	1	tedlar	✓	✓								

	Relinquished By:	Print:	Date:	Time:	Received By:	Print:	Date:	Time:
1	[signature]	Jesse Acedillo	4/21/11	0930	Billy L. Lemon	B. Lemon	4-21-11	10:50
2	Billy L. Lemon	B. Lemon	4/21/11	11:20	[signature]	[redacted]	4/21/11	11:20 pm

Were Samples Received in Good Condition? ☑ Yes ☐ NO Samples on Ice? ☐ Yes ☑ NO Method of Shipment GB. Sample seals intact? ☐ Yes ☐ NO ☑ N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrange -ments are made.

Log In By: [redacted] Date: [redacted] Log In Reviewed By: [redacted] Date: [redacted]

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