

RECEIVED

9:47 am, Mar 23, 2009

Alameda County
Environmental Health



**First Quarter 2009 Groundwater Monitoring Report for
Fuel Leak Case No. RO0000324, Livermore Gas and Mini Mart
160 Holmes Street, Livermore, California**

Date:
March 11, 2009

Project No.:
160

Prepared For:
Livermore Gas and Mini mart
Attention: Manwel and Samira Shuwayhat
54 Wolfe Canyon Road
Kentfield, California 94904

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

Phone: (831) 425-2608
Fax: (831) 425-2609
<http://www.allterraenv.com>



March 11, 2009
Project No.: 160

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

Subject: First Quarter 2009 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 first quarter 2009 groundwater monitoring 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 and interim remedial results, and presents conclusions and recommendations regarding groundwater conditions at the Site.

Site Location and Description

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

Groundwater Monitoring

Groundwater monitoring activities are completed on a quarterly basis in order to evaluate groundwater quality beneath and downgradient of the Site over time. For this quarter, groundwater monitoring of fifteen wells (MW-1A through MW-9B) and three extraction wells (EW-1, EW-2, and EW-3) was completed on February 4, 2009.

Groundwater Monitoring Field Activities

Groundwater monitoring activities included measuring the depth to static groundwater in wells MW-1A through MW-9B relative to the top of well casings (TOC), evaluating groundwater in each well for the presence of petroleum hydrocarbon odor and sheen, and purging and sampling groundwater from wells for laboratory analysis. During this quarter, water levels in nine monitoring wells were too low to collect samples; therefore, only six monitoring wells and one extraction well were sampled for laboratory analysis (MW-1B, MW-5B, MW-7B, MW-7C, MW-8B, MW-9B, and EW-3). Groundwater monitoring field activities were completed in accordance with Alameda County Environmental Health Services (ACEHS), Regional Water Quality Control Board (RWQCB) guidelines, and Allterra protocols presented in Appendix A. Data and observations gathered during this quarter were recorded in Groundwater Sampling Field Logs, which are included in Appendix B.

Laboratory Analysis of Groundwater Samples

Groundwater samples from monitoring wells and extraction well EW-3 were submitted under chain-of-custody documentation to McCampbell Analytical, Inc., of Pacheco, California, a State of California certified laboratory (ELAP #1644). The samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by EPA method 8015C, and for benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tert-butyl ether (MTBE) by EPA Method 8021B. The samples were not analyzed for MTBE, ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), di-isopropyl ether (DIPE), tert-butyl alcohol (TBA), methanol, ethanol, 1,2-dibromoethane (EDB), and 1,2-dichloroethane (1,2-DCA) by EPA Method 8260B as a cost saving measure due to the lack of funding from the UST Cleanup Fund. A copy of the chain-of-custody documentation for the samples and the certified analytical report, including quality assurance and quality control (QA/QC) data, are included in Appendix C.

Purge water

Purge water generated during purging of the groundwater monitoring wells was stored on-site in Department of Transportation (DOT) approved 55-gallon drums pending disposal.

Groundwater Monitoring Results

Groundwater Elevation and Gradient Results

On February 4, 2009, recorded depths to groundwater in monitoring wells MW-1A through MW-9B ranged from 46.65 to 47.95 feet below ground surface (bgs). Groundwater elevations are summarized in Table 1 and depicted in Figure 3. For the February 2009 groundwater monitoring event, nine monitoring wells were dry; therefore, there was an insufficient number of wells to calculate a groundwater flow direction and gradient. Historically, groundwater flow is toward the northwest at gradients of less than 0.01 feet per foot.

Analytical Results

Fuel-related compounds were detected at or above laboratory detection limits in two of the seven wells sampled. Dissolved TPHg, toluene, and xylenes were detected in one of the seven wells sampled (MW-7B). In well MW-7B, TPHg was detected at a concentration of 620 micrograms per kilogram ($\mu\text{g/L}$); and toluene and xylenes were detected at concentrations of 23 $\mu\text{g/L}$ and 2.7 $\mu\text{g/L}$, respectively. BTEX compounds were not detected in the other sampled wells. MTBE was detected in one well, EW-3, at a concentration of 420,000 $\mu\text{g/L}$. Groundwater analytical results from well samples are presented in Table 2 and the distribution of TPHg, TPHd, benzene, and MTBE in groundwater is presented in Figure 4.

Discussion of EW-3 Data

Analytical results for the groundwater sample collected from well EW-3 indicated a high concentration of MTBE (420,000 $\mu\text{g/L}$), which is consistent with previous sample data from the well. However, data from well EW-3 may not be truly representative of current groundwater conditions in that area of the Site because of EW-3's casing and screen interval. EW-3 has slotted screen from 25 to 30 feet bgs, with solid casing from 30 to 35 feet bgs; therefore, water collected from well EW-3 had been suspended in the blank casing at the bottom of the well, above the actual water table. While the MTBE level was consistent with historical data collected

from that area of the Site, it is our conclusion that this sample was not representative of current groundwater conditions.

Status Update of UST Cleanup Fund

As reported in the previous quarter, the UST Cleanup Fund is still in a financial crisis and has significantly delayed reimbursement payments to claimants. Based on our estimates, the UST Cleanup Fund will not issue a reimbursement for your claim (Claim No. 14294) until May at the earliest. Therefore, Allterra proposes to continue its immediate cost-saving measures to help the involved parties survive this difficult period, by limiting laboratory analyses to TPHg, BTEX, and MTBE by EPA Method 8015C/8021B, thereby reducing costs by more than \$150 per sample. Additionally, we recommend postponing implementation of the November 4, 2008 Work Plan for Pilot Scale Vapor Extraction System until after the reimbursement check has been received. Implementing these proposals will allow for continued corrective action for the Site.

Conclusions

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

- Due to continued low water table conditions, nine monitoring wells and two extraction wells were dry and were not sampled.
- For the February 2009 monitoring event, fuel-related compounds were detected at or above laboratory detection limits in two of the seven wells sampled.
- Wells MW-1A and MW-7A (wells screened to 30 feet bgs) have historically had high levels of contaminants; however, due to the depressed water table, these wells have not been sampled since April 2007.

Recommendations

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

- Continue with the quarterly groundwater monitoring program at the Site.
- Implement the Work Plan for Pilot Scale Vapor Extraction System, as soon as project funding is made available by the UST Cleanup Fund.


Limitations

Allterra prepared this report for the use of Livermore Gas and Mini Mart and ACEHS in evaluating groundwater quality at selected on-site 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.


James Allen, R.E.A. II
Project Manager


Michael Killoran, P.G. 6670
Senior Geologist



List of Figures

Figure 1, Site Vicinity Map

Figure 2, Site Plan

Figure 3, Groundwater Elevations Map for 2/4/09

Figure 4, Concentrations of Fuel-Related Hydrocarbons in Groundwater

List of Tables

Table 1, Groundwater Elevation Data

Table 2, Groundwater Analytical Results

List of Appendices

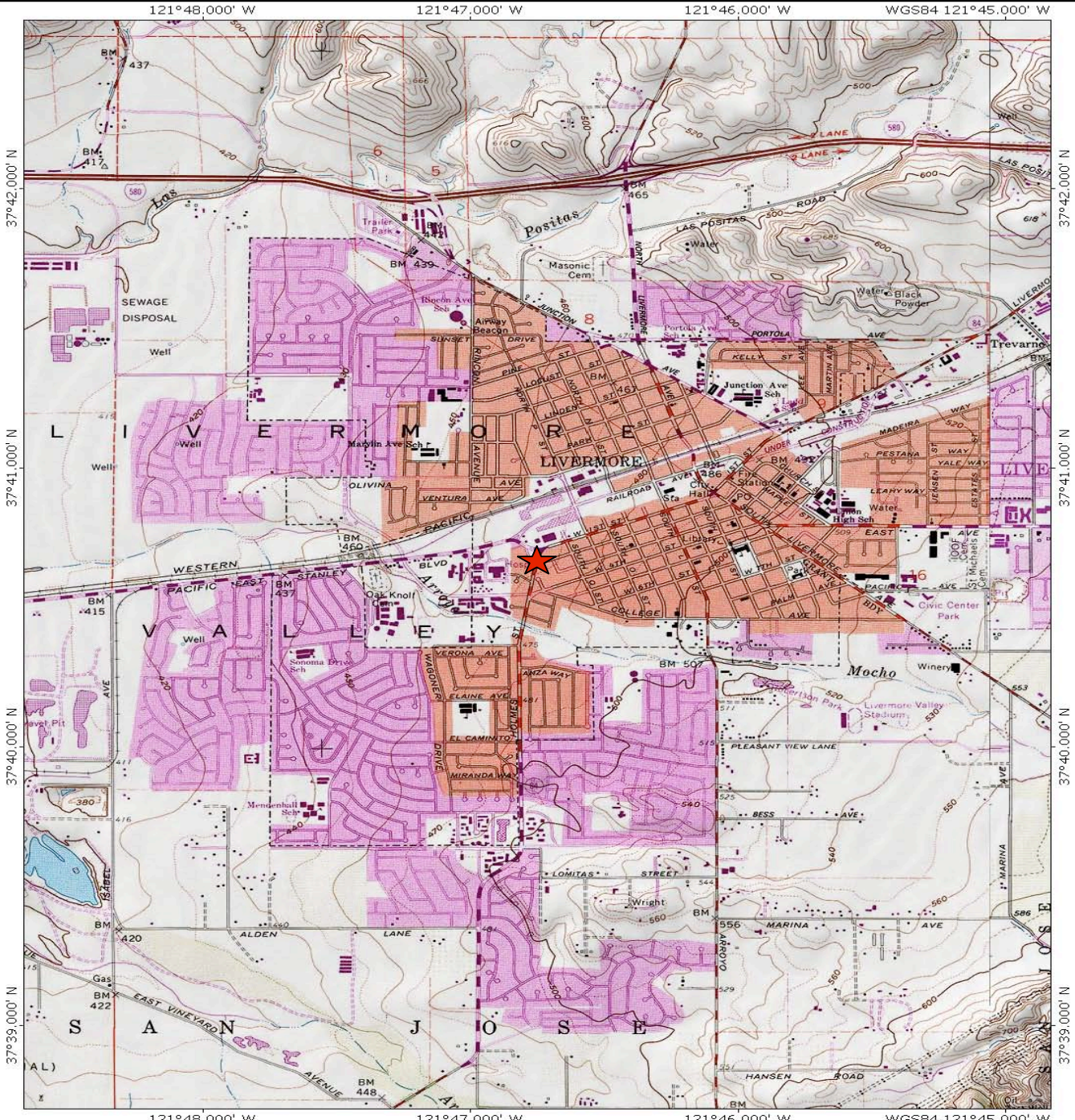
Appendix A, Groundwater Monitoring Field Protocol

Appendix B, Groundwater Sampling Field Logs

Appendix C, Certified Analytical Reports and Chain of Custody

cc: Jerry Wickham, ACEHS

FIGURES 1-4

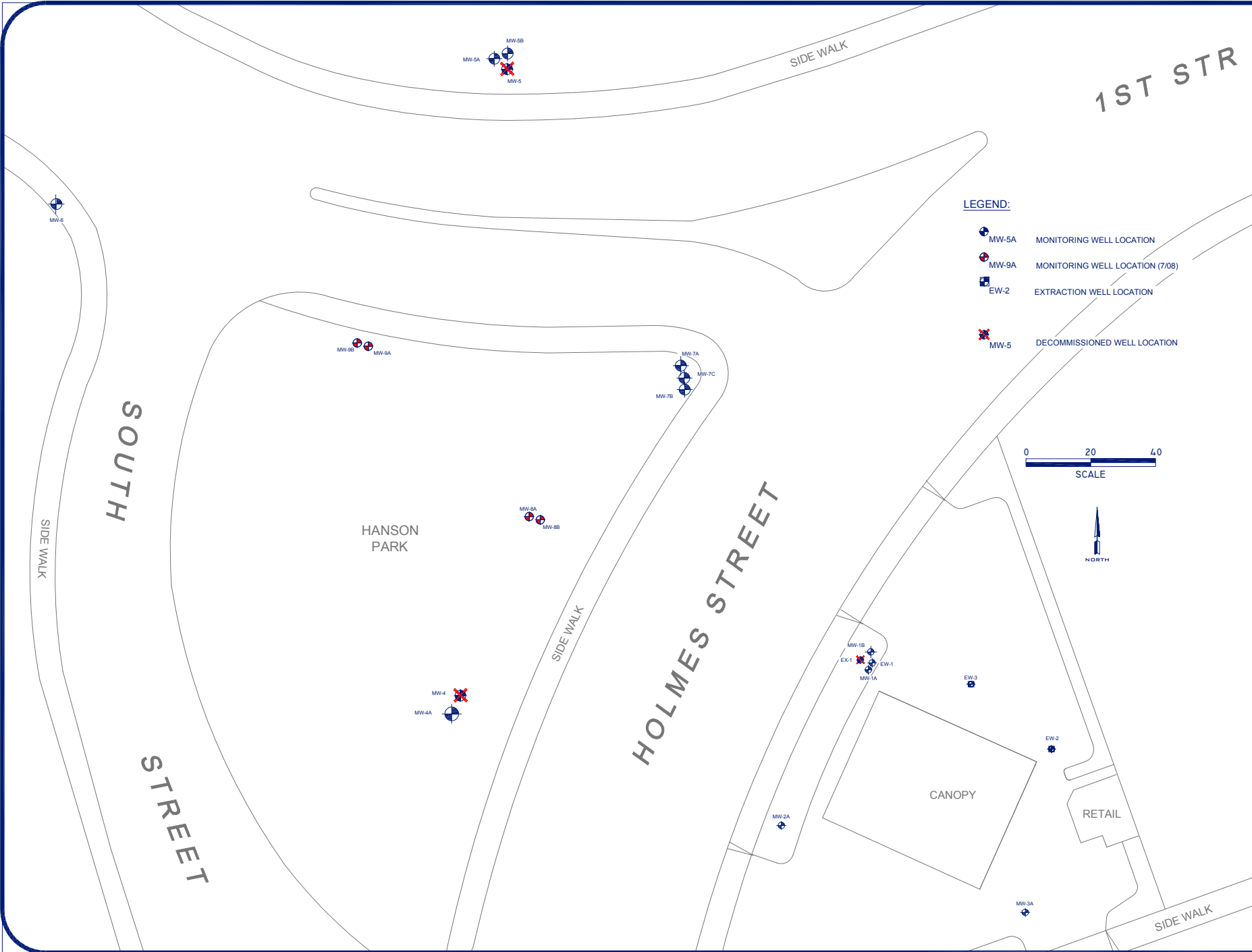


Site Vicinity Map
 Livermore Gas and Minimart
 160 Holmes Street
 Livermore, California

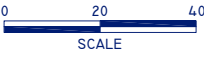
Figure 1

3/2/09

ALLTERRA
 849 Almar Avenue, Suite C, No. 281
 Santa Cruz, California
<http://www.allterraenv.com>



- LEGEND:**
- MW-5A MONITORING WELL LOCATION
 - MW-9A MONITORING WELL LOCATION (7/08)
 - EW-2 EXTRACTION WELL LOCATION
 - MW-5 DECOMMISSIONED WELL LOCATION



General Notes

stamp

160 HOLMES STREET
SOIL AND GROUNDWATER INVESTIGATION
AND REMEDIATION PROJECT



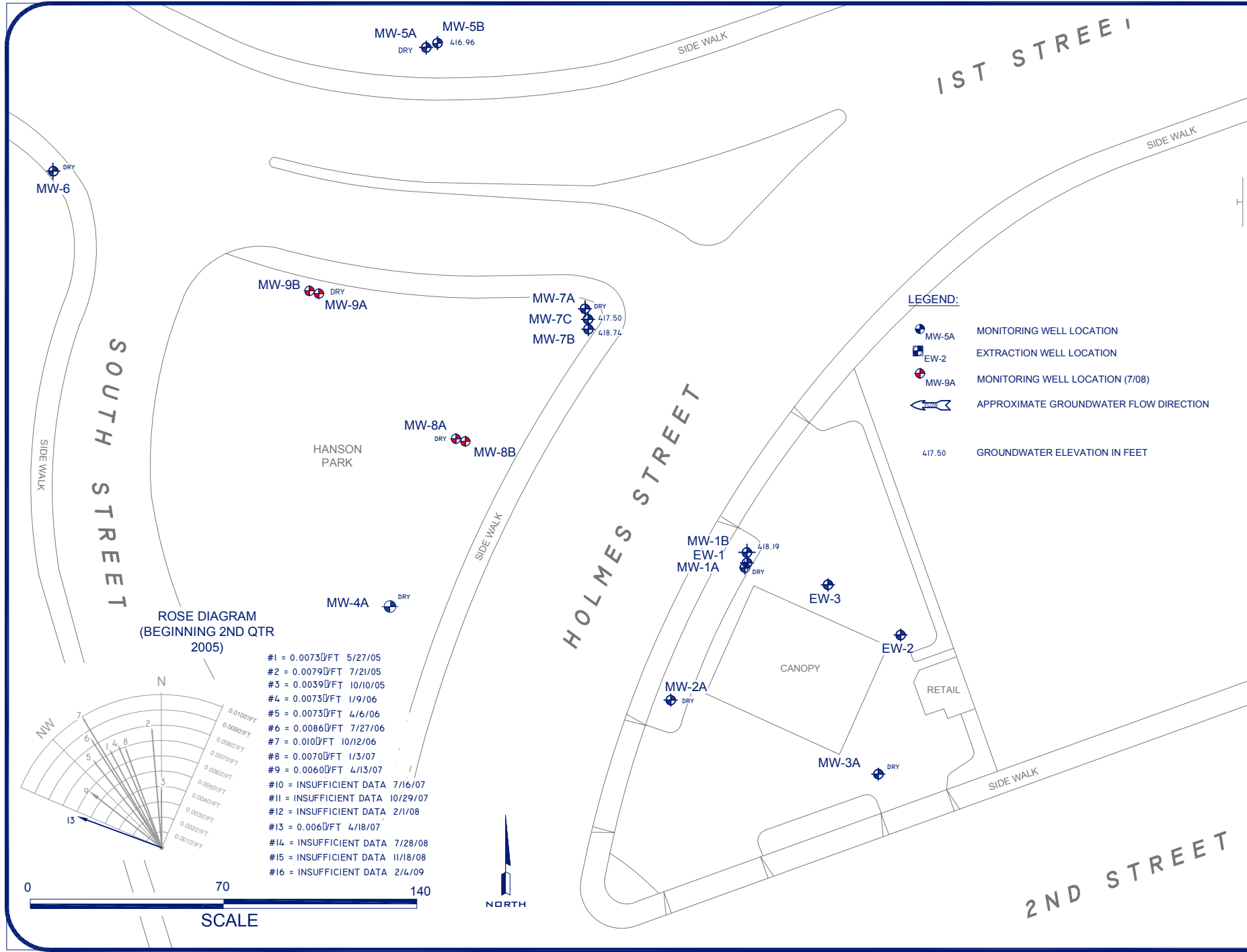
0	DRAFT/REVIEW	2/17
No.	Revision/Issue	Date

Firm Name and Address
ALLTERRA
 ENVIRONMENTAL, INC.
 849 ALMAR AVE., SUITE C, No. 281
 SANTA CRUZ, CALIFORNIA
 831-425-2608 FAX 831-425-2609
 www.allterraenv.com

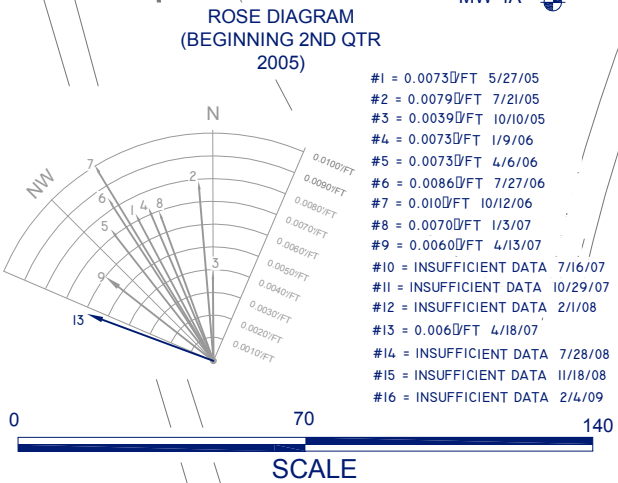
Client Name and Address
SITE PLAN
 FIRST QUARTER 2009
 GROUNDWATER MONITORING
 REPORT

<small>Project</small> 160	<small>Sheet</small> FIGURE 2
<small>Date</small> 2-17-09	
<small>Scale</small> see drawing	

USER
REVDATE
FNAME



- LEGEND:**
- MW-5A MONITORING WELL LOCATION
 - EW-2 EXTRACTION WELL LOCATION
 - MW-9A MONITORING WELL LOCATION (7/08)
 - APPROXIMATE GROUNDWATER FLOW DIRECTION
 - 417.50 GROUNDWATER ELEVATION IN FEET



General Notes

stamp

160 HOLMES STREET, LIVERMORE, CALIFORNIA
GROUNDWATER MONITORING REPORT

PREPARED BY:
ALLTERRA

0	DRAFT/REVIEW	2/17
No.	Revision/Issue	Date

Client Name and Address

ALL TERRA ENVIRONMENTAL, INC.
849 ALMAR AVE., SUITE C, No. 281
SANTA CRUZ, CALIFORNIA
831-425-2608 FAX 831-425-2609
www.allterraenv.com

Sheet Name and Address

GROUNDWATER ELEVATIONS
MAP FOR 2/4/09

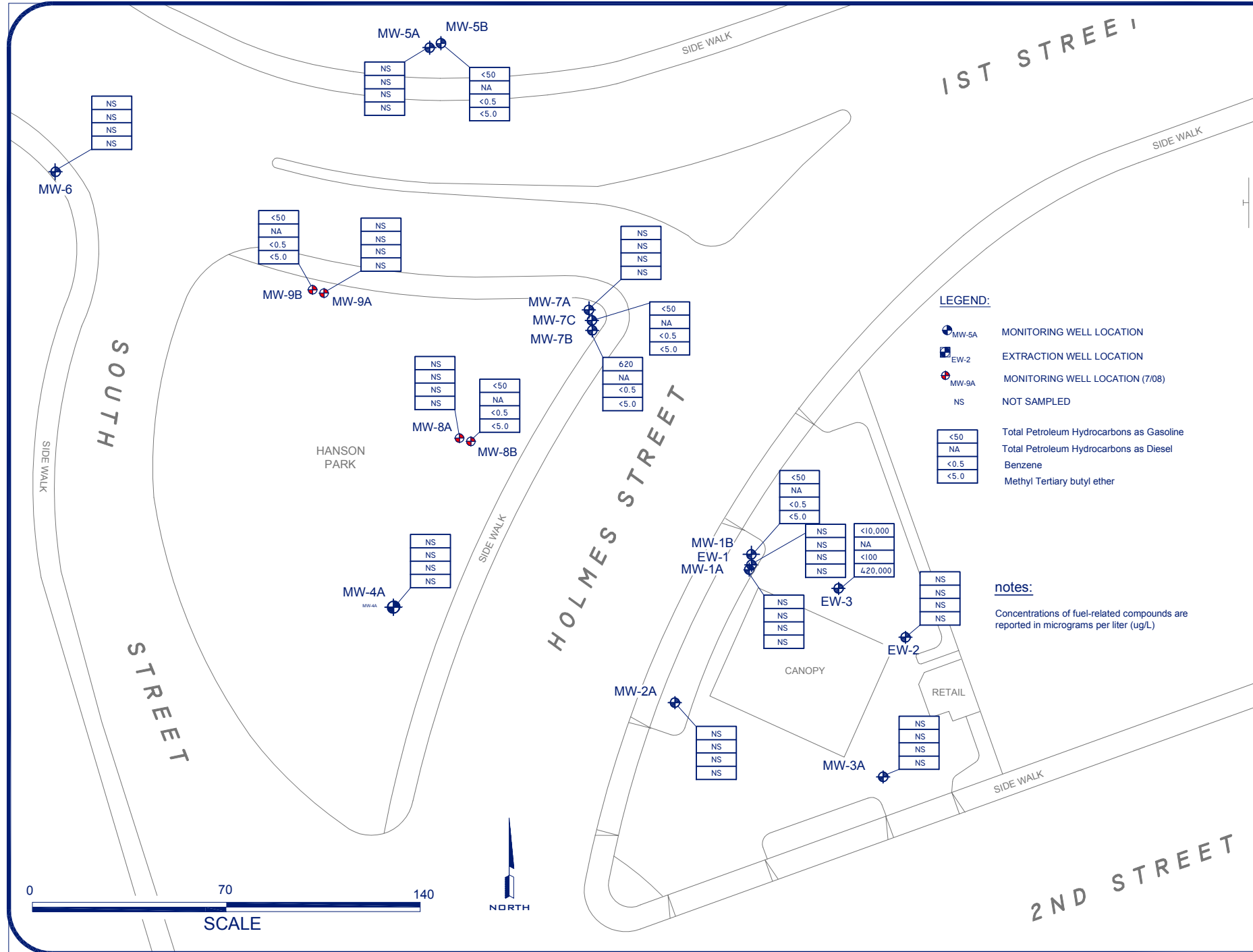
FIRST QUARTER 2009
GROUNDWATER MONITORING
REPORT

Project	160	Sheet	FIGURE 3
Date	2-17-09		
Scale	see drawing		

USER

REVDATE

FNNAME



General Notes

stamp

160 HOLMES STREET, LIVERMORE, CALIFORNIA
GROUNDWATER MONITORING REPORT

PREPARED BY:
ALLTERRA

0	DRAFT/REVIEW	2/17
No.	Revision/Issue	Date

Client Name and Address
ALLTERRA ENVIRONMENTAL, INC.
 849 ALMAR AVE., SUITE C, No. 281
 SANTA CRUZ, CALIFORNIA
 831-425-2608 FAX 831-425-2609
 www.allterraenv.com

Sheet Name and Address
 CONCENTRATION OF FUEL RELATED HYDROCARBONS IN GROUNDWATER
 FIRST QUARTER 2009 GROUNDWATER MONITORING REPORT

Project	160	Sheet	FIGURE 4
Date	2-17-09		
Scale	see drawing		

USER
RE/DATE
FNAME

TABLES 1-2

Table 1
Groundwater Elevation Data
160 Holmes Street, Livermore

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		21.94	443.09
	2/22/01	465.03		22.91	442.12
	5/30/01	465.03		Dry	NC
	11/14/01	465.03		Dry	NC
	5/7/02	465.03		Dry	NC
	9/11/02	465.03		26.16	438.87
	12/1/02	465.03		27.55	437.48
	3/14/03	465.03		22.63	442.40
	6/25/03	465.03		22.10	442.93
	9/16/03	465.03		24.91	440.12
	12/22/03	465.03		21.75	443.28
	3/10/04	465.03		17.45	447.58
	6/15/04	465.03		22.38	442.65
	9/17/04	465.03		25.61	439.42
	12/10/04	465.03		22.18	442.85
	3/2/05	465.03		16.95	448.08
	5/27/05	465.03		18.42	446.61
	7/21/05	465.03		21.38	443.65
	10/10/05	465.03		22.49	442.54
1/9/06	465.03	18.05	446.98		
MW-1A*	4/6/06	465.03	15-30	15.60	449.43
	7/27/06	465.03		22.42	442.61
	10/12/06	465.03		23.46	441.57
	1/3/07	465.03		21.00	444.03
	4/13/07	465.03		23.24	441.79
	7/16/07	465.03		Dry	NC
	10/29/07	465.03		Dry	NC
	2/1/08	465.03		Dry	NC
	4/18/08	465.03		27.34	437.69
	7/28/08	465.03		Dry	NC
	11/18/08	465.03		Dry	NC
	2/4/09	465.03		Dry	NC
	MW-1B**	4/6/06		465.02	50-55
7/27/06		465.02	22.47	442.55	
10/12/06		465.02	23.51	441.51	
1/3/07		465.02	21.04	443.98	
4/13/07		465.02	23.30	441.72	
7/16/07		465.02	35.57	429.45	
10/29/07		465.02	47.32	417.70	
2/1/08		465.02	33.90	431.12	
4/18/08		465.02	27.35	437.67	
7/28/08		465.02	44.03	420.99	
11/18/08		465.02	48.50	416.52	
2/4/09		465.02	46.83	418.19	
MW-2		8/11/00	464.94	15-30	
	10/19/00	464.94	21.80		443.14
	2/22/01	464.94	22.87		442.07
	5/30/01	464.94	Dry		NC
	11/14/01	464.94	Dry		NC
	5/7/02	464.94	26.70		438.24
	9/11/02	464.94	25.96		438.98
	12/11/02	464.94	27.56		437.38
	3/14/03	464.94	22.41		442.53
	6/25/03	464.94	21.97		442.97
	9/16/03	464.94	24.70		440.24
	12/22/03	464.94	21.58		443.36

Table 1
Groundwater Elevation Data
160 Holmes Street, Livermore

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)
MW-2 (cont.)	3/10/04	464.94		17.31	447.63
	6/15/04	464.94		22.18	442.76
	9/17/04	464.94		25.44	439.50
	12/10/04	464.94		22.00	442.94
	3/2/05	464.94		16.75	448.19
	5/27/05	464.94		18.29	446.65
	7/21/05	464.94		20.46	444.48
	10/10/05	464.94		22.30	442.64
	1/9/06	464.94		17.67	447.27
MW-2A	4/6/06	464.94	15-30	15.47	449.47
	7/27/06	464.94		22.27	442.67
	10/12/06	464.94		23.35	441.59
	1/3/07	464.94		20.90	444.04
	4/13/07	464.94		23.16	441.78
	7/16/07	464.94		Dry	NC
	10/29/07	464.94		Dry	NC
	2/1/08	464.94		Dry	NC
	4/18/08	464.94		27.26	437.68
	7/28/08	464.94		Dry	NC
	11/18/08	464.94		Dry	NC
	2/4/09	464.94		Dry	NC
MW-3	8/11/00	465.84	15-30	NM	NC
	10/19/00	465.84		22.45	443.39
	2/22/01	465.84		23.51	442.33
	5/30/01	465.84		Dry	NC
	11/14/01	465.84		Dry	NC
	5/7/02	465.84		Dry	NC
	9/11/02	465.84		26.61	439.23
	12/11/02	465.84		28.18	437.66
	3/14/03	465.84		23.04	442.80
	6/25/03	465.84		22.59	443.25
	9/16/03	465.84		25.33	440.51
	12/22/03	465.84		22.37	443.47
	3/10/04	465.84		17.88	447.96
	6/15/04	465.84		22.82	443.02
	9/17/04	465.84		26.09	439.75
	12/10/04	465.84		22.65	443.19
	3/5/05	465.84		17.33	448.51
	5/27/05	465.84		18.89	446.95
	7/21/05	465.84		21.10	444.74
	10/10/05	465.84		22.94	442.90
1/9/06	465.84		18.24	447.60	
			Well Destroyed		
MW-3A	4/6/06	465.84	15-30	16.02	449.82
	7/27/06	465.84		22.90	442.94
	10/12/06	465.84		23.99	441.85
	1/3/07	465.84		21.52	444.32
	4/13/07	465.84		23.78	442.06
	7/16/07	465.84		Dry	NC
	10/29/07	465.84		Dry	NC
	2/1/08	465.84		Dry	NC
	4/18/08	465.84		27.86	437.98
	7/28/08	465.84		Dry	NC
	11/18/08	465.84		Dry	NC
	2/4/09	465.84		Dry	NC

Table 1
Groundwater Elevation Data
 160 Holmes Street, Livermore

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)
MW-4***	11/14/01	465.15	15-30	33.84	431.31
	5/7/02	465.15		26.75	438.40
	9/11/02	465.15		26.66	438.49
	12/11/02	465.15		28.39	436.76
	3/14/03	465.15		23.14	442.01
	6/25/03	465.15		22.72	442.43
	9/16/03	465.15		25.39	439.76
	12/22/03	465.15		22.42	442.73
	3/4/04	465.15		18.20	446.95
	6/15/04	465.15		22.95	442.20
	9/17/04	465.15		26.12	439.03
	12/10/04	465.15		22.73	442.42
	3/2/05	465.15		17.60	447.55
	5/27/05	465.15		19.14	446.01
	7/21/05	465.15		21.25	443.90
	10/10/05	465.15		22.85	442.30
	1/9/06	465.15		18.54	446.61
MW-4A**	4/6/06	464.96	15-30	16.19	448.77
	7/27/06	464.96		22.87	442.09
	10/12/06	464.96		23.90	441.06
	1/3/07	464.96		21.52	443.44
	4/13/07	464.96		23.78	441.18
	7/16/07	464.96		Dry	NC
	10/29/07	464.96		Dry	NC
	2/1/08	464.96		Dry	NC
	4/18/08	464.96		27.91	437.05
	7/28/08	464.96		Dry	NC
	11/18/08	464.96		Dry	NC
	2/4/09	464.96		Dry	NC
	MW-5***	11/14/01		464.65	20-50
5/7/02		464.65	27.90	436.75	
9/11/02		464.65	27.99	436.66	
12/11/02		464.65	29.50	435.15	
3/14/03		464.65	24.26	440.39	
6/25/03		464.65	24.01	440.64	
9/16/03		464.65	26.83	437.82	
12/22/03		464.65	23.68	440.97	
3/10/04		464.65	19.22	445.43	
6/15/04		464.65	24.20	440.45	
9/17/04		464.65	27.68	436.97	
12/10/04		464.65	23.93	440.72	
3/2/05		464.65	18.56	446.09	
5/27/05		464.65	20.15	444.50	
7/21/05		464.65	22.55	442.10	
10/10/05		464.65	23.35	441.30	
1/9/06		464.65	19.53	445.12	

Table 1
Groundwater Elevation Data
160 Holmes Street, Livermore

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)	
MW-5A**	4/6/06	464.64	20-35	17.35	447.29	
	7/27/06	464.64		24.40	440.24	
	10/12/06	464.64		25.58	439.06	
	1/3/07	464.64		22.53	442.11	
	4/13/07	464.64		24.77	439.87	
	7/16/07	464.64		Dry	NC	
	10/29/07	464.64		Dry	NC	
	2/1/08	464.64		34.03	430.61	
	4/18/08	464.64		28.13	436.51	
	7/28/08	464.64		Dry	NC	
	11/18/08	464.64		33.82	430.82	
	2/4/09	464.64		Dry	NC	
	MW-5B**	4/6/06		464.59	50-55	17.44
7/27/06		464.59	24.09	440.50		
10/12/06		464.59	25.17	439.42		
1/3/07		464.59	22.44	442.15		
4/13/07		464.59	25.33	439.26		
7/16/07		464.59	36.50	428.09		
10/29/07		464.59	47.90	416.69		
2/1/08		464.59	33.25	431.34		
4/18/08		464.59	28.77	435.82		
7/28/08		464.59	44.76	419.83		
11/18/08		464.59	51.65	412.94		
2/4/09		464.59	47.63	416.96		
MW-6		11/14/01	464.13	20-50		33.88
	5/7/02	464.13	27.01		437.12	
	9/11/02	464.13	27.03		437.10	
	12/11/02	464.13	28.77		435.36	
	3/14/03	464.13	23.46		440.67	
	6/25/03	464.13	23.08		441.05	
	9/16/03	464.13	25.77		438.36	
	12/22/03	464.13	22.59		441.54	
	3/10/04	464.13	18.65		445.48	
	6/15/04	464.13	23.31		440.82	
	9/17/04	464.13	26.56		437.57	
	12/10/04	464.13	23.09		441.04	
	3/2/05	464.13	18.04		446.09	
	5/27/05	464.13	19.57		444.56	
	7/21/05	464.13	21.60		442.53	
	10/10/05	464.13	22.21		441.92	
	1/9/06	464.13	18.99		445.14	
	4/6/06	464.13	17.00		447.13	
	7/27/06	464.13	23.45		440.68	
	10/12/06	464.13	24.36		439.77	
	1/3/07	464.13	22.03		442.10	
	4/13/07	464.13	24.40		439.73	
	7/16/07	464.13	Well obstructed		NM	NC
	10/29/07	464.13			Dry	NC
	2/1/08	464.13			33.05	431.08
	4/18/08	464.13			28.20	435.93
7/28/08	464.13		Dry	NC		
11/18/08	464.13		Dry	NC		
2/4/09	464.13		Dry	NC		

Table 1
Groundwater Elevation Data
160 Holmes Street, Livermore

Monitoring Well ID	Date	Top of Casing Elevation* (feet, msl)	Screen Interval (feet, bgs)	Depth to Groundwater (feet)	Groundwater Elevation (feet, msl)
MW-7A**	4/6/06	465.32	15-30	16.61	448.71
	7/27/06	465.32		23.40	441.92
	10/12/06	465.32		24.50	440.82
	1/3/07	465.32		21.80	443.52
	4/13/07	465.32		24.05	441.27
	7/16/07	465.32		Dry	NC
	10/29/07	465.32		Dry	NC
	2/1/08	465.32		Dry	NC
	4/18/08	465.32		28.16	437.16
	7/28/08	465.32		Dry	NC
	11/18/08	465.32		Dry	NC
	2/4/09	465.32		Dry	NC
	MW-7B**	4/6/06		465.39	45-50
7/27/06		465.39	23.72	441.67	
10/12/06		465.39	24.74	440.65	
1/3/07		465.39	22.18	443.21	
4/13/07		465.39	24.41	440.98	
7/16/07		465.39	36.40	428.99	
10/29/07		465.39	Dry	NC	
2/1/08		465.39	33.84	431.55	
4/18/08		465.39	28.52	436.87	
7/28/08		465.39	44.92	420.47	
11/18/08		465.39	Dry	NC	
2/4/09		465.39	46.65	418.74	
MW-7C**		4/6/06	465.39	65-70	
	7/27/06	465.39	24.15		441.24
	10/12/06	465.39	24.74		440.65
	1/3/07	465.39	22.53		442.86
	4/13/07	465.39	24.73		440.66
	7/16/07	465.39	36.70		428.69
	10/29/07	465.39	48.25		417.14
	2/1/08	465.39	34.00		431.39
	4/18/08	465.39	28.75		436.64
	7/28/08	465.39	45.00		420.39
	11/18/08	465.39	49.62		415.77
	2/4/09	465.39	47.89		417.50
	EW-1**	4/6/06	465.45		15-40
7/27/06		465.45	23.85	441.60	
10/12/06		465.45	23.51	441.94	
1/3/07		465.45	21.45	444.00	
4/13/07		465.45	23.69	441.76	
10/29/07		465.45	NM	NC	
2/1/08		465.45	NM	NC	
4/18/08		465.45	27.83	437.62	
7/28/08		465.45	NM	NC	
11/18/08		465.45	Dry	NC	
2/4/09		465.45	Dry	NC	

Table 1
Groundwater Elevation Data
160 Holmes Street, Livermore

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		23.10	442.89
	10/12/06	465.99		21.48	444.51
	1/3/07	465.99		21.66	444.33
	4/13/07	465.99		23.93	442.06
	10/29/07	465.99		Dry	NC
	2/1/08	465.99		NM	NC
	4/18/08	465.99		28.04	437.95
	7/28/08	465.99		NM	NC
	11/18/08	465.99		Dry	NC
	2/4/09	465.99		Dry	NC
	EW-3	11/18/08		NC	
2/4/09		NC	33.80	NC	
MW-8A	7/28/08	NC	16-36	Dry	NC
	11/18/08	NC		35.40	NC
	2/4/09	NC		Dry	NC
MW-8B	7/28/08	NC	46-51	44.90	NC
	11/18/08	NC		49.85	NC
	2/4/09	NC		47.95	NC
MW-9A	7/28/08	NC	14-36	Dry	NC
	11/18/08	NC		48.97	NC
	2/4/09	NC		Dry	NC
MW-9B	7/28/08	NC	47-52	44.05	NC
	11/18/08	NC		38.28	NC
	2/4/09	NC		47.03	NC
EX-1***	11/14/01	465.30	30-55	33.41	431.89
	5/7/02	465.30		27.58	437.72
	9/11/02	465.30		NM	NC
	12/11/02	465.30		27.98	437.32
	3/14/03	465.30		23.02	442.28
	6/25/03	465.30		22.41	442.89
	9/16/03	465.30		24.65	440.65
	3/10/04	465.30		17.99	447.31
	6/15/04	465.30		22.48	442.82
	9/17/04	465.30		25.91	439.39
	12/10/04	465.30		NM	NC
	3/2/05	465.30		NM	NC
	5/27/05	465.30		18.68	446.62
	7/21/05	465.30		21.55	443.75
	10/10/05	465.30		22.73	442.57
	1/9/06	465.30		18.05	447.25

MSL: Mean sea level

bgs: Below ground surface

NA: well not accessible

* = Well MW-1 renamed MW-1A

** = Well installed on 2/22/06-2/28/06

*** = Well destroyed on 2/22/06-2/28/06

NC: elevation not calculated

NM: well not measured

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	not sampled - well dry							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/14/01	NC	not sampled - well dry							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/7/02	NC	not sampled - well dry							NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	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	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	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	
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	NA	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	<50	<500	NA	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	<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	<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	NA	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	<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	<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	<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	<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	
	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	

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	Ethyl-benzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	ethanol	methanol	EDB	1,2-DCA	
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	not sampled - well dry																
	11/14/01	NC	not sampled - well dry																
	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	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	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	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	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	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	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	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	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	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	NA
	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	<1000	<10,000	<10	<10	
	4/7/06	449.47	110	160	0.61	0.80	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	<5000	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	0.60	<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	
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	not sampled - well dry																
	11/14/01	NC	not sampled - well dry																
	5/7/02	NC	not sampled - well dry																
	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	NS	NS	NS	NS	NS	NA	NA	NA	NA	NA	NA	NA	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	

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-3A (cont.)	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	<0.5	<0.5	<50	<500	<0.5	<0.5
	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	
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
	4/18/08	437.05	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

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	Ethyl-benzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	ethanol	methanol	EDB	1,2-DCA
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
	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
	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
	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
	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
	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
	9/16/03	437.82	630	<50	<0.5	3.5	<0.5	2.6	1500	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
	3/10/04	445.43	57	<50	<0.5	<0.5	<0.5	<0.5	1100	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
	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
	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
	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
	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
	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
	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
	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	<5.0	<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
	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
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

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	Ethyl-benzene	Total Xylenes	MTBE (8021B)	TAME	TBA	DIPE	ETBE	MTBE	ethanol	methanol	EDB	1,2-DCA	
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	<0.5	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	<5.0	<0.5	<5.0	<0.5	<5.0	<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	<5.0	<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	<5.0	<0.5	<5.0	<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	<5.0	<0.5	<5.0	<0.5	<0.5	<0.5	<50	<500	<0.5	<0.5
	4/16/07	439.73	<50	<50	<0.5	<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	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	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	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	
MW-7A	3/13/06	445.85	6,200	1,800	140	21	200	560	6,900	<100	4400	<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	<1700	<17,000	NA	NA	
	11/21/06	NM	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	<5000	<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	

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	Ethyl-benzene	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	7300	<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	<5000	<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	<5000	<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	4000	<25	<25	49	<2500	<25000	<25	<25	
	4/18/08	436.87	650	100	3.4	15	8.3	<0.5	150	<25	3800	<25	<25	140	<2500	<25000	<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	<5000	<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
	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	<1000	<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	NA
MW-8A		7/28/08	NC	NS	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	
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	<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	
MW-9A	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	
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	

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	
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	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	NA
	9/11/02	NC	2,800	NA	32	<13	14	<13	2,500	NA	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	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	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	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	NA
	3/10/04	447.31	NS	NS	NS	NS	NS	NS	NS	NA	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	NA
	9/17/04	439.39	NS	NS	NS	NS	NS	NS	NS	NA	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	NA
	3/2/05	NC	NS	NS	NS	NS	NS	NS	NS	NA	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	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	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	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	4.1	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	NS
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		437.62	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
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	<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	<1200	<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	<5000	<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	

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
EW-3	11/18/08 2/4/09	NC NC	NS <10,000	NS NA	NS <100	NS <100	NS <100	NS <100	NS 420,000	NS NA	NS NA	NS NA	NS NA	NS NA	NS NA	NS NA	NS NA	NS NA
B1	2/2/01	30	650,000	13,000	6,300	10000.0	<2,500	12,000	290,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
B2	2/2/01	30	56	<0.5	<0.5	<0.5	<0.5	<0.5	47	NA	NA	NA	NA	NA	NA	NA	NA	NA
B3	2/2/01	30	6,200	NA	<50	<50	<50	<50	3,800	NA	NA	NA	NA	NA	NA	NA	NA	NA
B4	2/2/01	30	12,000	NA	<50	<50	<50	<50	6,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
B5	2/2/01	30	<25,000	960	<250	<250	<250	<250	16,000	NA	NA	NA	NA	NA	NA	NA	NA	NA
MB-1-A	11/10/01	28	21,000	4,300	970	<25	3,300	1200	NA	<2,500	<25,000	<2,500	<2,500	100,000	NA	NA	NA	NA
MB-1-B	11/10/01	50	470	210	7.8	0.97	31	48	NA	<25	<250	<25	<25	1,500	NA	NA	NA	NA
MB-1-C	11/10/01	70	990	NA	17	1.3	89	160	NA	<25	<250	<25	<25	1,200	NA	NA	NA	NA
MB-2-A	11/9/01	28	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<5.0	<0.5	<0.5	<0.5	NA	NA	NA	NA
MB-2-B	11/10/01	50	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<5.0	<0.5	<0.5	<0.5	NA	NA	NA	NA
MB-3-A	11/10/01	28	40,000	41,000	120	130	1,700	2,800	NA	<50	2,500	<50	<50	<4,500	NA	NA	NA	NA
MB-3-B	11/13/01	50	1,400	210	0.93	9.3	14	27	NA	<50	6,200	<50	<50	190	NA	NA	NA	NA
MB-3-C	11/13/01	70	930	260	1.7	3.8	33	100	NA	<100	16,000	<100	<100	330	NA	NA	NA	NA
DB-1-A	11/9/01	28	160	NA	<0.5	<0.5	<0.5	<0.5	NA	<1.7	<17	<1.7	<1.7	86	NA	NA	NA	NA
DB-2-A	11/10/01	28	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<5.0	<0.5	<0.5	<0.5	NA	NA	NA	NA
DB-3-A	11/13/01	28	<50	51	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<5.0	<0.5	<0.5	<0.5	NA	NA	NA	NA
DB-4-A	11/13/01	28	<50	57	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<5.0	<0.5	<0.5	<0.5	NA	NA	NA	NA
DB-5-A	11/10/01	28	<50	910	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<5.0	<0.5	<0.5	<0.5	NA	NA	NA	NA
B-1-A	11/9/01	28	<50	230	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<5.0	<0.5	<0.5	28	NA	NA	NA	NA
B-2-A	11/9/01	28	25,000	6,200	900	<50	2,000	2,600	NA	<1,700	<17,000	<1,700	<1,700	80,000	NA	NA	NA	NA
B-3-A	11/9/01	28	42,000	14,000	530	140	2,400	7,800	NA	<500	<5,000	<500	<500	19,000	NA	NA	NA	NA
HP-1-A	11/13/01	28	<50	NA	<0.5	<0.5	<0.5	0.80	NA	<50	24	<50	<50	12	NA	NA	NA	NA
GP-1	1/10/07	28	270	--	<0.5	<0.5	2.6	0.85	61	--	--	--	--	--	--	--	--	--
GP-2	1/10/07	28	2,000	--	61	46	93	280	2,600	--	--	--	--	--	--	--	--	--
GP-3	1/10/07	28	11,000	--	38	27	1,100	980	37,000	--	--	--	--	--	--	--	--	--
GP-4	1/10/07	28	20,000	--	820	260	1,400	3,200	35,000	--	--	--	--	--	--	--	--	--
GP-5	1/10/07	28	4,100	--	64	6.6	13	550	780	--	--	--	--	--	--	--	--	--
GP-6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GP-6A	1/11/07	28	11,000	--	360	150	1,500	480	6,100	--	--	--	--	--	--	--	--	--
GP-7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GP-8	1/10/07	28	61,000	--	2,800	490	2,600	4,400	190,000	--	--	--	--	--	--	--	--	--
GP-9	1/10/07	28	100,000	--	5,600	3,400	3,500	24,000	260,000	--	--	--	--	--	--	--	--	--
GP-10	1/10/07	28	44,000	--	2,400	590	3,600	3,300	92,000	--	--	--	--	--	--	--	--	--
GP-11	1/11/07	28	550	--	1.4	1.3	2.1	36	110	--	--	--	--	--	--	--	--	--
GP-12	1/11/07	28	15,000	--	68	20	1,800	94	6,600	--	--	--	--	--	--	--	--	--
GP-13	1/11/07	28	88,000	--	5,100	<50	5,500	7,400	87,000	--	--	--	--	--	--	--	--	--
GP-14	1/11/07	28	210,000	--	11,000	26,000	4,600	21,000	1,500,000	--	--	--	--	--	--	--	--	--
GP-15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GP-16	1/11/07	28	160	--	5.2	3.2	18	7.5	210	--	--	--	--	--	--	--	--	--
GP-17	1/11/07	28	460	--	7.7	4.8	8.0	7.4	790	--	--	--	--	--	--	--	--	--
GP-18	1/11/07	28	35,000	--	250	72	2,800	380	13,000	--	--	--	--	--	--	--	--	--
GP-19	1/11/07	28	430	--	8.9	1.6	24	31	430	--	--	--	--	--	--	--	--	--

Notes:

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

µg/L = micrograms per liter

NA = Not Analyzed

EDB = 1,2-Dibromoether

NS = Not Sampled

1,2-DCA = 1,2-Dichloroethane

* = 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.

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.

APPENDIX B
Groundwater Sampling Field Logs

Groundwater Sampling Field Log

Site Address <u>160 Holmes</u>	Date <u>2-4-09</u>
Project Number	Field Personnel <u>312</u>
Monitoring Well Information	
Monitoring Well ID <u>MW-1A</u>	Monitoring Well Diameter (inches) <u>2.0</u>
Depth to Water (feet)	Water Column (feet)
Total Depth (feet) <u>35.0</u>	80% Recharge Depth (feet)
Depth to Product (feet)	1 Well Volume (gallons)
Comments	

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
			DRY					

Total Purge Volume	Comments
--------------------	----------

Groundwater Sampling Information

Sample ID <u>MW-1A</u>	Sample Time
Sample Containers (Number/Type)	
Comments	

Groundwater Sampling Field Log

Site Address <u>160 Holmes</u>	Date <u>2-4-09</u>
Project Number	Field Personnel <u>312</u>
Monitoring Well Information	
Monitoring Well ID <u>MW-1B</u>	Monitoring Well Diameter (inches) <u>2.0</u>
Depth to Water (feet) <u>46.83</u>	Water Column (feet) <u>8.17</u>
Total Depth (feet) <u>55.0</u>	80% Recharge Depth (feet)
Depth to Product (feet)	1 Well Volume (gallons) <u>1.38</u>
Comments	

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
	<u>46.83</u>	<u>1.38</u>	<u>552 μS</u>	<u>17.8°C</u>	<u>6.74</u>	<u>mod-h</u>	<u>brown</u>	<u>none</u>
	<u> </u>	<u> </u>	<u>560 μS</u>	<u>18.0°C</u>	<u>6.82</u>	<u> </u>	<u> </u>	<u>)</u>
			<u>561 μS</u>	<u>18.1°C</u>	<u>6.77</u>			

Total Purge Volume	Comments
--------------------	----------

Groundwater Sampling Information

Sample ID <u>MW-1B</u>	Sample Time
Sample Containers (Number/Type) <u>3 40A</u>	
Comments	

Groundwater Sampling Field Log

Site Address 160 Holmes Date 2-4-09
 Project Number _____ Field Personnel JR

Monitoring Well Information

Monitoring Well ID MW-2A Monitoring Well Diameter (inches) 2.0
 Depth to Water (feet) _____ Water Column (feet) _____
 Total Depth (feet) 35.0 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) _____
 Comments _____

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
			<u>DRY</u>					

Total Purge Volume _____ Comments _____

Groundwater Sampling Information

Sample ID MW-2A Sample Time _____
 Sample Containers (Number/Type) _____
 Comments _____

Groundwater Sampling Field Log

Site Address 160 Holmes Date 2-4-09
 Project Number _____ Field Personnel JR

Monitoring Well Information

Monitoring Well ID MW-3A Monitoring Well Diameter (inches) 2.0
 Depth to Water (feet) _____ Water Column (feet) _____
 Total Depth (feet) 35.0 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) _____
 Comments _____

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
			<u>DRY</u>					

Total Purge Volume _____ Comments _____

Groundwater Sampling Information

Sample ID MW-3A Sample Time _____
 Sample Containers (Number/Type) _____
 Comments _____

Groundwater Sampling Field Log

Site Address 160 Holmes Date 2-4-09
 Project Number _____ Field Personnel SR

Monitoring Well Information

Monitoring Well ID MW-4A Monitoring Well Diameter (inches) 2.0
 Depth to Water (feet) _____ Water Column (feet) _____
 Total Depth (feet) 35.0 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) _____
 Comments _____

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
			DRY					

Total Purge Volume _____ Comments _____

Groundwater Sampling Information

Sample ID MW-4A Sample Time _____
 Sample Containers (Number/Type) _____
 Comments _____

Groundwater Sampling Field Log

Site Address 160 Holmes Date 2-4-09
 Project Number _____ Field Personnel SR

Monitoring Well Information

Monitoring Well ID MW-5A Monitoring Well Diameter (inches) 2.0
 Depth to Water (feet) _____ Water Column (feet) _____
 Total Depth (feet) 35.0 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) _____
 Comments _____

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
			DRY					

Total Purge Volume _____ Comments _____

Groundwater Sampling Information

Sample ID MW-5A Sample Time _____
 Sample Containers (Number/Type) _____
 Comments _____

Groundwater Sampling Field Log

Site Address 160 Holmes Date 2-4-09
 Project Number _____ Field Personnel JR

Monitoring Well Information

Monitoring Well ID MW-513 Monitoring Well Diameter (inches) 2.0
 Depth to Water (feet) 47.63 Water Column (feet) 7.37
 Total Depth (feet) 87.0 55.0 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) 1.25
 Comments _____

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
	<u>47.63</u>	<u>1.25</u>	<u>558 μS</u>	<u>19.4°C</u>	<u>7.81</u>	<u>High</u>	<u>brown</u>	<u>none</u>
	<u> </u>	<u> </u>	<u>542 μS</u>	<u>19.5°C</u>	<u>7.71</u>	<u> </u>	<u> </u>	<u> </u>
			<u>588 μS</u>	<u>19.5°C</u>	<u>7.67</u>			

Total Purge Volume _____ Comments _____

Groundwater Sampling Information

Sample ID MW-513 Sample Time _____
 Sample Containers (Number/Type) 3 VOA
 Comments _____

Groundwater Sampling Field Log

Site Address 160 Holmes Date 2-4-09
 Project Number _____ Field Personnel JR

Monitoring Well Information

Monitoring Well ID MW-6 Monitoring Well Diameter (inches) 2.0
 Depth to Water (feet) _____ Water Column (feet) _____
 Total Depth (feet) 87.0/100 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) _____
 Comments _____

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor	
			<u>DRY</u>						

Total Purge Volume _____ Comments _____

Groundwater Sampling Information

Sample ID MW-6 Sample Time _____
 Sample Containers (Number/Type) _____
 Comments _____

Groundwater Sampling Field Log

Site Address 160 Holmes Date 2-4-09
 Project Number _____ Field Personnel 312

Monitoring Well Information

Monitoring Well ID MW-7A Monitoring Well Diameter (inches) 2.0
 Depth to Water (feet) _____ Water Column (feet) _____
 Total Depth (feet) 35.0 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) _____
 Comments _____

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
			<u>DRY</u>					

Total Purge Volume _____ Comments _____

Groundwater Sampling Information

Sample ID MW-7A Sample Time _____
 Sample Containers (Number/Type) _____
 Comments _____

Groundwater Sampling Field Log

Site Address 160 Holmes Date 2-4-09
 Project Number _____ Field Personnel 312

Monitoring Well Information

Monitoring Well ID MW-7B Monitoring Well Diameter (inches) 2.0
 Depth to Water (feet) 46.65 Water Column (feet) 8.35
 Total Depth (feet) 55.0 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) 1.41
 Comments _____

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
	<u>46.65</u>	<u>1.41</u>						
	<u>1</u>	<u>1</u>						

Total Purge Volume _____ Comments _____

Groundwater Sampling Information

Sample ID MW-7B Sample Time _____
 Sample Containers (Number/Type) 3 VOA
 Comments GRAB SAMPLE

Groundwater Sampling Field Log

Site Address 160 Holmes Date 2-4-09
 Project Number _____ Field Personnel JR

Monitoring Well Information

Monitoring Well ID MW-7C Monitoring Well Diameter (inches) 2.0
 Depth to Water (feet) 47.89 Water Column (feet) 27.11
 Total Depth (feet) 75.0 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) 4.60
 Comments _____

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
	<u>47.89</u>	<u>4.60</u>	<u>542 µS</u>	<u>18.6°C</u>	<u>7.42</u>	<u>Low</u>	<u>clear</u>	<u>none</u>
	<u> </u>	<u> </u>	<u>547 µS</u>	<u>18.5°C</u>	<u>7.04</u>	<u>modest</u>	<u>brown</u>	<u>none</u>
			<u>547 µS</u>	<u>18.5°C</u>	<u>6.94</u>	<u>1</u>	<u>1</u>	<u>1</u>

Total Purge Volume _____ Comments _____

Groundwater Sampling Information

Sample ID MW-7C Sample Time _____
 Sample Containers (Number/Type) 3 VOA
 Comments _____

Groundwater Sampling Field Log

Site Address 160 Holmes Date 2-4-09
 Project Number _____ Field Personnel JR

Monitoring Well Information

Monitoring Well ID MW-8A Monitoring Well Diameter (inches) 2.0
 Depth to Water (feet) _____ Water Column (feet) _____
 Total Depth (feet) 35.0 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) _____
 Comments _____

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
			<u>DRY</u>					

Total Purge Volume _____ Comments _____

Groundwater Sampling Information

Sample ID MW-8A Sample Time _____
 Sample Containers (Number/Type) _____
 Comments _____

Groundwater Sampling Field Log

Site Address 160 Holmes Date 2-4-09
 Project Number _____ Field Personnel JR

Monitoring Well Information

Monitoring Well ID MW-8B Monitoring Well Diameter (inches) 2.0
 Depth to Water (feet) 47.95 Water Column (feet) 7.05
 Total Depth (feet) 55.0 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) 1.19
 Comments _____

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
	<u>47.95</u>	<u>1.19</u>	<u>603 μS</u>	<u>18.9°C</u>	<u>7.41</u>	<u>High</u>	<u>brown</u>	<u>none</u>
	<u>1</u>	<u>1</u>						

Total Purge Volume _____ Comments _____

Groundwater Sampling Information

Sample ID MW-8B Sample Time _____
 Sample Containers (Number/Type) 3 VOA
 Comments Well Rem Dry slow to recharge

Groundwater Sampling Field Log

Site Address 160 Holmes Date 2-4-09
 Project Number _____ Field Personnel JR

Monitoring Well Information

Monitoring Well ID MW-9A Monitoring Well Diameter (inches) 2.0
 Depth to Water (feet) _____ Water Column (feet) _____
 Total Depth (feet) 40.0 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) _____
 Comments _____

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
			<u>DRY</u>					

Total Purge Volume _____ Comments _____

Groundwater Sampling Information

Sample ID MW-9A Sample Time _____
 Sample Containers (Number/Type) _____
 Comments _____

Groundwater Sampling Field Log

Site Address <i>XXXX-9AB 160 Holmes</i>	Date <i>2-4-09</i>
Project Number	Field Personnel <i>SR</i>
Monitoring Well Information	
Monitoring Well ID <i>MW-9B</i>	Monitoring Well Diameter (inches) <i>2.0</i>
Depth to Water (feet) <i>47.03</i>	Water Column (feet) <i>7.97</i>
Total Depth (feet) <i>55.0</i>	80% Recharge Depth (feet)
Depth to Product (feet)	1 Well Volume (gallons) <i>1.35</i>
Comments	

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
	<i>47.03</i>	<i>1.35</i>	<i>902 µS</i>	<i>18.5°C</i>	<i>7.47</i>	<i>High</i>	<i>brown</i>	<i>none</i>
	<i>1</i>	<i>1</i>						

Total Purge Volume	Comments
--------------------	----------

Groundwater Sampling Information

Sample ID <i>MW-9B</i>	Sample Time
Sample Containers (Number/Type) <i>3 VOA</i>	
Comments <i>Will Run Dec slow to recharge</i>	

Groundwater Sampling Field Log

Site Address <i>160 Holmes</i>	Date <i>2-4-09</i>
Project Number	Field Personnel <i>SR</i>
Monitoring Well Information	
Monitoring Well ID <i>EW-1</i>	Monitoring Well Diameter (inches) <i>4.0</i>
Depth to Water (feet)	Water Column (feet)
Total Depth (feet)	80% Recharge Depth (feet)
Depth to Product (feet)	1 Well Volume (gallons)
Comments	

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor

Total Purge Volume	Comments
--------------------	----------

Groundwater Sampling Information

Sample ID <i>EW-1</i>	Sample Time
Sample Containers (Number/Type)	
Comments	

Groundwater Sampling Field Log

Site Address 160 Holmes Date 2-4-09
 Project Number _____ Field Personnel SR

Monitoring Well Information

Monitoring Well ID EW-3 Monitoring Well Diameter (inches) 4.0
 Depth to Water (feet) 33.80 Water Column (feet) 6.2
 Total Depth (feet) 40.0 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) 4.09
 Comments _____

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
	<u>33.80</u>	<u>4.09</u>						
	<u> </u>	<u> </u>	<u>—————</u>					
			<u>—————</u>					

Total Purge Volume _____ Comments _____

Groundwater Sampling Information

Sample ID EW-2 Sample Time _____
 Sample Containers (Number/Type) #2 VOA
 Comments Grab SAMPLE

Groundwater Sampling Field Log

Site Address 160 Holmes Date 2-4-09
 Project Number _____ Field Personnel SR

Monitoring Well Information

Monitoring Well ID EW-62 Monitoring Well Diameter (inches) 4.0
 Depth to Water (feet) _____ Water Column (feet) _____
 Total Depth (feet) _____ 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) _____
 Comments _____

Field Measurements and Observations

Time	Depth to Water	Purge Volume	Conductivity	Temperature	pH	Turbidity	Color	Odor
			<u>DIRTY</u>					

Total Purge Volume _____ Comments _____

Groundwater Sampling Information

Sample ID EW-3 Sample Time _____
 Sample Containers (Number/Type) _____
 Comments _____

APPENDIX C
Certified Analytical Reports and Chain of Custody



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Allterra Environmental, Inc 849 Almar Ave, Ste. C #281 Santa Cruz, CA 95060	Client Project ID: 160 Holmes	Date Sampled: 02/04/09
		Date Received: 02/06/09
	Client Contact: James Allen	Date Reported: 02/12/09
	Client P.O.:	Date Completed: 02/11/09

WorkOrder: 0902152

February 12, 2009

Dear James:

Enclosed within are:

- 1) The results of the **7** analyzed samples from your project: **160 Holmes**,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

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.

0902152



849 Almar Avenue, Suite C, #281
 Santa Cruz, California 95060
 Website: www.allterraenv.com
 Phone: (831) 425-2608 Facsimile: (831) 425-2609

Chain of Custody Record

Turn Around Time (circle one) RUSH 24HR 48HR 72HR 5 Day

Report and Bill to: Allterra Environmental, Inc.
 Project Number:
 Project Location: 160 HOLMES
 Project Name:
 Sampler Signature: 

Sample ID	Sample Collection		Sample Containers		Matrix					Preservation				TPH _g /BTEX/MTBE (EPA 8015/8021)	BTEX (EPA 8020)	TPPH _g (EPA 8015)	5-fuel oxys (EPA 8260)	Ethanol and Methanol (EPA 8260)	Lead Scavengers (8260)	Total HVOCs (EPA 8260)	Hardness/Total dissolved solids	CAM-17 Metals (EPA 6010/6020)	LUFT 5 Metals (EPA 6010/6020)	PAH's/ PNA's (EPA 8270,625/8310)	Fish Toxicity/Bioassay	Lead (EPA 6010/200.9/200.8)	EDF required
	Date	Time	Number of Containers	Container Type	Air	Water	Soil	Sludge	Other	Ice	HCl	HNO ₃	Other														
MW-1B	2/4/09		3	VOA		X				X	X			X													X
MW-5B	2/4/09		3	VOA		X				X	X			X													X
MW-7B	2/4/09		3	VOA		X				X	X			X													X
MW-7C	2/4/09		3	VOA		X				X	X			X													X
MW-8B	2/4/09		3	VOA		X				X	X			X													X
MW-9B	2/4/09		3	VOA		X				X	X			X													X
EW-3	2/4/09		2	VOA		X				X	X			X													X

5220152

Sampled By:  Date: 2-5-09 Time: Received By: M. Vall 2/4/09 8:30

Received By: Date: Time: Received By:

Received By: Date: Time: Received By:

Comments: ICE / t = 17.8°

GOOD CONDITION APPROPRIATE

HEAD SPACE ABSENT CONTAINERS

DECHLORINATED IN LAB PRESERVED IN LAB

PRESERVATION VOAS O & G METALS OTHER

REC'D SEALED & INTACT VIA c/o 2/6/09

McC Campbell Analytical, Inc.

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0902152

ClientCode: ATRS

WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

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

Email: allterraenvironmental@yahoo.com
 cc:
 PO:
 ProjectNo: 160 Holmes

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: **02/06/2009**
 Date Printed: **02/06/2009**

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	
0902152-001	MW-1B	Water	2/4/2009	<input type="checkbox"/>	A	A											
0902152-002	MW-5B	Water	2/4/2009	<input type="checkbox"/>	A												
0902152-003	MW-7B	Water	2/4/2009	<input type="checkbox"/>	A												
0902152-004	MW-7C	Water	2/4/2009	<input type="checkbox"/>	A												
0902152-005	MW-8B	Water	2/4/2009	<input type="checkbox"/>	A												
0902152-006	MW-9B	Water	2/4/2009	<input type="checkbox"/>	A												
0902152-007	EW-3	Water	2/4/2009	<input type="checkbox"/>	A												

Test Legend:

1	G-MBTEX_W	2	PREDF REPORT	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Melissa Valles

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, Inc**

Date and Time Received: **02/06/09 10:36:13 AM**

Project Name: **160 Holmes**

Checklist completed and reviewed by: **Melissa Valles**

WorkOrder N°: **0902152** Matrix Water

Carrier: CA OverNight

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: 14.8°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
- Sample labels checked for correct preservation? Yes No
- TTLC Metal - pH acceptable upon receipt (pH<2)? Yes No NA
- Samples Received on Ice? Yes No

(Ice Type: BLUE ICE)

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

Client contacted:

Date contacted:

Contacted by:

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Allterra Environmental, Inc 849 Almar Ave, Ste. C #281 Santa Cruz, CA 95060	Client Project ID: 160 Holmes	Date Sampled: 02/04/09
		Date Received: 02/06/09
	Client Contact: James Allen	Date Extracted: 02/07/09-02/10/09
	Client P.O.:	Date Analyzed 02/07/09-02/10/09

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

Extraction method SW5030B

Analytical methods SW8021B/8015Bm

Work Order: 0902152

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1B	W	ND	ND	ND	ND	ND	ND	1	98
002A	MW-5B	W	ND,b1	ND	ND	ND	ND	ND	1	104
003A	MW-7B	W	620,d8,b1	ND	ND	23	ND	2.7	1	90
004A	MW-7C	W	ND	ND	ND	ND	ND	ND	1	101
005A	MW-8B	W	ND,b1	ND	ND	ND	ND	ND	1	102
006A	MW-9B	W	ND,b1	ND	ND	ND	ND	ND	1	101
007A	EW-3	W	ND<10,000,a5,b1	420,000	ND<100	ND<100	ND<100	ND<100	200	115

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

a5) reporting limit raised due to high MTBE content
b1) aqueous sample that contains greater than ~1 vol. % sediment
d8) TPH pattern that does not appear to be derived from gasoline (aviation gas?)



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 41254

WorkOrder: 0902152

Analyte	EPA Method SW8021B/8015Bm		Extraction SW5030B						Spiked Sample ID: 0902162-001A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) [£]	ND	60	86.9	79.2	9.27	83.9	84.7	0.895	70 - 130	20	70 - 130	20
MTBE	ND	10	89.7	80.9	10.4	83.3	81.7	1.97	70 - 130	20	70 - 130	20
Benzene	ND	10	91.3	88.8	2.84	89.2	92.1	3.16	70 - 130	20	70 - 130	20
Toluene	ND	10	91.1	88.3	3.12	89.1	91.6	2.73	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	95	91.9	3.24	92.8	95.9	3.33	70 - 130	20	70 - 130	20
Xylenes	ND	30	105	101	3.70	103	106	3.17	70 - 130	20	70 - 130	20
%SS:	99	10	92	96	3.91	92	95	2.88	70 - 130	20	70 - 130	20

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

BATCH 41254 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0902152-001A	02/04/09	02/07/09	02/07/09 3:49 AM	0902152-002A	02/04/09	02/10/09	02/10/09 12:56 AM
0902152-003A	02/04/09	02/10/09	02/10/09 1:26 AM	0902152-004A	02/04/09	02/10/09	02/10/09 11:17 PM
0902152-005A	02/04/09	02/10/09	02/10/09 2:26 AM	0902152-006A	02/04/09	02/10/09	02/10/09 2:55 AM
0902152-007A	02/04/09	02/10/09	02/10/09 3:25 AM	0902152-007A	02/04/09	02/10/09	02/10/09 11:47 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.