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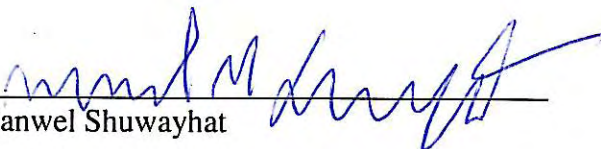
Allterra Environmental, Inc.  
849 Almar Avenue, Suite C  
No. 281  
Santa Cruz, California 95060

**Client:** Manwel Shuwayhat  
**Project Location:** 160 Holmes Street, Livermore, California  
**Subject:** Second Quarter 2012 Groundwater Monitoring Report  
**Report Date:** July 9, 2012

To Whom It May Concern:

I have reviewed the report referenced above and approve its distribution to the necessary regulatory agencies. Should any of the regulatory agencies require it, "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached proposal or report is true and correct to the best of my knowledge."

Sincerely,

  
\_\_\_\_\_  
Manwel Shuwayhat



July 9, 2012  
*Project No.: 160*

Manwel and Samira Shuwayhat  
Livermore Gas and Mini Mart  
54 Wolfe Canyon Road  
Kentfield, California 94904

**SUBJECT: Second Quarter 2012 Groundwater Monitoring Report for Fuel Leak Case No. RO0000324, Livermore Gas and Mini Mart, 160 Holmes Street, Livermore, California**

Dear Mr. and Mrs. Shuwayhat:

On your behalf, Allterra Environmental, Inc. (Allterra) has prepared this Second Quarter 2012 Groundwater Monitoring Report for the property located at 160 Holmes Street in Livermore, California (Site). This report describes the field and analytical methods, provides a summary of groundwater monitoring results, and presents conclusions and recommendations regarding groundwater conditions at the Site. Monitoring activities were completed in accordance with Alameda County Environmental Health Services (ACEHS) and Regional Water Quality Control Board (RWQCB) guidelines, and Allterra's protocols presented in Appendix A.

### **Site Location and Description**

The Site is located on the southwest corner of Holmes Street and 2nd Street at 160 Holmes Street in Livermore, California (Figure 1). The Site currently operates as a service station and convenience store. The Site is paved with concrete and asphalt, and a canopy covers the fuel dispensers. Pertinent site features, such as monitoring well locations, are presented on Figure 2.

### **Groundwater Monitoring for Second Quarter 2012**

#### Field Activities

On June 12 and 13, 2012, Allterra conducted groundwater monitoring at 18 on-site and off-site monitoring wells (MW-1A through MW-9B) and three on-site extraction wells (EW-1 through EW-3). Groundwater monitoring activities included the measurement of static groundwater levels, an evaluation of groundwater in the wells for the presence of petroleum hydrocarbons, field parameter testing, and groundwater quality sampling. Prior to sampling, all groundwater wells were purged using disposable bailers until temperature, color, specific conductance, and turbidity readings had stabilized or until at least three casing volumes had been removed. Groundwater sampling field logs are included in Appendix B.

#### Laboratory Analysis

Groundwater samples collected from the monitoring wells and the extraction wells were submitted under chain-of-custody documentation to McCampbell Analytical, Inc., of Pittsburg, California, a State of California certified laboratory (ELAP #1644). All samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by EPA method 8015B, and for benzene,

toluene, ethylbenzene, xylenes (BTEX), and methyl tert-butyl ether (MTBE) by EPA Method 8021B. Additionally, select wells were tested for total petroleum hydrocarbons as diesel (TPHd) by EPA method 8015B, fuel oxygenates tert-amyl methyl ether (TAME), tert-butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), and MTBE, and lead scavengers 1,2-dibromoethane (EDB) and 1,2-dichloroethane (1,2-DCA) by EPA Method 8260B. Copies of the chain-of-custody documentation and the certified analytical report, including quality assurance and quality control (QA/QC) data, are included in Appendix C.

#### Groundwater Gradient and Flow Direction

On June 12, 2012, Allterra personnel measured and recorded depths to groundwater from the tops of well casings (TOC) for each well. Recorded depths to groundwater ranged from 26.79 to 38.65 feet below TOC. The surveyed elevations of each well casing (measured in feet relative to mean sea level), depths to groundwater, and calculated groundwater elevations are presented in Table 1 and depicted on Figure 3 as groundwater elevation contours. For the June 2012 monitoring event, the general groundwater flow direction was to the northwest at a gradient of approximately 0.0067 feet per foot (ft/ft).

#### Analytical Results

Petroleum constituents were detected in nine of the eighteen wells sampled during this event. A summary of current and historical groundwater analytical results is presented in Table 2. Additionally, concentrations of dissolved TPHg, TPHd, benzene, MTBE, and TBA in groundwater are shown on Figures 4 through 7 and time trend plots for contaminant concentrations in wells MW-1A, EW-1, and EW-3 are shown on Figures 8 through 13. A discussion of current groundwater analytical results is presented below:

- TPHg was detected in three wells at concentrations ranging from 65 micrograms per liter ( $\mu\text{g/L}$ ) in MW-1A to 490  $\mu\text{g/L}$  in EW-3.
- TPHd was detected in three wells at concentrations ranging from 300  $\mu\text{g/L}$  in MW-1A to 1,200  $\mu\text{g/L}$  in MW-7A.
- Benzene was detected in one well (MW-1A) at 0.96  $\mu\text{g/L}$ .
- Toluene was detected in three wells at concentrations ranging from 0.7  $\mu\text{g/L}$  in MW-1A to 9.9  $\mu\text{g/L}$  in MW-7A.
- Ethylbenzene was detected in one well (EW-3) at a concentration of 3.0  $\mu\text{g/L}$ .
- Xylenes were detected in one well (EW-3) at a concentration of 7.9  $\mu\text{g/L}$ .
- MTBE was detected in four wells at concentrations ranging from 0.89  $\mu\text{g/L}$  in EW-2 to 9,300  $\mu\text{g/L}$  in EW-3.

- TBA was detected in six wells at concentrations ranging from 4.6 µg/L in MW-7A to 66,000 µg/L in EW-3.

## Conclusions

Based on the current groundwater monitoring data, Allterra concludes the following:

- The overall groundwater flow direction was to the northwest with an estimated gradient of 0.0067 ft/ft, which is consistent with previous monitoring events.
- For the June 2012 monitoring event, petroleum constituents were detected at or above laboratory detection limits in nine of the eighteen wells sampled. The highest concentrations of petroleum constituents remaining in shallow groundwater are limited to area around well EW-3.
- The highest concentration of MTBE was detected in extraction well EW-3 (9,300 µg/L), which has a screen interval from 25 to 30 feet bgs. The highest concentration of TPHg was also found in EW-3 (490 µg/L).
- Monitoring well MW-7A exhibited an anomalous increase in TPHg and TPHd concentrations this quarter. This could be attributed to low groundwater elevations in the vicinity of MW-7A and the bottom of the well just penetrating the phreatic surface. We will continue to assess TPHg and TPHd concentrations in MW-7A during subsequent sampling events.
- The highest concentration of TBA was detected in well EW-3 (66,000 µg/L). TBA was also detected in down-gradient monitoring wells MW-7A and MW-7B at concentrations of 4.6 and 2,400 µg/L, respectively. TBA was not detected in any other down-gradient wells during this sampling event. Recent increases in TBA concentrations are likely due to degradation of MTBE caused by remedial activities and natural processes.
- Since April 2011, petroleum constituents in groundwater have generally exhibited decreasing trends throughout the in-situ treatment zone. Substantial contaminant reduction has occurred in key wells MW-1A, EW-1, and EW-3 located within the source area.
- Based on second quarter 2012 analytical results, MW-1A demonstrates a 99.96%, 99.47%, 99.99%, and 99.98% reduction in TPHg, TPHd, benzene, and MTBE concentrations, respectively. EW-1 demonstrates a 99.86%, 77.27%, 99.89%, and 99.58% reduction in TPHg, TPHd, benzene, and MTBE concentrations, respectively. EW-3 demonstrates a 99.65%, 83.27%, 99.79%, and 97.79% reduction in TPHg, TPHd, benzene, and MTBE concentrations, respectively.

- Decreasing trends in petroleum constituents in shallow groundwater indicate that in-situ remedial efforts have been effective in treating soil and groundwater in the source area at the Site, and continues to actively address residual contaminates.

### **Recommendations**

Based on the conclusions presented above, Allterra recommends the following:

- Prepare a work plan for additional remediation to address high residual concentrations of petroleum constituents in soil and groundwater in the vicinity of well EW-3.
- Continue with the current quarterly groundwater monitoring at the Site for the purpose of closely monitoring potential contaminant rebound under varying seasonal conditions.
- To reduce project costs, up-gradient wells MW-2A, MW-3A, and EW-2 and cross-gradient well MW-4A will be sampled for TPHg, BTEX, and MTBE on an annual basis (first quarter of each year).
- All other wells will continue to be sampled and analyzed for TPHg, BTEX, and MTBE on a quarterly basis. Only select wells will be analyzed for TPHd, 5-fuel oxygenates, and lead scavengers on a quarterly basis.

### **Limitations**

Allterra prepared this report for the use of Livermore Gas and Mini Mart, ACEHS and RWQCB in evaluating groundwater quality at selected locations at the time of this study. Statements, conclusions, and recommendations in this report are based solely on the field observations and analytical results related to work performed by Allterra and there is no warranty, expressed or implied. Site conditions and data can change over time; therefore, data presented in this report is only applicable to the timeframe of this study. Allterra's services have been performed in accordance with environmental principles generally accepted at this time and location.

Should you have any questions, please contact Allterra at (831) 425-2608.

Sincerely,  
Allterra Environmental, Inc.



Aaron Powers  
Project Geologist



Joe Mangine, P.G. 8423  
Senior Geologist

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- Figure 3, Shallow Groundwater Potentiometric Map of 6-12-12
- Figure 4, Concentrations of Petroleum Constituents in Groundwater
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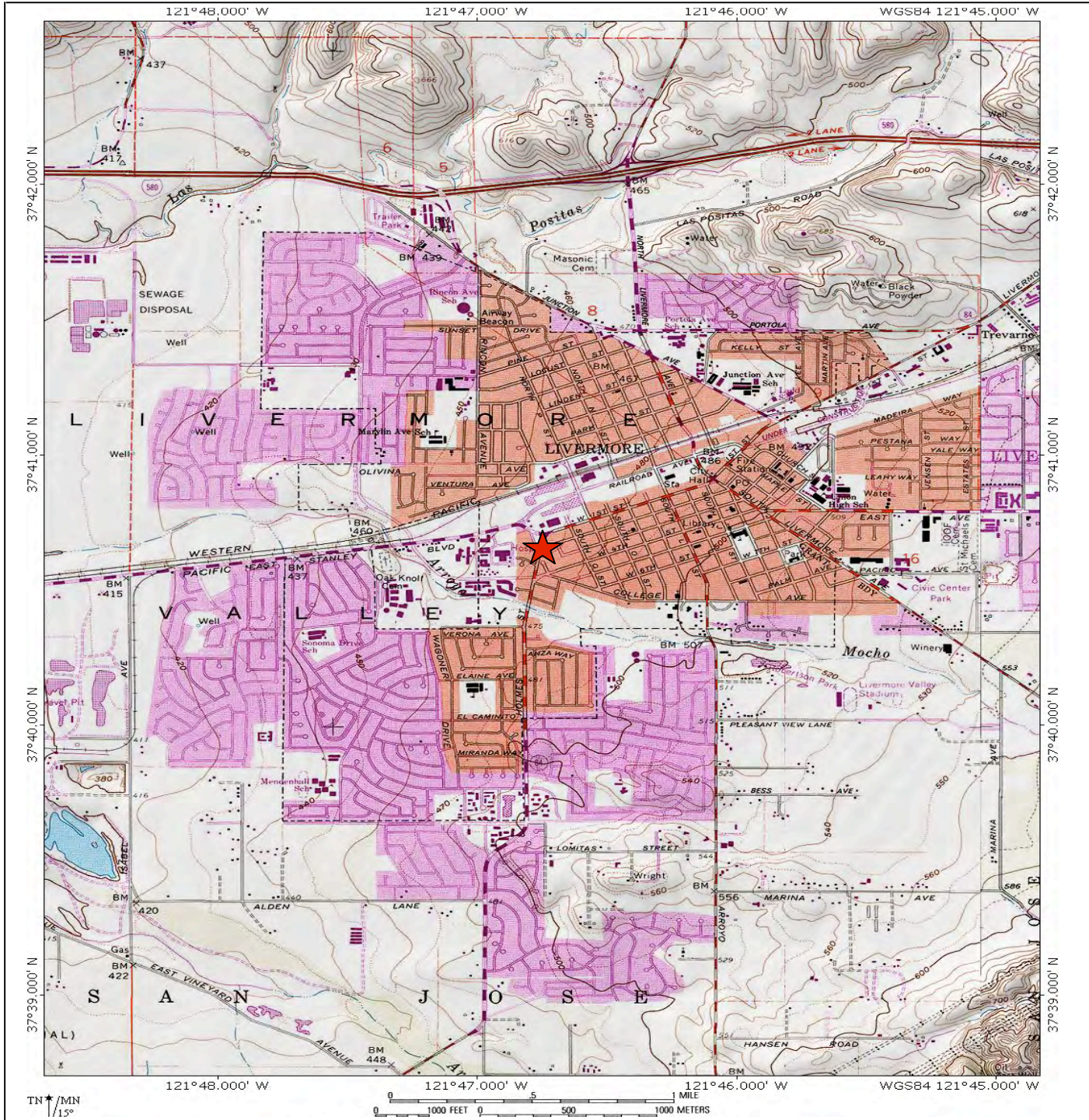
- Table 1, Groundwater Elevation Data
- Table 2, Groundwater Analytical Results

List of Appendices

- Appendix A, Groundwater Monitoring Field Protocol
- Appendix B, Groundwater Sampling Field Logs
- Appendix C, Certified Analytical Report and Chain-of-Custody

cc: Jerry Wickam, ACEHS

FIGURES 1 - 13



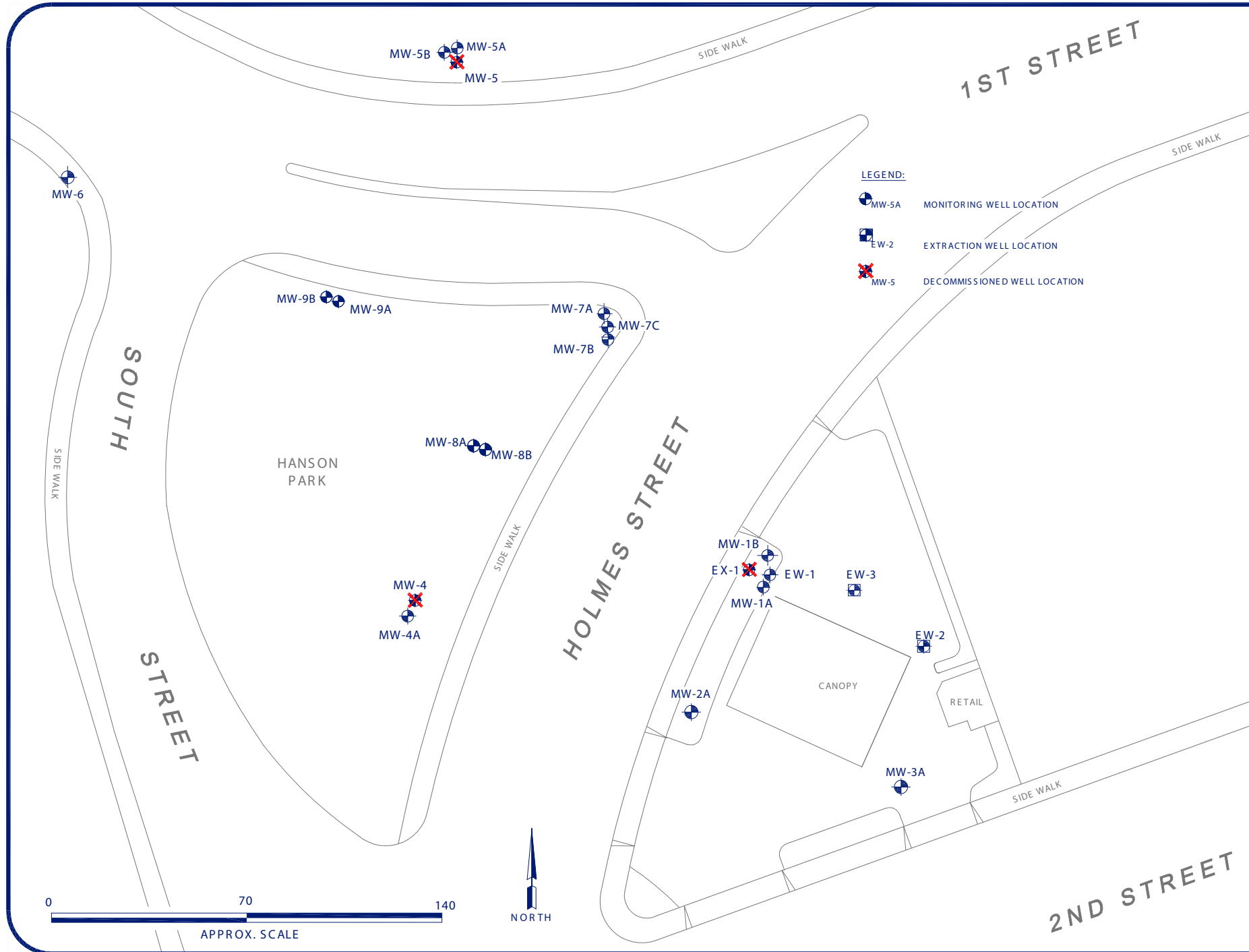
**Vicinity Map**  
 Livermore Gas and Minimart  
 160 Holmes Street  
 Livermore, California

Figure 1

6/13/12

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 Santa Cruz, California  
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General Notes

stamp

160 HOLMES STREET, LIVERMORE, CALIFORNIA  
GROUNDWATER MONITORING REPORT

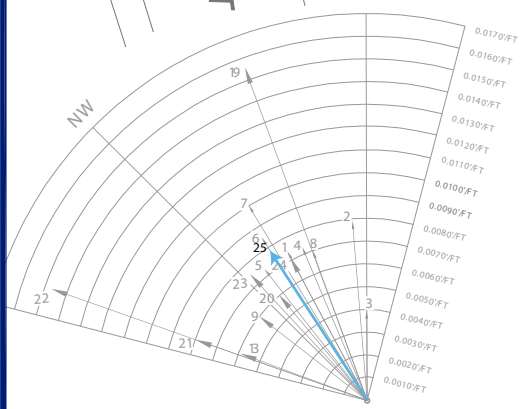
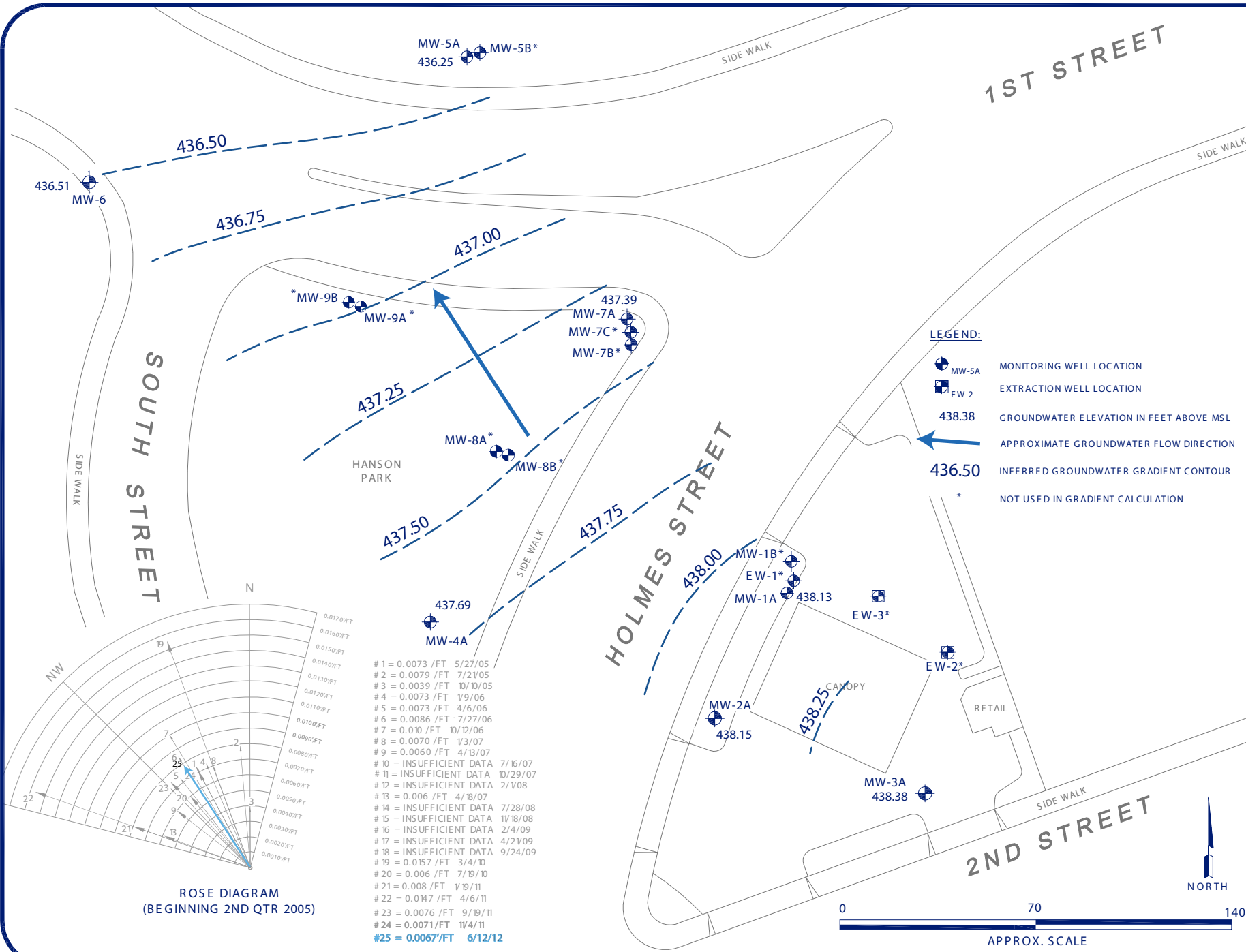
PREPARED BY : **ALTERRA**

0	DRAFT/REVIEW	6/22
No.	Revision/Issue	Date

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Client Name and Address:  
**SITE PLAN**  
SECOND QUARTER 2012  
GROUNDWATER MONITORING  
REPORT

Project	160	Sheet	<b>FIGURE</b> <b>2</b>
Date	6-22-12		
Scale	see drawing		



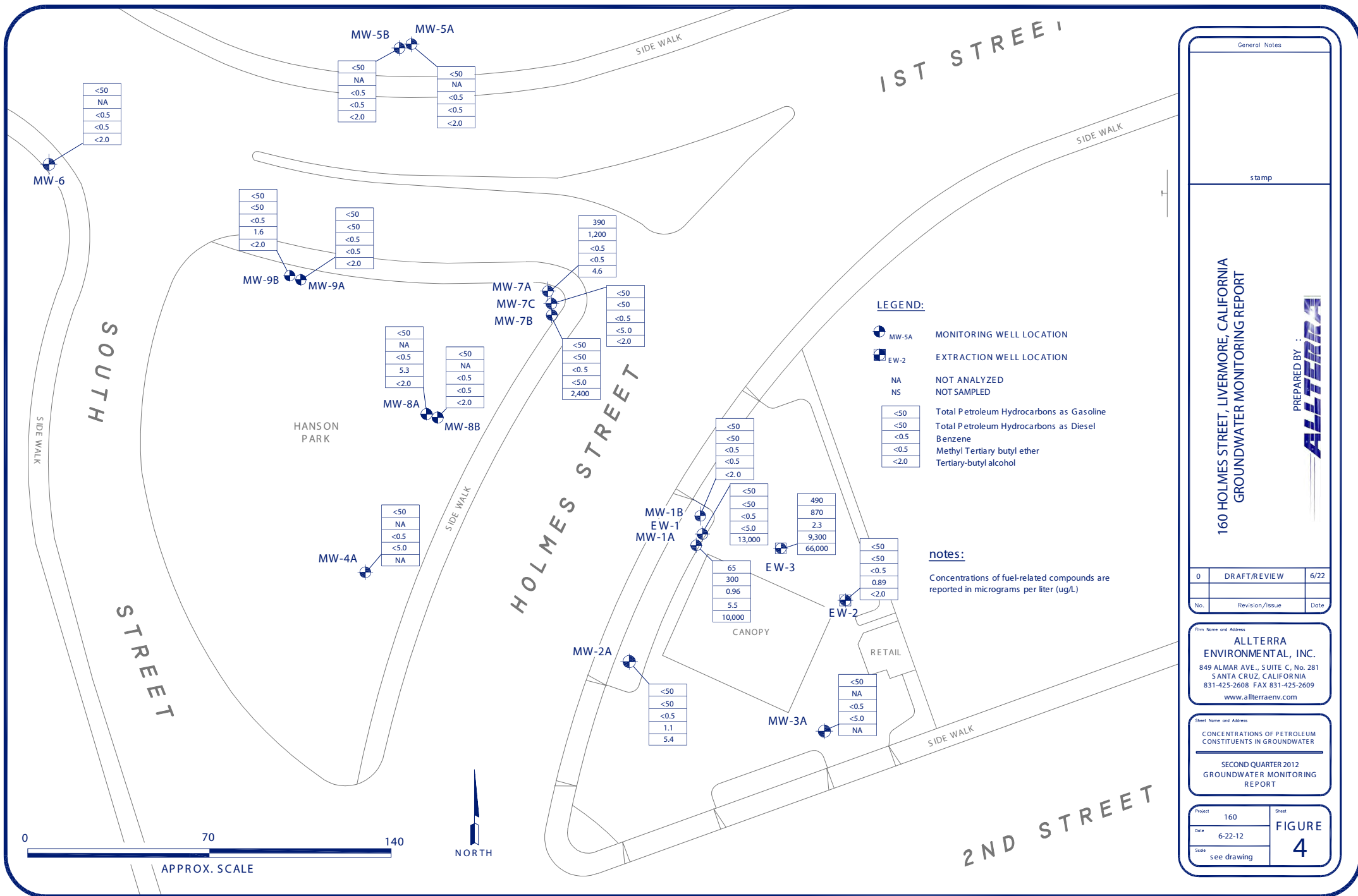
ROSE DIAGRAM  
(BEGINNING 2ND QTR 2005)

# 1 = 0.0073 /FT	5/27/05
# 2 = 0.0079 /FT	7/2/05
# 3 = 0.0039 /FT	10/10/05
# 4 = 0.0073 /FT	1/9/06
# 5 = 0.0073 /FT	4/6/06
# 6 = 0.0086 /FT	7/27/06
# 7 = 0.010 /FT	10/12/06
# 8 = 0.0070 /FT	1/3/07
# 9 = 0.0060 /FT	4/13/07
# 10 = INSUFFICIENT DATA	7/16/07
# 11 = INSUFFICIENT DATA	10/29/07
# 12 = INSUFFICIENT DATA	2/1/08
# 13 = 0.006 /FT	4/18/07
# 14 = INSUFFICIENT DATA	7/28/08
# 15 = INSUFFICIENT DATA	11/18/08
# 16 = INSUFFICIENT DATA	2/4/09
# 17 = INSUFFICIENT DATA	4/21/09
# 18 = INSUFFICIENT DATA	9/24/09
# 19 = 0.0157 /FT	3/4/10
# 20 = 0.006 /FT	7/19/10
# 21 = 0.008 /FT	1/19/11
# 22 = 0.0147 /FT	4/6/11
# 23 = 0.0076 /FT	9/19/11
# 24 = 0.0071/FT	11/4/11
#25 = 0.0067/FT	6/12/12

- LEGEND:**
- MW-5A MONITORING WELL LOCATION
  - EW-2 EXTRACTION WELL LOCATION
  - 438.38 GROUNDWATER ELEVATION IN FEET ABOVE MSL
  - APPROXIMATE GROUNDWATER FLOW DIRECTION
  - 436.50 INFERRED GROUNDWATER GRADIENT CONTOUR
  - \* NOT USED IN GRADIENT CALCULATION



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<p>160 HOLMES STREET, LIVERMORE, CALIFORNIA SOIL AND GROUNDWATER INVESTIGATION AND REMEDIATION PROJECT</p> <p style="text-align: right;">PREPARED BY : <b>ALLTERRA</b></p>		
0	DRAFT/REVIEW	6/22
No.	Revision/Issue	Date
Firm Name and Address <b>ALLTERRA ENVIRONMENTAL, INC.</b> 849 ALMAR AVE., SUITE C. NO. 281 SANTA CRUZ, CALIFORNIA 831-425-2608 FAX 831-425-2609 <a href="http://www.allterraenv.com">www.allterraenv.com</a>		
Sheet Name and Address SHALLOW GROUNDWATER POTENTIOMETRIC MAP FOR 6-12-12		
SECOND QUARTER 2012 GROUNDWATER MONITORING REPORT		
Project	160	Sheet
Date	6/22/12	FIGURE
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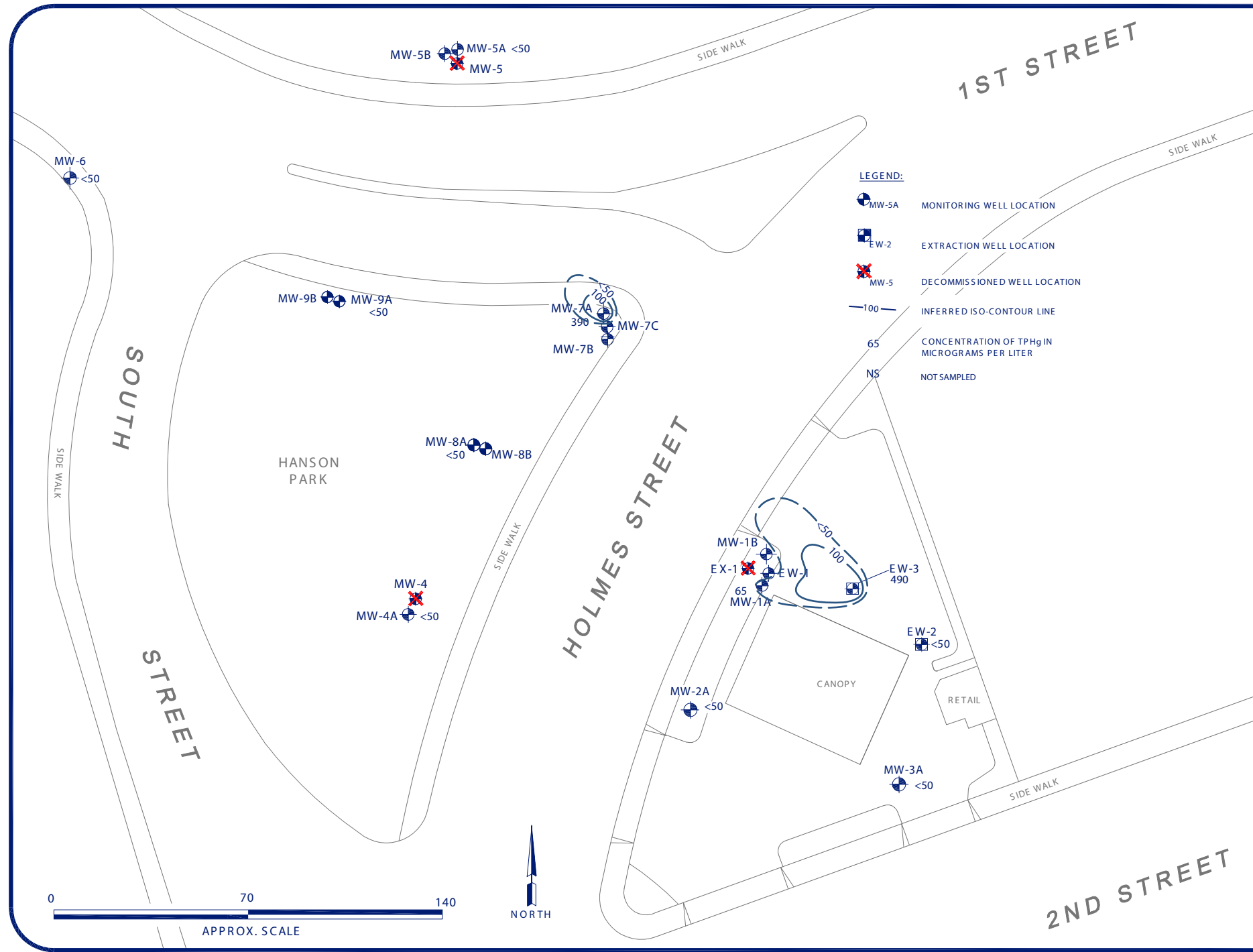
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CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN GROUNDWATER

SECOND QUARTER 2012  
GROUNDWATER MONITORING REPORT

Project	160	Sheet	FIGURE 4
Date	6-22-12		
Scale	see drawing		



- LEGEND:**
- MW-5A MONITORING WELL LOCATION
  - EW-2 EXTRACTION WELL LOCATION
  - MW-5 DECOMMISSIONED WELL LOCATION
  - 100 INFERRED ISO-CONTOUR LINE
  - 65 CONCENTRATION OF TPHg IN MICROGRAMS PER LITER
  - NS NOT SAMPLED



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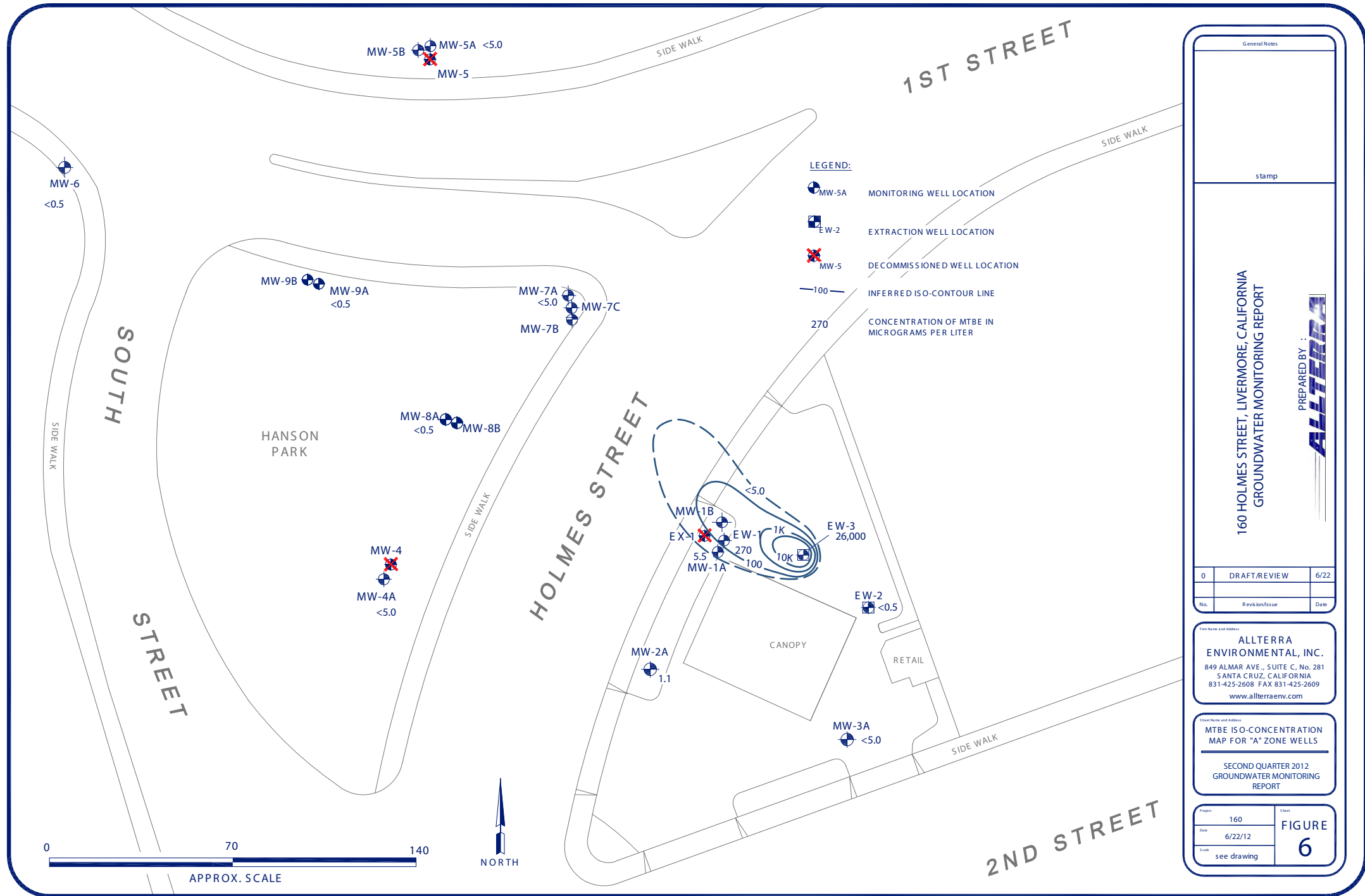
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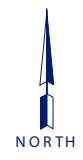
Sheet Name and Address:  
 TPHg ISO-CONCENTRATION  
 MAP FOR "A" ZONE WELLS

SECOND QUARTER 2012  
 GROUNDWATER MONITORING  
 REPORT

Project	160	Sheet	FIGURE
Date	6/22/12		5
Scale	see drawing		



- LEGEND:**
- MW-5A MONITORING WELL LOCATION
  - EW-2 EXTRACTION WELL LOCATION
  - MW-5 DECOMMISSIONED WELL LOCATION
  - 100 INFERRED ISO-CONTOUR LINE
  - 270 CONCENTRATION OF MTBE IN MICROGRAMS PER LITER



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GROUNDWATER MONITORING REPORT

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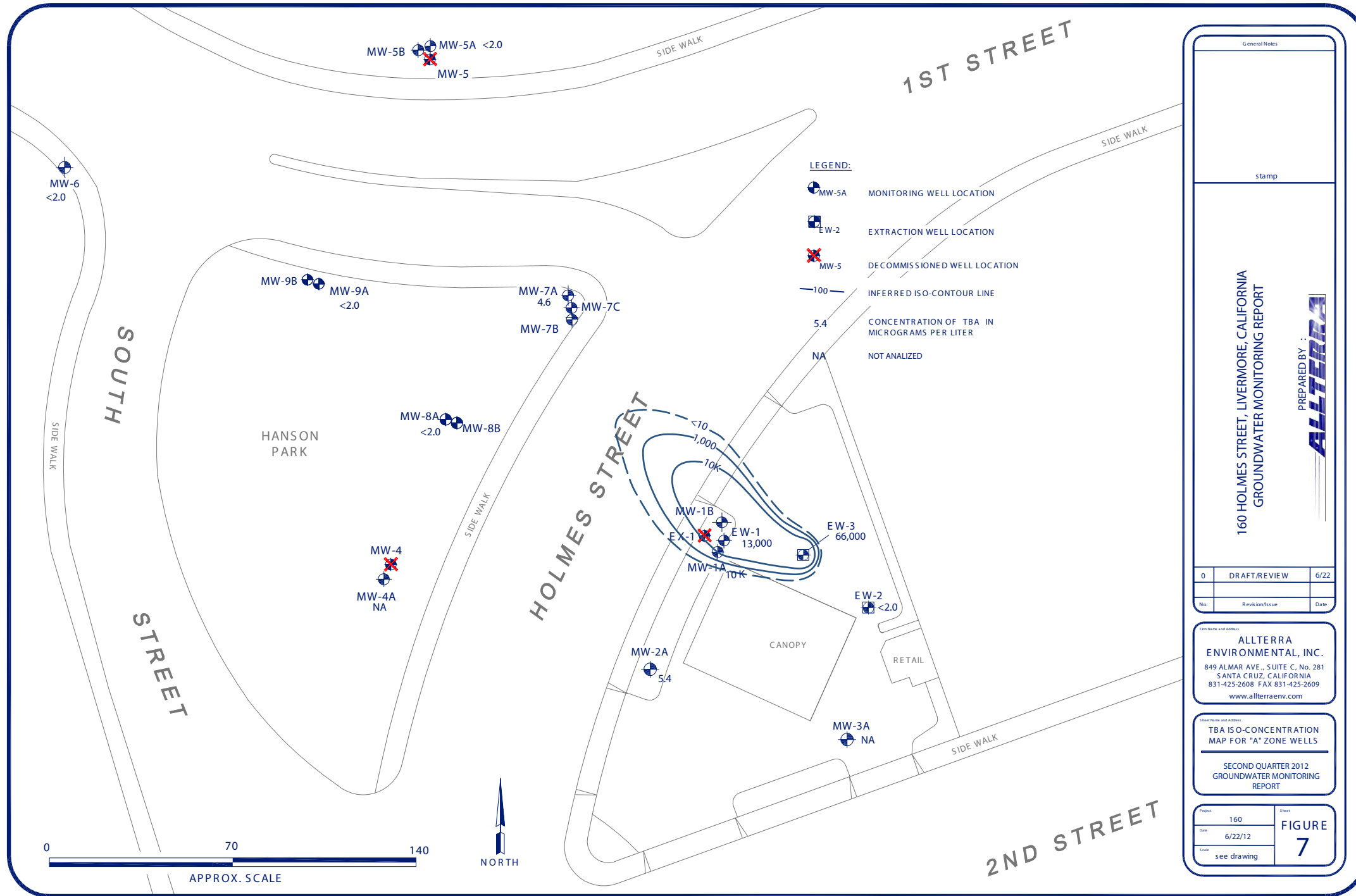
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Sheet Name and Address  
MTBE ISO-CONCENTRATION  
MAP FOR "A" ZONE WELLS

SECOND QUARTER 2012  
GROUNDWATER MONITORING  
REPORT

Project 160	Sheet FIGURE
Date 6/22/12	6
Scale see drawing	



- LEGEND:**
- MW-5A MONITORING WELL LOCATION
  - EW-2 EXTRACTION WELL LOCATION
  - MW-5 DECOMMISSIONED WELL LOCATION
  - 100 INFERRED ISO-CONTOUR LINE
  - 5.4 CONCENTRATION OF TBA IN MICROGRAMS PER LITER
  - NA NOT ANALYZED



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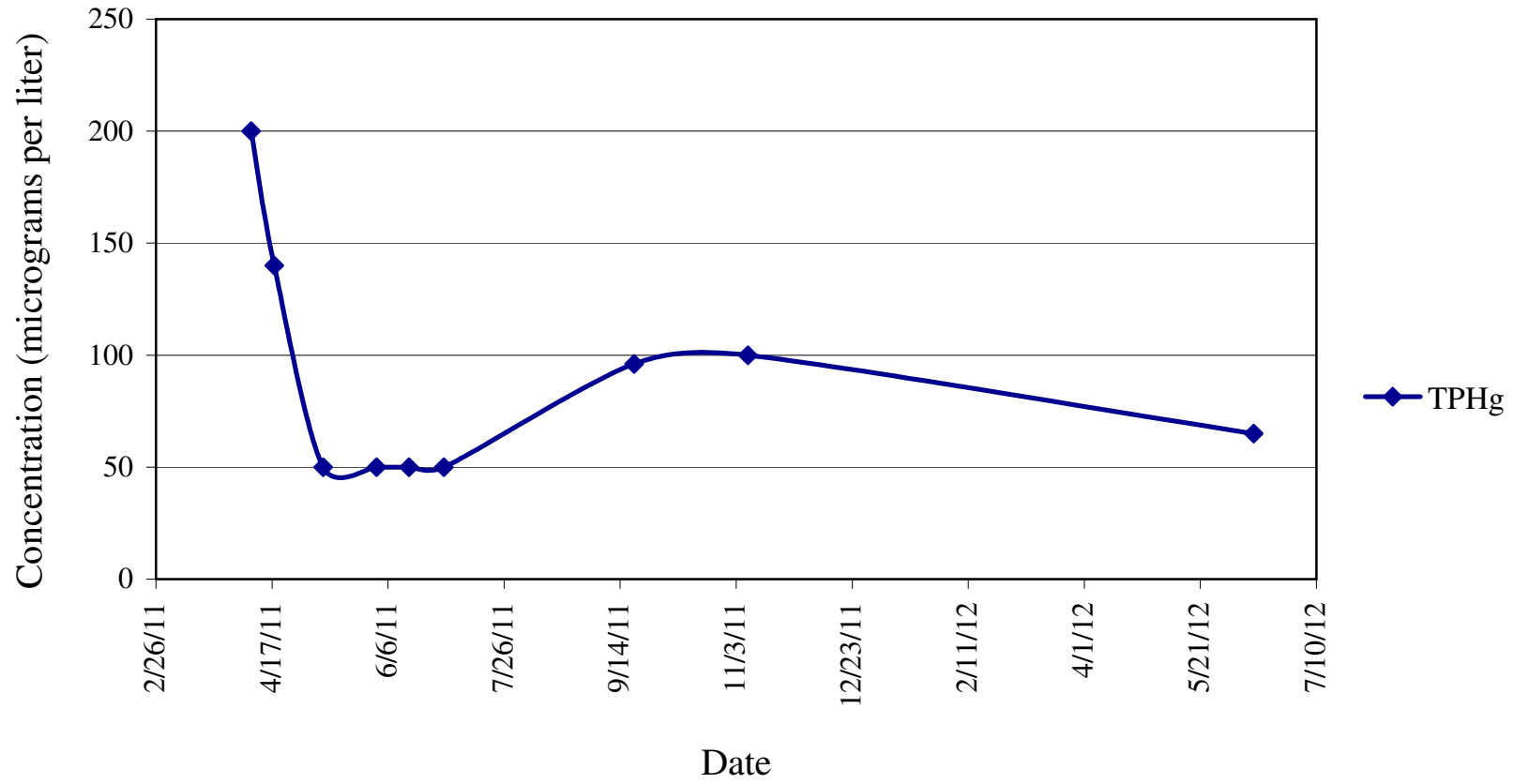
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Sheet Name and Address  
**TBA ISO-CONCENTRATION MAP FOR "A" ZONE WELLS**

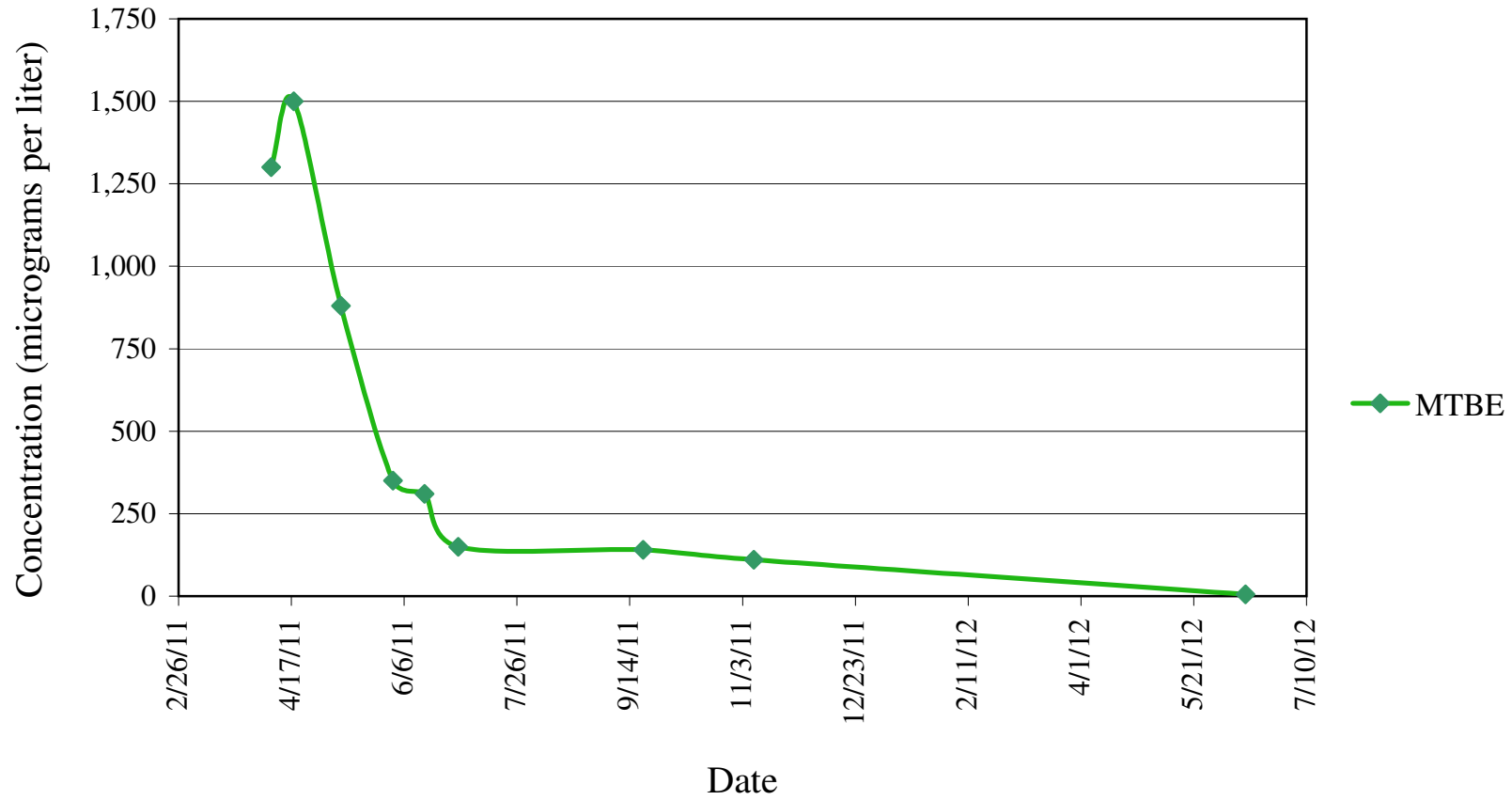
SECOND QUARTER 2012  
 GROUNDWATER MONITORING REPORT

Project	160	Sheet	FIGURE <b>7</b>
Date	6/22/12		
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**Figure 8**  
**MW-1A TPHg Concentrations in Groundwater**

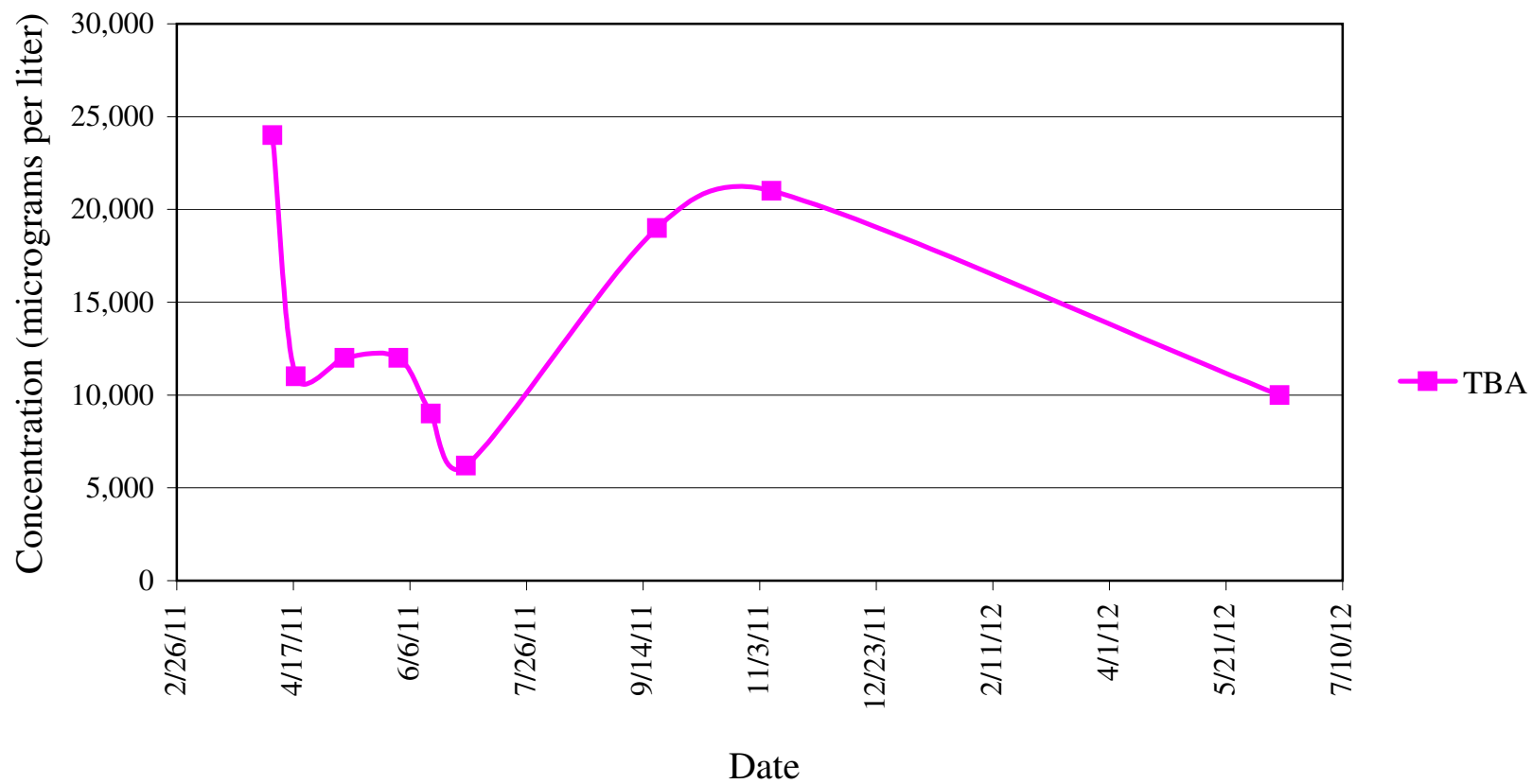


**Figure 9**  
**MW-1A MTBE Concentrations in Groundwater**

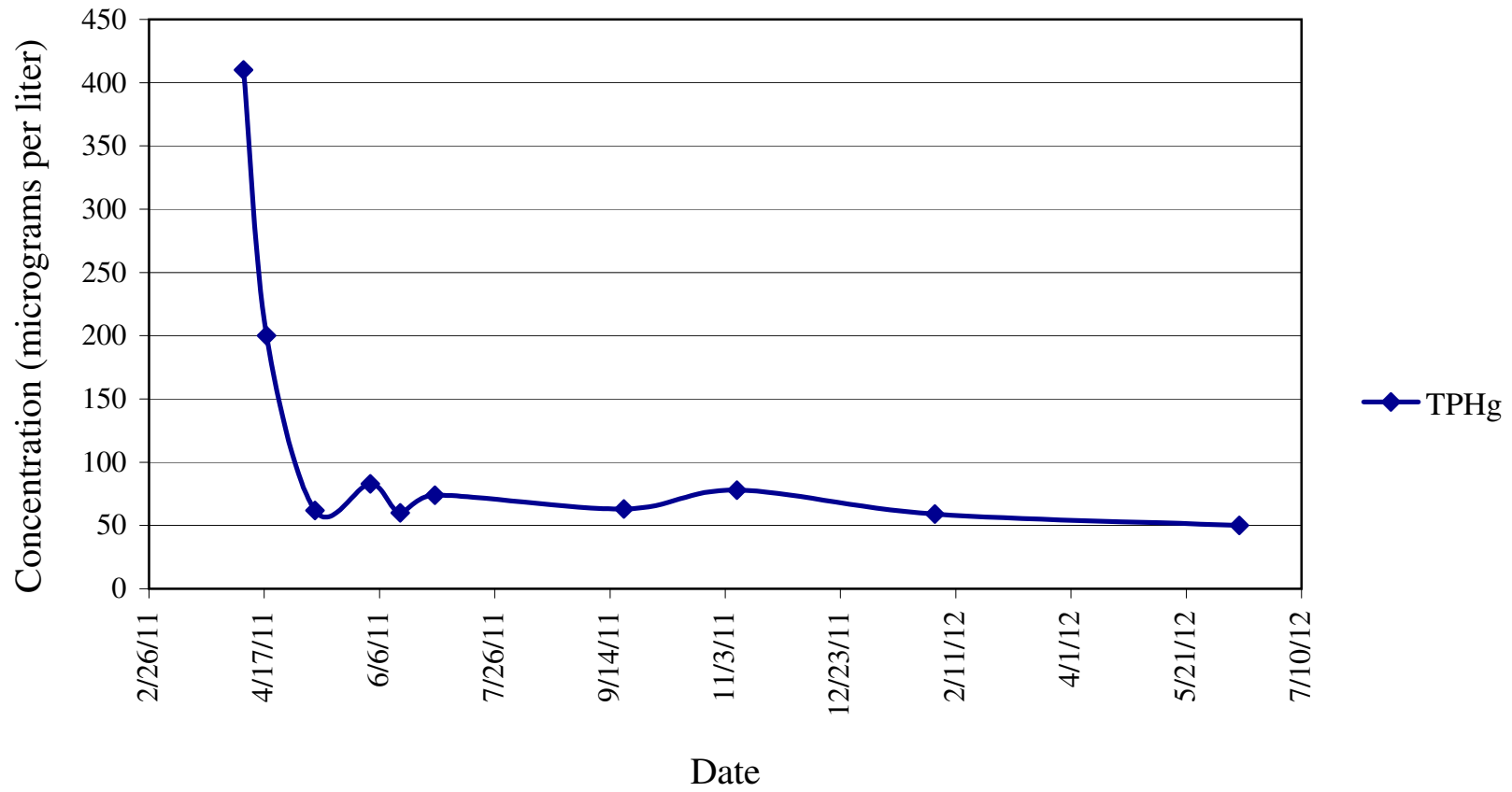




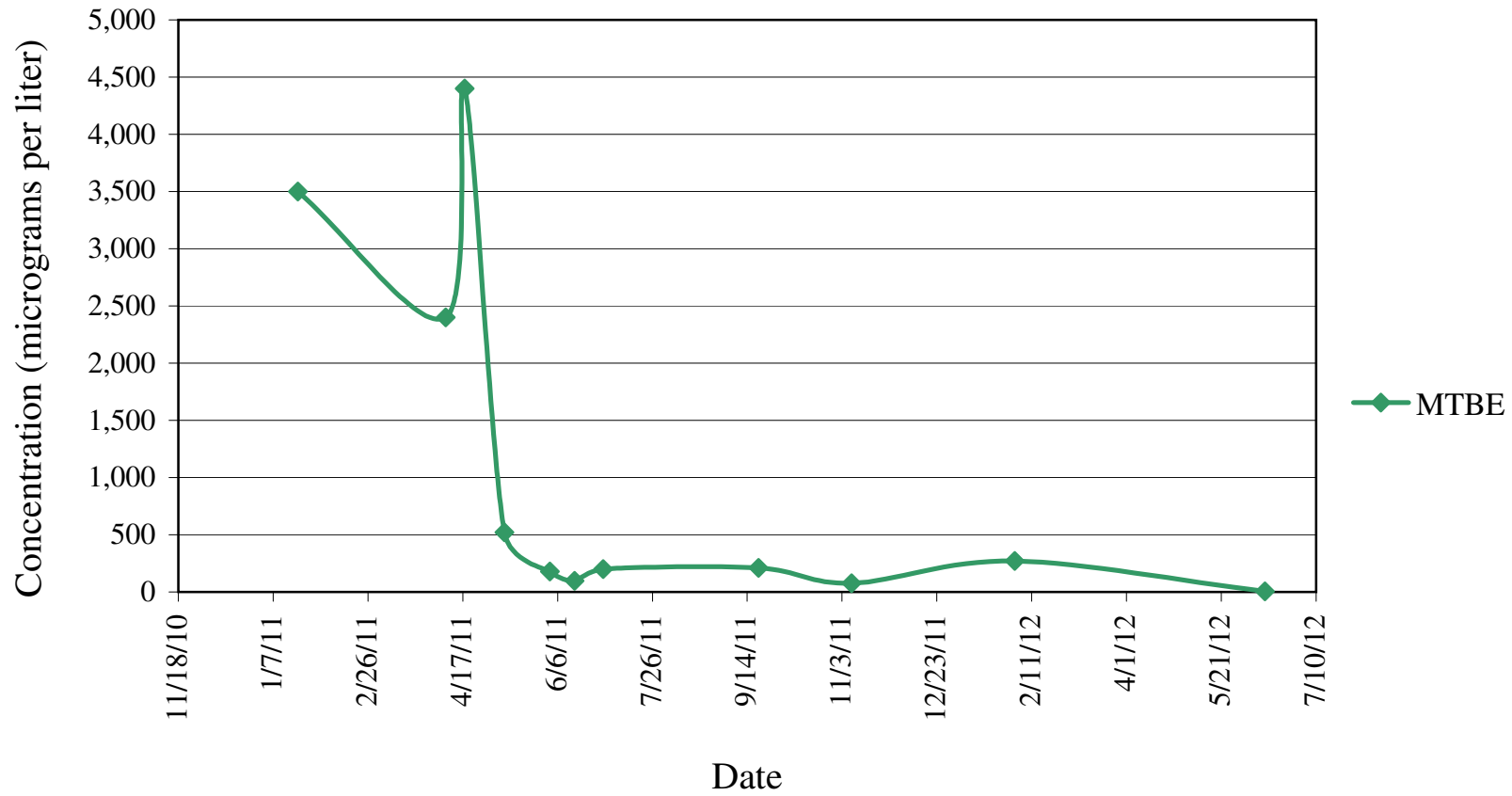
**Figure 10**  
**MW-1A TBA Concentrations in Groundwater**



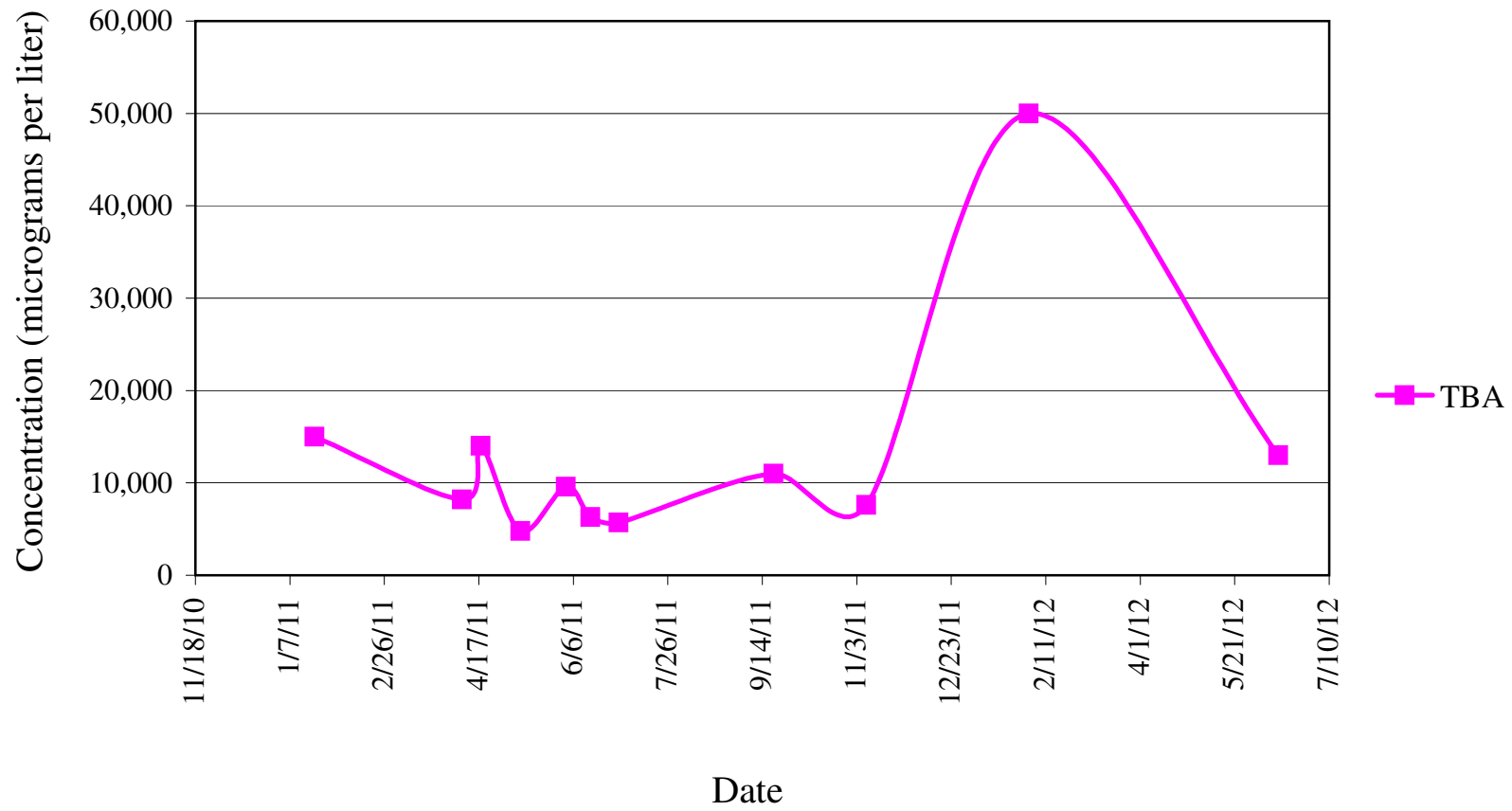
**Figure 11**  
**EW-1 TPHg Concentrations in Groundwater**



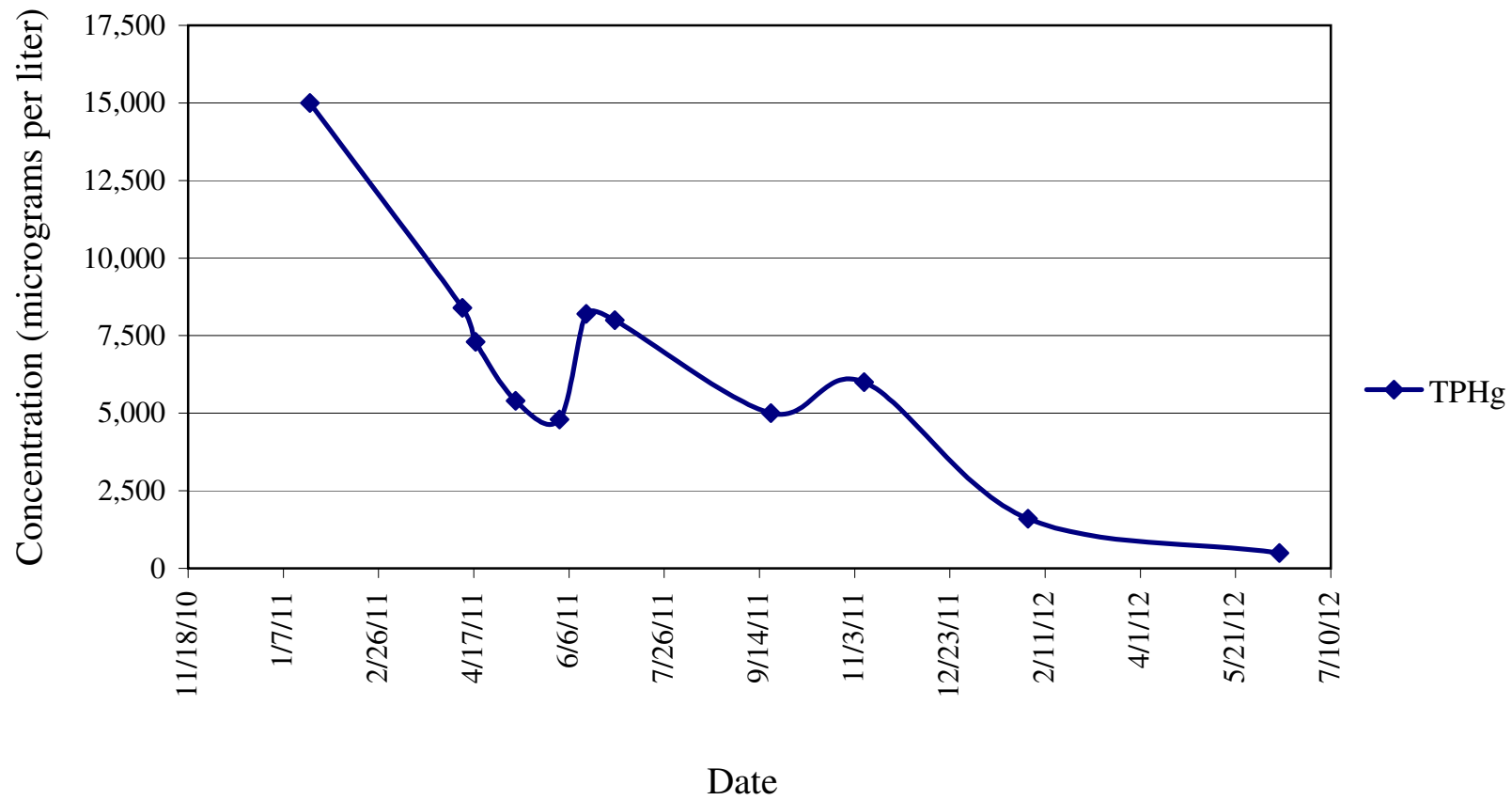
**Figure 12**  
**EW-1 MTBE Concentrations in Groundwater**



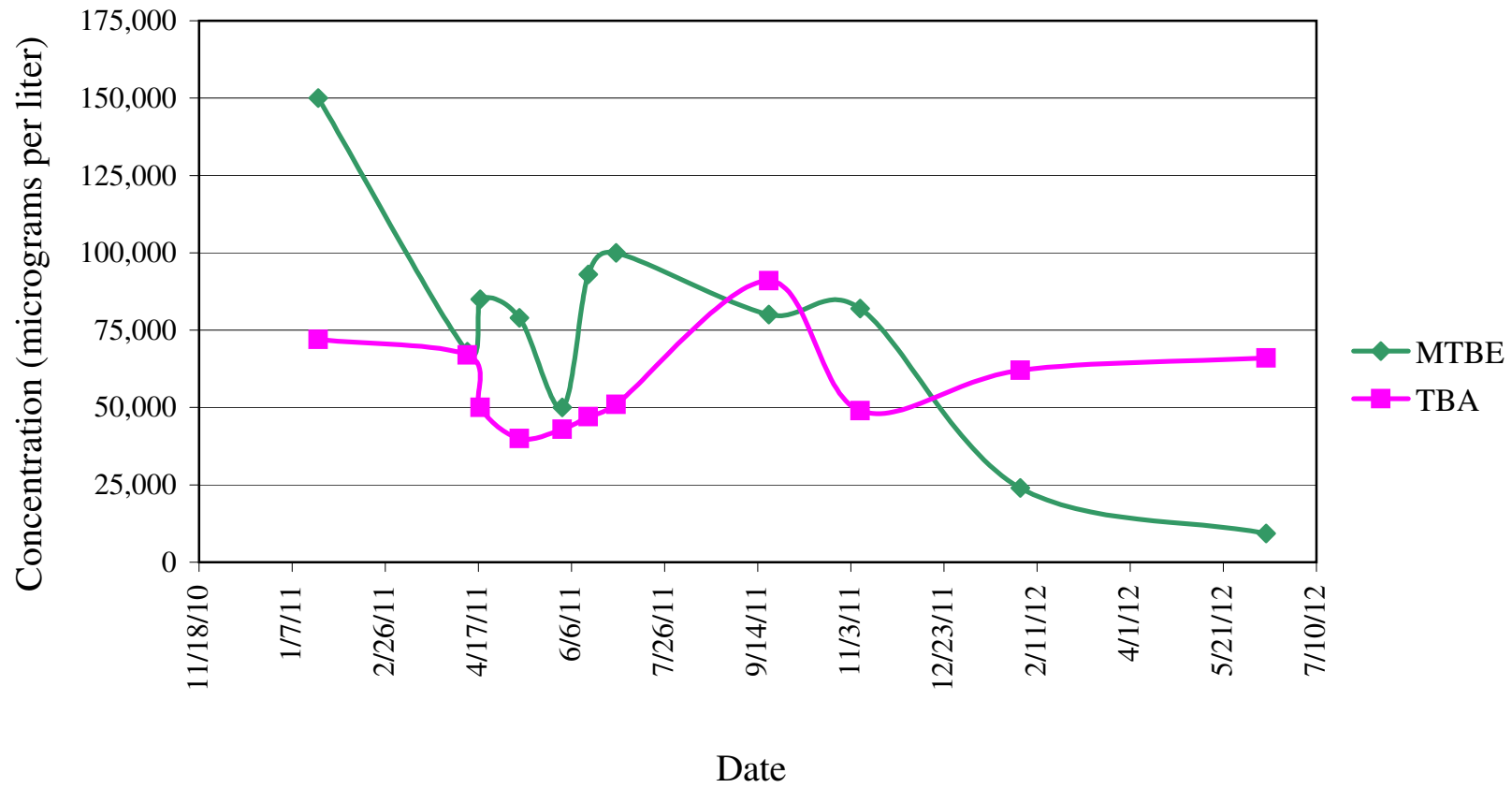
**Figure 13**  
**EW-1 TBA Concentrations in Groundwater**



**Figure 14**  
**EW-3 TPHg Concentrations in Groundwater**



**Figure 15**  
**EW-3 MTBE and TBA Concentrations in Groundwater**



**APPENDIX A**  
**Groundwater Monitoring Field Protocol**

## **Appendix A**

### Groundwater Monitoring Protocol

#### Well Monitoring and Sample Collection

A Teflon bailer or submersible pump was used to purge a minimum of three well volumes of groundwater from each well. After each well volume is purged, field parameters such as pH, temperature, and conductivity are recorded. Wells are purged until field parameters have stabilized or a maximum of ten (10) well volumes of groundwater have been removed. When possible, purge rates will not exceed the recharge rate for the well. However, if the well yield is low and the well was dewatered, the well is allowed to recharge to 80% of its original volume prior to sample collection. Field parameter measurements and pertinent qualitative observations, such as groundwater color and odor, are recorded in Groundwater Sampling Field Logs. Groundwater samples are collected in appropriate bottles and stored on ice for delivery, under chain-of-custody documentation, to a state-certified laboratory for analysis.

#### Equipment Decontamination

All drilling, sampling, and well development equipment was cleaned in a solution of laboratory grade detergent and distilled water or steam cleaned before use at each sampling point.

#### Field Personnel

During groundwater sampling activities, sampling personnel will wear pertinent attire to minimize risks to health and safety. Field personnel will also use a pair of clean, powderless, surgical gloves for each successive sampling point. Used surgical gloves will be placed into waste barrels for future disposal.

#### Waste Disposal

Water generated during well purging and sampling activities will be placed into DOT-approved 55-gallon waste drums. Waste drums will be temporarily stored on-site pending proper disposal of wastewater to an approved transport, storage, and disposal (TSD) facility.



**Table 1**  
**Groundwater Elevation Data**  
160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)
MW-1*	8/11/00	465.03	15-30	NM	NC
	10/19/00	465.03	15-30	21.94	443.09
	2/22/01	465.03	15-30	22.91	442.12
	5/30/01	465.03	15-30	Dry	NC
	11/14/01	465.03	15-30	Dry	NC
	5/7/02	465.03	15-30	Dry	NC
	9/11/02	465.03	15-30	26.16	438.87
	12/1/02	465.03	15-30	27.55	437.48
	3/14/03	465.03	15-30	22.63	442.40
	6/25/03	465.03	15-30	22.10	442.93
	9/16/03	465.03	15-30	24.91	440.12
	12/22/03	465.03	15-30	21.75	443.28
	3/10/04	465.03	15-30	17.45	447.58
	6/15/04	465.03	15-30	22.38	442.65
	9/17/04	465.03	15-30	25.61	439.42
	12/10/04	465.03	15-30	22.18	442.85
	3/2/05	465.03	15-30	16.95	448.08
	5/27/05	465.03	15-30	18.42	446.61
	7/21/05	465.03	15-30	21.38	443.65
	10/10/05	465.03	15-30	22.49	442.54
1/9/06	465.03	15-30	18.05	446.98	
MW-1A*	4/6/06	465.03	15-30	15.60	449.43
	7/27/06	465.03	15-30	22.42	442.61
	10/12/06	465.03	15-30	23.46	441.57
	1/3/07	465.03	15-30	21.00	444.03
	4/13/07	465.03	15-30	23.24	441.79
	7/16/07	465.03	15-30	Dry	NC
	10/29/07	465.03	15-30	Dry	NC
	2/1/08	465.03	15-30	Dry	NC
	4/18/08	465.03	15-30	27.34	437.69
	7/28/08	465.03	15-30	Dry	NC
	11/18/08	465.03	15-30	Dry	NC
	2/4/09	465.03	15-30	Dry	NC
	4/21/09	465.03	15-30	Dry	NC
	9/24/09	465.03	15-30	35.00	430.03
	3/4/10	465.03	15-30	28.05	436.98
	7/19/10	465.03	15-30	23.85	441.18
	1/19/11	465.03	15-30	23.12	441.91
	4/6/11	465.03	15-30	18.40	446.63
	4/18/11	465.03	15-30	18.70	446.33
	5/9/11	465.03	15-30	19.26	445.77
	6/1/11	465.03	15-30	20.10	444.93
	6/15/11	465.03	15-30	20.44	444.59
	6/30/11	465.03	15-30	20.73	444.30
9/19/11	465.03	15-30	22.91	442.12	
11/4/11	465.03	15-30		#VALUE!	
2/1/12	465.03	15-30	Dry	NC	
<b>6/13/12</b>	<b>465.03</b>	<b>15-30</b>	<b>26.90</b>	<b>438.13</b>	
MW-1B**	4/6/06	465.02	50-55	15.59	449.43
	7/27/06	465.02	50-55	22.47	442.55
	10/12/06	465.02	50-55	23.51	441.51
	1/3/07	465.02	50-55	21.04	443.98
	4/13/07	465.02	50-55	23.30	441.72
	7/16/07	465.02	50-55	35.57	429.45
	10/29/07	465.02	50-55	47.32	417.70
	2/1/08	465.02	50-55	33.90	431.12
	4/18/08	465.02	50-55	27.35	437.67
	7/28/08	465.02	50-55	44.03	420.99
	11/18/08	465.02	50-55	48.50	416.52
	2/4/09	465.02	50-55	46.83	418.19
	4/21/09	465.02	50-55	37.10	427.92
	9/24/09	465.02	50-55	37.76	427.26
	3/4/10	465.02	50-55	27.41	437.61
	7/19/10	465.02	50-55	NM	NC
	1/19/11	465.02	50-55	23.10	441.92
	4/6/11	465.02	50-55	18.40	446.62
	4/18/11	465.02	50-55	18.60	446.42
	5/9/11	465.02	50-55	19.11	445.91
	6/1/11	465.02	50-55	20.10	444.92
	6/15/11	465.02	50-55	20.44	444.58
	6/30/11	465.02	50-55	20.74	444.28
9/19/11	465.02	50-55	22.92	442.10	
11/4/11	465.02	50-55	22.95	442.07	
2/2/12	465.02	50-55	33.00	432.02	
<b>6/13/12</b>	<b>465.02</b>	<b>50-55</b>	<b>26.99</b>	<b>438.03</b>	

**Table 1**  
**Groundwater Elevation Data**  
160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)
MW-2*	8/11/00	464.94	15-30	NM	NC
	10/19/00	464.94	15-30	21.80	443.14
	2/22/01	464.94	15-30	22.87	442.07
	5/30/01	464.94	15-30	Dry	NC
	11/14/01	464.94	15-30	Dry	NC
	5/7/02	464.94	15-30	26.70	438.24
	9/11/02	464.94	15-30	25.96	438.98
	12/11/02	464.94	15-30	27.56	437.38
	3/14/03	464.94	15-30	22.41	442.53
	6/25/03	464.94	15-30	21.97	442.97
	9/16/03	464.94	15-30	24.70	440.24
	12/22/03	464.94	15-30	21.58	443.36
	3/10/04	464.94	15-30	17.31	447.63
	6/15/04	464.94	15-30	22.18	442.76
	9/17/04	464.94	15-30	25.44	439.50
	12/10/04	464.94	15-30	22.00	442.94
	3/2/05	464.94	15-30	16.75	448.19
	5/27/05	464.94	15-30	18.29	446.65
	7/21/05	464.94	15-30	20.46	444.48
	10/10/05	464.94	15-30	22.30	442.64
1/9/06	464.94	15-30	17.67	447.27	
MW-2A*	4/6/06	464.94	15-30	15.47	449.47
	7/27/06	464.94	15-30	22.27	442.67
	10/12/06	464.94	15-30	23.35	441.59
	1/3/07	464.94	15-30	20.90	444.04
	4/13/07	464.94	15-30	23.16	441.78
	7/16/07	464.94	15-30	Dry	NC
	10/29/07	464.94	15-30	Dry	NC
	2/1/08	464.94	15-30	Dry	NC
	4/18/08	464.94	15-30	27.26	437.68
	7/28/08	464.94	15-30	Dry	NC
	11/18/08	464.94	15-30	Dry	NC
	2/4/09	464.94	15-30	Dry	NC
	4/21/09	464.94	15-30	Dry	NC
	9/24/09	464.94	15-30	Dry	NC
	3/4/10	464.94	15-30	25.12	439.82
	7/20/10	464.94	15-30	25.90	439.04
	1/19/11	464.94	15-30	25.30	439.64
	4/6/11	464.94	15-30	18.30	446.64
	9/19/11	464.94	15-30	22.45	442.49
	11/4/11	464.94	15-30	22.77	442.17
2/1/12	464.94	15-30	Dry	NC	
<b>6/12/12</b>	<b>464.94</b>	<b>15-30</b>	<b>26.79</b>	<b>438.15</b>	
MW-3*	8/11/00	465.84	15-30	NM	NC
	10/19/00	465.84	15-30	22.45	443.39
	2/22/01	465.84	15-30	23.51	442.33
	5/30/01	465.84	15-30	Dry	NC
	11/14/01	465.84	15-30	Dry	NC
	5/7/02	465.84	15-30	Dry	NC
	9/11/02	465.84	15-30	26.61	439.23
	12/11/02	465.84	15-30	28.18	437.66
	3/14/03	465.84	15-30	23.04	442.80
	6/25/03	465.84	15-30	22.59	443.25
	9/16/03	465.84	15-30	25.33	440.51
	12/22/03	465.84	15-30	22.37	443.47
	3/10/04	465.84	15-30	17.88	447.96
	6/15/04	465.84	15-30	22.82	443.02
	9/17/04	465.84	15-30	26.09	439.75
	12/10/04	465.84	15-30	22.65	443.19
	3/5/05	465.84	15-30	17.33	448.51
	5/27/05	465.84	15-30	18.89	446.95
	7/21/05	465.84	15-30	21.10	444.74
	10/10/05	465.84	15-30	22.94	442.90
1/9/06	465.84	15-30	18.24	447.60	

**Table 1**  
**Groundwater Elevation Data**  
160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)
MW-3A*	4/6/06	465.84	15-30	16.02	449.82
	7/27/06	465.84	15-30	22.90	442.94
	10/12/06	465.84	15-30	23.99	441.85
	1/3/07	465.84	15-30	21.52	444.32
	4/13/07	465.84	15-30	23.78	442.06
	7/16/07	465.84	15-30	Dry	NC
	10/29/07	465.84	15-30	Dry	NC
	2/1/08	465.84	15-30	Dry	NC
	4/18/08	465.84	15-30	27.86	437.98
	7/28/08	465.84	15-30	Dry	NC
	11/18/08	465.84	15-30	Dry	NC
	2/4/09	465.84	15-30	Dry	NC
	4/21/09	465.84	15-30	Dry	NC
	9/24/09	465.84	15-30	Dry	NC
	3/4/10	465.84	15-30	27.95	437.89
	7/19/10	465.84	15-30	26.55	439.29
	1/19/11	465.84	15-30	23.63	442.21
	4/6/11	465.84	15-30	18.90	446.94
	9/19/11	465.85	15-30	23.40	442.45
	11/4/11	465.85	15-30	23.60	442.25
2/1/12	465.85	15-30	Dry	NC	
<b>6/12/12</b>	<b>465.85</b>	<b>15-30</b>	<b>27.47</b>	<b>438.38</b>	
MW-4***	11/14/01	465.15	15-30	33.84	431.31
	5/7/02	465.15	15-30	26.75	438.40
	9/11/02	465.15	15-30	26.66	438.49
	12/11/02	465.15	15-30	28.39	436.76
	3/14/03	465.15	15-30	23.14	442.01
	6/25/03	465.15	15-30	22.72	442.43
	9/16/03	465.15	15-30	25.39	439.76
	12/22/03	465.15	15-30	22.42	442.73
	3/4/04	465.15	15-30	18.20	446.95
	6/15/04	465.15	15-30	22.95	442.20
	9/17/04	465.15	15-30	26.12	439.03
	12/10/04	465.15	15-30	22.73	442.42
	3/2/05	465.15	15-30	17.60	447.55
	5/27/05	465.15	15-30	19.14	446.01
	7/21/05	465.15	15-30	21.25	443.90
	10/10/05	465.15	15-30	22.85	442.30
	1/9/06	465.15	15-30	18.54	446.61
	MW-4A**	4/6/06	464.96	15-30	16.19
7/27/06		464.96	15-30	22.87	442.09
10/12/06		464.96	15-30	23.90	441.06
1/3/07		464.96	15-30	21.52	443.44
4/13/07		464.96	15-30	23.78	441.18
7/16/07		464.96	15-30	Dry	NC
10/29/07		464.96	15-30	Dry	NC
2/1/08		464.96	15-30	Dry	NC
4/18/08		464.96	15-30	27.91	437.05
7/28/08		464.96	15-30	Dry	NC
11/18/08		464.96	15-30	Dry	NC
2/4/09		464.96	15-30	Dry	NC
9/24/09		464.96	15-30	Dry	NC
4/21/09		464.96	15-30	Dry	NC
3/4/10		464.96	15-30	25.66	439.30
7/20/10		464.96	15-30	24.25	440.71
1/19/11		464.96	15-30	23.64	441.32
4/6/11		464.96	15-30	18.90	446.06
9/19/11	464.96	15-30	23.43	441.53	
11/4/11	464.96	15-30	23.40	441.56	
2/1/12	464.96	15-30	Dry	NC	
<b>6/12/12</b>	<b>464.96</b>	<b>15-30</b>	<b>27.27</b>	<b>437.69</b>	

**Table 1**  
**Groundwater Elevation Data**  
160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)
MW-5***	11/14/01	464.65	20-50	34.94	429.71
	5/7/02	464.65	20-50	27.90	436.75
	9/11/02	464.65	20-50	27.99	436.66
	12/11/02	464.65	20-50	29.50	435.15
	3/14/03	464.65	20-50	24.26	440.39
	6/25/03	464.65	20-50	24.01	440.64
	9/16/03	464.65	20-50	26.83	437.82
	12/22/03	464.65	20-50	23.68	440.97
	3/10/04	464.65	20-50	19.22	445.43
	6/15/04	464.65	20-50	24.20	440.45
	9/17/04	464.65	20-50	27.68	436.97
	12/10/04	464.65	20-50	23.93	440.72
	3/2/05	464.65	20-50	18.56	446.09
	5/27/05	464.65	20-50	20.15	444.50
	7/21/05	464.65	20-50	22.55	442.10
	10/10/05	464.65	20-50	23.35	441.30
	1/9/06	464.65	20-50	19.53	445.12
	MW-5A**	4/6/06	464.64	20-35	17.35
7/27/06		464.64	20-35	24.40	440.24
10/12/06		464.64	20-35	25.58	439.06
1/3/07		464.64	20-35	22.53	442.11
4/13/07		464.64	20-35	24.77	439.87
7/16/07		464.64	20-35	Dry	NC
10/29/07		464.64	20-35	Dry	NC
2/1/08		464.64	20-35	34.03	430.61
4/18/08		464.64	20-35	28.13	436.51
7/28/08		464.64	20-35	Dry	NC
11/18/08		464.64	20-35	33.82	430.82
2/4/09		464.64	20-35	Dry	NC
4/21/09		464.64	20-35	Dry	NC
9/24/09		464.64	20-35	Dry	NC
3/4/10		464.64	20-35	28.77	435.87
7/20/10		464.64	20-35	24.57	440.07
1/19/11		464.64	20-35	24.52	440.12
4/6/11		464.64	20-35	19.98	444.66
9/19/11		464.64	20-35	24.62	440.02
11/4/11		464.64	20-35	24.50	440.14
2/1/12		464.64	20-35	Dry	NC
<b>6/12/12</b>	<b>464.64</b>	<b>20-35</b>	<b>28.39</b>	<b>436.25</b>	
MW-5B**	4/6/06	464.59	50-55	17.44	447.15
	7/27/06	464.59	50-55	24.09	440.50
	10/12/06	464.59	50-55	25.17	439.42
	1/3/07	464.59	50-55	22.44	442.15
	4/13/07	464.59	50-55	25.33	439.26
	7/16/07	464.59	50-55	36.50	428.09
	10/29/07	464.59	50-55	47.90	416.69
	2/1/08	464.59	50-55	33.25	431.34
	4/18/08	464.59	50-55	28.77	435.82
	7/28/08	464.59	50-55	44.76	419.83
	11/18/08	464.59	50-55	51.65	412.94
	2/4/09	464.59	50-55	47.63	416.96
	4/21/09	464.59	50-55	37.00	427.59
	9/24/09	464.59	50-55	39.73	424.86
	3/4/10	464.59	50-55	28.97	435.62
	7/19/10	464.59	50-55	25.40	439.19
	1/19/11	464.59	50-55	24.52	440.07
	4/6/11	464.59	50-55	20.05	444.54
	9/19/11	464.59	50-55	24.50	440.09
	11/4/11	464.59	50-55	24.40	440.19
	2/1/12	464.59	50-55	33.96	430.63
<b>6/12/12</b>	<b>464.59</b>	<b>50-55</b>	<b>28.65</b>	<b>435.94</b>	

**Table 1**  
**Groundwater Elevation Data**  
160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)
MW-6	11/14/01	464.13	20-50	33.88	430.25
	5/7/02	464.13	20-50	27.01	437.12
	9/11/02	464.13	20-50	27.03	437.10
	12/11/02	464.13	20-50	28.77	435.36
	3/14/03	464.13	20-50	23.46	440.67
	6/25/03	464.13	20-50	23.08	441.05
	9/16/03	464.13	20-50	25.77	438.36
	12/22/03	464.13	20-50	22.59	441.54
	3/10/04	464.13	20-50	18.65	445.48
	6/15/04	464.13	20-50	23.31	440.82
	9/17/04	464.13	20-50	26.56	437.57
	12/10/04	464.13	20-50	23.09	441.04
	3/2/05	464.13	20-50	18.04	446.09
	5/27/05	464.13	20-50	19.57	444.56
	7/21/05	464.13	20-50	21.60	442.53
	10/10/05	464.13	20-50	22.21	441.92
	1/9/06	464.13	20-50	18.99	445.14
	4/6/06	464.13	20-50	17.00	447.13
	7/27/06	464.13	20-50	23.45	440.68
	10/12/06	464.13	20-50	24.36	439.77
	1/3/07	464.13	20-50	22.03	442.10
	4/13/07	464.13	20-50	24.40	439.73
	7/16/07	464.13	20-50	NM	NC
	10/29/07	464.13	20-50	Dry	NC
	2/1/08	464.13	20-50	33.05	431.08
	4/18/08	464.13	20-50	28.20	435.93
	7/28/08	464.13	20-50	Dry	NC
	11/18/08	464.13	20-50	Dry	NC
	2/4/09	464.13	20-50	Dry	NC
	4/21/09	464.13	20-50	38.71	425.42
	9/24/09	464.13	20-50	38.26	425.87
	3/4/10	464.13	20-50	26.02	438.11
	7/19/10	464.13	20-50	24.65	439.48
1/19/11	464.13	20-50	24.00	440.13	
4/6/11	464.13	20-50	21.76	442.37	
9/19/11	464.13	20-50	23.76	440.37	
11/4/11	464.13	20-50	23.00	441.13	
2/1/12	464.13	20-50	33.43	430.70	
<b>6/12/12</b>	<b>464.13</b>	<b>20-50</b>	<b>27.62</b>	<b>436.51</b>	
MW-7A**	4/6/06	465.32	15-30	16.61	448.71
	7/27/06	465.32	15-30	23.40	441.92
	10/12/06	465.32	15-30	24.50	440.82
	1/3/07	465.32	15-30	21.80	443.52
	4/13/07	465.32	15-30	24.05	441.27
	7/16/07	465.32	15-30	Dry	NC
	10/29/07	465.32	15-30	Dry	NC
	2/1/08	465.32	15-30	Dry	NC
	4/18/08	465.32	15-30	28.16	437.16
	7/28/08	465.32	15-30	Dry	NC
	11/18/08	465.32	15-30	Dry	NC
	2/4/09	465.32	15-30	Dry	NC
	4/21/09	465.32	15-30	Dry	NC
	9/24/09	465.32	15-30	Dry	NC
	3/4/10	465.32	15-30	26.30	439.02
	7/19/10	465.32	15-30	24.78	440.54
	1/19/11	465.32	15-30	23.60	441.72
	4/6/11	465.32	15-30	19.35	445.97
	4/18/11	465.32	15-30	19.59	445.73
	5/9/11	465.32	15-30	21.15	444.17
	6/1/11	465.32	15-30	21.01	444.31
	6/15/11	465.32	15-30	21.45	443.87
	6/30/11	465.32	15-30	21.87	443.45
9/19/11	465.32	15-30	23.96	441.36	
11/4/11	465.32	15-30	23.45	441.87	
2/1/12	465.32	15-30	Dry	NC	
<b>6/13/12</b>	<b>465.32</b>	<b>15-30</b>	<b>27.93</b>	<b>437.39</b>	

**Table 1**  
**Groundwater Elevation Data**  
160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)
MW-7B**	4/6/06	465.39	45-50	16.85	448.54
	7/27/06	465.39	45-50	23.72	441.67
	10/12/06	465.39	45-50	24.74	440.65
	1/3/07	465.39	45-50	22.18	443.21
	4/13/07	465.39	45-50	24.41	440.98
	7/16/07	465.39	45-50	36.40	428.99
	10/29/07	465.39	45-50	Dry	NC
	2/1/08	465.39	45-50	33.84	431.55
	4/18/08	465.39	45-50	28.52	436.87
	7/28/08	465.39	45-50	44.92	420.47
	11/18/08	465.39	45-50	Dry	NC
	2/4/09	465.39	45-50	46.65	418.74
	4/21/09	465.39	45-50	36.83	428.56
	9/24/09	465.39	45-50	39.26	426.13
	3/4/10	465.39	45-50	28.63	436.76
	7/19/10	465.39	45-50	25.05	440.34
	1/19/11	465.39	45-50	24.15	441.24
	4/6/11	465.39	45-50	21.78	443.61
	4/18/11	465.39	45-50	19.75	445.64
	5/9/11	465.39	45-50	20.40	444.99
	6/1/11	465.39	45-50	21.25	444.14
	6/15/11	465.39	45-50	21.45	443.94
	6/30/11	465.39	45-50	21.65	443.74
9/19/11	465.39	45-50	24.10	441.29	
11/4/11	465.39	45-50	24.10	441.29	
2/2/12	465.39	45-50	33.91	431.48	
<b>6/13/12</b>	<b>465.39</b>	<b>45-50</b>	<b>28.14</b>	<b>437.25</b>	
MW-7C**	4/6/06	465.39	65-70	17.18	448.21
	7/27/06	465.39	65-70	24.15	441.24
	10/12/06	465.39	65-70	24.74	440.65
	1/3/07	465.39	65-70	22.53	442.86
	4/13/07	465.39	65-70	24.73	440.66
	7/16/07	465.39	65-70	36.70	428.69
	10/29/07	465.39	65-70	48.25	417.14
	2/1/08	465.39	65-70	34.00	431.39
	4/18/08	465.39	65-70	28.75	436.64
	7/28/08	465.39	65-70	45.00	420.39
	11/18/08	465.39	65-70	49.62	415.77
	2/4/09	465.39	65-70	47.89	417.50
	4/21/09	465.39	65-70	36.98	428.41
	9/24/09	465.39	65-70	39.49	425.90
	3/4/10	465.39	65-70	26.66	438.73
	7/19/10	465.39	65-70	25.38	440.01
	1/19/11	465.39	65-70	24.50	440.89
	4/6/11	465.39	65-70	19.88	445.51
	9/19/11	465.39	65-70	23.50	441.89
	11/4/11	465.39	65-70	24.40	440.99
	2/2/12	465.39	65-70	34.14	431.25
	<b>6/13/12</b>	<b>465.39</b>	<b>65-70</b>	<b>28.54</b>	<b>436.85</b>
	EW-1**	4/6/06	465.45	15-40	15.99
7/27/06		465.45	15-40	23.85	441.60
10/12/06		465.45	15-40	23.51	441.94
1/3/07		465.45	15-40	21.45	444.00
4/13/07		465.45	15-40	23.69	441.76
10/29/07		465.45	15-40	NM	NC
2/1/08		465.45	15-40	NM	NC
4/18/08		465.45	15-40	27.83	437.62
7/28/08		465.45	15-40	NM	NC
11/18/08		465.45	15-40	Dry	NC
2/4/09		465.45	15-40	Dry	NC
4/21/09		465.45	15-40	Dry	NC
9/24/09		465.45	15-40	Dry	NC
3/4/10		465.45	15-40	27.87	NC
7/20/10		465.45	15-40	24.35	441.10
1/19/11		465.45	15-40	23.58	441.87
4/6/11		465.45	15-40	18.85	446.60
4/18/11		465.45	15-40	19.70	445.75
5/9/11		465.45	15-40	19.69	445.76
6/1/11		465.45	15-40	20.52	444.93
6/15/11		465.45	15-40	21.11	444.34
6/30/11		465.45	15-40	21.41	444.04
9/19/11		465.45	15-40	22.35	443.10
11/4/11	465.45	15-40	23.35	442.10	
2/2/12	465.45	15-40	33.38	432.07	
<b>6/13/12</b>	<b>465.45</b>	<b>15-40</b>	<b>27.38</b>	<b>438.07</b>	

**Table 1**  
**Groundwater Elevation Data**  
160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)
EW-2**	4/6/06	465.99	15-40	16.20	449.79
	7/27/06	465.99	15-40	23.10	442.89
	10/12/06	465.99	15-40	21.48	444.51
	1/3/07	465.99	15-40	21.66	444.33
	4/13/07	465.99	15-40	23.93	442.06
	10/29/07	465.99	15-40	Dry	NC
	2/1/08	465.99	15-40	NM	NC
	4/18/08	465.99	15-40	28.04	437.95
	7/28/08	465.99	15-40	NM	NC
	11/18/08	465.99	15-40	Dry	NC
	2/4/09	465.99	15-40	Dry	NC
	4/21/09	465.99	15-40	Dry	NC
	9/24/09	465.99	15-40	Dry	NC
	3/4/10	465.99	15-40	25.89	NC
	7/20/10	465.99	15-40	24.45	441.54
	1/19/11	465.99	15-40	23.72	442.27
	4/6/11	465.99	15-40	19.00	446.99
	4/18/11	465.99	15-40	19.19	446.80
	5/9/11	465.99	15-40	19.67	446.32
	6/1/11	465.99	15-40	20.71	445.28
6/15/11	465.99	15-40	21.00	444.99	
6/30/11	465.99	15-40	21.31	444.68	
9/19/11	465.99	15-40	23.55	442.44	
11/4/11	465.99	15-40	23.60	442.39	
2/2/12	465.99	15-40	33.66	432.33	
<b>6/13/12</b>	<b>465.99</b>	<b>15-40</b>	<b>27.64</b>	<b>438.35</b>	
EW-3 <sup>(a)</sup>	11/18/08	NC	25-30	Dry	NC
	2/4/09	NC	25-30	33.80	NC
	4/21/09	NC	25-30	Dry	NC
	9/24/09	NC	25-30	Dry	NC
	3/4/10	NC	25-30	28.02	NC
	7/20/10	NC	25-30	NM	NC
	1/19/11	NC	25-30	23.50	NC
	4/6/11	NC	25-30	18.30	NC
	4/18/11	NC	25-30	19.40	NC
	5/9/11	NC	25-30	19.67	NC
	6/1/11	NC	25-30	20.72	NC
	6/15/11	NC	25-30	20.92	NC
	6/30/11	NC	25-30	21.11	NC
	9/19/11	NC	25-30	23.25	NC
	11/4/11	NC	25-30	23.30	NC
2/2/12	NC	25-30	28.76	NC	
<b>6/13/12</b>	<b>NC</b>	<b>25-30</b>	<b>27.31</b>	<b>NC</b>	
MW-8A	7/28/08	NC	16-36	Dry	NC
	11/18/08	NC	16-36	35.40	NC
	2/4/09	NC	16-36	Dry	NC
	4/21/09	NC	16-36	Dry	NC
	9/24/09	NC	16-36	Dry	NC
	3/4/10	NC	16-36	26.33	NC
	7/20/10	NC	16-36	25.00	NC
	1/19/11	NC	16-36	24.30	NC
	4/6/11	NC	16-36	19.22	NC
	9/19/11	NC	16-36	24.05	NC
	11/4/11	NC	16-36	24.10	NC
	2/2/12	NC	16-36	33.99	NC
<b>6/12/12</b>	<b>NC</b>	<b>16-36</b>	<b>28.01</b>	<b>NC</b>	

**Table 1**  
**Groundwater Elevation Data**  
160 Holmes Street, Livermore, California

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)	
MW-8B	7/28/08	NC	46-51	44.90	NC	
	11/18/08	NC	46-51	49.85	NC	
	2/4/09	NC	46-51	47.95	NC	
	4/21/09	NC	46-51	38.75	NC	
	9/24/09	NC	46-51	38.47	NC	
	3/4/10	NC	46-51	28.24	NC	
	7/20/10	NC	46-51	24.70	NC	
	1/19/11	NC	46-51	24.05	NC	
	4/6/11	NC	46-51	19.42	NC	
	9/19/11	NC	46-51	23.80	NC	
	11/4/11	NC	46-51	23.50	NC	
	2/2/12	NC	46-51	33.73	NC	
	<b>6/13/12</b>	<b>NC</b>	<b>46-51</b>	<b>27.75</b>	<b>NC</b>	
	MW-9A	7/28/08	NC	14-36	Dry	NC
		11/18/08	NC	14-36	48.97	NC
2/4/09		NC	14-36	Dry	NC	
4/21/09		NC	14-36	Dry	NC	
9/24/09		NC	14-36	Dry	NC	
3/4/10		NC	14-36	27.86	NC	
7/20/10		NC	14-36	24.15	NC	
1/19/11		NC	14-36	23.40	NC	
4/6/11		NC	14-36	21.50	NC	
9/19/11		NC	14-36	23.25	NC	
11/4/11		NC	14-36	23.50	NC	
2/1/12		NC	14-36	33.10	NC	
<b>6/12/12</b>		<b>NC</b>	<b>14-36</b>	<b>27.30</b>	<b>NC</b>	
MW-9B		7/28/08	NC	47-52	44.05	NC
		11/18/08	NC	47-52	38.28	NC
	2/4/09	NC	47-52	47.03	NC	
	4/21/09	NC	47-52	35.94	NC	
	9/24/09	NC	47-52	37.93	NC	
	3/4/10	NC	47-52	27.68	NC	
	7/20/10	NC	47-52	24.30	NC	
	1/19/11	NC	47-52	23.55	NC	
	4/6/11	NC	47-52	21.21	NC	
	9/19/11	NC	47-52	23.12	NC	
	11/4/11	NC	47-52	23.35	NC	
	2/1/12	NC	47-52	33.13	NC	
	<b>6/12/12</b>	<b>NC</b>	<b>47-52</b>	<b>27.19</b>	<b>NC</b>	
	EX-1***	11/14/01	465.30	30-55	33.41	431.89
		5/7/02	465.30	30-55	27.58	437.72
9/11/02		465.30	30-55	NM	NC	
12/11/02		465.30	30-55	27.98	437.32	
3/14/03		465.30	30-55	23.02	442.28	
6/25/03		465.30	30-55	22.41	442.89	
9/16/03		465.30	30-55	24.65	440.65	
3/10/04		465.30	30-55	17.99	447.31	
6/15/04		465.30	30-55	22.48	442.82	
9/17/04		465.30	30-55	25.91	439.39	
12/10/04		465.30	30-55	NM	NC	
3/2/05		465.30	30-55	NM	NC	
5/27/05		465.30	30-55	18.68	446.62	
7/21/05		465.30	30-55	21.55	443.75	
10/10/05		465.30	30-55	22.73	442.57	
1/9/06	465.30	30-55	18.05	447.25		

Notes:

- msl: mean sea level
- bgs: below ground surface
- NA: well not accessible
- NC: elevation not calculated
- NM: well not measured
- \* = Well MW-1, 2, and 3 renamed MW-1A, 2A, and 3A respectively
- \*\* = Well installed on 2/22/06-2/28/06
- \*\*\* = Well destroyed on 2/22/06-2/28/06
- (a) = Well EW-3 is 35 feet deep with a screen interval from 25 to 30 feet bgs.



**Table 2**  
**Groundwater Analytical Results**  
 160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)			
			Gasoline	Diesel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB	1,2-DCA	
MW-1A*	8/11/00	NC	170,000	57,000	6,400	7,600	4,200	9,700	320,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/19/00	443.09	170,000	17,000	8,400	3,200	2,700	10,000	200,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/22/01	442.12	82,000	11,000	5,100	1,000	13,000	8,700	190,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/30/01	NC	NS	NS	not sampled - well dry				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/14/01	NC	NS	NS	not sampled - well dry				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/7/02	NC	NS	NS	not sampled - well dry				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/11/02	438.87	130,000	NA	7,700	1,100	NS	1,500	<5000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/1/02	437.48	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/14/03	442.40	180,000	3,800	7,100	3,200	4,300	6,000	220,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/25/03	442.93	71,000	3,100	7,500	4,700	4,800	8,900	210,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/16/03	440.12	37,000	3,600	4,600	220	3,600	930	150,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/22/03	443.28	44,000	4,000	6,800	1,500	4,000	3,800	180,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/10/04	447.58	72,000	3,100	6,000	11,000	3,900	10,000	260,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/15/04	442.65	42,000	4,300	5,000	1,800	3,700	6,000	210,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/17/04	439.42	24,000	2,900	2,800	<33	2,900	500	83,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/10/04	442.85	31,000	2,700	4,600	190	4,400	2,800	200,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/2/05	448.08	58,000	2,800	4,000	2,500	4,500	7,800	230,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/27/05	446.61	79,000	4,600	4,300	6,200	5,100	13,000	240,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/21/05	443.65	80,000	NS	4,300	5,300	5,400	14,000	300,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/10/05	442.54	58,000	NS	4,300	240	5,600	8,300	170,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/9/06	446.98	47,000	3,700	3,100	1,100	4,400	5,900	180,000	<2,500	<25,000	<2,500	<2,500	240,000	<250,000	<2,500,000	<2,500	<2,500	
	4/6/06	449.43	18,000	1,900	1,200	280	2,400	2,200	110,000	<2,500	<25,000	<2,500	<2,500	87,000	<250,000	<2,500,000	<2,500	<2,500	
	7/27/06	442.61	24,000	2,400	2,100	350	3,400	5,300	130,000	<5000	<50,000	<5000	<5000	160,000	NA	NA	NA	NA	
	10/12/06	441.57	19,000	1,700	1,000	26	2,000	1,000	68,000	<1,200	<12,000	<1,200	<1,200	84,000	<120,000	<1,200,000	NA	NA	
	1/3/07	444.03	27,000	2,300	1,300	53	2,500	1,900	120,000	<1,700	<1,700	<1,700	<1,700	110,000	<170,000	<1,700,000	<1,700	<1,700	
	4/13/07	441.79	28,000	3,000	1,600	74	3,700	1,800	190,000	<5,000	<50,000	<5,000	<5,000	200,000	<500,000	<5,000,000	<5,000	<5,000	
	7/16/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/29/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/1/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/18/08	437.69	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/28/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/4/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/21/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/09	430.03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/4/10	436.98	1,300	NA	140	<5.0	26	6.0	16,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/19/10	441.18	400	NA	1.2	1.3	<0.5	0.76	880	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/20/11	441.91	150	130	1.4	0.6	<0.5	1.4	300	<250	40,000	<250	<250	330	NA	NA	<250	<250	
	4/8/11	442.37	200	180	2.0	1.9	<0.5	4.4	1,300	<120	24,000	<120	<120	2,300	NA	NA	<120	<120	
	4/18/11	446.33	140	130	0.56	<0.5	<0.5	4.2	1,500	<50	11,000	<50	<50	1,200	NA	NA	<0.5	<50	
5/9/11	445.77	<50	<50	<0.5	<0.5	<0.5	<0.5	880	<50	12,000	<50	<50	1,000	NA	NA	<50	<50		
6/1/11	444.93	<50	52	<0.5	<0.5	<0.5	<0.5	350	<50	12,000	<50	<50	480	NA	NA	<50	<50		
6/15/11	444.59	<50	70	<0.5	<0.5	<0.5	<0.5	310	<100	9,000	<100	<100	330	NA	NA	<100	<100		
6/30/11	444.30	<50	54	<0.5	<0.5	<0.5	<0.5	150	<50	6,200	<50	<50	170	NA	NA	<50	<50		
9/20/11	442.12	96	200	<0.5	0.6	<0.5	0.55	140	<120	19,000	<120	<120	150	NA	NA	<120	<120		
11/8/11	442.03	100	150	1.3	0.99	<0.5	1.1	110	<100	21,000	<100	<100	150	NA	NA	<100	<100		
2/1/12	NC	NS	NS	not sampled - well dry				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
6/13/12	438.13	65	300	0.96	0.70	<0.5	<0.5	5.5	<50	10,000	<50	<50	<50	NA	NA	<0.5	<0.5		

**Table 2**  
**Groundwater Analytical Results**  
 160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)			
			Gasoline	Diesel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB	1,2-DCA	
MW-1B	3/13/06	446.44	<50	<50	<0.5	<0.5	<0.5	<0.5	8.2	<0.5	<5.0	<0.5	<0.5	7.9	<50	<500	<0.5	<0.5	
	4/6/06	449.43	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	1.0	<50	<500	<0.5	<0.5	
	7/27/06	442.55	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	NA	NA	NA	NA	
	10/12/06	441.51	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	NA	NA	
	1/3/07	443.98	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	
	4/13/07	441.72	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	
	7/16/07	429.45	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	NA	NA	NA	NA	
	10/29/07	417.70	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	
	2/1/08	431.12	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	
	4/18/08	437.67	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	
	7/29/08	420.99	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	
	11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/4/09	418.19	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/21/09	427.92	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/24/09	427.26	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	1.1	NA	NA	NA	NA	NA
	3/4/10	437.61	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/19/10	NC	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/20/11	441.92	<50	130	<0.5	<0.5	<0.5	<0.5	<5.0	<250	40,000	<250	<250	330	NA	NA	<250	<250	
	4/8/11	446.62	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	NA	NA	<0.5	<0.5	
	4/18/11	446.42	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	NA	NA	<0.5	<0.5	
	5/9/11	445.91	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	NA	NA	<0.5	<0.5	
	6/1/11	444.92	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	NA	NA	<0.5	<0.5	
	6/15/11	444.58	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	NA	NA	<0.5	<0.5	
	6/30/11	444.28	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	NA	NA	<0.5	<0.5	
	9/20/11	442.10	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	NA	NA	<0.5	<0.5	
	11/8/11	442.07	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	NA	NA	<0.5	<0.5	
2/2/12	432.02	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	NA	NA	<0.5	<0.5		
6/13/12	438.03	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	NA	NA	<0.5	<0.5		
MW- 2A*	8/11/00	NC	4,500	1,900	220	52	160	170	3,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	10/19/00	443.14	3,400	1,300	150	21	100	70	1,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	2/22/01	442.07	7,600	880	25	<10	69	25	2,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	5/30/01	NC	NS	NS		not sampled - well dry			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	11/14/01	NC	NS	NS		not sampled - well dry			NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	5/7/02	438.24	400	86	5.4	<0.5	1.9	2.3	230	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	9/11/02	438.98	260	NA	1.3	<0.5	0.57	0.77	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	12/1/02	437.38	250	120	7.9	1.6	13	9.9	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	3/14/03	442.53	830	110	56	<0.5	<0.5	<1.0	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	6/25/03	442.97	260	180	0.92	2.9	3.1	8.1	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	9/16/03	440.24	420	260	3.6	3.4	5.2	2.4	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	12/22/03	443.36	240	120	0.82	3.1	7.8	3.9	1,400	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	3/10/04	447.63	280	210	9.4	4.2	14	11	1,400	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	6/15/04	442.76	150	150	2.1	2.4	2.2	1.3	1,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	9/17/04	439.50	61	70	<0.5	1.0	<0.5	<0.5	730	NA	NA	NA	NA	NA	NA	NA	NA	NA	

**Table 2**  
**Groundwater Analytical Results**  
 160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)			
			Gasoline	Diesel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB	1,2-DCA	
MW-2A cont.	12/10/04	442.94	84	110	<0.5	1.2	<0.5	1.5	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/2/05	448.19	63	91	0.55	<0.5	0.63	0.51	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/27/05	446.65	270	59	14	3.9	19	6.8	1,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/21/05	444.48	280	NS	8.6	2.5	17	2.5	1,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/10/05	442.64	<50	NS	<.5	<.5	<.5	<.5	680	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/9/06	447.27	1,700	890	4.4	1.3	120	18	530	<10	330	<10	<10	590	<1,000	<10,000	<10	<10	
	4/7/06	449.47	110	160	0.61	0.8	4.1	<0.5	270	<5.0	660	<5.0	<5.0	240	<500	<5,000	<5.0	<5.0	
	7/27/06	442.67	<50	120	<0.5	0.84	<0.5	<0.5	87	<5.0	870	<5.0	<5.0	110	NA	NA	NA	NA	
	10/12/06	441.59	<50	70	<0.5	<0.5	<0.5	<0.5	29	<5.0	480	<5.0	<5.0	30	<500	<5,000	NA	NA	
	1/3/07	444.04	55	60	0.57	<0.5	<0.5	<0.5	8.5	<2.5	590	<2.5	<2.5	7.8	<250	<2,500	<2.5	<2.5	
	4/13/07	441.78	86	130	<0.5	0.6	<0.5	<0.5	16	<5.0	740	<5.0	<5.0	16	<500	<5,000	<5.0	<5.0	
	7/16/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/29/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/1/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/18/08	437.68	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/28/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/4/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/21/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/4/10	439.82	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/20/10	439.09	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/21/11	439.64	<50	<50	<0.5	<0.5	<0.5	<0.5	2.8	<5.0	<5.0	<5.0	<5.0	2.8	NA	NA	<5.0	<5.0	
	4/8/11	446.64	<50	<50	<0.5	0.77	<0.5	6.2	<5.0	<0.5	15	<0.5	<0.5	3.3	NA	NA	<0.5	<0.5	
	9/20/11	442.49	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	7.9	<0.5	<0.5	2.8	NA	NA	<0.5	<0.5	
	11/8/11	442.17	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	2.3	NA	NA	<0.5	<0.5	
	2/1/12	NC	NS	NS	not sampled - well dry					NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	<b>6/12/12</b>	<b>438.15</b>	<b>&lt;50</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>5.4</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>1.1</b>	<b>NA</b>	<b>NA</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>
	MW- 3A*	8/11/00	NC	59	260	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
		10/19/00	443.39	<50	<65	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
2/22/01		442.33	<50	100	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
5/30/01		NC	NS	NS	not sampled - well dry					NS	NS	NS	NS	NS	NS	NS	NA	NA	
11/14/01		NC	NS	NS	not sampled - well dry					NS	NS	NS	NS	NS	NS	NS	NA	NA	
5/7/02		NC	NS	NS	not sampled - well dry					NS	NS	NS	NS	NS	NS	NS	NA	NA	
9/11/02		439.23	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
12/1/02		437.66	NS	NS	not sampled - well dry					NS	NS	NS	NS	NS	NS	NS	NA	NA	
3/14/03		442.80	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
6/25/03		443.25	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
9/16/03		440.51	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
12/22/03		443.47	<50	69	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
3/10/04		447.96	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
6/15/04		443.02	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
9/17/04		439.75	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
12/10/04		443.19	<50	<50	<0.5	<0.5	<0.5	<0.5	7.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	
3/2/05		448.51	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
5/27/05		446.95	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/21/05		444.74	<50	NS	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
10/10/05		442.90	<50	NS	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1/9/06	447.60	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<5.0	<0.5	<50	<500	<0.5	<0.5		

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**Groundwater Analytical Results**  
 160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		
			Gasoline	Diesel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB	1,2-DCA
MW-3A cont.	4/7/06	449.82	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5
	7/27/06	442.94	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	NA	NA	NA	NA
	10/12/06	441.85	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	NA	NA
	1/3/07	444.32	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5
	4/13/07	442.06	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5
	7/16/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/29/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/1/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/18/08	437.98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/28/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/4/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/21/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/4/10	437.89	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/19/20	439.29	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/20/11	442.21	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/8/11	446.94	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/20/11	442.45	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/8/11	442.25	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
2/1/12	NC	NS	NS	not sampled - well dry					NS	NS	NS	NS	NS	NS	NS	NS	NS	
6/12/12	438.38	<50	NS	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MW-4**	11/14/01	431.31	510	90	4.0	<0.5	<0.5	<0.5	14	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/7/02	438.40	150	<50	3.5	0.5	<0.5	<0.5	48	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/11/02	438.49	<50	NA	<0.5	<0.5	<0.5	<0.5	15	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/1/02	436.76	<50	<50	<0.5	<0.5	<0.5	<0.5	24	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/14/03	442.01	<50	<50	<0.5	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/25/03	442.43	<50	<50	<0.5	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/16/03	439.76	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/22/03	442.73	<50	69	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/10/04	446.95	<50	<50	<0.5	<0.5	<0.5	<0.5	37	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/15/04	442.20	<50	<50	<0.5	<0.5	<0.5	<0.5	7.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/17/04	439.03	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/10/04	442.42	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/2/05	447.55	<50	<50	<0.5	<0.5	<0.5	<0.5	14	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/27/05	446.01	<50	<50	<0.5	<0.5	<0.5	<0.5	9.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/21/05	443.90	<50	NS	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/10/05	442.30	<50	NS	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
1/9/06	446.61	<50	<50	<0.5	<0.5	<0.5	<0.5	0.86	<0.5	<5.0	<0.5	<5.0	0.86	<50	<500	<5.0	<5.0	
MW-4A	3/13/06	445.87	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	0.70	<50	<500	<0.5	<0.5
	4/7/06	448.77	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	1.1	<50	<500	<0.5	<0.5
	7/28/06	442.09	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	3.0	NA	NA	NA	NA
	10/13/06	441.06	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	2.0	<50	<500	NA	NA
	1/4/07	443.44	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	0.79	<50	<500	<0.5	<0.5
	4/16/07	441.18	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	0.51	<50	<500	<0.5	<0.5
	7/16/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/29/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/1/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

**Table 2**  
**Groundwater Analytical Results**  
 160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)			
			Gasoline	Diesel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB	1,2-DCA	
MW-4A cont.	4/18/08	437.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/28/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/4/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/21/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/4/10	439.30	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/20/10	440.71	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/20/11	441.32	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/7/11	436.16	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/19/11	441.53	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/7/11	441.56	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/1/12	NC	NS	NS	not sampled - well dry					NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/12/12	437.69	<50	NA	<0.5		<0.5		<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5**	11/14/01	429.71	<50	<66	<0.5	<0.5	<0.5	<0.5	8.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/7/02	436.75	140	<50	<0.5	<0.5	<0.5	<0.5	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/11/02	436.66	<50	NA	<0.5	<0.5	<0.5	<0.5	6.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/1/02	435.15	73	<50	<0.5	<0.5	<0.5	<0.5	160	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/14/03	440.39	110	<50	<0.5	<0.5	<0.5	<0.5	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/25/03	440.64	<50	<50	<0.5	<0.5	<0.5	<0.5	89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/16/03	437.82	630	<50	<0.5	3.50	<0.5	2.6	1,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/22/03	440.97	<0.5	<50	<0.5	<0.5	<0.5	<0.5	630	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/10/04	445.43	57	<50	<0.5	<0.5	<0.5	<0.5	1,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	6/15/04	440.45	<50	<50	<0.5	<0.5	<0.5	<0.5	750	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/17/04	436.97	<50	<50	<0.5	<0.5	<0.5	<0.5	780	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/10/04	440.72	<50	<50	<0.5	<0.5	<0.5	<0.5	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/2/05	446.09	<50	<50	<0.5	<0.5	<0.5	<0.5	320	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/27/05	444.50	<50	<50	<0.5	<0.5	<0.5	<0.5	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/21/05	442.10	<50	NS	<0.5	<0.5	<0.5	<0.5	97	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/10/05	441.30	<50	NS	<0.5	<0.5	<0.5	<0.5	41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1/9/06	445.12	<50	<50	<0.5	<0.5	<0.5	<0.5	37	<0.5	<5.0	<0.5	<5.0	<5.0	<50	<500	<0.5	<0.5		
MW-5A	3/13/06	444.48	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	
	4/7/06	447.29	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	
	7/28/06	440.24	<50	62	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	NA	NA	NA	NA	
	10/13/06	439.06	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	6.3	<0.5	<0.5	0.61	<50	<500	NA	NA	
	1/4/07	442.11	<50	320	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	
	4/16/07	439.87	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	
	7/16/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	10/29/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	2/1/08	430.61	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	1.3	<50	<500	<0.5	<0.5	
	4/18/08	436.51	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	7/28/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	11/18/08	464.64	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	2/4/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	4/21/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	9/24/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	3/4/10	435.87	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
7/20/10	440.07	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA		
1/19/11	440.12	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA		

**Table 2**  
**Groundwater Analytical Results**  
 160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)			
			Gasoline	Diesel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB	1,2-DCA	
MW-5A cont.	4/7/11	436.16	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/19/11	440.02	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/7/11	440.14	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/1/12	NC	NS	NS	not sampled - well dry				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/12/12	436.25	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	NA	NA	NA	NA	NA
MW-5B	3/13/06	444.46	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	0.69	<50	<500	<0.5	<0.5	
	4/7/06	447.15	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	0.98	<50	<500	<0.5	<0.5	
	7/28/06	440.50	<50	<50	<0.5	<0.5	<0.5	<0.5	6.8	<0.5	6.3	<0.5	<0.5	0.61	NA	NA	NA	NA	
	10/13/06	439.42	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	3.6	<50	<500	NA	NA	
	1/4/07	442.15	<50	89	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	1.3	<50	<500	<0.5	<0.5	
	4/16/07	439.26	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	1.5	<50	<500	<0.5	<0.5	
	7/17/07	428.09	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	1.4	NA	NA	NA	NA	
	10/29/07	416.69	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	
	2/1/08	431.34	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	1.9	<50	<500	<0.5	<0.5	
	4/18/08	435.82	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	1.5	<50	<500	<0.5	<0.5	
	7/29/08	419.83	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	
	11/18/08	412.94	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	1.2	<50	<500	<0.5	<0.5	
	2/4/09	416.96	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	4/22/09	427.59	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	9/24/09	424.86	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	1.3	<50	<500	<0.5	<0.5	
	3/4/10	435.62	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	7/19/10	439.19	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	1/19/11	440.07	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	4/6/11	444.66	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	9/19/11	440.09	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	11/7/11	440.19	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2/1/12	430.63	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA		
6/12/12	435.94	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	NA	NA	NA	NA		
MW-6	11/14/01	430.25	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	5/7/02	437.12	<50	<67	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	9/11/02	437.10	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	12/1/02	435.36	<50	<50	<0.5	<0.5	<0.5	<0.5	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	3/14/03	440.67	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	6/25/03	441.05	<50	<50	<0.5	<0.5	<0.5	<1.0	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	9/16/03	438.36	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	12/22/03	441.54	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	3/10/04	445.48	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	6/15/04	440.82	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	9/17/04	437.57	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	12/10/04	441.04	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	3/2/05	446.09	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	5/27/05	444.56	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	7/21/05	442.53	<50	NS	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	10/10/05	441.92	<50	NS	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	1/9/06	445.14	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<5.0	0.86	<50	<500	<0.5	<0.5
	4/6/06	447.13	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5
	7/28/06	440.68	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	NA	NA	NA	NA	
	10/13/06	439.77	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<50	<500	NA	NA
	1/4/07	442.10	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5

**Table 2**  
**Groundwater Analytical Results**  
160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		
			Gasoline	Diesel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB	1,2-DCA
MW-6 cont.	4/16/07	439.73	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5
	7/16/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/29/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/1/08	431.08	<50	<50	<0.5	<0.5	<0.5	0.91	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5
	4/18/08	435.93	<50	<50	<0.5	<0.5	<0.5	0.91	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5
	7/28/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/4/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/22/09	425.42	<50	NS	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/24/09	425.87	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5
	3/4/10	438.11	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/19/20	439.48	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/19/11	440.13	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/6/11	442.37	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/19/11	440.37	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
11/7/11	441.13	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
2/1/12	430.70	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
6/12/12	<b>436.51</b>	<b>&lt;50</b>	<b>NA</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;5.0</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	
MW-7A	3/13/06	445.85	6,200	1,800	140	21	200	560	6,900	<100	4,400	<100	<100	6,300	<10,000	<100,000	<100	<100
	4/7/06	448.71	5,300	1,700	130	26	330	420	5,900	<100	7,500	<100	<100	6,600	<10,000	<100,000	<100	<100
	7/28/06	441.92	2,200	470	28	18	60	0.85	240	<25	4,700	<25	<25	240	NA	NA	NA	NA
	10/12/06	440.82	6,500	2,400	83	38	300	160	980	<17	4,700	<10	<17	1200	<1,700	<17,000	NA	NA
	11/21/06	***	1,400	NA	25	17	65	<0.5	45	<10	1,400	<10	<10	42	<1,000	<10,000	<10	<10
	1/4/07	443.52	1,000	440	12	18	48	8.3	75	<5.0	1,100	<5.0	<5.0	73	<500	<5,000	<5.0	<5.0
	4/16/07	441.27	520	470	17	5.6	2.6	0.88	140	<12	2,500	<12	<12	170	<1,200	<12,000	<12	<12
	7/16/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/29/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/1/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/18/08	437.16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/28/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/4/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/21/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/4/10	439.02	83	NA	<0.5	0.81	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/19/10	440.54	680	NA	<0.5	10	4.9	4.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/20/11	441.72	580	310	<0.5	7.3	7.2	1.5	<5.0	<2.5	490	<2.5	<2.5	5.8	NA	NA	<2.5	<2.5
	4/11/11	445.97	140	<50	<0.5	1.7	<0.5	<0.5	<5.0	<2.5	540	<2.5	<2.5	5.8	NA	NA	<2.5	<2.5
	4/18/11	445.73	91	90	<0.5	0.94	<0.5	<0.5	<5.0	400	400	<2.5	<2.5	5.8	NA	NA	<2.5	<2.5
	5/9/11	444.17	<50	69	<0.5	<0.5	<0.5	<0.5	<5.0	<1.7	350	<1.7	<1.7	5.9	NA	NA	<1.7	<1.7
	6/1/11	444.31	58	77	<0.5	0.76	0.79	0.97	5.2	<1.7	250	<1.7	<1.7	5.5	NA	NA	<1.7	<1.7
6/15/11	443.87	<50	80	<0.5	<0.5	<0.5	<0.5	<5.0	<1.0	190	<1.0	<1.0	3.8	NA	NA	<1.0	<1.0	
6/30/11	443.45	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	81	<0.5	<0.5	2.5	NA	NA	<0.5	<0.5	
9/19/11	441.36	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	4.4	<0.5	<0.5	<0.5	NA	NA	<0.5	<0.5	
11/7/11	441.87	<50	<50	<0.5	0.64	<0.5	<0.5	<5.0	<0.5	3.3	<0.5	<0.5	0.67	NA	NA	<0.5	<0.5	
2/1/12	NC	NS	NS	not sampled - well dry					NS	NS	NS	NS	NS	NS	NS	NS	NA	NA
6/13/12	<b>437.39</b>	<b>390</b>	<b>1,200</b>	<b>&lt;0.5</b>	<b>9.9</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;5.0</b>	<b>&lt;0.5</b>	<b>4.6</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>NA</b>	<b>NA</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>

**Table 2**  
**Groundwater Analytical Results**  
 160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)			
			Gasoline	Diesel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB	1,2-DCA	
MW-7B	3/13/06	445.64	230	<50	1.8	4.7	<0.5	2.2	1,500	<50	7,300	<50	<50	1,300	<5,000	<50,000	<50	<50	
	4/7/06	448.54	81	<50	1.9	1.6	1.1	0.58	1,000	<50	9,200	<50	<50	930	<5,000	<50,000	<50	<50	
	7/28/06	441.67	150	<50	<0.5	1.9	<0.5	<0.5	1,500	<50	16,000	<50	<50	1,900	NA	NA	NA	NA	
	10/12/06	440.65	110	<50	<0.5	1.3	<0.5	<0.5	900	<17	15,000	<17	<17	860	<1700	<17,000	NA	NA	
	***	11/21/06	NM	61	NA	<0.5	0.76	<0.5	<0.5	740	<50	10,000	<50	<50	680	<5,000	<50,000	<50	<50
	1/4/07	443.21	91	<50	<0.5	2.1	<0.5	<0.5	200	<50	11,000	<50	<50	180	<5,000	<50,000	<50	<50	
	4/16/07	440.98	94	<50	<0.5	2.6	<0.5	<0.5	35	<50	10,000	<50	<50	<50	<5,000	<50,000	<50	<50	
	7/17/07	428.99	<50	<50	0.61	0.63	<0.5	<0.5	13	<17	4,000	<17	<17	<17	NA	NA	NA	NA	
	10/29/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/1/08	431.55	420	<50	0.77	17	<0.5	0.97	45	<25	4,000	<25	<25	49	<2,500	<25,000	<25	<25	
	4/18/08	436.87	650	100	3.4	15	8.3	<0.5	150	<25	3,800	<25	<25	140	<2,500	<25,000	<25	<25	
	7/28/08	420.47	<50	<50	<0.5	0.56	<0.5	<0.5	17	<5.0	760	<5.0	<5.0	22	<500	<5,000	<5.0	<5.0	
	11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/4/09	418.74	620	NA	<0.5	23	<0.5	2.7	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/21/09	428.56	170	NA	2.1	5.8	<0.5	0.78	190	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/24/09	426.13	<50	NA	<0.5	1.8	<0.5	<0.5	210	<5.0	470	<5.0	<5.0	220	<500	<5,000	<5.0	<5.0	
	3/4/10	436.76	140	NA	<0.5	2.1	<0.5	<0.5	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/19/10	440.34	74	NA	<0.5	1.3	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/20/11	441.24	190	69	<0.5	4.1	<0.5	<0.5	<5.0	<25.0	4,400	<25.0	<25.0	<25.0	NA	NA	<25.0	<25.0	
	4/11/11	443.61	110	<50	<0.5	2.7	<0.5	<0.5	<5.0	<17	2,900	<17	<17	<17	NA	NA	<17	<17	
4/18/11	445.64	160	<50	<0.5	4.3	<0.5	0.6	<5.0	<17	3,300	<17	<17	<17	NA	NA	<17	<17		
5/9/11	444.99	79	<50	<0.5	2.0	<0.5	<0.5	<5.0	<17	3,000	<17	<17	<17	NA	NA	<17	<17		
6/1/11	444.14	72	<50	<0.5	1.9	<0.5	<0.5	<5.0	<50	3,100	<50	<50	<50	NA	NA	<50	<50		
6/15/11	443.94	100	<50	<0.5	2.2	<0.5	<0.5	<5.0	<50	2,700	<50	<50	<50	NA	NA	<50	<50		
6/30/11	443.74	100	<50	<0.5	2.4	<0.5	<0.5	<5.0	<25	2,900	<25	<25	<25	NA	NA	<25	<25		
9/19/11	441.29	<50	56	<0.5	1.1	<0.5	<0.5	<5.0	<17	3,300	<17	<17	<17	NA	NA	<17	<17		
11/8/11	465.39	98	<50	<0.5	2.6	<0.5	<0.5	<5.0	<12	1,600	<12	<12	<12	NA	NA	<12	<12		
2/2/12	431.48	74	<50	<0.5	1.8	<0.5	<0.5	<5.0	<12	1,800	<12	<12	<12	NA	NA	<12	<12		
6/13/12	437.25	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<12	2,400	<12	<12	<12	NA	NA	<12	<12		
MW-7C	3/13/06	445.34	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	0.60	<50	<500	<0.5	<0.5	
	4/7/06	448.21	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	
	7/28/06	441.24	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	NA	NA	NA	NA	NA	
	10/13/06	440.65	89	<50	<0.5	1.4	<0.5	<0.5	900	<17	12,000	<17	<17	820	<1700	<17,000	NA	NA	
	***	11/21/06	NM	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	24	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5
	1/4/07	442.86	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	24	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	
	4/16/07	440.66	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	
	7/17/07	428.69	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	NA	NA	NA	NA	
	10/29/07	417.14	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	
	2/1/08	431.39	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	
	4/18/08	436.64	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	
	7/28/08	420.39	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	
	11/18/08	415.77	97	<50	<0.5	<0.5	<0.5	<0.5	<90	<1.0	<4.0	<1.0	<1.0	<100	<1,000	<1.0	<1.0		
	2/4/09	417.50	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	4/22/09	428.41	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	9/24/09	425.90	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5	
3/4/10	438.73	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA		
7/19/10	440.01	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA		



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 160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		
			Gasoline	Diesel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB	1,2-DCA
MW-7C cont.	1/20/11	440.89	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/7/11	445.51	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/20/11	441.89	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	NA	NA	<0.5	<0.5
	11/8/11	440.99	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	NA	NA	<0.5	<0.5
	2/2/12	431.25	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	NA	NA	<0.5	<0.5
	<b>6/13/12</b>	<b>436.85</b>	<b>&lt;50</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;5.0</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>NA</b>	<b>NA</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>
	MW-8A	7/28/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/18/08		NC	67	<50	<0.5	2.6	<0.5	1.6	<5.0	<0.5	<2.0	<0.5	<0.5	4.9	<50	<500	<0.5	<0.5
2/4/09		NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4/21/09		NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9/24/09		NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/4/10		NC	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/20/10		NC	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
1/20/11		NC	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
4/7/11		NC	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/19/11		NC	<50	NA	<0.5	<0.5	<0.5	<0.5	5.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
11/7/11		NC	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
2/2/12		NC	<50	NA	<0.5	<0.5	<0.5	<0.5	9.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>6/13/12</b>		<b>NC</b>	<b>&lt;50</b>	<b>NA</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;5.0</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
MW-8B		7/28/08	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	2.5	<50	<500	<0.5
	11/18/08	NC	<50	120	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	5.1	<50	<500	<0.5	<0.5
	2/4/09	NC	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/22/09	NC	50	NA	<0.5	<0.5	<0.5	<0.5	1300	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/24/09	NC	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5
	3/4/10	NC	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/20/10	NC	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/20/11	NC	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/7/11	NC	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/19/11	NC	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/7/11	NC	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/2/12	NC	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	<b>6/13/12</b>	<b>NC</b>	<b>&lt;50</b>	<b>NA</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;5.0</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
	MW-9A	7/28/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/18/08		NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2/4/09		NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4/21/09		NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9/24/09		NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/4/10		NC	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/20/10		NC	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
1/20/11		NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	74	<0.5	<0.5	1.1	<50	<500	<0.5	<0.5
4/7/11		NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	65	<0.5	<0.5	0.74	NA	NA	<0.5	<0.5
9/19/11		NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	120	<0.5	<0.5	1.6	NA	NA	<0.5	<0.5
11/7/11		NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	2.9	<0.5	<0.5	<0.5	NA	NA	<0.5	<0.5
2/1/12		NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<1.0	200	<1.0	<1.0	1.2	NA	NA	<1.0	<1.0
<b>6/12/12</b>		<b>NC</b>	<b>&lt;50</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;5.0</b>	<b>&lt;0.5</b>	<b>&lt;2.0</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>NA</b>	<b>NA</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>

**Table 2**  
**Groundwater Analytical Results**  
160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		
			Gasoline	Diesel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB	1,2-DCA
MW-9B	7/29/08	NC	<50	63	<0.5	<0.5	<0.5	<0.5	100	<10	2,800	<10	<10	160	<1,000	<10,000	<10	<10
	11/18/08	NC	<50	1000	<0.5	<0.5	<0.5	<0.5	7.0	<0.5	4.6	<0.5	<0.5	7.5	<50	<500	<0.5	<0.5
	2/4/09	NC	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/22/09	NC	<50	NA	<0.5	<0.5	<0.5	<0.5	470	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/24/09	NC	<50	NA	<0.5	<0.5	<0.5	<0.5	5.4	<0.5	<2.0	<0.5	<0.5	7.2	<50	<500	<0.5	<0.5
	3/4/10	NC	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/20/10	NC	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/20/11	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	8.9	<0.5	<0.5	0.65	<50	<500	<0.5	<0.5
	4/7/11	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	22	<0.5	<0.5	1.2	NA	NA	<0.5	<0.5
	9/19/11	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	1.2	NA	NA	<0.5	<0.5
	11/7/11	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	1.7	NA	NA	<0.5	<0.5
	2/1/12	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	89	<0.5	<0.5	3.3	NA	NA	<0.5	<0.5
	6/12/12	NC	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	1.6	NA	NA	<0.5	<0.5
	EX-1**	11/14/01	431.89	13,000	2,000	180	1,000	330	3,200	2,200	NA	NA	NA	NA	NA	NA	NA	NA
5/7/02		437.72	7,700	560	320	<25	66	150	6,200	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/11/02		NC	2,800	NA	32	<13	14	<13	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA
12/1/02		437.32	3,000	100	81	<0.5	44	<1.0	4,800	NA	NA	NA	NA	NA	NA	NA	NA	NA
3/14/03		442.28	750	50	<0.5	<0.5	7.7	13	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA
6/25/03		442.89	120	<50	3.2	3.7	4.2	7.6	260	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/16/03		440.65	170	<50	0.5	1.5	<0.5	0.9	1,600	NA	NA	NA	NA	NA	NA	NA	NA	NA
3/10/04		447.31	NS	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
6/15/04		442.82	NS	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/17/04		439.39	NS	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
12/10/04		NC	NS	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
3/2/05		NC	NS	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
5/27/05		446.62	NS	NS	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/21/05		443.75	<50	NS	<0.5	<0.5	<0.5	<0.5	610	NA	NA	NA	NA	NA	NA	NA	NA	NA
10/10/05	442.57	<50	NS	<0.5	<0.5	<0.5	<0.5	31	NA	NA	NA	NA	NA	NA	NA	NA	NA	
1/9/06	447.25	580	55	40	25	45	43	4,200	<170	<1,700	<170	<170	5,200	<170,000	<17,000	<170	<170	
EW-1	3/13/06	446.47	210	120	5.0	4.10	7.5	12	3,400	<50	<100	<50	<50	2,300	<5,000	<50,000	<50	<50
	4/7/06	449.46	1,900	190	66	170	110	380	7,900	<100	<1000	<100	<100	6,400	<10,000	<100,000	<100	<100
	7/27/06	441.60	280	100	7.4	5.5	12	28	8,400	<500	<5,000	<500	<500	12,000	NA	NA	NA	NA
	10/12/06	441.94	2,100	130	86	19	100	310	2,400	<50	1,400	<50	<50	2,800	<5,000	180,000	NA	NA
	1/4/07	444.00	1,600	150	56	27	110	240	5,000	<50	2,900	<50	<50	4,900	<5,000	<50,000	<50	<50
	4/13/07	441.76	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/16/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/29/07	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/1/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/18/08	437.62	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/28/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/4/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	4/21/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9/24/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	

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**Groundwater Analytical Results**  
160 Holmes Street, Livermore, California

Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		
			Gasoline	Diesel	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB	1,2-DCA
EW-1 cont.	3/4/10	NC	4,400	NA	460	<25	380	<25	31,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/20/10	441.10	400	NA	4.4	6.6	1.8	4.4	590	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/20/11	441.87	570	190	21	6.4	14	57	3,500	<50	15,000	<50	<50	3,300	NA	NA	<50	<50
	4/8/11	446.60	410	220	11	4.2	3.1	43	2,400	<50	8,200	<50	<50	3,300	NA	NA	<50	<50
	4/18/11	445.75	200	130	<0.5	1.7	1.1	3.0	4,400	<50	14,000	<50	<50	3,600	NA	NA	<50	<50
	5/9/11	445.76	62	<50	1.2	1.4	<0.5	<0.5	520	<25	4,800	<25	<25	390	NA	NA	<25	<25
	6/2/11	444.93	83	<50	1.3	2.1	<0.5	0.6	180	<100	9,600	<100	<100	240	NA	NA	<100	<100
	6/15/11	444.34	60	<50	<0.5	1.8	<0.5	<0.5	97	<100	6,300	<100	<100	100	NA	NA	<100	<100
	6/30/11	444.04	74	<50	<0.5	2.0	<0.5	<0.5	200	<50	5,700	<50	<50	200	NA	NA	<50	<50
	9/20/11	443.10	63	<50	<0.5	2.1	<0.5	<0.5	210	<50	11,000	<50	<50	190	NA	NA	<50	<50
	11/8/11	442.10	78	<50	<0.5	1.8	<0.5	<0.5	76	<50	7,600	<50	<50	97	NA	NA	<50	<50
	2/2/12	432.07	59	57	<0.5	1.1	<0.5	<0.5	270	<500	50,000	<500	<500	<500	NA	NA	<500	<500
	<b>6/13/12</b>	<b>438.07</b>	<b>&lt;50</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;5.0</b>	<b>&lt;50</b>	<b>13,000</b>	<b>&lt;50</b>	<b>&lt;50</b>	<b>&lt;50</b>	<b>NA</b>	<b>NA</b>	<b>&lt;50</b>	<b>&lt;50</b>
	EW-2	3/13/06	446.81	<250	69	<2.5	<2.5	<2.5	<2.5	5,400	<100	<1,000	<100	<100	5,100	<10,000	<100,000	<100
4/7/06		449.79	470	160	15	2.5	24	13	2,000	<50	<500	<50	<50	1,800	<5,000	<50,000	<50	<50
7/27/06		442.89	260	350	2.2	1.7	6.1	3.0	8,700	<500	<5,000	<500	<500	12,000	NA	NA	NA	NA
10/12/06		444.51	110	<50	2.0	1.0	3.1	3.9	620	<12	<120	<12	<12	680	<1,200	<12,000	NA	NA
1/4/07		444.33	<500	<50	5.3	<5.0	16	7.1	4,500	<50	<500	<50	<50	4,200	<5,000	<50,000	<50	<50
4/13/07		442.06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7/16/07		NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
10/29/07		NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2/1/08		NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4/18/08		437.95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
7/28/08		NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/18/08		NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
2/4/09		NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
4/21/09		NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9/24/09		NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/4/10		NC	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
7/20/10		441.54	<50	NA	<0.5	<0.5	<0.5	<0.5	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
1/21/11		442.27	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	2.8	<0.5	<0.5	2.1	NA	NA	<0.5	<0.5
4/11/11		446.99	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	2.1	<0.5	<0.5	0.65	NA	NA	<0.5	<0.5
4/18/11		446.80	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	0.7	NA	NA	<0.5	<0.5
5/9/11		446.32	<50	<50	<0.5	<0.5	<0.5	<0.5	15	<0.5	2.8	<0.5	<0.5	12	NA	NA	<0.5	<0.5
6/2/11		445.28	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	12	<0.5	<0.5	6.2	NA	NA	<0.5	<0.5
6/15/11		444.99	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	2.3	NA	NA	<0.5	<0.5
6/30/11		444.68	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	2.4	NA	NA	<0.5	<0.5
9/20/11		441.44	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	1.3	NA	NA	<0.5	<0.5
11/8/11	442.39	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<2.0	<0.5	<0.5	1.0	NA	NA	<0.5	<0.5	
2/2/12	432.33	<50	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0	490	<5.0	<5.0	<5.0	NA	NA	<5.0	<5.0	
<b>6/13/12</b>	<b>438.35</b>	<b>&lt;50</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>&lt;2.0</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	<b>0.89</b>	<b>NA</b>	<b>NA</b>	<b>&lt;5.0</b>	<b>&lt;5.0</b>	

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Well ID	Date Collected	Groundwater Elevation (feet above MSL)	Total Petroleum Hydrocarbons (µg/L)		Aromatic Volatile Organic Compounds (µg/L)					Oxygenated Volatile Organics (µg/L)						Lead Scavengers (µg/L)		
			Gasoline	Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	Ethanol	Methanol	EDB	1,2-DCA
EW-3 (a)	11/18/08	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/4/09	NC	<10,000	NA	<100	<100	<100	<100	420,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
	4/21/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/24/09	NC	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/4/10	NC	140,000	NA	240	900	320	28,000	340,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
	7/20/10	NC	23,000	NA	240	940	760	3,100	150,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/21/11	NC	15,000	5,200	230	93	1,100	1,900	150,000	<2,500	72,000	<2,500	<2,500	150,000	NA	NA	<2,500	<2,500
	4/11/11	NC	8,400	590	110	37	690	820	68,000	<2,500	67,000	<2,500	<2,500	79,000	NA	NA	<2,500	<2,500
	4/18/11	NC	7,300	1,300	81	100	350	870	85,000	<1,700	50,000	<1,700	<1,700	72,000	NA	NA	<1,700	<1,700
	5/9/11	NC	5,400	2,200	56	<50	160	350	79,000	<1,000	40,000	<1,000	<1,000	62,000	NA	NA	<1,000	<1,000
	6/1/11	NC	4,800	3,700	53	<25	170	300	50,000	<1,000	43,000	<1,000	<1,000	76,000	NA	NA	<1,000	<1,000
	6/15/11	NC	8,200	2,200	66	<50	270	360	93,000	<2,500	47,000	<2,500	<2,500	85,000	NA	NA	<2,500	<2,500
	6/30/11	NC	8,000	1,900	64	<50	260	260	100,000	<2,500	51,000	<2,500	<2,500	100,000	NA	NA	<2,500	<2,500
	9/20/11	NC	<5,000"	1,700	<50"	64	74	100	80,000	<2,500	91,000	<2,500	<2,500	78,000	NA	NA	<2,500	<2,500
	11/8/11	NC	<6,000"	860	<50"	<50	60	130	82,000	<2,500	49,000	<2,500	<2,500	67,000	NA	NA	<2,500	<2,500
	2/2/12	NC	1,600	510	<5.0"	13	10	35	24,000	<500	62,000	<500	<500	26,000	NA	NA	<500	<500
	<b>6/13/12</b>	<b>NC</b>	<b>490</b>	<b>870</b>	<b>&lt;0.5</b>	<b>2.3</b>	<b>3.0</b>	<b>7.9</b>	<b>8,600</b>	<b>&lt;250</b>	<b>66,000</b>	<b>&lt;250</b>	<b>&lt;250</b>	<b>9,300</b>	<b>NA</b>	<b>NA</b>	<b>&lt;250</b>	<b>&lt;250</b>

Notes:

Samples analyzed for TPHg and TPHd by EPA Method 8015Bm, BTEX by EPA Method 8021B, MTBE by EPA Method 8021B and/or 8260B, and the fuel oxygenates TBA, DIPE, ETBE, TAME, EDB, 1,2-DCA, ethanol, and methanol by EPA Method 8260.

µg/L = micrograms per liter

"= High concentrations of MTBE caused very high detection limits, both TPHg and Benzene were estimated just below the listed detection limits by McCambell Analytical

NS = Not Sampled

NA = Not Analyzed

EDB = 1,2-Dibromoether

1,2-DCA = 1,2-Dichloroethane

MTBE = methyl tertiary butyl ether

DIPE = Di-isopropyl Ether

ETBE = Ethyl tert-Butyl Ether

TAME - tert-Amyl Methyl Ether

TBA = tert-Butanol

" = High concentrations of MTBE resulted in high reporting limits, both TPHg and benzene were estimated just below the listed reporting limits by laboratory

\* = Well MW-1 renamed MW-1A, well MW-2 renamed MW-2A, Well MW-3 renamed MW-3A in February 2006

\*\* = Well destroyed in February 2006

\*\*\* = Anomalous data observed in MW-7C from October 12, 2006 sample. Therefore, wells MW-7A, MW-7B, and MW-7C were resampled on November 21, 2006.

(a) = Well EW-3 is 35 feet deep with a screen interval from 25 to 30 feet bgs.

**APPENDIX B**  
**Groundwater Sampling Field Logs**

Groundwater Sampling Field Log								
Site Address: 160 Holmes				Date: APILK/JS				
Project Number: 160				Field Personnel: 6-13-12				
Monitoring Well Information								
Monitoring Well ID: MW-1A			Monitoring Well Diameter (in): 2"			CC		
Depth to Water (ft): 26.90			Water Column (feet): 1.6			(1.17) = 0.27		
Total Depth (ft): 28.50			80% Recharge Depth (ft):					
Depth to Product (ft):			1 Well Volume (gallons): 0.8					
Comments:								
Field Measurements and Observations								
Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
		0.27	4550	25.2	7.90	High	Grey	5hs wt
		0.54	4480	27.3	7.99	↓	↓	↓
		0.80	4460	32.6	8.14	↓	↓	↓
Total Purge Volume: 0.80			Comments:					
Groundwater Sampling Information								
Sample ID: MW-1A			Sample Time: 1:30 PM					
Sample Containers (#/Type): (5) VOA (1) Amber			Comments:					

Groundwater Sampling Field Log								
Site Address: 160 Holmes				Date: AP/JS				
Project Number: 160				Field Personnel: 6-13-12				
Monitoring Well Information								
Monitoring Well ID: MW-1B			Monitoring Well Diameter (in): 2"			CC		
Depth to Water (ft): 26.99			Water Column (feet): 27.51			(1.17) = 4.7		
Total Depth (ft): 54.50			80% Recharge Depth (ft):					
Depth to Product (ft):			1 Well Volume (gallons): <del>4.7</del> × 3 = 14					
Comments:								
Field Measurements and Observations								
Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
		4.7	557	21.2	7.92	None	Clear	None
		9.4	559	20.4	7.89	↓	↓	↓
		14.0	558	20.3	7.87	↓	↓	↓
Total Purge Volume: 14.0			Comments:					
Groundwater Sampling Information								
Sample ID: MW-1B			Sample Time: 11:30					
Sample Containers (#/Type): (5) VOA (1) Amber			Comments:					

# ALLTERRA

Groundwater Sampling Field Log								
Site Address: <b>160 Holmes</b>				Date: <b>6-12-12</b>				
Project Number: <b>160</b>				Field Personnel: <b>AP/LK/JR</b>				
Monitoring Well Information								
Monitoring Well ID: <b>MW-2A</b>				Monitoring Well Diameter (in): <b>2"</b> <span style="float: right;"><u>CC</u></span>				
Depth to Water (ft): <b>26.79</b>				Water Column (feet): <b>1.61</b> <span style="float: right;">(.17) = <b>.27</b></span>				
Total Depth (ft): <b>28.40</b>				80% Recharge Depth (ft):				
Depth to Product (ft):				1 Well Volume (gallons): <b>.27 x 3 = .82</b>				
Comments:								
Field Measurements and Observations								
Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
		<b>.27</b>	<b>756</b>	<b>24.8</b>	<b>7.79</b>	<b>low</b>	<b>clear</b>	<b>none</b>
		<b>.54</b>	<b>660</b>	<b>23.4</b>	<b>7.77</b>	<b>low</b>	<b>clear</b>	
		<b>.82</b>	<b>611</b>	<b>23.7</b>	<b>7.62</b>	<b>low med</b>	<b>brown</b>	<b>↓</b>
Total Purge Volume: <b>.82</b>				Comments:				
Groundwater Sampling Information								
Sample ID: <b>MW-2A</b>			Sample Time: <b>2:30 p.m.</b>					
Sample Containers (#/Type): <b>(5) VOA (1) Amber</b>			Comments:					

Groundwater Sampling Field Log								
Site Address: <b>160 Holmes</b>				Date: <b>6-12-12</b>				
Project Number: <b>160</b>				Field Personnel: <b>AP/LK/JR</b>				
Monitoring Well Information								
Monitoring Well ID: <b>MW-3A</b>				Monitoring Well Diameter (in): <b>2"</b> <span style="float: right;"><u>CC</u></span>				
Depth to Water (ft): <b>27.47</b>				Water Column (feet): <b>.73</b> <span style="float: right;">(.17) = <b>.12</b></span>				
Total Depth (ft): <b>28.20</b>				80% Recharge Depth (ft):				
Depth to Product (ft):				1 Well Volume (gallons): <b>.12 x 3 = .37</b>				
Comments:								
Field Measurements and Observations								
Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
		<b>.12</b>	<b>609</b>	<b>24.7</b>	<b>7.86</b>	<b>high</b>	<b>Brown</b>	<b>NONE</b>
		<b>.24</b>	<b>603</b>	<b>24.3</b>	<b>7.77</b>	<b>↓</b>	<b>↓</b>	<b>↓</b>
		<b>.37</b>	<b>602</b>	<b>23.4</b>	<b>7.81</b>	<b>↓</b>	<b>↓</b>	<b>↓</b>
Total Purge Volume:				Comments:				
Groundwater Sampling Information								
Sample ID: <b>MW-3A</b>			Sample Time: <b>3:00</b>					
Sample Containers (#/Type): <b>(4) VOA</b>			Comments:					

Groundwater Sampling Field Log								
Site Address: 160 Holmes				Date: 6/12/12				
Project Number: 160				Field Personnel: JB/AP/LK				
Monitoring Well Information								
Monitoring Well ID: MW-4A				Monitoring Well Diameter (in): 2"		CC		
Depth to Water (ft): 27.27				Water Column (feet): 1.53		(1.17) = 0.26		
Total Depth (ft): 28.80				80% Recharge Depth (ft):				
Depth to Product (ft):				1 Well Volume (gallons): $0.26 \times 3 = 0.78$				
Comments:								
Field Measurements and Observations								
Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
		0.26	361	29.7	8.05	Medium	Brown	None
		0.52	683	30.5	7.88	↓	↓	↓
		0.78	633	28.1	7.87			
Total Purge Volume: 0.78				Comments:				
Groundwater Sampling Information								
Sample ID: MW-4A				Sample Time: 1:15				
Sample Containers (#/Type): (4) VOA				Comments:				

Groundwater Sampling Field Log								
Site Address: 160 Holmes				Date: 6/12/12				
Project Number: 160				Field Personnel: JB/AP/LK				
Monitoring Well Information								
Monitoring Well ID: MW-5A				Monitoring Well Diameter (in): 2"		CC		
Depth to Water (ft): 28.39				Water Column (feet): 5.61		(1.17) = 0.95		
Total Depth (ft): 34.00				80% Recharge Depth (ft):				
Depth to Product (ft):				1 Well Volume (gallons): <del>2.86</del> $0.95 \times 3 = 2.86$				
Comments:								
Field Measurements and Observations								
Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
		0.95	812	24.7	8.15	low	clear	none
		1.9	828	24.9	7.97	low medium	clear	↓
		2.86	839	24.3	7.94	low high	clear	↓
Total Purge Volume: 2.86				Comments:				
Groundwater Sampling Information								
Sample ID: MW-5A				Sample Time: 12:30				
Sample Containers (#/Type): (5) (4) VOA				Comments:				



Groundwater Sampling Field Log								
Site Address: 160 Holmes				Date: 6/12/12				
Project Number: 160				Field Personnel: JBI/APILK				
Monitoring Well Information								
Monitoring Well ID: MW-5B				Monitoring Well Diameter (in): 2"		CC		
Depth to Water (ft): 28.65				Water Column (feet): 23.99 (.17) = 4.08				
Total Depth (ft): 52.64				80% Recharge Depth (ft):				
Depth to Product (ft):				1 Well Volume (gallons): 4.08 x 3 = 12.23				
Comments:								
Field Measurements and Observations								
Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
		4.08	575	23.3	8.15	low	light grey	none
		8.16	581	22.3	8.13	↓	↓	↓
		12.23	586	22.4	8.07	↓	↓	↓
Total Purge Volume: 12.23				Comments:				
Groundwater Sampling Information								
Sample ID: MW-5B			Sample Time: 12:45					
Sample Containers (#/Type): <del>5</del> VOA (5)			Comments:					

Groundwater Sampling Field Log								
Site Address: 160 Holmes				Date: 6/12/12				
Project Number: 160				Field Personnel: JBI/APILK				
Monitoring Well Information								
Monitoring Well ID: MW-6				Monitoring Well Diameter (in): 2"		CC		
Depth to Water (ft): 27.62				Water Column (feet): 19.38 (.17) = 3.29				
Total Depth (ft): 47.00				80% Recharge Depth (ft):				
Depth to Product (ft):				1 Well Volume (gallons): 3.29 x 3 = 9.88				
Comments:								
Field Measurements and Observations								
Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
		3.29	578	21.9	8.79	Medium	tan	None
		6.59	586	21.7	8.63	Medium	tan	↓
		9.88	598	20.7	8.54	Medium, light dark tan		↓
Total Purge Volume: 9.88				Comments:				
Groundwater Sampling Information								
Sample ID: MW-6			Sample Time: 12:00 PM					
Sample Containers (#/Type): <del>5</del> VOA (5)			Comments:					

Groundwater Sampling Field Log								
Site Address: 160 Holmes				Date: 6-13-12				
Project Number: 160				Field Personnel: AP/LK/JB				
Monitoring Well Information								
Monitoring Well ID: MW-7A				Monitoring Well Diameter (in): 2" <span style="float: right;">CC</span>				
Depth to Water (ft): 27.93				Water Column (feet): 1.07 <span style="float: right;">(.17) = .18</span>				
Total Depth (ft): 29.00				80% Recharge Depth (ft):				
Depth to Product (ft):				1 Well Volume (gallons): $.18 \times 3 = .55$				
Comments:								
Field Measurements and Observations								
Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
		.18	1700	26.2	8.46	High	Grey	None
		.36	1680	26.3	8.94	↓	↓	↓
		.55	1660	28.9	8.88			
Total Purge Volume: .55				Comments:				
Groundwater Sampling Information								
Sample ID: MW-7A			Sample Time: 2:15 PM					
Sample Containers (#/Type): (5) VOA (1) Amber			Comments:					

Groundwater Sampling Field Log								
Site Address: 160 Holmes				Date: 6-13-12				
Project Number: 160				Field Personnel: AP/LK/JB				
Monitoring Well Information								
Monitoring Well ID: MW-7B				Monitoring Well Diameter (in): 2" <span style="float: right;">CC</span>				
Depth to Water (ft): 28.14				Water Column (feet): 20.36 <span style="float: right;">(.17) = 3.46</span>				
Total Depth (ft): 48.50				80% Recharge Depth (ft):				
Depth to Product (ft):				1 Well Volume (gallons): $3.46 \times 3 = 10.38$				
Comments:								
Field Measurements and Observations								
Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
		3.46	585	22.8	8.47	None	Clear	None
		6.92	656	22.3	8.30	↓	↓	↓
		10.38	660	21.6	8.21			
Total Purge Volume: 10.38				Comments:				
Groundwater Sampling Information								
Sample ID: MW-7B			Sample Time: 1:45					
Sample Containers (#/Type): (5) VOA (1) Amber			Comments:					

Groundwater Sampling Field Log								
Site Address: 160 Holmes				Date: AP/LK/JB				
Project Number: 160				Field Personnel: <del>AP/LK</del> 6-13-12				
Monitoring Well Information								
Monitoring Well ID: MW-7C				Monitoring Well Diameter (in): 2"		CC		
Depth to Water (ft): 28.54				Water Column (feet): 39.96 (1.17) = 6.79				
Total Depth (ft): 68.50				80% Recharge Depth (ft):				
Depth to Product (ft):				1 Well Volume (gallons): 6.79 x 3 = 20.38				
Comments:								
Field Measurements and Observations								
Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
		6.79	492	21.7	7.78	None	Clear	None
		13.58	577	21.4	7.77	↓	↓	↓
		20.38	579	20.8	7.76			
Total Purge Volume: 20.38				Comments: 12:30				
Groundwater Sampling Information								
Sample ID: MW-7C				Sample Time:				
Sample Containers (#/Type): (5) VOA (1) Amber								
Comments:								

Groundwater Sampling Field Log								
Site Address: 160 Holmes				Date: 6-12-12				
Project Number: 160				Field Personnel: JB/AP/LK				
Monitoring Well Information								
Monitoring Well ID: MW-8A				Monitoring Well Diameter (in): 2"		CC		
Depth to Water (ft): 28.01				Water Column (feet): 7.44 (1.17) = 1.27				
Total Depth (ft): 35.50				80% Recharge Depth (ft):				
Depth to Product (ft):				1 Well Volume (gallons): 1.27 x 3 = 3.82				
Comments:								
Field Measurements and Observations								
Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
		1.27	789	23.6	8.03	low	light brown	None
		2.54	787	22.7	7.96	medium	↓	↓
		3.82	760	22.0	7.90	↓	↓	↓
Total Purge Volume: 3.82				Comments:				
Groundwater Sampling Information								
Sample ID: MW-8A				Sample Time: 3:15				
Sample Containers (#/Type): (5) VOA								
Comments:								

Groundwater Sampling Field Log								
Site Address: <b>160 Holmes</b>					Date: <del>6/12/12</del> <b>6/13/12</b>			
Project Number: <b>160</b>					Field Personnel: <b>JB/AP/LK</b>			
Monitoring Well Information								
Monitoring Well ID: <b>MW-8B</b>					Monitoring Well Diameter (in): <b>2"</b> <span style="float: right;"><b>CC</b></span>			
Depth to Water (ft): <b>27.75</b>					Water Column (feet): <b>22.75</b> $(.17) = 3.86$			
Total Depth (ft): <b>50.50</b>					80% Recharge Depth (ft):			
Depth to Product (ft):					1 Well Volume (gallons): $3.86 \times 3 = 11.6$			
Comments:								
Field Measurements and Observations								
Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
		<b>3.86</b>	<b>560</b>	<b>21.3</b>	<b>8.34</b>	<b>None</b>	<b>clear</b>	<b>None</b>
		<b>7.74</b>	<b>555</b>	<b>21.0</b>	<b>8.17</b>	↓	↓	↓
		<b>11.6</b>	<b>559</b>	<b>20.5</b>	<b>8.07</b>	↓	↓	↓
Total Purge Volume:					Comments:			
Groundwater Sampling Information								
Sample ID: <b>MW-8B</b>					Sample Time: <b>11:20</b>			
Sample Containers (#/Type): <b>(5) VOA</b>								
Comments:								

Groundwater Sampling Field Log								
Site Address: <b>160 Holmes</b>					Date: <b>6/12/12</b>			
Project Number: <b>160</b>					Field Personnel: <b>JB/AP/LK</b>			
Monitoring Well Information								
Monitoring Well ID: <b>MW-9B</b>					Monitoring Well Diameter (in): <b>2"</b> <span style="float: right;"><b>CC</b></span>			
Depth to Water (ft): <b>27.19</b>					Water Column (feet): <b>23.81</b> $(.17) = 4.05$			
Total Depth (ft): <b>51.00</b>					80% Recharge Depth (ft):			
Depth to Product (ft):					1 Well Volume (gallons): $4.05 \times 3 = 12.14$			
Comments:								
Field Measurements and Observations								
Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
		<b>4.05</b>	<b>773</b>	<b>21.5</b>	<b>7.81</b>	<b>low</b>	<b>tan</b>	<b>none</b>
		<b>8.09</b>	<b>762</b>	<b>21.3</b>	<b>7.68</b>	<b>low</b>	<b>tan</b>	
		<b>12.14</b>	<b>772</b>	<b>21.3</b>	<b>7.66</b>	<b>low</b>	<b>tan</b>	
Total Purge Volume: <b>12.14</b>					Comments:			
Groundwater Sampling Information								
Sample ID: <b>MW-9A</b>					Sample Time: <b>2:00 pm.</b>			
Sample Containers (#/Type): <b>(5) VOA (1) Amber</b>								
Comments:								

Groundwater Sampling Field Log								
Site Address: 160 Holmes				Date: 6/12/12				
Project Number: 160				Field Personnel: JB/AP/LK				
Monitoring Well Information								
Monitoring Well ID: MW-9A				Monitoring Well Diameter (in): 2"		CC		
Depth to Water (ft): 27.3				Water Column (feet): 12.2		(1.17) = 2.07		
Total Depth (ft): 39.50				80% Recharge Depth (ft):				
Depth to Product (ft):				1 Well Volume (gallons): $2.07 \times 3 = 6.22$				
Comments:								
Field Measurements and Observations								
Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
		2.07	570	23.4	8.2	light	white	none
		4.15	573	23.2	8.14	medium	brown	↓
		6.22	567	22.5	8.05	↓	brown	↓
Total Purge Volume: 6.22				Comments:				
Groundwater Sampling Information								
Sample ID: MW-9B			Sample Time: 2:00 PM					
Sample Containers (#/Type): (5) VOA (1) Amber			Comments:					

Groundwater Sampling Field Log								
Site Address: 160 Holmes				Date: <del>6-12-12</del> 6-13-12				
Project Number: 160				Field Personnel: JB/AP/LK				
Monitoring Well Information								
Monitoring Well ID: EW-1				Monitoring Well Diameter (in): 4"		CC		
Depth to Water (ft): 27.38				Water Column (feet): 11.62		(6.66) = 7.666		
Total Depth (ft): 39.00				80% Recharge Depth (ft):				
Depth to Product (ft):				1 Well Volume (gallons): $7.666 \times 3 = 23.00$				
Comments:								
Field Measurements and Observations								
Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
		7.66	636	20.8	8.06	Medium brown	light brown	slight
		15.35	649	20.8	7.97	↓	↓	↓
		23.00	657	20.7	7.94	↓	↓	↓
Total Purge Volume: 23.00				Comments:				
Groundwater Sampling Information								
Sample ID: EW-1			Sample Time: 1:30					
Sample Containers (#/Type): (5) VOA (1) Amber			Comments:					



### Groundwater Sampling Field Log

Site Address: **160 Holmes** Date: ~~6/12/12~~ **6-13-12**  
 Project Number: **160** Field Personnel: **JB/AP/LK**

#### Monitoring Well Information

Monitoring Well ID: **EW-2** Monitoring Well Diameter (in): **4"** **CC**  
 Depth to Water (ft): **27.64** Water Column (feet): **9.36** **(.66) = 6.18**  
 Total Depth (ft): **37.00** 80% Recharge Depth (ft):  
 Depth to Product (ft): 1 Well Volume (gallons): **6.18 x 3 = 18.5**  
 Comments:

#### Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
		6.18	823	21.1	7.95	High	Grey	None
		12.35	745	20.3	7.74	High	↓	↓
		18.5	673	20.2	7.75	High	↓	↓

Total Purge Volume: **18.5** Comments:

#### Groundwater Sampling Information

Sample ID: **EW-2** Sample Time: **12:15**  
 Sample Containers (#/Type): **(5) VOA (1) Amber**  
 Comments:

### Groundwater Sampling Field Log

Site Address: **160 Holmes** Date: ~~6/12/12~~ **6-13-12**  
 Project Number: **160** Field Personnel: **JB/AP/LK**

#### Monitoring Well Information

Monitoring Well ID: **EW-3** Monitoring Well Diameter (in): **4"** **CC**  
 Depth to Water (ft): **27.31** Water Column (feet): **6.69** **(.66) = 4.42**  
 Total Depth (ft): **34.00** 80% Recharge Depth (ft):  
 Depth to Product (ft): 1 Well Volume (gallons): **4.42 x 3 = 13.25**  
 Comments:

#### Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
		4.42	3040	21.2	8.43	Medium	Dark Grey	Strong
		8.83	3090	27.0	7.7	↓	↓	↓
		13.25	3260	27.8	7.72	↓	↓	↓

Total Purge Volume: **13.25** Comments: **2:15**

#### Groundwater Sampling Information

Sample ID: **EW-3** Sample Time:  
 Sample Containers (#/Type): **(5) VOA (1) Amber**  
 Comments:

**APPENDIX C**  
**Certified Analytical Report and Chain-of-Custody**



## Analytical Report

Allterra Environmental  849 Almar Ave, Ste. C #281  Santa Cruz, CA 95060	Client Project ID: #160; 160 Holmes Street, Livermore CA	Date Sampled: 06/12/12-06/13/12
		Date Received: 06/15/12
	Client Contact: James Allen	Date Reported: 06/20/12
	Client P.O.:	Date Completed: 06/20/12

**WorkOrder: 1206464**

June 20, 2012

Dear James:

Enclosed within are:

- 1) The results of the **18** analyzed samples from your project: **#160; 160 Holmes Street, Livermore CA,**
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.


Best regards,

Angela Rydelius  
 Laboratory Manager  
 McC Campbell Analytical, Inc.

*The analytical results relate only to the items tested.*





 1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

WorkOrder: 1206464

ClientCode: ATRS

WaterTrax     WriteOn     EDF     Excel     EquiS     Email     HardCopy     ThirdParty     J-flag

**Report to:**  
James Allen  
Allterra Environmental  
849 Almar Ave, Ste. C #281  
Santa Cruz, CA 95060  
831-425-2608    FAX: 831-425-2609

**Bill to:**  
Accounts Payable  
Allterra Environmental  
849 Almar Ave, Ste. C #281  
Santa Cruz, CA 95060  
micah@allterraenv.com

**Requested TAT:**    **5 days**

**Date Received:**    **06/15/2012**  
**Date Printed:**    **06/15/2012**

Email: allterraenvironmental@yahoo.com; micah  
cc:  
PO:  
ProjectNo: #160; 160 Holmes Street, Livermore CA

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1206464-001	MW-1A	Water	6/13/2012 13:30	<input type="checkbox"/>		C	A	A	B							
1206464-002	MW-1B	Water	6/13/2012 11:30	<input type="checkbox"/>		C	A		B							
1206464-003	MW-2A	Water	6/12/2012 14:30	<input type="checkbox"/>		C	A		B							
1206464-004	MW-3A	Water	6/12/2012 15:00	<input type="checkbox"/>			A									
1206464-005	MW-4A	Water	6/12/2012 13:15	<input type="checkbox"/>			A									
1206464-006	MW-5A	Water	6/12/2012 12:30	<input type="checkbox"/>	B		A									
1206464-007	MW-5B	Water	6/12/2012 12:45	<input type="checkbox"/>	B		A									
1206464-008	MW-6	Water	6/12/2012 12:00	<input type="checkbox"/>	B		A									
1206464-009	MW-7A	Water	6/13/2012 14:15	<input type="checkbox"/>		C	A		B							
1206464-010	MW-7B	Water	6/13/2012 13:45	<input type="checkbox"/>		C	A		B							
1206464-011	MW-7C	Water	6/13/2012 12:30	<input type="checkbox"/>		C	A		B							
1206464-012	MW-8A	Water	6/12/2012 15:15	<input type="checkbox"/>	B		A									
1206464-013	MW-8B	Water	6/13/2012 11:20	<input type="checkbox"/>	B		A									
1206464-014	MW-9A	Water	6/12/2012 14:00	<input type="checkbox"/>		C	A		B							

**Test Legend:**

1	5-OXYS_W	2	5-OXYS+PBSCV_W	3	G-MBTX_W	4	PREFD REPORT	5	TPH(D)_W
6		7		8		9		10	
11		12							

**Prepared by: Maria Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



1534 Willow Pass Rd  
Pittsburg, CA 94565-1701  
(925) 252-9262

**WorkOrder: 1206464**

**ClientCode: ATRS**

WaterTrax   
  WriteOn   
  EDF   
  Excel   
  EQUIS   
  Email   
  HardCopy   
  ThirdParty   
  J-flag

**Report to:**

James Allen  
Allterra Environmental  
849 Almar Ave, Ste. C #281  
Santa Cruz, CA 95060  
831-425-2608    FAX: 831-425-2609

Email: allterraenvironmental@yahoo.com; micah  
cc:  
PO:  
ProjectNo: #160; 160 Holmes Street, Livermore CA

**Bill to:**

Accounts Payable  
Allterra Environmental  
849 Almar Ave, Ste. C #281  
Santa Cruz, CA 95060  
micah@allterraenv.com

**Requested TAT: 5 days**

*Date Received: 06/15/2012*

*Date Printed: 06/15/2012*

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1206464-015	MW-9B	Water	6/12/2012 14:00	<input type="checkbox"/>		C	A		B							
1206464-016	EW-1	Water	6/13/2012 13:30	<input type="checkbox"/>		C	A		B							
1206464-017	EW-2	Water	6/13/2012 12:15	<input type="checkbox"/>		C	A		B							
1206464-018	EW-3	Water	6/13/2012 14:15	<input type="checkbox"/>		C	A		B							

**Test Legend:**

1	5-OXYS_W	2	5-OXYS+PBSCV_W	3	G-MBTX_W	4	PREFD REPORT	5	TPH(D)_W
6		7		8		9		10	
11		12							

**Prepared by: Maria Venegas**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).  
Hazardous samples will be returned to client or disposed of at client expense.



### Sample Receipt Checklist

Client Name: **Allterra Environmental** Date and Time Received: **6/15/2012 9:20:20 AM**  
 Project Name: **#160; 160 Holmes Street, Livermore CA** LogIn Reviewed by: **Maria Venegas**  
 WorkOrder N°: **1206464** Matrix: Water Carrier: OnTrac

**Chain of Custody (COC) Information**

Chain of custody present? Yes  No   
 Chain of custody signed when relinquished and received? Yes  No   
 Chain of custody agrees with sample labels? Yes  No   
 Sample IDs noted by Client on COC? Yes  No   
 Date and Time of collection noted by Client on COC? Yes  No   
 Sampler's name noted on COC? Yes  No

**Sample Receipt Information**

Custody seals intact on shipping container/cooler? Yes  No  NA   
 Shipping container/cooler in good condition? Yes  No   
 Samples in proper containers/bottles? Yes  No   
 Sample containers intact? Yes  No   
 Sufficient sample volume for indicated test? Yes  No

**Sample Preservation and Hold Time (HT) Information**

All samples received within holding time? Yes  No   
 Container/Temp Blank temperature Cooler Temp: 0.2°C NA   
 Water - VOA vials have zero headspace / no bubbles? Yes  No  No VOA vials submitted   
 Sample labels checked for correct preservation? Yes  No   
 Metal - pH acceptable upon receipt (pH<2)? Yes  No  NA   
 Samples Received on Ice? Yes  No

(Ice Type: WET ICE )

\* NOTE: If the "No" box is checked, see comments below.

-----  
 Comments:



Allterra Environmental  849 Almar Ave, Ste. C #281  Santa Cruz, CA 95060	Client Project ID: #160; 160 Holmes Street, Livermore CA	Date Sampled: 06/12/12-06/13/12
	Client Contact: James Allen	Date Received: 06/15/12
	Client P.O.:	Date Extracted: 06/15/12-06/18/12
		Date Analyzed: 06/15/12-06/18/12

**Oxygenated Volatile Organics by P&T and GC/MS\***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1206464

Lab ID	1206464-006B	1206464-007B	1206464-008B	1206464-012B	Reporting Limit for DF=1	
Client ID	MW-5A	MW-5B	MW-6	MW-8A		
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound	Concentration				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND	ND	ND	ND	NA	0.5
t-Butyl alcohol (TBA)	ND	ND	ND	ND	NA	2.0
Diisopropyl ether (DIPE)	ND	ND	ND	ND	NA	0.5
Ethyl tert-butyl ether (ETBE)	ND	ND	ND	ND	NA	0.5
Methyl-t-butyl ether (MTBE)	ND	ND	ND	5.3	NA	0.5

**Surrogate Recoveries (%)**

%SS1:	83	81	81	110		
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**Comments**

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

# surrogate diluted out of range or surrogate coelutes with another peak.



**McC Campbell Analytical, Inc.**

*"When Quality Counts"*

1534 Willow Pass Road, Pittsburg, CA 94565-1701  
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269  
http://www.mccampbell.com / E-mail: main@mccampbell.com

Allterra Environmental  849 Almar Ave, Ste. C #281  Santa Cruz, CA 95060	Client Project ID: #160; 160 Holmes Street, Livermore CA	Date Sampled: 06/12/12-06/13/12
	Client Contact: James Allen	Date Received: 06/15/12
	Client P.O.:	Date Extracted: 06/15/12-06/18/12
		Date Analyzed: 06/15/12-06/18/12

**Oxygenated Volatile Organics by P&T and GC/MS\***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1206464

Lab ID	1206464-013B				Reporting Limit for DF=1	
Client ID	MW-8B					
Matrix	W					
DF	1					
<b>Compound</b>	<b>Concentration</b>				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND				NA	0.5
t-Butyl alcohol (TBA)	ND				NA	2.0
Diisopropyl ether (DIPE)	ND				NA	0.5
Ethyl tert-butyl ether (ETBE)	ND				NA	0.5
Methyl-t-butyl ether (MTBE)	ND				NA	0.5

**Surrogate Recoveries (%)**

%SS1:	82				
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**Comments**

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

# surrogate diluted out of range or surrogate coelutes with another peak.



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Allterra Environmental  849 Almar Ave, Ste. C #281  Santa Cruz, CA 95060	Client Project ID: #160; 160 Holmes Street, Livermore CA	Date Sampled: 06/12/12-06/13/12
	Client Contact: James Allen	Date Received: 06/15/12
	Client P.O.:	Date Extracted: 06/16/12-06/19/12
		Date Analyzed: 06/16/12-06/19/12

**Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS\***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1206464

Lab ID	1206464-001C	1206464-002C	1206464-003C	1206464-009C	Reporting Limit for DF = 1	
Client ID	MW-1A	MW-1B	MW-2A	MW-7A		
Matrix	W	W	W	W		
DF	100	1	1	1		

Compound	Concentration				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND<50	ND	ND	ND	NA	0.5
t-Butyl alcohol (TBA)	10,000	ND	5.4	4.6	NA	2.0
1,2-Dibromoethane (EDB)	ND<50	ND	ND	ND	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND<50	ND	ND	ND	NA	0.5
Diisopropyl ether (DIPE)	ND<50	ND	ND	ND	NA	0.5
Ethyl tert-butyl ether (ETBE)	ND<50	ND	ND	ND	NA	0.5
Methyl-t-butyl ether (MTBE)	ND<50	ND	1.1	ND	NA	0.5

**Surrogate Recoveries (%)**

%SS1:	108	108	107	83	
-------	-----	-----	-----	----	--

Comments	b1			b1	
----------	----	--	--	----	--

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b1) aqueous sample that contains greater than ~1 vol. % sediment



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Allterra Environmental  849 Almar Ave, Ste. C #281  Santa Cruz, CA 95060	Client Project ID: #160; 160 Holmes Street, Livermore CA	Date Sampled: 06/12/12-06/13/12
	Client Contact: James Allen	Date Received: 06/15/12
	Client P.O.:	Date Extracted: 06/16/12-06/19/12
		Date Analyzed: 06/16/12-06/19/12

**Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS\***

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1206464

Lab ID	1206464-010C	1206464-011C	1206464-014C	1206464-015C	Reporting Limit for DF = 1	
Client ID	MW-7B	MW-7C	MW-9A	MW-9B		
Matrix	W	W	W	W		
DF	25	1	1	1		

Compound	Concentration				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND<12	ND	ND	ND	NA	0.5
t-Butyl alcohol (TBA)	2400	ND	ND	ND	NA	2.0
1,2-Dibromoethane (EDB)	ND<12	ND	ND	ND	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND<12	ND	ND	ND	NA	0.5
Diisopropyl ether (DIPE)	ND<12	ND	ND	ND	NA	0.5
Ethyl tert-butyl ether (ETBE)	ND<12	ND	ND	ND	NA	0.5
Methyl-t-butyl ether (MTBE)	ND<12	ND	ND	1.6	NA	0.5

**Surrogate Recoveries (%)**

%SS1:	106	108	108	78	
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**Comments**

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b1) aqueous sample that contains greater than ~1 vol. % sediment





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Allterra Environmental  849 Almar Ave, Ste. C #281  Santa Cruz, CA 95060	Client Project ID: #160; 160 Holmes Street, Livermore CA	Date Sampled: 06/12/12-06/13/12
	Client Contact: James Allen	Date Received: 06/15/12
	Client P.O.:	Date Extracted: 06/16/12-06/19/12
		Date Analyzed: 06/16/12-06/19/12

### Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1206464

Lab ID	1206464-016C	1206464-017C	1206464-018C		Reporting Limit for DF = 1	
Client ID	EW-1	EW-2	EW-3			
Matrix	W	W	W			
DF	100	1	500			

Compound	Concentration				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND<50	ND	ND<250		NA	0.5
t-Butyl alcohol (TBA)	13,000	ND	66,000		NA	2.0
1,2-Dibromoethane (EDB)	ND<50	ND	ND<250		NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND<50	ND	ND<250		NA	0.5
Diisopropyl ether (DIPE)	ND<50	ND	ND<250		NA	0.5
Ethyl tert-butyl ether (ETBE)	ND<50	ND	ND<250		NA	0.5
Methyl-t-butyl ether (MTBE)	ND<50	0.89	9300		NA	0.5

### Surrogate Recoveries (%)

%SS1:	104	103	109		
-------	-----	-----	-----	--	--

**Comments**

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

b1) aqueous sample that contains greater than ~1 vol. % sediment



Allterra Environmental  849 Almar Ave, Ste. C #281  Santa Cruz, CA 95060	Client Project ID: #160; 160 Holmes Street, Livermore CA	Date Sampled: 06/12/12-06/13/12
	Client Contact: James Allen	Date Received: 06/15/12
	Client P.O.:	Date Extracted: 06/16/12-06/19/12
		Date Analyzed: 06/16/12-06/19/12

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE\***

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1206464

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	MW-1A	W	65	5.5	0.96	0.70	ND	ND	1	104	d1,b1
002A	MW-1B	W	ND	ND	ND	ND	ND	ND	1	93	
003A	MW-2A	W	ND	ND	ND	ND	ND	ND	1	107	
004A	MW-3A	W	ND	ND	ND	ND	ND	ND	1	94	b1
005A	MW-4A	W	ND	ND	ND	ND	ND	ND	1	96	b1
006A	MW-5A	W	ND	ND	ND	ND	ND	ND	1	97	
007A	MW-5B	W	ND	ND	ND	ND	ND	ND	1	94	
008A	MW-6	W	ND	ND	ND	ND	ND	ND	1	101	
009A	MW-7A	W	390	ND	ND	9.9	ND	ND	1	---#	d9,b1
010A	MW-7B	W	ND	ND	ND	ND	ND	ND	1	100	
011A	MW-7C	W	ND	ND	ND	ND	ND	ND	1	100	
012A	MW-8A	W	ND	ND	ND	ND	ND	ND	1	97	
013A	MW-8B	W	ND	ND	ND	ND	ND	ND	1	98	
014A	MW-9A	W	ND	ND	ND	ND	ND	ND	1	113	
015A	MW-9B	W	ND	ND	ND	ND	ND	ND	1	110	
016A	EW-1	W	ND	ND	ND	ND	ND	ND	1	101	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

\* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

# cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

- b1) aqueous sample that contains greater than ~1 vol. % sediment
- d1) weakly modified or unmodified gasoline is significant
- d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
- d9) no recognizable pattern



Allterra Environmental  849 Almar Ave, Ste. C #281  Santa Cruz, CA 95060	Client Project ID: #160; 160 Holmes Street, Livermore CA	Date Sampled: 06/12/12-06/13/12
	Client Contact: James Allen	Date Received: 06/15/12
	Client P.O.:	Date Extracted: 06/16/12-06/19/12
		Date Analyzed: 06/16/12-06/19/12

**Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE\***

Extraction method: SW5030B      Analytical methods: SW8021B/8015Bm      Work Order: 1206464

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
017A	EW-2	W	ND	ND	ND	ND	ND	ND	1	110	
018A	EW-3	W	490	8600	ND	2.3	3.0	7.9	1	106	d7,d9

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

\* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

# cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment  
 d1) weakly modified or unmodified gasoline is significant  
 d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram  
 d9) no recognizable pattern



Allterra Environmental  849 Almar Ave, Ste. C #281  Santa Cruz, CA 95060	Client Project ID: #160; 160 Holmes Street, Livermore CA	Date Sampled: 06/12/12-06/13/12
	Client Contact: James Allen	Date Received: 06/15/12
	Client P.O.:	Date Extracted 06/15/12
		Date Analyzed 06/15/12-06/16/12

**Total Extractable Petroleum Hydrocarbons\***

Extraction method: SW3510C

Analytical methods: SW8015B

Work Order: 1206464

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments
1206464-001B	MW-1A	W	300	1	88	e2,e4,b1
1206464-002B	MW-1B	W	ND	1	85	
1206464-003B	MW-2A	W	ND	1	86	
1206464-009B	MW-7A	W	1200	1	100	e7,e4/e11,e2,b1
1206464-010B	MW-7B	W	ND	1	93	
1206464-011B	MW-7C	W	ND	1	89	
1206464-014B	MW-9A	W	ND	1	86	
1206464-015B	MW-9B	W	ND	1	88	
1206464-016B	EW-1	W	ND	1	88	
1206464-017B	EW-2	W	ND	1	88	
1206464-018B	EW-3	W	870	1	86	e4/e11,e7,e2

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

\* water samples are reported in ug/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

- b1) aqueous sample that contains greater than ~1 vol. % sediment
- e2) diesel range compounds are significant; no recognizable pattern
- e4) gasoline range compounds are significant.; and/or e11) stoddard solvent/mineral spirit (?)
- e7) oil range compounds are significant



### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 68395

WorkOrder: 1206464

EPA Method: SW8260B		Extraction: SW5030B					Spiked Sample ID: 1206464-007B			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
tert-Amyl methyl ether (TAME)	ND	10	117	125	6.51	95.7	70 - 130	20	70 - 130	
t-Butyl alcohol (TBA)	ND	40	103	105	1.58	81.8	70 - 130	20	70 - 130	
Diisopropyl ether (DIPE)	ND	10	97.8	105	7.05	81.4	70 - 130	20	70 - 130	
Ethyl tert-butyl ether (ETBE)	ND	10	110	117	6.20	89.5	70 - 130	20	70 - 130	
Methyl-t-butyl ether (MTBE)	ND	10	111	118	5.76	89.8	70 - 130	20	70 - 130	
%SS1:	81	25	82	83	0.749	78	70 - 130	20	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
 NONE

#### BATCH 68395 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1206464-006B	06/12/12 12:30 PM	06/16/12	06/16/12 12:21 AM	1206464-007B	06/12/12 12:45 PM	06/15/12	06/15/12 6:58 PM
1206464-008B	06/12/12 12:00 PM	06/16/12	06/16/12 1:01 AM	1206464-012B	06/12/12 3:15 PM	06/18/12	06/18/12 10:23 PM
1206464-013B	06/13/12 11:20 AM	06/16/12	06/16/12 4:15 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 % Recovery =  $100 * (MS - Sample) / (Amount Spiked)$ ;  $RPD = 100 * (MS - MSD) / ((MS + MSD) / 2)$ .  
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.  
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.  
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.  
 Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



**QC SUMMARY REPORT FOR SW8260B**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 68395

WorkOrder: 1206464

EPA Method: SW8260B		Extraction: SW5030B					Spiked Sample ID: 1206464-007B			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
tert-Amyl methyl ether (TAME)	ND	10	117	125	6.51	95.7	70 - 130	20	70 - 130	
t-Butyl alcohol (TBA)	ND	40	103	105	1.58	81.8	70 - 130	20	70 - 130	
1,2-Dibromoethane (EDB)	ND	10	111	116	4.11	95.5	70 - 130	20	70 - 130	
1,2-Dichloroethane (1,2-DCA)	ND	10	107	115	6.71	87.8	70 - 130	20	70 - 130	
Diisopropyl ether (DIPE)	ND	10	97.8	105	7.05	81.4	70 - 130	20	70 - 130	
Ethyl tert-butyl ether (ETBE)	ND	10	110	117	6.20	89.5	70 - 130	20	70 - 130	
Methyl-t-butyl ether (MTBE)	ND	10	111	118	5.76	89.8	70 - 130	20	70 - 130	
%SS1:	81	25	82	83	0.749	78	70 - 130	20	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
 NONE

BATCH 68395 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1206464-001C	06/13/12 1:30 PM	06/18/12	06/18/12 7:09 PM	1206464-002C	06/13/12 11:30 AM	06/18/12	06/18/12 7:48 PM
1206464-003C	06/12/12 2:30 PM	06/18/12	06/18/12 8:27 PM	1206464-009C	06/13/12 2:15 PM	06/16/12	06/16/12 1:40 AM
1206464-010C	06/13/12 1:45 PM	06/18/12	06/18/12 9:06 PM	1206464-011C	06/13/12 12:30 PM	06/18/12	06/18/12 9:44 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$   
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.  
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.  
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.  
 Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



**QC SUMMARY REPORT FOR SW8260B**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 68449

WorkOrder: 1206464

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
tert-Amyl methyl ether (TAME)	ND	10	109	102	6.66	76.9	70 - 130	20	70 - 130
t-Butyl alcohol (TBA)	ND	40	124	117	6.01	84	70 - 130	20	70 - 130
1,2-Dibromoethane (EDB)	ND	10	105	102	2.45	83.4	70 - 130	20	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	105	102	3.17	86.5	70 - 130	20	70 - 130
Diisopropyl ether (DIPE)	ND	10	90.2	86.3	4.52	82.5	70 - 130	20	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	105	98.6	6.37	81.1	70 - 130	20	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	108	101	7.12	78.1	70 - 130	20	70 - 130
%SS1:	99	25	107	107	0	105	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
 NONE

**BATCH 68449 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1206464-014C	06/12/12 2:00 PM	06/19/12	06/19/12 12:57 AM	1206464-015C	06/12/12 2:00 PM	06/19/12	06/19/12 7:45 PM
1206464-016C	06/13/12 1:30 PM	06/19/12	06/19/12 8:47 PM	1206464-017C	06/13/12 12:15 PM	06/19/12	06/19/12 10:16 PM
1206464-018C	06/13/12 2:15 PM	06/19/12	06/19/12 3:33 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 68415

WorkOrder: 1206464

EPA Method: SW8021B/8015Bm		Extraction: SW5030B					Spiked Sample ID: 1206440-002A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) £	ND	60	94.9	90.6	4.60	89.5	70 - 130	20	70 - 130	
MTBE	ND	10	96.5	89.8	7.16	81.3	70 - 130	20	70 - 130	
Benzene	ND	10	85.6	84.8	0.937	78.8	70 - 130	20	70 - 130	
Toluene	ND	10	87.1	86.5	0.626	80.7	70 - 130	20	70 - 130	
Ethylbenzene	ND	10	86.6	85.6	1.16	79.8	70 - 130	20	70 - 130	
Xylenes	ND	30	88.5	86.1	2.68	81.1	70 - 130	20	70 - 130	
%SS:	88	10	91	94	3.01	89	70 - 130	20	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
 NONE

BATCH 68415 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1206464-001A	06/13/12 1:30 PM	06/19/12	06/19/12 11:35 PM	1206464-002A	06/13/12 11:30 AM	06/16/12	06/16/12 3:36 AM
1206464-003A	06/12/12 2:30 PM	06/18/12	06/18/12 7:09 PM	1206464-004A	06/12/12 3:00 PM	06/16/12	06/16/12 4:34 AM
1206464-005A	06/12/12 1:15 PM	06/16/12	06/16/12 5:04 AM	1206464-006A	06/12/12 12:30 PM	06/16/12	06/16/12 5:33 AM
1206464-007A	06/12/12 12:45 PM	06/16/12	06/16/12 6:02 AM	1206464-008A	06/12/12 12:00 PM	06/16/12	06/16/12 7:30 AM
1206464-009A	06/13/12 2:15 PM	06/16/12	06/16/12 8:00 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 $\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / ((\text{MS} + \text{MSD}) / 2).$   
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.  
 £ TPH(btex) = sum of BTEX areas from the FID.  
 # cluttered chromatogram; sample peak coelutes with surrogate peak.  
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.  
 NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.





**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 68416

WorkOrder: 1206464

EPA Method: SW8021B/8015Bm		Extraction: SW5030B					Spiked Sample ID: 1206464-014A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) £	ND	60	109	108	1.25	109	70 - 130	20	70 - 130	
MTBE	ND	10	105	97.8	6.87	106	70 - 130	30	70 - 130	
Benzene	ND	10	105	102	3.66	105	70 - 130	20	70 - 130	
Toluene	ND	10	106	102	3.67	106	70 - 130	30	70 - 130	
Ethylbenzene	ND	10	106	102	3.40	106	70 - 130	20	70 - 130	
Xylenes	ND	30	108	102	4.95	107	70 - 130	20	70 - 130	
%SS:	113	10	108	115	6.55	109	70 - 130	20	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
 NONE

BATCH 68416 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1206464-010A	06/13/12 1:45 PM	06/18/12	06/18/12 7:39 PM	1206464-011A	06/13/12 12:30 PM	06/18/12	06/18/12 10:34 PM
1206464-012A	06/12/12 3:15 PM	06/18/12	06/18/12 11:03 PM	1206464-013A	06/13/12 11:20 AM	06/18/12	06/18/12 11:32 PM
1206464-014A	06/12/12 2:00 PM	06/16/12	06/16/12 9:19 AM	1206464-015A	06/12/12 2:00 PM	06/16/12	06/16/12 10:52 AM
1206464-016A	06/13/12 1:30 PM	06/19/12	06/19/12 12:01 AM	1206464-017A	06/13/12 12:15 PM	06/16/12	06/16/12 11:55 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 % Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).  
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.  
 £ TPH(btex) = sum of BTEX areas from the FID.  
 # cluttered chromatogram; sample peak coelutes with surrogate peak.  
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.  
 NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.



**QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 68457

WorkOrder: 1206464

EPA Method: SW8021B/8015Bm		Extraction: SW5030B					Spiked Sample ID: 1206528-002A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) £	ND	60	93.2	90.4	3.01	90.1	70 - 130	20	70 - 130	
MTBE	ND	10	85.2	82.8	2.93	85.2	70 - 130	20	70 - 130	
Benzene	ND	10	87.7	87.9	0.229	87.8	70 - 130	20	70 - 130	
Toluene	ND	10	88.4	88.9	0.667	87.5	70 - 130	20	70 - 130	
Ethylbenzene	ND	10	90.3	91.6	1.42	89.2	70 - 130	20	70 - 130	
Xylenes	ND	30	91.7	92.6	0.984	90.6	70 - 130	20	70 - 130	
%SS:	100	10	96	98	1.71	97	70 - 130	20	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
 NONE

BATCH 68457 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1206464-018A	06/13/12 2:15 PM	06/18/12	06/18/12 5:41 PM	1206464-018A	06/13/12 2:15 PM	06/19/12	06/19/12 9:36 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 % Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).  
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.  
 £ TPH(btex) = sum of BTEX areas from the FID.  
 # cluttered chromatogram; sample peak coelutes with surrogate peak.  
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.  
 NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.



**QC SUMMARY REPORT FOR SW8015B**

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 68367

WorkOrder: 1206464

EPA Method: SW8015B		Extraction: SW3510C					Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	114	N/A	N/A	70 - 130	
%SS:	N/A	625	N/A	N/A	N/A	95	N/A	N/A	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
 NONE

BATCH 68367 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1206464-001B	06/13/12 1:30 PM	06/15/12	06/16/12 12:10 AM	1206464-002B	06/13/12 11:30 AM	06/15/12	06/15/12 6:33 PM
1206464-003B	06/12/12 2:30 PM	06/15/12	06/15/12 7:41 PM	1206464-009B	06/13/12 2:15 PM	06/15/12	06/15/12 11:03 PM
1206464-010B	06/13/12 1:45 PM	06/15/12	06/16/12 3:29 AM	1206464-011B	06/13/12 12:30 PM	06/15/12	06/16/12 3:29 AM
1206464-014B	06/12/12 2:00 PM	06/15/12	06/15/12 5:25 PM	1206464-015B	06/12/12 2:00 PM	06/15/12	06/15/12 11:03 PM
1206464-016B	06/13/12 1:30 PM	06/15/12	06/16/12 2:23 AM	1206464-017B	06/13/12 12:15 PM	06/15/12	06/16/12 4:36 AM
1206464-018B	06/13/12 2:15 PM	06/15/12	06/16/12 1:16 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 % Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).  
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.  
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.  
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.