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

Client: Manwel and Samira Shuwayhat
Project Location: 160 Holmes Street, Livermore, California
Subject: Second Quarter 2011 Groundwater monitoring Report
Report Date: May 17, 2011

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



**Second Quarter 2011 Groundwater Monitoring Report
Fuel Leak Case No. RO0000324, Livermore Gas and Mini Mart
160 Holmes Street, Livermore, California**

Date:
May 17, 2011

Project No.:
160

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

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May 17, 2011

Project No.: 160

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

SUBJECT: Second Quarter 2011 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 2011 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 Second 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 (over USTs) 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 2011

Field Activities

On April 6, 7, 8 and 11, 2011, Allterra conducted groundwater monitoring at fifteen 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.

Samples from eight select wells were also analyzed for various water quality parameters during this monitoring event to establish baseline conditions for ongoing in-situ remedial efforts. These additional analyses are described in Allterra's *Revised In-Situ Soil and Groundwater Remediation Work Plan*, dated March 10, 2011.

Groundwater Gradient and Flow Direction

On April 6, 2011, Allterra personnel measured and recorded depths to groundwater from the tops of well casings (TOC) for each well. Recorded depths to groundwater ranged from 18.30 to 21.78 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 April 2011 monitoring event, the general groundwater flow direction was to the northwest at a gradient of approximately 0.0147 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, and MTBE in groundwater are shown on Figure 4. A discussion of groundwater analytical results is presented below:

- TPHg was detected in five wells at concentrations ranging from 110 micrograms per liter ($\mu\text{g/L}$) in MW-7B to 8,400 $\mu\text{g/L}$ in EW-3.
- Benzene was detected in three wells at concentrations ranging from 2.0 $\mu\text{g/L}$ in MW-1A to 110 $\mu\text{g/L}$ in EW-3.
- Toluene was detected in six wells at concentrations ranging from 0.77 $\mu\text{g/L}$ in MW-2A to 37 $\mu\text{g/L}$ in EW-3.
- Ethylbenzene was detected in two wells at concentrations of 3.1 $\mu\text{g/L}$ in EW-1 and 690 $\mu\text{g/L}$ in EW-3.
- Xylenes were detected in four wells at concentrations ranging from 4.4 $\mu\text{g/L}$ in MW-1A to 820 $\mu\text{g/L}$ in EW-3.

- MTBE was detected in eight wells at concentrations ranging from 0.65 µg/L in EW-2 to 79,000 µg/L in EW-3.
- The highest levels of TPHg and MTBE were detected in extraction well EW-3, which has a screen interval from 25 to 30 feet bgs.

Conclusions

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

- Groundwater levels during this monitoring event remained at levels high enough to allow for sampling of A-Zone wells.
- The overall groundwater flow direction was to the north-northwest with an estimated gradient of 0.0147 ft/ft, which is consistent with previous monitoring events.
- For the April 2011 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 appear to be limited to the area around wells EW-1, EW-3, and MW-1A.
- Samples from eight select wells were also analyzed for various water quality parameters during this monitoring event to establish baseline conditions for ongoing in-situ remedial efforts. The results of these analyses will be presented in a separate remedial implementation report prior to submittal of the third quarter 2011 groundwater monitoring report.

Recommendations

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

- Continue implementation of the ACEHS-approved *In-Situ Soil and Groundwater Remediation Revised Work Plan*, dated March 10, 2011. Continue to perform data collection and monitoring after each injection event to evaluate the effectiveness of the in-situ remedial efforts.
- Continue with the current quarterly groundwater monitoring at the Site for the purpose of closely monitoring potential contaminant rebound under varying seasonal conditions following the cessation of in-situ remedial efforts.
- All wells will continue to be sampled and analyzed for TPHg, BTEX, and MTBE on a quarterly basis. Only select wells will continue to 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
Staff Geologist



Joe Mangine, P.G. 8423
Senior Geologist

List of Figures

- Figure 1, Site Vicinity Map
- Figure 2, Site Plan
- Figure 3, Shallow Groundwater Potentiometric Map for 4/6/2011
- Figure 4, Concentrations of Petroleum Constituents in Groundwater

List of Tables

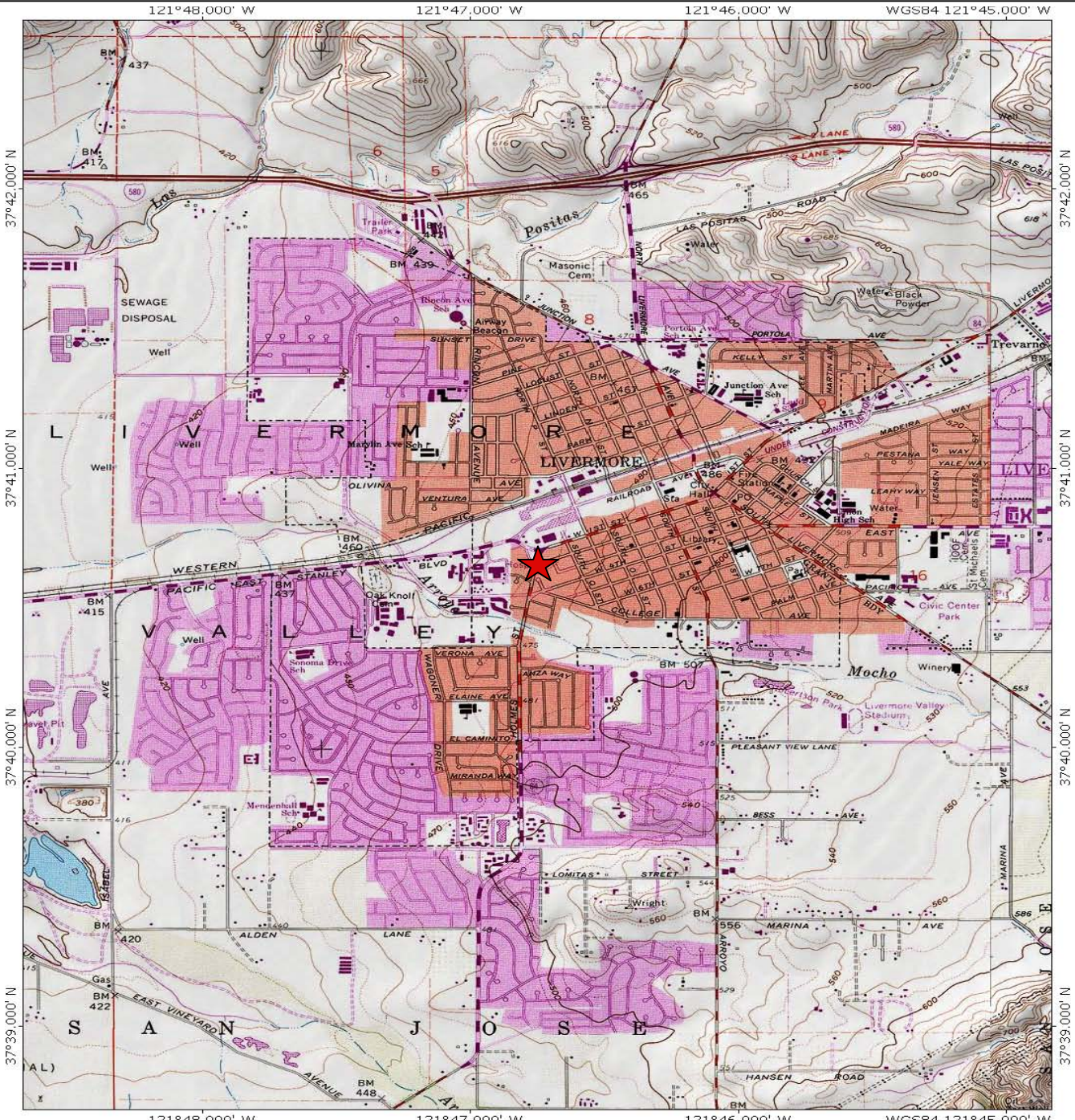
- Table 1, Groundwater Elevation Data
- Table 2, Groundwater Analytical Results

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 Wickam, ACEHS

FIGURES 1 - 4

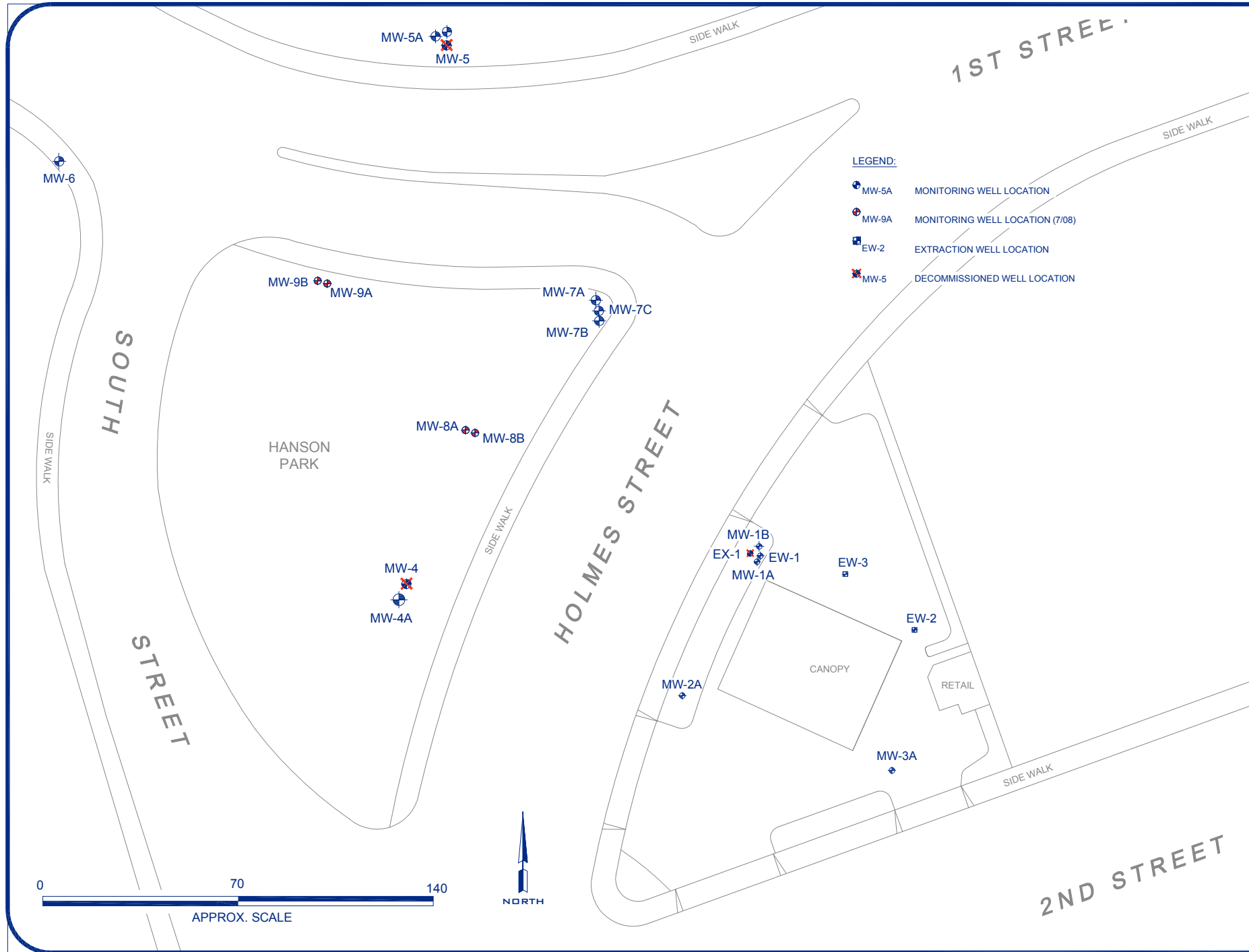


Site Vicinity Map
 Livermore Gas and Minimart
 160 Holmes Street
 Livermore, California

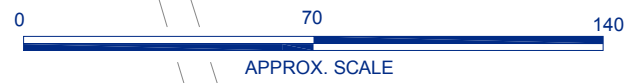
Figure 1

5/17/11

ALLTERRA
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- 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, LIVERMORE, CALIFORNIA
GROUNDWATER MONITORING REPORT

PREPARED BY:
ALLTERRA

| | | |
|-----|----------------|------|
| 0 | DRAFT/REVIEW | 5/10 |
| No. | Revision/Issue | Date |

Client Name and Address

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Client Name and Address

SITE PLAN

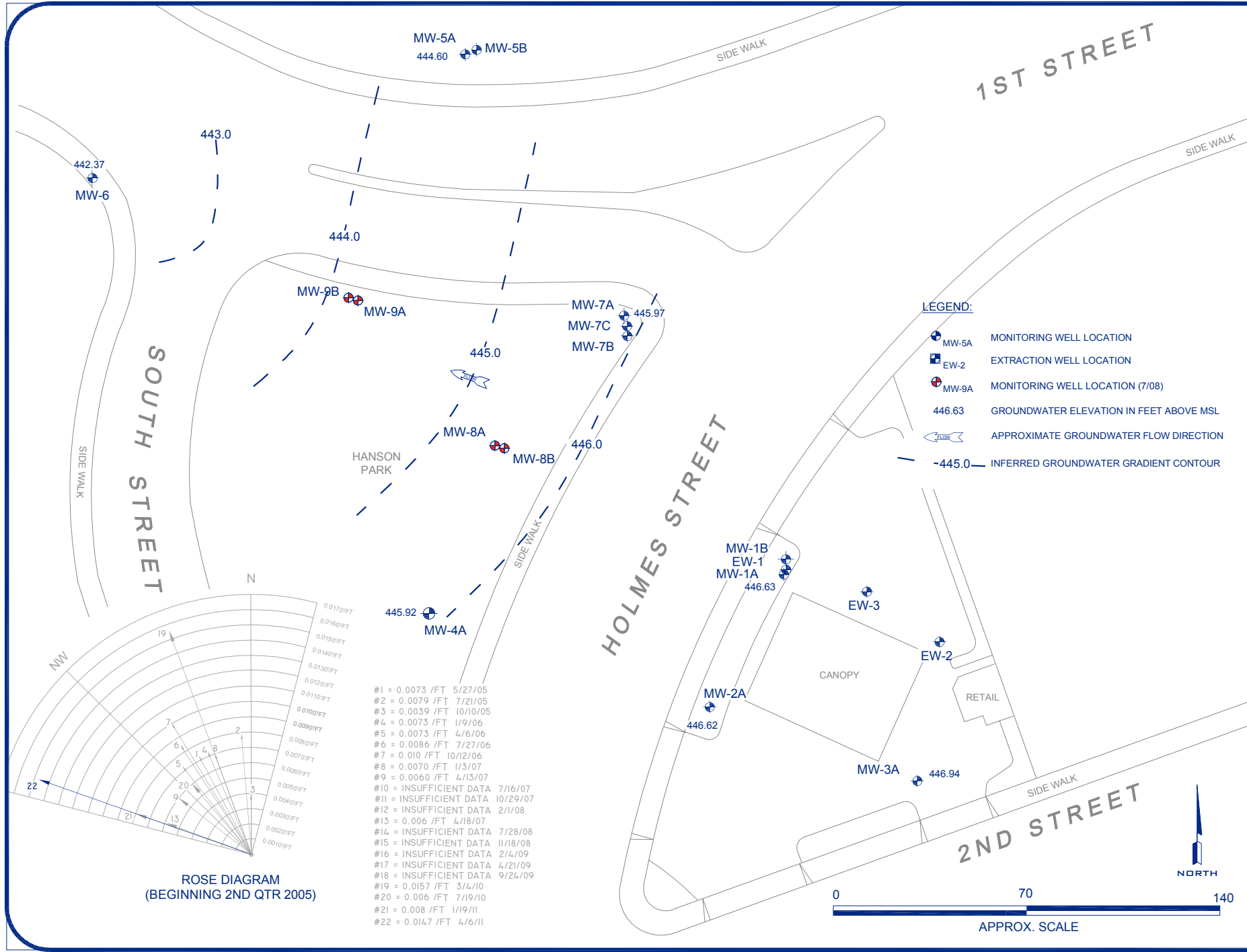
SECOND QUARTER 2011
GROUNDWATER MONITORING
REPORT

| | | | |
|---------|-------------|-------|---------------------|
| Project | 160 | Sheet | FIGURE 2 |
| Date | 5-10-11 | | |
| Scale | see drawing | | |

USER

RE/DATE

FN/NAME



General Notes

stamp

160 HOLMES STREET, LIVERMORE, CALIFORNIA
GROUNDWATER MONITORING REPORT

PREPARED BY:
ALLTERRA

| | | |
|-----|----------------|------|
| 0 | DRAFT/REVIEW | 5/10 |
| No. | Revision/Issue | Date |

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Sheet Name and Address
 SHALLOW-GROUNDWATER
 POTENTIOMETRIC
 MAP FOR 4-6-11

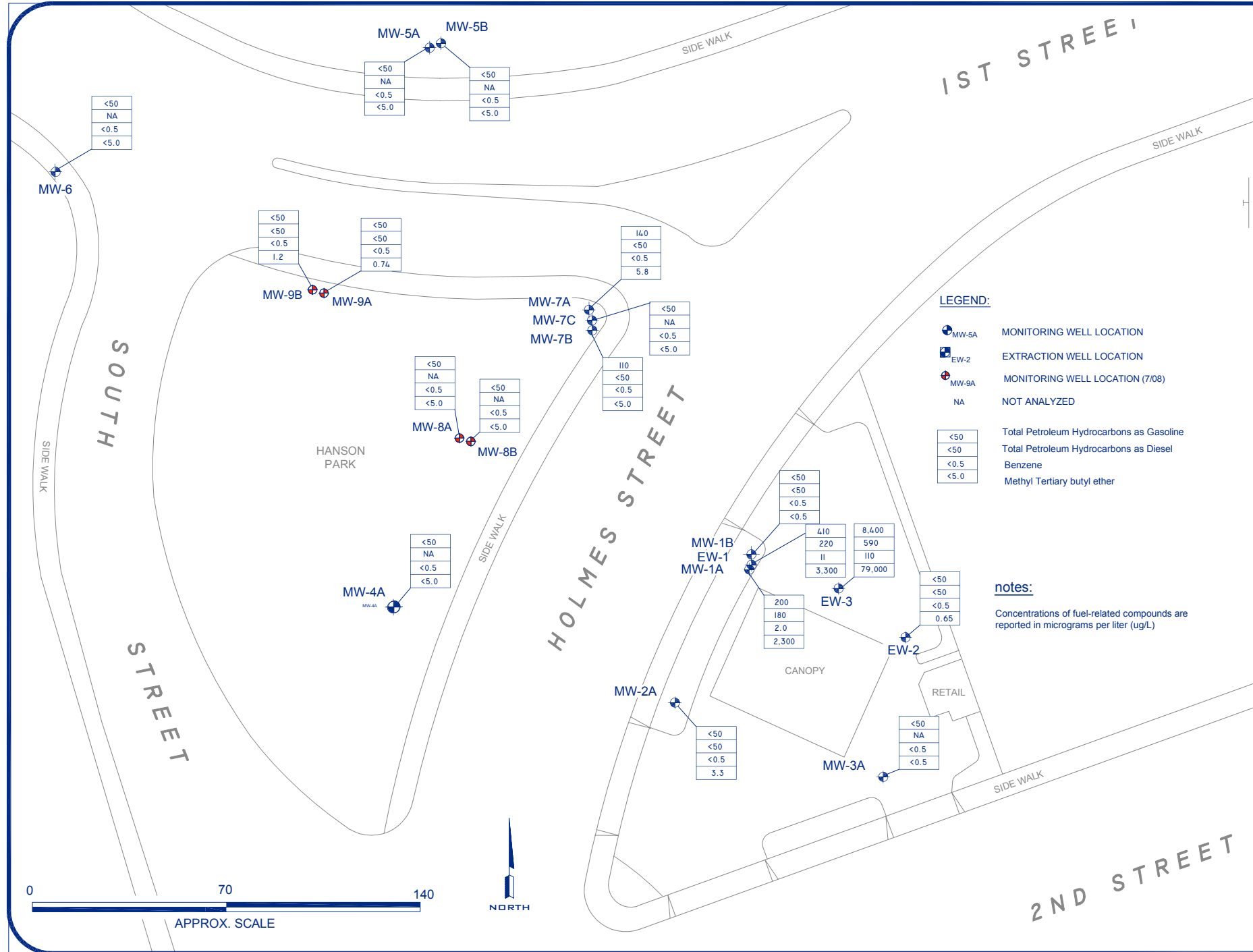
SECOND QUARTER 2011
 GROUNDWATER MONITORING
 REPORT

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| Project | 160 | Sheet | FIGURE |
| Date | 5-10-11 | | 3 |
| Scale | see drawing | | |

USER

REVDATE

ENAME



LEGEND:

- MW-5A MONITORING WELL LOCATION
- EW-2 EXTRACTION WELL LOCATION
- MW-9A MONITORING WELL LOCATION (7/08)
- NA NOT ANALYZED

- <50 Total Petroleum Hydrocarbons as Gasoline
- <50 Total Petroleum Hydrocarbons as Diesel
- <0.5 Benzene
- <5.0 Methyl Tertiary butyl ether

notes:

Concentrations of fuel-related compounds are reported in micrograms per liter (ug/L)

General Notes

stamp

160 HOLMES STREET, LIVERMORE, CALIFORNIA
GROUNDWATER MONITORING REPORT

PREPARED BY:
ALLTERRA

| | | |
|-----|----------------|------|
| 0 | DRAFT/REVIEW | 5/10 |
| No. | Revision/Issue | Date |

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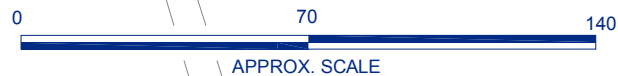
Street Name and Address
CONCENTRATIONS OF PETROLEUM
CONSTITUENTS IN GROUNDWATER
SECOND QUARTER 2011
GROUNDWATER MONITORING
REPORT

| | | | |
|-------------|---------|-------|---------------------|
| Project | 160 | Sheet | FIGURE 4 |
| Date | 5-10-11 | Scale | |
| see drawing | | | |

FILENAME

REVDATE

USER



TABLES 1 - 2

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 | |
| 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 | |

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 |
| 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 | |
| | 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 | 448.77 |
| | | 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 | |

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 | |
| 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 | |

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 |
| 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 |

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 | |
| | 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 | |
| EW-1** | | 4/6/06 | 465.45 | 15-40 | 15.99 | 449.46 |
| | | 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 | |

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 |
| EW-3 ^(a) | 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 |
| | MW-8A | 7/28/08 | NC | 16-36 | Dry |
| 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 |
| 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 |
| 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 |

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-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 |
| 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 renamed MW-1A

** = 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 | not sampled - well dry | | | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | 11/14/01 | NC | not sampled - well dry | | | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS | NS |
| | 5/7/02 | NC | not sampled - well dry | | | NS | NS | NS | 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 | | |
| 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 | |

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 cont. | 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 | |
| | 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 | |
| | 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 | |
| | 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 | |
| | 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 | |
| | 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 | |
| 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 | | | | | | | 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 | |
| | 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 | |
| | 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 | |
| | 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 | |
| | 5/27/05 | 446.65 | 270 | 59 | 14 | 3.9 | 19 | 6.8 | 1,100 | 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 | |
| | 10/10/05 | 442.64 | <50 | NS | <.5 | <.5 | <.5 | <.5 | 680 | 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 | 0.80 | 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 | <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 | 0.60 | <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 | |
| 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 | <5.0 | <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 | | |

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* | 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 | | | | | | | 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 |
| | 5/7/02 | NC | not sampled - well dry | | | | | | | NA | NA | NA | NA | NA | NA | NA | 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 | | | | | | 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 |
| | 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 |
| | 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 | |
| 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 | |
| | 5/7/02 | 438.40 | 150 | <50 | 3.5 | 0.5 | <0.5 | <0.5 | 48 | 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 | |
| | 12/1/02 | 436.76 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 24 | 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 | |
| | 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 | |
| | 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 | |
| | 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 | |
| | 3/10/04 | 446.95 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 37 | 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 | |
| | 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 | |
| | 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 | |

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-4** cont. | 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 | <5.0 | 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 |
| | 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 | 439.30 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| | 7/20/10 | 440.71 | <50 | NA | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | 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 |
| | 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 |
| | 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 |
| 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 | 1,500 | 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 | 1,100 | 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 | <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 |

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-5A cont. | 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 | |
| | 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 | |
| | 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 | 48 | 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 | | |
| 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 | 0.86 | <50 | <500 | <0.5 | <0.5 | |
| | 4/6/06 | 447.13 | <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 | 440.68 | <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 | |
| 10/13/06 | 439.77 | <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 | | |

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 cont. | 1/4/07 | 442.10 | <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 | |
| | 4/16/07 | 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 | | |
| 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 | 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 | <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 | | |
| 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 | |
| | 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 | |
| | 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 | |
| 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 | | |
| 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 | | |

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 cont. | 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 |
| | 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 |
| | 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 |
| 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 | <0.5 | 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 | *** | <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 | <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 |
| | 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 |
| 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 |
| | 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 |
| 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 |
| | 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 |

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-9A | 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 | NC | <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 | 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 | 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 | |
| | 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 | |
| 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 |
| | 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 | 4.1 | 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 | |
| | 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 | |

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-1 cont. | 3/4/10 | NC | 4,400 | NA | 460 | <25 | 380 | <25 | 31,000 | NA | 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 | 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 | |
| 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 | <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 | 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 | 437.95 | 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 | NC | <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 | 441.54 | <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 | 442.27 | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | <0.5 | 2.8 | <0.5 | <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 | | |
| 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 | |
| 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 | |

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 |
| 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 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

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

* = 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 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 160 Holmes Date 4-8-11
 Project Number _____ Field Personnel AW

Monitoring Well Information

Monitoring Well ID MW-1A Monitoring Well Diameter (inches) 2"
 Depth to Water (feet) 19.40 Water Column (feet) 10.1
 Total Depth (feet) 28.50 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) 2
 Comments _____

Field Measurements and Observations

| Time | Depth to Water | Purge Volume | Conductivity | Temperature | pH | Turbidity | Color | Odor | D.O. | ORP |
|------|----------------|--------------|--------------|-------------|-------------|-------------|------------|---------------|-------------|--------------|
| | | <u>2.0</u> | <u>1046</u> | <u>18.6</u> | <u>7.20</u> | <u>HIGH</u> | <u>BRN</u> | <u>STRONG</u> | <u>5.73</u> | <u>150mV</u> |
| | | <u>4.0</u> | <u>1103</u> | <u>18.7</u> | <u>7.09</u> | <u>HIGH</u> | <u>BRN</u> | <u>STRONG</u> | <u>4.64</u> | <u>136</u> |
| | | <u>6.0</u> | <u>1148</u> | <u>19.1</u> | <u>7.08</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> | <u>8.37</u> | <u>98</u> |

Total Purge Volume 6.0 Comments _____

Groundwater Sampling Information

Sample ID MW-1A Sample Time _____
 Sample Containers (Number/Type) (10) VOA, (2) 250 u.p. (1) 250 HNO₃ (2) 500 u.p.
 Comments (1) Amber (1) Amber u.p.

Groundwater Sampling Field Log

Site Address 160 Holmes Date 4-8-11
 Project Number _____ Field Personnel AW

Monitoring Well Information

Monitoring Well ID MW-1B Monitoring Well Diameter (inches) _____
 Depth to Water (feet) 18.40 Water Column (feet) 36.1
 Total Depth (feet) 54.50 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) 6.1
 Comments _____

Field Measurements and Observations

| Time | Depth to Water | Purge Volume | Conductivity | Temperature | pH | Turbidity | Color | Odor | D.O. | MV |
|------|----------------|--------------|--------------|-------------|-------------|------------|------------|-------------|-------------|------------|
| | | <u>6</u> | <u>713</u> | <u>18.8</u> | <u>7.60</u> | <u>LOW</u> | <u>CLR</u> | <u>NONE</u> | <u>8.03</u> | <u>153</u> |
| | | <u>12</u> | <u>716</u> | <u>18.8</u> | <u>7.38</u> | <u>MED</u> | <u>BRN</u> | <u>↓</u> | <u>7.62</u> | <u>156</u> |
| | | <u>18</u> | <u>713</u> | <u>19.9</u> | <u>7.34</u> | <u>MED</u> | <u>BRN</u> | <u>↓</u> | <u>8.83</u> | <u>160</u> |

Total Purge Volume _____ Comments _____

Groundwater Sampling Information

Sample ID MW-1B Sample Time _____
 Sample Containers (Number/Type) (10) VOA, (2) 250 u.p. (1) 250 HNO₃ (2) 500 u.p.
 Comments (1) Amber (1) Amber u.p.

ALLTERRA

Groundwater Sampling Field Log

Site Address 160 Holmes Date 4-7
Project Number Field Personnel AW

Monitoring Well Information

Monitoring Well ID MW-4A Monitoring Well Diameter (inches) 2"
Depth to Water (feet) Water Column (feet) 9.76
Total Depth (feet) 28.80 80% Recharge Depth (feet)
Depth to Product (feet) 1 Well Volume (gallons) 2
Comments

Field Measurements and Observations

| Time | Depth to Water | Purge Volume | Conductivity | Temperature | pH | Turbidity | Color | Odor |
|------|----------------|--------------|--------------|-------------|------|-----------|-------|------|
| 1030 | | 2 | 1059 | 18.1 | 7.13 | HIGH | BRN | MILD |
| | | 4 | 1033 | 18.0 | 7.07 | ↓ | ↓ | ↓ |
| | | 6 | | | | | | |

Total Purge Volume Comments

Groundwater Sampling Information

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

Groundwater Sampling Field Log

Site Address 160 Holmes Date 4-8-11
Project Number Field Personnel AW

Monitoring Well Information

Monitoring Well ID MW-3A Monitoring Well Diameter (inches) 2"
Depth to Water (feet) 18.90 Water Column (feet) 9.3
Total Depth (feet) 28.20 80% Recharge Depth (feet)
Depth to Product (feet) 1 Well Volume (gallons) 1.6
Comments

Field Measurements and Observations

| Time | Depth to Water | Purge Volume | Conductivity | Temperature | pH | Turbidity | Color | Odor |
|------|----------------|--------------|--------------|-------------|------|-----------|-------|------|
| | | 1.6 | 631 | 19.20 | 7.78 | HIGH | BRN | NONE |
| | | 3.2 | 653 | 18.80 | 7.35 | ↓ | ↓ | ↓ |
| | | 4.7 | 656 | 19.0 | 7.17 | | | |

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 4-11-11
 Project Number _____ Field Personnel ANDREW

Monitoring Well Information

Monitoring Well ID MW-2A Monitoring Well Diameter (inches) 2"
 Depth to Water (feet) 19.30 Water Column (feet) 10.1
 Total Depth (feet) 29.40 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) 1.7
 Comments _____

Field Measurements and Observations

| Time | Depth to Water | Purge Volume | Conductivity | Temperature | pH | Turbidity | Color | Odor | g/L D.O. | mV ORP |
|------|----------------|--------------|--------------|-------------|------|-----------|-------|--------|----------|--------|
| | | 2 | 1616 | 17.8 | 6.72 | HIGH | BRN | SLIGHT | 3.91 | 232 |
| | | 4 | 1719 | 17.8 | 6.66 | HIGH | BRN | SLIGHT | | |
| | | 6 | 1722 | 18.3 | 6.64 | HIGH | BRN | SLIGHT | | |

Total Purge Volume 6 Comments _____

Groundwater Sampling Information

Sample ID MW-2A Sample Time 1700
 Sample Containers (Number/Type) (10) VOA (2) 250 u.p. (1) 250 HNO₃ (2) 500 u.p.
 Comments (1) AMBER u.p. (1) Amber

Groundwater Sampling Field Log

Site Address 160 Holmes Date 4-11-11
 Project Number _____ Field Personnel ANDREW

Monitoring Well Information

Monitoring Well ID EW-3 Monitoring Well Diameter (inches) 4"
 Depth to Water (feet) 19.80 Water Column (feet) 14.2
 Total Depth (feet) 34.00 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) 10.0
 Comments _____

Field Measurements and Observations

| Time | Depth to Water | Purge Volume | Conductivity | Temperature | pH | Turbidity | Color | Odor | D.O. | ORP |
|------|----------------|--------------|--------------|-------------|------|-----------|-------|--------|------|-----|
| | | 10.0 | 1100 | 18.43 | 6.94 | HIGH | GREY | STRONG | 4.65 | 24 |
| | | 20.0 | 1360 | 18.44 | 6.86 | ↓ | ↓ | ↓ | 4.33 | -39 |
| | | 30.0 | 1560 | 18.55 | 6.83 | ↓ | ↓ | ↓ | 4.22 | -45 |

Total Purge Volume _____ Comments _____

Groundwater Sampling Information

Sample ID EW-3 Sample Time 1400
 Sample Containers (Number/Type) (10) VOA (2) 250 u.p. (1) 250 HNO₃ (2) 500 u.p.
 Comments (1) AMBER u.p. (1) AMBER HCL



Groundwater Sampling Field Log

Site Address 160 Holmes Date 4-6-11
Project Number _____ Field Personnel AW

Monitoring Well Information

Monitoring Well ID MW-5A Monitoring Well Diameter (inches) 2"
Depth to Water (feet) 19.98 Water Column (feet) 32.66
Total Depth (feet) 52.64 80% Recharge Depth (feet) _____
Depth to Product (feet) _____ 1 Well Volume (gallons) 5.5
Comments _____

Field Measurements and Observations

| Time | Depth to Water | Purge Volume | Conductivity | Temperature | pH | Turbidity | Color | Odor |
|-------------|----------------|--------------|--------------|-------------|-------------|-------------|----------------|-------------|
| <u>1500</u> | | <u>5.5</u> | <u>1145</u> | <u>21.7</u> | <u>7.38</u> | <u>HIGH</u> | <u>TAN/BRN</u> | <u>NONE</u> |
| | | <u>11.0</u> | <u>1126</u> | <u>21.6</u> | <u>7.33</u> | <u>HIGH</u> | <u>↓</u> | <u>↓</u> |
| | | <u>16.5</u> | <u>1114</u> | <u>21.5</u> | <u>7.32</u> | | | |

Total Purge Volume 16.5 Comments _____

Groundwater Sampling Information

Sample ID MW-5A Sample Time _____
Sample Containers (Number/Type) 4 VOA
Comments _____

Groundwater Sampling Field Log

Site Address 160 Holmes Date 4-6-11
Project Number _____ Field Personnel AW

Monitoring Well Information

Monitoring Well ID MW-5B Monitoring Well Diameter (inches) _____
Depth to Water (feet) 20.05 Water Column (feet) 13.95
Total Depth (feet) 34.00 80% Recharge Depth (feet) _____
Depth to Product (feet) _____ 1 Well Volume (gallons) 2.5
Comments _____

Field Measurements and Observations

| Time | Depth to Water | Purge Volume | Conductivity | Temperature | pH | Turbidity | Color | Odor |
|------|----------------|--------------|--------------|-------------|-------------|------------|-------------|-------------|
| | | <u>2.5</u> | <u>751</u> | <u>20.5</u> | <u>7.51</u> | <u>MED</u> | <u>BRWN</u> | <u>NONE</u> |
| | | <u>5.0</u> | <u>743</u> | <u>20.7</u> | <u>7.39</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> |
| | | <u>7.5</u> | <u>742</u> | <u>20.6</u> | <u>7.36</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> |

Total Purge Volume 7.5 Comments _____

Groundwater Sampling Information

Sample ID MW-5B Sample Time 1600
Sample Containers (Number/Type) 4 VOA
Comments _____



Groundwater Sampling Field Log

Site Address 160 HOLMES Date 4-7-11
 Project Number _____ Field Personnel AW

Monitoring Well Information

Monitoring Well ID MW-7C Monitoring Well Diameter (inches) _____
 Depth to Water (feet) 19.88 Water Column (feet) 48.62
 Total Depth (feet) 68.5 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) 8.5
 Comments _____

Field Measurements and Observations

| Time | Depth to Water | Purge Volume | Conductivity | Temperature | pH | Turbidity | Color | Odor |
|------|----------------|--------------|--------------|-------------|-------------|------------|------------|-------------|
| | | <u>8.5</u> | <u>523</u> | <u>18.5</u> | <u>7.50</u> | <u>LOW</u> | <u>CLR</u> | <u>NONE</u> |
| | | <u>17.00</u> | <u>711</u> | <u>18.7</u> | <u>7.29</u> | <u>LOW</u> | <u>CLR</u> | <u>NONE</u> |
| | | <u>25.5</u> | <u>722</u> | <u>18.5</u> | <u>7.31</u> | <u>LOW</u> | <u>CLB</u> | <u>NONE</u> |

Total Purge Volume _____ Comments _____

Groundwater Sampling Information

Sample ID MW-7C Sample Time _____
 Sample Containers (Number/Type) 5 40L 1 AMBER
 Comments _____

Groundwater Sampling Field Log

Site Address 160 Holmes Date 4-6-11
 Project Number _____ Field Personnel ANDREW W.

Monitoring Well Information

Monitoring Well ID MW-6 Monitoring Well Diameter (inches) 2
 Depth to Water (feet) 21.76 Water Column (feet) 25.25
 Total Depth (feet) 47.00 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) 4.3
 Comments _____

Field Measurements and Observations

| Time | Depth to Water | Purge Volume | Conductivity | Temperature | pH | Turbidity | Color | Odor |
|------|----------------|--------------|--------------|-------------|-------------|------------|------------|-------------|
| | | <u>4.5</u> | <u>604</u> | <u>19.2</u> | <u>7.91</u> | <u>MED</u> | <u>BRN</u> | <u>NONE</u> |
| | | <u>9.0</u> | <u>670</u> | <u>19.3</u> | <u>7.59</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> |
| | | <u>13.5</u> | <u>692</u> | <u>19.1</u> | <u>7.46</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> |

Total Purge Volume 13.5 Comments _____

Groundwater Sampling Information

Sample ID MW-6 Sample Time _____
 Sample Containers (Number/Type) 4 VOA
 Comments _____

ALLTERRA

Groundwater Sampling Field Log

Site Address 160 Holmes Date 4-8-11
 Project Number _____ Field Personnel AW

Monitoring Well Information

Monitoring Well ID MW-7A Monitoring Well Diameter (inches) 2"
 Depth to Water (feet) 19.35 Water Column (feet) 9.7
 Total Depth (feet) 29.06 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) 1.6
 Comments _____

Field Measurements and Observations

| Time | Depth to Water | Purge Volume | Conductivity | Temperature | pH | Turbidity | Color | Odor | D.O. | ORP |
|------|----------------|--------------|--------------|-------------|------|-----------|-------|------|------|-----|
| | | 1.6 | 1020 | 18.50 | 6.88 | HIGH | BRN | NONE | 4.51 | 206 |
| | | 3.2 | 1040 | 18.89 | 6.92 | | | | 4.20 | 210 |
| | | 4.8 | 1060 | 18.93 | 6.94 | ↓ | ↓ | ↓ | 5.25 | 212 |

Total Purge Volume 4.8 Comments _____

Groundwater Sampling Information

Sample ID MW-7A Sample Time _____
 Sample Containers (Number/Type) (10) VOA (2) 250 u.p. (2) 500 u.p. (1) 250 HNO₃
 Comments (1) Amber (HCL) (1) Amber u.p.

Groundwater Sampling Field Log

Site Address 160 Holmes Date 4-8-11
 Project Number _____ Field Personnel AW

Monitoring Well Information

Monitoring Well ID MW-7B Monitoring Well Diameter (inches) 2"
 Depth to Water (feet) 21.78 Water Column (feet) 26.72
 Total Depth (feet) 48.50 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) 13.6
 Comments _____

Field Measurements and Observations

| Time | Depth to Water | Purge Volume | Conductivity | Temperature | pH | Turbidity | Color | Odor | D.O. | mV ORP |
|------|----------------|--------------|--------------|-------------|------|-----------|-------|------|------|--------|
| | | 4.5 | 999 | 20.03 | 6.87 | LOW | CLR. | NONE | 6.53 | 183 |
| | | 9.0 | 990 | 20.00 | 6.75 | | | | 5.48 | 169 |
| | | 13.5 | 900 | 19.66 | 6.77 | ↓ | ↓ | ↓ | 5.35 | 141 |

Total Purge Volume _____ Comments _____

Groundwater Sampling Information

Sample ID MW-7B Sample Time 1200
 Sample Containers (Number/Type) (10) VOA (2) 250 u.p. (2) 500 u.p. (1) 250 HNO₃
 Comments (1) Amber u.p. (1) Amber HCL.



Groundwater Sampling Field Log

Site Address 166 Holmes Date 4-7-11
 Project Number _____ Field Personnel AW

Monitoring Well Information

Monitoring Well ID MW-84 Monitoring Well Diameter (inches) 2"
 Depth to Water (feet) 19.22 Water Column (feet) 16.28
 Total Depth (feet) 35.50 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) 2.8
 Comments _____

Field Measurements and Observations

| Time | Depth to Water | Purge Volume | Conductivity | Temperature | pH | Turbidity | Color | Odor |
|------|----------------|--------------|--------------|-------------|------|-----------|-------|------|
| 1300 | | 3 | 1357 | 18.3 | 7.26 | MED | BRN | NONE |
| | | 6 | 1324 | 18.5 | 7.25 | ↓ | ↓ | ↓ |
| | | 9 | 1261 | 18.7 | 7.21 | ↓ | ↓ | ↓ |

Total Purge Volume 9 Comments _____

Groundwater Sampling Information

Sample ID MW-8A Sample Time 1330
 Sample Containers (Number/Type) 5 VOA 1 AMBER
 Comments _____

Groundwater Sampling Field Log

Site Address 160 Holmes Date 4-7-11
 Project Number _____ Field Personnel AW

Monitoring Well Information

Monitoring Well ID MW-8B Monitoring Well Diameter (inches) 2"
 Depth to Water (feet) 19.42 Water Column (feet) 31.08
 Total Depth (feet) 50.5 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) 5.0
 Comments _____

Field Measurements and Observations

| Time | Depth to Water | Purge Volume | Conductivity | Temperature | pH | Turbidity | Color | Odor |
|------|----------------|--------------|--------------|-------------|------|-----------|-------|------|
| | | 5.0 | 726 | 19.1 | 7.36 | LOW | CLR | NONE |
| | | 10.0 | 723 | 19.1 | 7.35 | MED | BRWN | NONE |
| | | 15.0 | 720 | 19.5 | 7.33 | MED | BRWN | NONE |

Total Purge Volume _____ Comments _____

Groundwater Sampling Information

Sample ID MW-8B Sample Time 1500
 Sample Containers (Number/Type) _____
 Comments _____



Groundwater Sampling Field Log

Site Address 160 Holmes Date 4-7-11
 Project Number _____ Field Personnel AW

Monitoring Well Information

Monitoring Well ID MW-9A Monitoring Well Diameter (inches) 2"
 Depth to Water (feet) 21.50' Water Column (feet) 29.5'
 Total Depth (feet) 51.00' 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) 5.0
 Comments _____

Field Measurements and Observations

| Time | Depth to Water | Purge Volume | Conductivity | Temperature | pH | Turbidity | Color | Odor |
|------|----------------|--------------|--------------|-------------|-------------|------------|------------|-------------|
| | | <u>5.0</u> | <u>757</u> | <u>18.2</u> | <u>7.43</u> | <u>LOW</u> | <u>CLR</u> | <u>NONE</u> |
| | | <u>10.0</u> | <u>773</u> | <u>18.7</u> | <u>7.30</u> | <u>LOW</u> | <u>CLR</u> | <u>NONE</u> |
| | | <u>15.0</u> | <u>797</u> | <u>19.0</u> | <u>7.24</u> | <u>MED</u> | <u>BRN</u> | <u>NONE</u> |

Total Purge Volume _____ Comments _____

Groundwater Sampling Information

Sample ID MW-9A Sample Time 1200
 Sample Containers (Number/Type) 5 VOA 1 AMBER
 Comments _____

Groundwater Sampling Field Log

Site Address 160 Holmes Date 4-7-11
 Project Number _____ Field Personnel AW

Monitoring Well Information

Monitoring Well ID MW-9B Monitoring Well Diameter (inches) 2"
 Depth to Water (feet) 21.21 Water Column (feet) 18.27
 Total Depth (feet) 39.5 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) 3.1
 Comments _____

Field Measurements and Observations

| Time | Depth to Water | Purge Volume | Conductivity | Temperature | pH | Turbidity | Color | Odor |
|------|----------------|--------------|--------------|-------------|-------------|------------|------------|-------------|
| | | <u>3.1</u> | <u>1057</u> | <u>18.3</u> | <u>7.01</u> | <u>MED</u> | <u>BRN</u> | <u>NONE</u> |
| | | <u>6.2</u> | <u>1051</u> | <u>18.4</u> | <u>6.98</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> |
| | | <u>9.3</u> | <u>1048</u> | <u>18.6</u> | <u>6.95</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> |

Total Purge Volume 7.3 Comments _____

Groundwater Sampling Information

Sample ID MW-9B Sample Time 1100
 Sample Containers (Number/Type) 5 VOA 1 AMBER
 Comments _____

ALLTERRA

Groundwater Sampling Field Log

Site Address 160 Holmes Date 4-11-11
 Project Number _____ Field Personnel AW

Monitoring Well Information

Monitoring Well ID EW-1 Monitoring Well Diameter (inches) 4"
 Depth to Water (feet) 18.85 Water Column (feet) 20.15
 Total Depth (feet) 39.00 80% Recharge Depth (feet) _____
 Depth to Product (feet) _____ 1 Well Volume (gallons) 13.00
 Comments _____

Field Measurements and Observations

| Time | Depth to Water | Purge Volume | Conductivity | Temperature | pH | Turbidity | Color | Odor | D.O. | ORP |
|------|----------------|--------------|--------------|-------------|-------------|-------------|------------|---------------|-------------|------------|
| | | <u>13.00</u> | <u>922</u> | <u>18.9</u> | <u>7.30</u> | <u>HIGH</u> | <u>BRN</u> | <u>SLIGHT</u> | <u>5.55</u> | <u>300</u> |
| | | <u>26.00</u> | <u>978</u> | <u>18.3</u> | <u>7.17</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> | <u>4.53</u> | <u>304</u> |
| | | <u>39.00</u> | <u>1081</u> | <u>19.0</u> | <u>7.17</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> | <u>4.81</u> | <u>283</u> |

Total Purge Volume 39.00 Comments _____

Groundwater Sampling Information

Sample ID EW-1 Sample Time 1500
 Sample Containers (Number/Type) (10) VOA (2) 250 u.p. (1) 250 HNO3 (2) 500 u.p.
 Comments (1) AMBER u.p. (1) AMBER

Groundwater Sampling Field Log

Site Address 160 Holmes Date 4-11-11
 Project Number _____ Field Personnel ANDREW

Monitoring Well Information

Monitoring Well ID EW-2 Monitoring Well Diameter (inches) _____
 Depth to Water (feet) 19.00 Water Column (feet) 18.00
 Total Depth (feet) 37.00 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 | D.O. | ORP |
|------|----------------|--------------|--------------|--------------|-------------|-------------|------------|-------------|-------------|------------|
| | | <u>12.0</u> | <u>800+</u> | <u>19.27</u> | <u>7.61</u> | <u>HIGH</u> | <u>BRN</u> | <u>mild</u> | <u>6.6</u> | <u>309</u> |
| | | <u>24.0</u> | <u>800+</u> | <u>19.19</u> | <u>6.59</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> | <u>7.71</u> | <u>298</u> |
| | | <u>36.00</u> | <u>800+</u> | <u>19.00</u> | <u>6.65</u> | <u>↓</u> | <u>↓</u> | <u>↓</u> | <u>6.16</u> | <u>294</u> |

Total Purge Volume _____ Comments _____

Groundwater Sampling Information

Sample ID EW-2 Sample Time 1500
 Sample Containers (Number/Type) (10) VOA (1) 250 HNO3 (1) Amber HCL (1) Amber u.p.
 Comments (4) 500 u.p.

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 849 Almar Ave, Ste. C #281 Santa Cruz, CA 95060 | Client Project ID: #160; Livermore Gas | Date Sampled: 04/06/11-07/07/11 |
| | | Date Received: 04/14/11 |
| | Client Contact: James Allen | Date Reported: 04/19/11 |
| | Client P.O.: | Date Completed: 04/18/11 |

WorkOrder: 1104402

April 19, 2011

Dear James:

Enclosed within are:

- 1) The results of the **9** analyzed samples from your project: **#160; Livermore Gas,**
- 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.

1104402



849 Almar Avenue, Suite C, #281
 Santa Cruz, California 95060
 Website: www.allterragnv.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: 160
 Project Location: 160 Holmes Street, Livermore, California
 Project Name: Livermore Gas
 Sampler Signature: *Andrew Westerman* FOR ANDREW WESTERMAN

| Field Point Name / Sample ID | Sample Collection | | Sample Containers | | Matrix | | | | | Preservation | | | |
|------------------------------|-------------------|------|----------------------|----------------|--------|-------|------|--------|-------|--------------|-----|------|-------|
| | Date | Time | Number of Containers | Container Type | Air | Water | Soil | Sludge | Other | Ice | HC1 | HNO3 | Other |
| MW-4A | 4/7/2011 | | 4 | VOAs | | X | | | | X | | | |
| MW-5A | 4/6/2011 | 1500 | 4 | VOAs | | X | | | | X | | | |
| MW-5B | 4/6/2011 | 1600 | 4 | VOAs | | X | | | | X | | | |
| MW-6 | 4/6/2011 | 1400 | 4 | VOAs | | X | | | | X | | | |
| MW-7C | 4/7/2011 | | 4 | VOAs | | X | | | | X | | | |
| MW-8A | 4/7/2011 | 1330 | 4 | VOAs | | X | | | | X | | | |
| MW-8B | 4/7/2011 | 1500 | 4 | VOAs | | X | | | | X | | | |
| MW-9A | 4/7/2011 | 1130 | 6 | voa/amber | | X | | | | X | | | |
| MW-9B | 4/7/2011 | 1500 | 6 | voa/amber | | X | | | | X | | | |

| TPH/g/ BTEX/ MTBE (EPA 8015/8021) | BTEX (EPA 8020) | TPHd (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 |
|-----------------------------------|-----------------|-----------------|------------------------|---------------------------------|------------------------|------------------------|---------------------------------|-------------------------------|-------------------------------|------------------------------------|------------------------|-----------------------------|--------------|
| X | | | | | | | | | | | | | X |
| X | | | | | | | | | | | | | X |
| X | | | | | | | | | | | | | X |
| X | | | | | | | | | | | | | X |
| X | | | X | | X | | | | | | | | X |
| X | | | X | | X | | | | | | | | X |
| X | | X | X | | X | | | | | | | | X |

Sampled By: Andrew Westerman Date: 4/11/11 Time: Received By:
 Received By: Date: 4/14/11 Time: 11:00 Received By: *Maria V...*
 Received By: Date: Time: Received By:

Comments: 4.0
 ICE# 4.0
 GOOD CONDITION
 HEAD SPACE ABSENT
 DECHLORINATED IN LAB
 PRESERVATION VOAS O&G METALS OTHER

REC'D SEALED & INTACT VIA OnTrac

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1104402

ClientCode: ATRS

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 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; Livermore Gas

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: 04/14/2011

Date Printed: 04/14/2011

| 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 |
| 1104402-001 | MW-4A | Water | 4/7/2011 | <input type="checkbox"/> | | A | A | | | | | | | | | |
| 1104402-002 | MW-5A | Water | 4/6/2011 15:00 | <input type="checkbox"/> | | A | | | | | | | | | | |
| 1104402-003 | MW-5B | Water | 4/6/2011 16:00 | <input type="checkbox"/> | | A | | | | | | | | | | |
| 1104402-004 | MW-6 | Water | 4/6/2011 14:00 | <input type="checkbox"/> | | A | | | | | | | | | | |
| 1104402-005 | MW-7C | Water | 7/7/2011 | <input type="checkbox"/> | B | A | | | | | | | | | | |
| 1104402-006 | MW-8A | Water | 7/7/2011 13:30 | <input type="checkbox"/> | | A | | | | | | | | | | |
| 1104402-007 | MW-8B | Water | 7/7/2011 15:00 | <input type="checkbox"/> | | A | | | | | | | | | | |
| 1104402-008 | MW-9A | Water | 7/7/2011 11:30 | <input type="checkbox"/> | C | A | | B | | | | | | | | |
| 1104402-009 | MW-9B | Water | 4/7/2011 15:00 | <input type="checkbox"/> | C | A | | B | | | | | | | | |

Test Legend:

| | | | | | | | | | |
|----|----------------|----|-----------|---|--------------|---|----------|----|--|
| 1 | 5-OXYS+PBSCV_W | 2 | G-MBTEX_W | 3 | PREFD REPORT | 4 | TPH(D)_W | 5 | |
| 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: **4/14/2011 2:22:34 PM**

Project Name: **#160; Livermore Gas**

Checklist completed and reviewed by: **Maria Venegas**

WorkOrder N°: **1104402** 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: 4°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.

=====

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 849 Almar Ave, Ste. C #281 Santa Cruz, CA 95060 | Client Project ID: #160; Livermore Gas | Date Sampled: 04/07/11-07/07/11 |
| | | Date Received: 04/14/11 |
| | Client Contact: James Allen | Date Extracted: 04/15/11 |
| | Client P.O.: | Date Analyzed: 04/15/11 |

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1104402

| | | | | | | |
|-----------|--------------|--------------|--------------|--|------------------------------|--|
| Lab ID | 1104402-005B | 1104402-008C | 1104402-009C | | Reporting Limit for DF =1 | |
| Client ID | MW-7C | MW-9A | MW-9B | | | |
| Matrix | W | W | W | | | |
| DF | 1 | 1 | 1 | | | |

| Compound | Concentration | | | | ug/kg | µg/L |
|-------------------------------|---------------|------|-----|--|-------|------|
| tert-Amyl methyl ether (TAME) | ND | ND | ND | | NA | 0.5 |
| t-Butyl alcohol (TBA) | ND | 65 | 22 | | NA | 2.0 |
| 1,2-Dibromoethane (EDB) | ND | ND | ND | | NA | 0.5 |
| 1,2-Dichloroethane (1,2-DCA) | ND | ND | ND | | NA | 0.5 |
| Diisopropyl ether (DIPE) | ND | ND | ND | | NA | 0.5 |
| Ethyl tert-butyl ether (ETBE) | ND | ND | ND | | NA | 0.5 |
| Methyl-t-butyl ether (MTBE) | ND | 0.74 | 1.2 | | NA | 0.5 |

Surrogate Recoveries (%)

| | | | | | |
|-------|----|-----|-----|--|--|
| %SS1: | 98 | 100 | 100 | | |
|-------|----|-----|-----|--|--|

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.



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Telephone: 877-252-9262 Fax: 925-252-9269

| | | |
|--|--|---------------------------------|
| Allterra Environmental 849 Almar Ave, Ste. C #281 Santa Cruz, CA 95060 | Client Project ID: #160; Livermore Gas | Date Sampled: 04/06/11-07/07/11 |
| | | Date Received: 04/14/11 |
| | Client Contact: James Allen | Date Extracted: 04/15/11 |
| | Client P.O.: | Date Analyzed: 04/15/11 |

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1104402

| Lab ID | Client ID | Matrix | TPH(g) | MTBE | Benzene | Toluene | Ethylbenzene | Xylenes | DF | % SS | Comments |
|--------|-----------|--------|--------|------|---------|---------|--------------|---------|----|------|----------|
| 001A | MW-4A | W | ND | ND | ND | ND | ND | ND | 1 | 101 | |
| 002A | MW-5A | W | ND | ND | ND | ND | ND | ND | 1 | 100 | |
| 003A | MW-5B | W | ND | ND | ND | ND | ND | ND | 1 | 99 | |
| 004A | MW-6 | W | ND | ND | ND | ND | ND | ND | 1 | 98 | |
| 005A | MW-7C | W | ND | ND | ND | ND | ND | ND | 1 | 102 | |
| 006A | MW-8A | W | ND | ND | ND | ND | ND | ND | 1 | 101 | |
| 007A | MW-8B | W | ND | ND | ND | ND | ND | ND | 1 | 100 | |
| 008A | MW-9A | W | ND | ND | ND | ND | ND | ND | 1 | 102 | |
| 009A | MW-9B | W | ND | ND | ND | ND | ND | ND | 1 | 101 | |
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|--|---|-----|------|-------|-------|-------|-------|-------|-------|
| 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:



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| | | |
|--|--|---------------------------------|
| Allterra Environmental 849 Almar Ave, Ste. C #281 Santa Cruz, CA 95060 | Client Project ID: #160; Livermore Gas | Date Sampled: 04/07/11-07/07/11 |
| | | Date Received: 04/14/11 |
| | Client Contact: James Allen | Date Extracted: 04/14/11 |
| | Client P.O.: | Date Analyzed 04/15/11-04/16/11 |

Total Extractable Petroleum Hydrocarbons*

Extraction method SW3510C

Analytical methods: SW8015B

Work Order: 1104402

| Lab ID | Client ID | Matrix | TPH-Diesel (C10-C23) | DF | % SS | Comments |
|--------------|-----------|--------|-------------------------|----|------|----------|
| 1104402-008B | MW-9A | W | ND | 1 | 97 | |
| 1104402-009B | MW-9B | W | ND | 1 | 95 | |
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|--|---|----|------|
| 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:

 Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57666

WorkOrder 1104402

| EPA Method SW8260B | Extraction SW5030B | | | | | | | | Spiked Sample ID: 1104379-006B | | | |
|-------------------------------|--------------------|--------|--------|--------|-------|--------|--------|-------|--------------------------------|-------------------------|----------|-----|
| | Analyte | 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 |
| tert-Amyl methyl ether (TAME) | ND | 10 | 75.2 | 87 | 13.9 | 94 | 95.4 | 1.43 | 70 - 130 | 30 | 70 - 130 | 30 |
| t-Butyl alcohol (TBA) | ND | 50 | 77.1 | 93 | 18.7 | 111 | 113 | 1.49 | 70 - 130 | 30 | 70 - 130 | 30 |
| 1,2-Dibromoethane (EDB) | ND | 10 | 95.4 | 105 | 9.27 | 118 | 119 | 0.745 | 70 - 130 | 30 | 70 - 130 | 30 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 10 | 108 | 118 | 9.11 | 122 | 124 | 1.71 | 70 - 130 | 30 | 70 - 130 | 30 |
| Diisopropyl ether (DIPE) | ND | 10 | 112 | 122 | 8.07 | 125 | 127 | 1.94 | 70 - 130 | 30 | 70 - 130 | 30 |
| Ethyl tert-butyl ether (ETBE) | ND | 10 | 96.2 | 109 | 12.4 | 110 | 112 | 2.27 | 70 - 130 | 30 | 70 - 130 | 30 |
| Methyl-t-butyl ether (MTBE) | ND | 10 | 90.6 | 106 | 15.2 | 102 | 103 | 1.12 | 70 - 130 | 30 | 70 - 130 | 30 |
| %SS1: | 95 | 25 | 96 | 98 | 2.58 | 96 | 97 | 0.789 | 70 - 130 | 30 | 70 - 130 | 30 |

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

BATCH 57666 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|------------------|----------------|------------------|--------------|-------------------|----------------|------------------|
| 1104402-005B | 07/07/11 | 04/15/11 | 04/15/11 3:26 PM | 1104402-008C | 07/07/11 11:30 AM | 04/15/11 | 04/15/11 4:05 PM |
| 1104402-009C | 04/07/11 3:00 PM | 04/15/11 | 04/15/11 6:01 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.

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 SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57614

WorkOrder 1104402

| EPA Method SW8015B | | Extraction SW3510C | | | | | | | Spiked Sample ID: N/A | | | |
|----------------------|--------|--------------------|--------|--------|--------|--------|--------|----------|-------------------------|-----|----------|-----|
| Analyte | 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-Diesel (C10-C23) | N/A | 1000 | N/A | N/A | N/A | 120 | 102 | 15.8 | N/A | N/A | 70 - 130 | 30 |
| %SS: | N/A | 625 | N/A | N/A | N/A | 99 | 88 | 11.7 | N/A | N/A | 70 - 130 | 30 |

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

BATCH 57614 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|-------------------|----------------|-------------------|--------------|------------------|----------------|-------------------|
| 1104402-008B | 07/07/11 11:30 AM | 04/14/11 | 04/15/11 11:42 PM | 1104402-009B | 04/07/11 3:00 PM | 04/14/11 | 04/16/11 12:50 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.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57676

WorkOrder 1104402

| EPA Method SW8021B/8015Bm | | Extraction SW5030B | | | | | | | Spiked Sample ID: 1104412-002A | | | |
|---------------------------|--------|--------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| Analyte | 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 | 84 | 80.2 | 4.67 | 84.1 | 77.5 | 8.15 | 70 - 130 | 20 | 70 - 130 | 20 |
| MTBE | ND | 10 | 104 | 95.3 | 8.60 | 97.3 | 95.3 | 2.09 | 70 - 130 | 20 | 70 - 130 | 20 |
| Benzene | ND | 10 | 92.2 | 90.4 | 1.90 | 95.6 | 96.4 | 0.891 | 70 - 130 | 20 | 70 - 130 | 20 |
| Toluene | ND | 10 | 81.1 | 81.1 | 0 | 84.9 | 84.7 | 0.173 | 70 - 130 | 20 | 70 - 130 | 20 |
| Ethylbenzene | ND | 10 | 83.6 | 81.7 | 2.19 | 86.9 | 86.6 | 0.406 | 70 - 130 | 20 | 70 - 130 | 20 |
| Xylenes | ND | 30 | 94.4 | 93.6 | 0.846 | 98.7 | 98.4 | 0.224 | 70 - 130 | 20 | 70 - 130 | 20 |
| %SS: | 97 | 10 | 106 | 100 | 6.38 | 102 | 107 | 4.07 | 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 57676 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|------------------|----------------|------------------|--------------|-------------------|----------------|------------------|
| 1104402-001A | 04/07/11 | 04/15/11 | 04/15/11 2:26 AM | 1104402-002A | 04/06/11 3:00 PM | 04/15/11 | 04/15/11 2:57 AM |
| 1104402-003A | 04/06/11 4:00 PM | 04/15/11 | 04/15/11 3:28 AM | 1104402-004A | 04/06/11 2:00 PM | 04/15/11 | 04/15/11 3:59 AM |
| 1104402-005A | 07/07/11 | 04/15/11 | 04/15/11 4:30 AM | 1104402-006A | 07/07/11 1:30 PM | 04/15/11 | 04/15/11 5:01 AM |
| 1104402-007A | 07/07/11 3:00 PM | 04/15/11 | 04/15/11 5:32 AM | 1104402-008A | 07/07/11 11:30 AM | 04/15/11 | 04/15/11 6:03 AM |
| 1104402-009A | 04/07/11 3:00 PM | 04/15/11 | 04/15/11 7:05 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.



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Telephone: 877-252-9262 Fax: 925-252-9269

| | | |
|--|---|--------------------------|
| Allterra Environmental 849 Almar Ave, Ste. C #281 Santa Cruz, CA 95060 | Client Project ID: 160; 160 Holmes St., Livermore, CA | Date Sampled: 04/08/11 |
| | | Date Received: 04/08/11 |
| | Client Contact: Joe Mangine | Date Reported: 04/20/11 |
| | Client P.O.: | Date Completed: 04/20/11 |

WorkOrder: 1104270

April 20, 2011

Dear Joe:

Enclosed within are:

- 1) The results of the **5** analyzed samples from your project: **160; 160 Holmes St., Livermore, CA,**
- 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.

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1104270

ClientCode: ATRS

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

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

Email: joe@allterraenv.com; micah@allterraenv.c
cc:
PO:
ProjectNo: 160; 160 Holmes St., 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: 04/08/2011

Date Printed: 04/11/2011

| 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 |
| 1104270-001 | MW-1A | Water | 4/8/2011 | <input type="checkbox"/> | B | K | F | | J | I | A | C | D | I | L | G |
| 1104270-002 | MW-1B | Water | 4/8/2011 | <input type="checkbox"/> | B | K | F | | J | I | A | C | D | I | L | G |
| 1104270-003 | MW-2A | Water | 4/8/2011 | <input type="checkbox"/> | B | K | F | | J | I | A | C | D | I | L | G |
| 1104270-004 | MW-3A | Water | 4/8/2011 | <input type="checkbox"/> | | | | B | | | | | A | | | |
| 1104270-005 | EW-1 | Water | 4/8/2011 | <input type="checkbox"/> | B | K | F | | J | I | A | C | D | I | L | G |

Test Legend:

| | | | | | | | | | |
|----|--------------|----|----------|---|----------------|---|-----------|----|-------------|
| 1 | 218_6_W | 2 | 300_1_W | 3 | 5-OXYS+PBSCV_W | 4 | 5-OXYS_W | 5 | Alka(spe)_W |
| 6 | ALKIMET_W | 7 | DO_W | 8 | FE2_W | 9 | G-MBTEX_W | 10 | METALSMS_W |
| 11 | RSK174_CO2_W | 12 | RSK174_W | | | | | | |

Prepared by: Zoraida Cortez

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.

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1104270

ClientCode: ATRS

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

| | | | |
|-----------------------------------|---|----------------------------|----------------------------------|
| Report to: | | Bill to: | Requested TAT: 5 days |
| Joe Mangine | Email: joe@allterraenv.com; micah@allterraenv.c | Accounts Payable | |
| Allterra Environmental | cc: | Allterra Environmental | <i>Date Received: 04/08/2011</i> |
| 849 Almar Ave, Ste. C #281 | PO: | 849 Almar Ave, Ste. C #281 | <i>Date Printed: 04/11/2011</i> |
| Santa Cruz, CA 95060 | ProjectNo: 160; 160 Holmes St., Livermore, CA | Santa Cruz, CA 95060 | |
| 831-425-2608 FAX: 831-425-2609 | | micah@allterraenv.com | |

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | | |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|----|----|----|----|----|----|----|----|----|----|----|--|
| | | | | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| 1104270-001 | MW-1A | Water | 4/8/2011 | <input type="checkbox"/> | H | E | | | | | | | | | | | |
| 1104270-002 | MW-1B | Water | 4/8/2011 | <input type="checkbox"/> | H | E | | | | | | | | | | | |
| 1104270-003 | MW-2A | Water | 4/8/2011 | <input type="checkbox"/> | H | E | | | | | | | | | | | |
| 1104270-004 | MW-3A | Water | 4/8/2011 | <input type="checkbox"/> | | | | | | | | | | | | | |
| 1104270-005 | EW-1 | Water | 4/8/2011 | <input type="checkbox"/> | H | E | | | | | | | | | | | |

Test Legend:

| | | | | | | | | | |
|----|-------|----|----------|----|--|----|--|----|--|
| 13 | TDS_W | 14 | TPH(D)_W | 15 | | 16 | | 17 | |
| 18 | | 19 | | 20 | | 21 | | 22 | |
| 23 | | 24 | | | | | | | |

Prepared by: Zoraida Cortez

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: **4/8/2011 6:21:03 PM**

Project Name: **160; 160 Holmes St., Livermore, CA**

Checklist completed and reviewed by: **Zoraida Cortez**

WorkOrder N°: **1104270** Matrix Water

Carrier: Derik Cartan (MAI Courier)

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: 5.6°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.

=====

Client contacted:

Date contacted:

Contacted by:

Comments:



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Telephone: 877-252-9262 Fax: 925-252-9269

| | | |
|--|--|--------------------------|
| Allterra Environmental 849 Almar Ave, Ste. C #281 Santa Cruz, CA 95060 | Client Project ID: 160; 160 Holmes St., Livermore, CA | Date Sampled: 04/08/11 |
| | Client Contact: Joe Mangine | Date Received: 04/08/11 |
| | Client P.O.: | Date Extracted: 04/12/11 |
| | | Date Analyzed 04/12/11 |

Inorganic Anions by IC*

Extraction method E300.1

Analytical methods E300.1

Work Order: 1104270

| Lab ID | Client ID | Matrix | Sulfate | DF | % SS | Comments |
|--------------|-----------|--------|---------|-----|------|----------|
| 1104270-001K | MW-1A | W | 73 | 20 | 111 | |
| 1104270-002K | MW-1B | W | 53 | 20 | 113 | |
| 1104270-003K | MW-2A | W | 640 | 200 | 113 | |
| 1104270-005K | EW-1 | W | 61 | 20 | 114 | |
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|--|---|-----|------|
| Reporting Limit for DF =1; ND means not detected at or above the reporting limit | W | 0.1 | mg/L |
| | S | NA | NA |

* water samples are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

* [Nitrate as NO3⁻] = 4.4268 x [Nitrate as N]

means surrogate diluted out of range or surrogate coelutes with another peak; N/A means surrogate not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor



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| | Client Contact: Joe Mangine | Date Received: 04/08/11 |
| | Client P.O.: | Date Extracted: 04/12/11 |
| | | Date Analyzed: 04/12/11 |

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1104270

| | | | | | | |
|-----------|--------------|--|--|--|------------------------------|---|
| Lab ID | 1104270-004B | | | | Reporting Limit for DF =1 | |
| Client ID | MW-3A | | | | | |
| Matrix | W | | | | | |
| DF | 1 | | | | S | W |

| Compound | Concentration | | | | 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: | 96 | | | | |
|-------|----|--|--|--|--|

| | | | | | |
|-----------------|--|--|--|--|--|
| 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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| | Client Contact: Joe Mangine | Date Received: 04/08/11 |
| | Client P.O.: | Date Extracted: 04/12/11 |
| | | Date Analyzed: 04/12/11 |

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1104270

| | | | | | | |
|-----------|--------------|--------------|--------------|--------------|------------------------------|--|
| Lab ID | 1104270-001F | 1104270-002F | 1104270-003F | 1104270-005F | Reporting Limit for DF =1 | |
| Client ID | MW-1A | MW-1B | MW-2A | EW-1 | | |
| Matrix | W | W | W | W | | |
| DF | 250 | 1 | 1 | 100 | | |

| Compound | Concentration | | | | ug/kg | µg/L |
|-------------------------------|---------------|----|-----|-------|-------|------|
| tert-Amyl methyl ether (TAME) | ND<120 | ND | ND | ND<50 | NA | 0.5 |
| t-Butyl alcohol (TBA) | 24,000 | ND | 15 | 8200 | NA | 2.0 |
| 1,2-Dibromoethane (EDB) | ND<120 | ND | ND | ND<50 | NA | 0.5 |
| 1,2-Dichloroethane (1,2-DCA) | ND<120 | ND | ND | ND<50 | NA | 0.5 |
| Diisopropyl ether (DIPE) | ND<120 | ND | ND | ND<50 | NA | 0.5 |
| Ethyl tert-butyl ether (ETBE) | ND<120 | ND | ND | ND<50 | NA | 0.5 |
| Methyl-t-butyl ether (MTBE) | 2300 | ND | 3.3 | 3300 | NA | 0.5 |

Surrogate Recoveries (%)

| | | | | |
|-------|----|----|----|----|
| %SS1: | 95 | 94 | 94 | 98 |
|-------|----|----|----|----|

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.



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|--|--|--------------------------|
| Allterra Environmental 849 Almar Ave, Ste. C #281 Santa Cruz, CA 95060 | Client Project ID: 160; 160 Holmes St., Livermore, CA | Date Sampled: 04/08/11 |
| | Client Contact: Joe Mangine | Date Received: 04/08/11 |
| | Client P.O.: | Date Analyzed: 04/11/11 |
| | | Date Extracted: 04/08/11 |

Alkali Metals by ICP*

Extraction method: E200.7

Analytical methods: E200.7

Work Order: 1104270

| Lab ID | Client ID | Matrix | Extraction Type | Iron | Manganese | Sodium | DF | % SS | Comments |
|--------|-----------|--------|-----------------|------|-----------|--------|----|------|----------|
| 0011 | MW-1A | W | TOTAL | 5000 | 4000 | 45,000 | 1 | 100 | |
| 0021 | MW-1B | W | TOTAL | 1400 | 42 | 43,000 | 1 | 93 | |
| 0031 | MW-2A | W | TOTAL | 2300 | 14,000 | 49,000 | 1 | 101 | |
| 0051 | EW-1 | W | TOTAL | 2700 | 3300 | 46,000 | 1 | 102 | |
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|--|---|-------|----|----|-----|------|
| Reporting Limit for DF =1; ND means not detected at or above the reporting limit | W | TOTAL | 50 | 20 | 500 | µg/L |
| | S | TOTAL | NA | NA | NA | NA |

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

means surrogate recovery outside of acceptance range due to matrix interference; & means low or no surrogate due to matrix interference; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

TOTAL = Hot acid digestion of a representative sample aliquot.
TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.
DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.



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| | Client Contact: Joe Mangine | Date Received: 04/08/11 |
| | Client P.O.: | Date Extracted: 04/08/11 |
| | | Date Analyzed: 04/08/11 |

Dissolved Oxygen

Analytical Method: SM4500OG

Work Order: 1104270

| Lab ID | Client ID | Matrix | Dissolved Oxygen | DF | Comments |
|--------------|-----------|--------|------------------|----|----------|
| 1104270-001A | MW-1A | W | 1.19 @ 19.7 °C | 1 | |
| 1104270-002A | MW-1B | W | 7.42 @ 19.8 °C | 1 | |
| 1104270-003A | MW-2A | W | 1.62 @ 17.8 °C | 1 | |
| 1104270-005A | EW-1 | W | 1.58 @ 19.0 °C | 1 | |
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| Reporting Limit for DF = 1; ND means not detected at or above the reporting limit | W | 1.0 mg DO/L @ °C |
| | S | NA |

DF = Dilution Factor



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| | Client Contact: Joe Mangine | Date Received: 04/08/11 |
| | Client P.O.: | Date Extracted: 04/08/11 |
| | | Date Analyzed: 04/08/11 |

Ferrous Iron*

Analytical Method: SM3500-Fe B4c

Work Order: 1104270

| Lab ID | Client ID | Matrix | Ferrous Iron | DF | Comments |
|--------------|-----------|--------|--------------|----|----------|
| 1104270-001C | MW-1A | W | 1300 | 1 | |
| 1104270-002C | MW-1B | W | ND | 1 | |
| 1104270-003C | MW-2A | W | 430 | 1 | |
| 1104270-005C | EW-1 | W | 62 | 1 | |
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| Reporting Limit for DF = 1; ND means not detected at or above the reporting limit | W | 50 µg/L | |
| | S | NA | |

*water samples are reported in ug/L; soil samples are reported in mg/kg.

DF = Dilution Factor



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| | | |
|--|--|-----------------------------------|
| Allterra Environmental 849 Almar Ave, Ste. C #281 Santa Cruz, CA 95060 | Client Project ID: 160; 160 Holmes St., Livermore, CA | Date Sampled: 04/08/11 |
| | Client Contact: Joe Mangine | Date Received: 04/08/11 |
| | Client P.O.: | Date Extracted: 04/12/11-04/13/11 |
| | | Date Analyzed: 04/12/11-04/13/11 |

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1104270

| Lab ID | Client ID | Matrix | TPH(g) | MTBE | Benzene | Toluene | Ethylbenzene | Xylenes | DF | % SS | Comments |
|--------|-----------|--------|--------|------|---------|---------|--------------|---------|----|------|----------|
| 001D | MW-1A | W | 200 | 1300 | 2.0 | 1.9 | ND | 4.4 | 1 | 102 | d1 |
| 002D | MW-1B | W | ND | ND | ND | ND | ND | ND | 1 | 109 | |
| 003D | MW-2A | W | ND | ND | ND | 0.77 | ND | 6.2 | 1 | 101 | |
| 004A | MW-3A | W | ND | ND | ND | ND | ND | ND | 1 | 107 | |
| 005D | EW-1 | W | 410 | 2400 | 11 | 4.2 | 3.1 | 43 | 1 | 118 | d1 |
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|--|---|-----|------|-------|-------|-------|-------|-------|-------|
| 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:

d1) weakly modified or unmodified gasoline is significant



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| | Client Contact: Joe Mangine | Date Received: 04/08/11 |
| | Client P.O.: | Date Extracted: 04/08/11 |
| | | Date Analyzed: 04/11/11 |

Metals*

Extraction method: E200.8 Analytical methods: E200.8 Work Order: 1104270

| Lab ID | Client ID | Matrix | Extraction Type | Arsenic | Chromium | DF | % SS | Comments |
|--------|-----------|--------|-----------------|---------|----------|----|------|----------|
| 001I | MW-1A | W | TOTAL | 6.1 | 11 | 1 | 105 | |
| 002I | MW-1B | W | TOTAL | 0.56 | 5.8 | 1 | 102 | |
| 003I | MW-2A | W | TOTAL | 1.8 | 5.3 | 1 | 103 | |
| 005I | EW-1 | W | TOTAL | 2.6 | 5.8 | 1 | 102 | |
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|---|---|-------|-----|-----|------|
| Reporting Limit for DF =1; ND means not detected at or above the reporting limit | W | TOTAL | 0.5 | 0.5 | µg/L |
| | S | TOTAL | NA | NA | NA |

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

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.
 TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.
 DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

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



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| | Client Contact: Joe Mangine | Date Received: 04/08/11 |
| | Client P.O.: | Date Extracted: 04/11/11 |
| | | Date Analyzed 04/11/11 |

Light Gas Hydrocarbons*

Extraction method RSK 174/175

Analytical methods RSK174/175

Work Order: 1104270

| Lab ID | Client ID | Matrix | Methane | DF | % SS | Comments |
|--------|-----------|--------|---------|----|------|----------|
| 001G | MW-1A | W | 13 | 1 | N/A | |
| 002G | MW-1B | W | ND | 1 | N/A | |
| 003G | MW-2A | W | ND | 1 | N/A | |
| 005G | EW-1 | W | 32 | 1 | N/A | |
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| Reporting Limit for DF =1; ND means not detected at or above the reporting limit | W | 0.4 | µg/L |
| | S | NA | NA |

* water samples are reported in µg/L.

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



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| | Client Contact: Joe Mangine | Date Received: 04/08/11 |
| | Client P.O.: | Date Extracted: 04/13/11 |
| | | Date Analyzed: 04/14/11 |

Total Dissolved Solids*

Analytical Method: SM2540C

Work Order: 1104270

| Lab ID | Client ID | Matrix | Total Dissolved Solids | DF | Comments |
|--------------|-----------|--------|------------------------|----|----------|
| 1104270-001H | MW-1A | W | 634 | 1 | |
| 1104270-002H | MW-1B | W | 361 | 1 | |
| 1104270-003H | MW-2A | W | 1250 | 1 | |
| 1104270-005H | EW-1 | W | 559 | 1 | |
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|---|---|---------|--|
| Reporting Limit for DF = 1; ND means not detected at or above the reporting limit | W | 10 mg/L | |
| | S | NA | |

* water samples reported in mg/L.

DF = Dilution Factor



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57469

WorkOrder 1104270

| EPA Method SW8015B | | Extraction SW3510C | | | | | | | Spiked Sample ID: N/A | | | |
|----------------------|--------|--------------------|--------|--------|--------|--------|--------|----------|-------------------------|-----|----------|-----|
| Analyte | 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-Diesel (C10-C23) | N/A | 1000 | N/A | N/A | N/A | 110 | 111 | 0.405 | N/A | N/A | 70 - 130 | 30 |
| %SS: | N/A | 625 | N/A | N/A | N/A | 95 | 94 | 0.661 | N/A | N/A | 70 - 130 | 30 |

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

BATCH 57469 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|------------------|--------------|--------------|----------------|------------------|
| 1104270-001E | 04/08/11 | 04/08/11 | 04/10/11 9:32 PM | 1104270-002E | 04/08/11 | 04/08/11 | 04/10/11 5:56 PM |
| 1104270-003E | 04/08/11 | 04/08/11 | 04/10/11 7:08 PM | 1104270-005E | 04/08/11 | 04/08/11 | 04/10/11 8:20 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.

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.



QC SUMMARY REPORT FOR E218.6

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57477

WorkOrder 1104270

| EPA Method E218.6 | | Extraction E218.6 | | | | | | | Spiked Sample ID: 1104106-002a | | | |
|-------------------|--------|-------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| Analyte | 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 |
| Hexachrome | 81 | 25 | 109 | 106 | 0.555 | 97.5 | 97.8 | 0.369 | 90 - 110 | 10 | 90 - 110 | 10 |

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

BATCH 57477 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|------------------|--------------|--------------|----------------|------------------|
| 1104270-001B | 04/08/11 | 04/09/11 | 04/09/11 3:02 AM | 1104270-002B | 04/08/11 | 04/09/11 | 04/09/11 3:21 PM |
| 1104270-003B | 04/08/11 | 04/09/11 | 04/09/11 3:39 AM | 1104270-005B | 04/08/11 | 04/09/11 | 04/09/11 3:57 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.



QC SUMMARY REPORT FOR E200.7

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57548

WorkOrder 1104270

| EPA Method E200.7 | | Extraction E200.7 | | | | | | | Spiked Sample ID: 1104044-007A | | | |
|-------------------|--------|-------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| Analyte | 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 |
| Iron | ND | 1000 | 86.9 | 85.8 | 1.31 | 96.2 | 91.6 | 4.94 | 70 - 130 | 20 | 85 - 115 | 20 |
| Manganese | ND | 1000 | 87.6 | 86.8 | 0.906 | 94.3 | 90.4 | 4.23 | 70 - 130 | 20 | 85 - 115 | 20 |
| Sodium | 56,000 | 10000 | 77.1 | 93.6 | 2.57 | 97.2 | 93.5 | 3.85 | 70 - 130 | 20 | 85 - 115 | 20 |
| %SS: | 95 | 750 | 98 | 94 | 3.94 | 100 | 94 | 6.34 | 70 - 130 | 30 | 70 - 130 | 30 |

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

BATCH 57548 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|-------------------|--------------|--------------|----------------|-------------------|
| 1104270-001I | 04/08/11 | 04/08/11 | 04/11/11 10:52 PM | 1104270-002I | 04/08/11 | 04/08/11 | 04/11/11 10:58 PM |
| 1104270-003I | 04/08/11 | 04/08/11 | 04/11/11 11:03 PM | 1104270-005I | 04/08/11 | 04/08/11 | 04/11/11 11:09 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.

N/A = not applicable to this method.

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.



QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57583

WorkOrder 1104270

| EPA Method E300.1 | | Extraction E300.1 | | | | | | | Spiked Sample ID: N/A | | | |
|-------------------|--------|-------------------|--------|--------|--------|--------|--------|----------|-------------------------|-----|----------|-----|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | LCSD | LCS-LCSD | Acceptance Criteria (%) | | | |
| | mg/L | mg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | MS / MSD | RPD | LCS/LCSD | RPD |
| Sulfate | N/A | 1 | N/A | N/A | N/A | 108 | 106 | 1.82 | N/A | N/A | 85 - 115 | 15 |
| %SS: | N/A | 0.10 | N/A | N/A | N/A | 112 | 106 | 4.80 | N/A | N/A | 90 - 115 | 10 |

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

BATCH 57583 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|------------------|--------------|--------------|----------------|------------------|
| 1104270-001K | 04/08/11 | 04/12/11 | 04/12/11 2:40 AM | 1104270-002K | 04/08/11 | 04/12/11 | 04/12/11 3:25 AM |
| 1104270-003K | 04/08/11 | 04/12/11 | 04/12/11 4:11 AM | 1104270-005K | 04/08/11 | 04/12/11 | 04/12/11 4:56 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 applicable to this method.

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

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.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57552

WorkOrder 1104270

| Analyte | EPA Method SW8021B/8015Bm | | Extraction SW5030B | | | | | | Spiked Sample ID: 1104207-005A | | | |
|------------------------|---------------------------|--------|--------------------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| | 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) ^f | ND | 60 | 112 | 104 | 7.75 | 112 | 109 | 3.24 | 70 - 130 | 20 | 70 - 130 | 20 |
| MTBE | ND | 10 | 95.8 | 96.2 | 0.399 | 89.2 | 85 | 4.75 | 70 - 130 | 20 | 70 - 130 | 20 |
| Benzene | ND | 10 | 96.4 | 95.7 | 0.787 | 93.5 | 89.2 | 4.76 | 70 - 130 | 20 | 70 - 130 | 20 |
| Toluene | ND | 10 | 93.2 | 93.1 | 0.117 | 93.4 | 86.7 | 7.53 | 70 - 130 | 20 | 70 - 130 | 20 |
| Ethylbenzene | ND | 10 | 93 | 92.9 | 0.185 | 93.5 | 87.1 | 7.14 | 70 - 130 | 20 | 70 - 130 | 20 |
| Xylenes | ND | 30 | 93 | 92.7 | 0.315 | 94.1 | 87.4 | 7.30 | 70 - 130 | 20 | 70 - 130 | 20 |
| %SS: | 101 | 10 | 99 | 99 | 0 | 99 | 97 | 1.49 | 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 57552 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|------------------|--------------|--------------|----------------|------------------|
| 1104270-001D | 04/08/11 | 04/12/11 | 04/12/11 8:44 AM | 1104270-001D | 04/08/11 | 04/13/11 | 04/13/11 1:15 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.

£ 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: 57561

WorkOrder 1104270

| EPA Method SW8021B/8015Bm | | Extraction SW5030B | | | | | | | Spiked Sample ID: 1104222-002B | | | |
|---------------------------|--------|--------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| Analyte | 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 | 97.4 | 94 | 3.56 | 106 | 92.1 | 13.8 | 70 - 130 | 20 | 70 - 130 | 20 |
| MTBE | ND | 10 | 106 | 102 | 3.71 | 102 | 101 | 1.11 | 70 - 130 | 20 | 70 - 130 | 20 |
| Benzene | ND | 10 | 104 | 102 | 2.08 | 102 | 104 | 1.61 | 70 - 130 | 20 | 70 - 130 | 20 |
| Toluene | ND | 10 | 92.6 | 89.7 | 3.20 | 90.4 | 91.1 | 0.788 | 70 - 130 | 20 | 70 - 130 | 20 |
| Ethylbenzene | ND | 10 | 94.2 | 91.5 | 2.94 | 92.3 | 92.3 | 0 | 70 - 130 | 20 | 70 - 130 | 20 |
| Xylenes | ND | 30 | 108 | 104 | 4.08 | 106 | 105 | 0.291 | 70 - 130 | 20 | 70 - 130 | 20 |
| %SS: | 105 | 10 | 99 | 102 | 3.43 | 99 | 102 | 3.68 | 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 57561 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|-------------------|--------------|--------------|----------------|-------------------|
| 1104270-002D | 04/08/11 | 04/12/11 | 04/12/11 10:38 PM | 1104270-003D | 04/08/11 | 04/12/11 | 04/12/11 9:47 AM |
| 1104270-004A | 04/08/11 | 04/12/11 | 04/12/11 10:19 AM | 1104270-005D | 04/08/11 | 04/12/11 | 04/12/11 10:51 AM |
| 1104270-005D | 04/08/11 | 04/13/11 | 04/13/11 1:46 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 SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57580

WorkOrder 1104270

| EPA Method SW8260B | | Extraction SW5030B | | | | | | | Spiked Sample ID: 1104253-003A | | | |
|-------------------------------|--------|--------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| Analyte | 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 |
| tert-Amyl methyl ether (TAME) | ND | 10 | 93.6 | 91.8 | 1.89 | 85.5 | 82.1 | 4.07 | 70 - 130 | 30 | 70 - 130 | 30 |
| t-Butyl alcohol (TBA) | ND | 50 | 110 | 107 | 1.92 | 89.5 | 87.7 | 2.04 | 70 - 130 | 30 | 70 - 130 | 30 |
| Diisopropyl ether (DIPE) | ND | 10 | 117 | 116 | 0.638 | 103 | 99.4 | 3.84 | 70 - 130 | 30 | 70 - 130 | 30 |
| Ethyl tert-butyl ether (ETBE) | ND | 10 | 116 | 115 | 0.481 | 96.8 | 94.1 | 2.78 | 70 - 130 | 30 | 70 - 130 | 30 |
| Methyl-t-butyl ether (MTBE) | ND | 10 | 121 | 121 | 0 | 99.8 | 97 | 2.90 | 70 - 130 | 30 | 70 - 130 | 30 |
| %SS1: | 97 | 25 | 96 | 96 | 0 | 97 | 96 | 0.342 | 70 - 130 | 30 | 70 - 130 | 30 |

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

BATCH 57580 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|------------------|--------------|--------------|----------------|------------------|
| 1104270-001F | 04/08/11 | 04/12/11 | 04/12/11 2:12 PM | 1104270-002F | 04/08/11 | 04/12/11 | 04/12/11 1:28 AM |
| 1104270-003F | 04/08/11 | 04/12/11 | 04/12/11 2:08 AM | 1104270-004B | 04/08/11 | 04/12/11 | 04/12/11 2:47 AM |
| 1104270-005F | 04/08/11 | 04/12/11 | 04/12/11 4:11 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.
 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 SM3500 Fe B4c

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57592

WorkOrder 1104270

| EPA Method SM3500-Fe B4c | | Extraction SM3500-Fe B4c | | | | | | | Spiked Sample ID: 1104270-002C | | | |
|--------------------------|--------|--------------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| Analyte | 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 |
| Ferrous Iron | ND | 200 | 101 | 98.5 | 2.60 | 98.5 | 104 | 5.13 | 70 - 130 | 20 | 80 - 120 | 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 57592 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|------------------|--------------|--------------|----------------|------------------|
| 1104270-001C | 04/08/11 | 04/08/11 | 04/08/11 8:31 PM | 1104270-002C | 04/08/11 | 04/08/11 | 04/08/11 8:37 PM |
| 1104270-003C | 04/08/11 | 04/08/11 | 04/08/11 8:43 PM | 1104270-005C | 04/08/11 | 04/08/11 | 04/08/11 8:49 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.

N/A = not applicable to this method.

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.



QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: SM2320B (Alkalinity)

Matrix: W

WorkOrder: 1104270

| Method Name: SM2320B | | Units mg CaCO3/L | | | BatchID: 57517 | |
|----------------------|--------|------------------|-----------------|----|----------------|-------------------------|
| Lab ID | Sample | DF | Dup / Ser. Dil. | DF | % RPD | Acceptance Criteria (%) |
| 1104270-001J | 541 | 1 | 545 | 1 | 0.76 | <20 |
| 1104270-002J | 225 | 1 | 225 | 1 | 0.178 | <20 |
| 1104270-003J | 333 | 1 | 333 | 1 | 0.219 | <20 |
| 1104270-005J | 437 | 1 | 435 | 1 | 0.443 | <20 |

BATCH 57517 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|------------------|--------------|--------------|----------------|------------------|
| 1104270-001J | 04/08/11 | 04/11/11 | 04/11/11 2:23 PM | 1104270-002J | 04/08/11 | 04/11/11 | 04/11/11 2:30 PM |
| 1104270-003J | 04/08/11 | 04/11/11 | 04/11/11 2:36 PM | 1104270-005J | 04/08/11 | 04/11/11 | 04/11/11 2:43 PM |

Test Method: SM4500-O G (Dissolved Oxygen)

Matrix: W

WorkOrder: 1104270

| Method Name: SM4500OG | | Units mg DO/L @ °C | | | BatchID: 57585 | |
|-----------------------|----------------|--------------------|-----------------|----|----------------|---------------------|
| Lab ID | Sample | DF | Dup / Ser. Dil. | DF | Precision | Acceptance Criteria |
| 1104270-001A | 1.19 @ 19.7 °C | 1 | 1.20 @ 19.7 °C | 1 | 0.01 | 0.05 |
| 1104270-002A | 7.42 @ 19.8 °C | 1 | 7.43 @ 19.8 °C | 1 | 0.01 | 0.05 |
| 1104270-003A | 1.62 @ 17.8 °C | 1 | 1.61 @ 17.7 °C | 1 | 0.01 | 0.05 |
| 1104270-005A | 1.58 @ 19.0 °C | 1 | 1.57 @ 19.0 °C | 1 | 0.01 | 0.05 |

BATCH 57585 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|------------------|--------------|--------------|----------------|------------------|
| 1104270-001A | 04/08/11 | 04/08/11 | 04/08/11 9:20 PM | 1104270-002A | 04/08/11 | 04/08/11 | 04/08/11 9:30 PM |
| 1104270-003A | 04/08/11 | 04/08/11 | 04/08/11 9:40 PM | 1104270-005A | 04/08/11 | 04/08/11 | 04/08/11 9:50 PM |

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.



QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57575

WorkOrder 1104270

| EPA Method E200.8 | | Extraction E200.8 | | | | | | | Spiked Sample ID: 1104044-008A | | | |
|-------------------|--------|-------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| Analyte | 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 |
| Arsenic | 2.1 | 10 | 98.4 | 101 | 1.74 | 96.2 | 96.1 | 0.0208 | 70 - 130 | 20 | 85 - 115 | 20 |
| Chromium | ND | 10 | 88.1 | 91.3 | 3.40 | 88.7 | 88.3 | 0.451 | 70 - 130 | 20 | 85 - 115 | 20 |
| %SS: | 100 | 750 | 97 | 100 | 2.70 | 96 | 98 | 2.06 | 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 57575 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|------------------|--------------|--------------|----------------|------------------|
| 1104270-001I | 04/08/11 | 04/08/11 | 04/11/11 6:39 PM | 1104270-002I | 04/08/11 | 04/08/11 | 04/11/11 6:48 PM |
| 1104270-003I | 04/08/11 | 04/08/11 | 04/11/11 6:57 PM | 1104270-005I | 04/08/11 | 04/08/11 | 04/11/11 7:06 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.

N/A = not applicable to this method.

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.



QC SUMMARY REPORT FOR RSK174/175

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57601

WorkOrder 1104270

| EPA Method RSK174/175 | | Extraction RSK 174/175 | | | | | | | Spiked Sample ID: N/A | | | |
|-----------------------|--------|------------------------|--------|--------|--------|--------|--------|----------|-------------------------|-----|----------|-----|
| Analyte | 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 |
| Carbon Dioxide | N/A | 93.6 | N/A | N/A | N/A | 117 | 107 | 8.80 | N/A | N/A | 70 - 130 | 30 |

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

BATCH 57601 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|------------------|--------------|--------------|----------------|------------------|
| 1104270-001L | 04/08/11 | 04/19/11 | 04/19/11 5:44 PM | 1104270-002L | 04/08/11 | 04/19/11 | 04/19/11 5:55 PM |
| 1104270-003L | 04/08/11 | 04/19/11 | 04/19/11 6:06 PM | 1104270-005L | 04/08/11 | 04/19/11 | 04/19/11 6:17 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.

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.



QC SUMMARY REPORT FOR RSK174/175

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57578

WorkOrder 1104270

| EPA Method RSK174/175 | | Extraction RSK 174/175 | | | | | | | Spiked Sample ID: N/A | | | |
|-----------------------|--------|------------------------|--------|--------|--------|--------|--------|----------|-------------------------|-----|----------|-----|
| Analyte | 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 |
| Methane | N/A | 1.17 | N/A | N/A | N/A | 94.8 | 99.9 | 5.26 | N/A | N/A | 80 - 120 | 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 57578 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|------------------|--------------|--------------|----------------|------------------|
| 1104270-001G | 04/08/11 | 04/11/11 | 04/11/11 4:23 PM | 1104270-002G | 04/08/11 | 04/11/11 | 04/11/11 4:34 PM |
| 1104270-003G | 04/08/11 | 04/11/11 | 04/11/11 4:46 PM | 1104270-005G | 04/08/11 | 04/11/11 | 04/11/11 4:58 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.

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.



QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: SM2540C (TDS)

Matrix: W

WorkOrder: 1104270

| Method Name: SM2540C | | Units mg/L | | | BatchID: 57586 | |
|----------------------|--------|------------|-----------------|----|----------------|-------------------------|
| Lab ID | Sample | DF | Dup / Ser. Dil. | DF | % RPD | Acceptance Criteria (%) |
| 1104270-001H | 634 | 1 | 580 | 2 | 8.9 | <20 |
| 1104270-002H | 361 | 1 | 360 | 2 | 0.277 | <20 |
| 1104270-003H | 1250 | 1 | 1190 | 2 | 4.51 | <20 |
| 1104270-005H | 559 | 1 | 570 | 2 | 1.95 | <20 |

BATCH 57586 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|------------------|--------------|--------------|----------------|------------------|
| 1104270-001H | 04/08/11 | 04/13/11 | 04/14/11 1:45 PM | 1104270-002H | 04/08/11 | 04/13/11 | 04/14/11 1:55 PM |
| 1104270-003H | 04/08/11 | 04/13/11 | 04/14/11 1:25 PM | 1104270-005H | 04/08/11 | 04/13/11 | 04/14/11 1:35 PM |

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

$RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]$

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.



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Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

| | | |
|--|---|--------------------------|
| Allterra Environmental 849 Almar Ave, Ste. C #281 Santa Cruz, CA 95060 | Client Project ID: 160; 160 Holmes St., Livermore, CA | Date Sampled: 04/11/11 |
| | | Date Received: 04/11/11 |
| | Client Contact: Joe Mangine | Date Reported: 04/22/11 |
| | Client P.O.: | Date Completed: 04/22/11 |

WorkOrder: 1104311

April 22, 2011

Dear Joe:

Enclosed within are:

- 1) The results of the **4** analyzed samples from your project: **160; 160 Holmes St., Livermore, CA,**
- 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.

1104311



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: 160

Project Location: 160 Holmes St., Livermore, CA

Project Name:

Sampler Signature: *[Signature]*

| Field Point Name / Sample ID | Sample Collection | | Sample Containers | | Matrix | | | | | Preservation | | | | TPHig/ BTEX/ MTBE (EPA 8015/8021) | TPHd (EPA 8015) | 5-fuel oxys (EPA 8260) | Lead Scavengers (8260) | Dissolved Oxygen | Carbon Dioxide | Methane | Total Dissolved Solids | Arsenic, Total Chromium, Total Iron, Manganese, Sodium | Hexachrome | Ferrous Iron | Alkalinity | Sulfate | EDF required | |
|------------------------------|-------------------|------|----------------------|----------------|--------|-------|------|--------|-------|--------------|-----|------------------|-------|-----------------------------------|-----------------|------------------------|------------------------|------------------|----------------|---------|------------------------|--|------------|--------------|------------|---------|--------------|---|
| | Date | Time | Number of Containers | Container Type | Air | Water | Soil | Sludge | Other | Ice | HCl | HNO ₃ | Other | | | | | | | | | | | | | | | |
| MW-7A | 4/11/11 | | 17 | various | X | | | | | X | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| MW-7B | 4/11/11 | | 17 | various | X | | | | | X | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| EW-2 | 4/11/11 | | 17 | various | X | | | | | X | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| EW-3 | 4/11/11 | | 17 | various | X | | | | | X | X | X | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |

ICE/ 2.10
 GOOD CONDITION APPROPRIATE CONTAINERS
 HEAD SPACE ABSENT PRESERVED IN LAB
 DECHLORINATED IN LAB
 PRESERVATION VOAS O&G METALS OTHER

Sampled By: Andrew Westerman

Date: 4/11/11

Time: 1700

Received By: *[Signature]*

Comments:

REC'D SEALED & INTACT VIA D.C. (MAIL Courier)

Received By:

Date:

Time:

Received By:

Received By:

Date:

Time:

Received By:

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1104311

ClientCode: ATRS

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

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

Email: joe@allterraenv.com; micah@allterraenv.c
cc:
PO:
ProjectNo: 160; 160 Holmes St., 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: 04/11/2011
Date Printed: 04/11/2011

| 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 |
| 1104311-001 | MW-1A | Water | 4/11/2011 | <input type="checkbox"/> | | | | | | | A | | | | | |
| 1104311-001 | MW-7A | Water | 4/11/2011 | <input type="checkbox"/> | B | K | F | J | I | | C | D | I | L | G | H |
| 1104311-002 | MW-7B | Water | 4/11/2011 | <input type="checkbox"/> | B | K | F | J | I | A | C | D | I | L | G | H |
| 1104311-003 | EW-2 | Water | 4/11/2011 | <input type="checkbox"/> | B | K | F | J | I | A | C | D | I | L | G | H |
| 1104311-004 | EW-3 | Water | 4/11/2011 | <input type="checkbox"/> | B | K | F | J | I | A | C | D | I | L | G | H |

Test Legend:

| | | | | | | | | | |
|----|----------|----|---------|---|----------------|---|-------------|----|--------------|
| 1 | 218_6_W | 2 | 300_1_W | 3 | 5-OXYS+PBSCV_W | 4 | Alka(spe)_W | 5 | ALKIMET_W |
| 6 | DO_W | 7 | FE2_W | 8 | G-MBTEX_W | 9 | METALSMS_W | 10 | RSK174_CO2_W |
| 11 | RSK174_W | 12 | TDS_W | | | | | | |

Prepared by: Zoraida Cortez

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.

McC Campbell Analytical, Inc.



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1104311

ClientCode: ATRS

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:

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

Email: joe@allterraenv.com; micah@allterraenv.c
cc:
PO:
ProjectNo: 160; 160 Holmes St., 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: 04/11/2011

Date Printed: 04/11/2011

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) | | | | | | | | | | | | |
|-------------|-----------|--------|-----------------|--------------------------|------------------------------------|----|----|----|----|----|----|----|----|----|----|----|--|
| | | | | | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
| 1104311-001 | MW-1A | Water | 4/11/2011 | <input type="checkbox"/> | | | | | | | | | | | | | |
| 1104311-001 | MW-7A | Water | 4/11/2011 | <input type="checkbox"/> | E | | | | | | | | | | | | |
| 1104311-002 | MW-7B | Water | 4/11/2011 | <input type="checkbox"/> | E | | | | | | | | | | | | |
| 1104311-003 | EW-2 | Water | 4/11/2011 | <input type="checkbox"/> | E | | | | | | | | | | | | |
| 1104311-004 | EW-3 | Water | 4/11/2011 | <input type="checkbox"/> | E | | | | | | | | | | | | |

Test Legend:

| | | | | | | | | | |
|----|----------|----|--|----|--|----|--|----|--|
| 13 | TPH(D)_W | 14 | | 15 | | 16 | | 17 | |
| 18 | | 19 | | 20 | | 21 | | 22 | |
| 23 | | 24 | | | | | | | |

Prepared by: Zoraida Cortez

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: **4/11/2011 8:03:41 PM**

Project Name: **160; 160 Holmes St., Livermore, CA**

Checklist completed and reviewed by: **Zoraida Cortez**

WorkOrder N°: **1104311** Matrix Water

Carrier: Derik Cartan (MAI Courier)

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: 2.6°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.

=====

Client contacted:

Date contacted:

Contacted by:

Comments: One sample for total metals had to be preserved in house to a ph of <2.



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Telephone: 877-252-9262 Fax: 925-252-9269

| | | |
|--|--|--------------------------|
| Allterra Environmental 849 Almar Ave, Ste. C #281 Santa Cruz, CA 95060 | Client Project ID: 160; 160 Holmes St., Livermore, CA | Date Sampled: 04/11/11 |
| | Client Contact: Joe Mangine | Date Received: 04/11/11 |
| | Client P.O.: | Date Analyzed: 04/13/11 |
| | | Date Extracted: 04/11/11 |

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

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1104311

| | | | | | | |
|-----------|--------------|--------------|--------------|--------------|------------------------------|--|
| Lab ID | 1104311-001F | 1104311-002F | 1104311-003F | 1104311-004F | Reporting Limit for DF =1 | |
| Client ID | MW-7A | MW-7B | EW-2 | EW-3 | | |
| Matrix | W | W | W | W | | |
| DF | 5 | 33 | 1 | 5000 | | |

| Compound | Concentration | | | | ug/kg | µg/L |
|-------------------------------|---------------|-------|------|---------|-------|------|
| tert-Amyl methyl ether (TAME) | ND<2.5 | ND<17 | ND | ND<2500 | NA | 0.5 |
| t-Butyl alcohol (TBA) | 540 | 2900 | 2.1 | 67,000 | NA | 2.0 |
| 1,2-Dibromoethane (EDB) | ND<2.5 | ND<17 | ND | ND<2500 | NA | 0.5 |
| 1,2-Dichloroethane (1,2-DCA) | ND<2.5 | ND<17 | ND | ND<2500 | NA | 0.5 |
| Diisopropyl ether (DIPE) | ND<2.5 | ND<17 | ND | ND<2500 | NA | 0.5 |
| Ethyl tert-butyl ether (ETBE) | ND<2.5 | ND<17 | ND | ND<2500 | NA | 0.5 |
| Methyl-t-butyl ether (MTBE) | 5.8 | ND<17 | 0.65 | 79,000 | NA | 0.5 |

Surrogate Recoveries (%)

| | | | | | |
|-------|----|----|----|----|--|
| %SS1: | 97 | 95 | 95 | 97 | |
|-------|----|----|----|----|--|

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.



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Telephone: 877-252-9262 Fax: 925-252-9269

| | | |
|--|--|--------------------------|
| Allterra Environmental 849 Almar Ave, Ste. C #281 Santa Cruz, CA 95060 | Client Project ID: 160; 160 Holmes St., Livermore, CA | Date Sampled: 04/11/11 |
| | Client Contact: Joe Mangine | Date Received: 04/11/11 |
| | Client P.O.: | Date Extracted: 04/11/11 |
| | | Date Analyzed: 04/13/11 |

Alkali Metals by ICP*

Extraction method: E200.7

Analytical methods: E200.7

Work Order: 1104311

| Lab ID | Client ID | Matrix | Extraction Type | Iron | Manganese | Sodium | DF | % SS | Comments |
|--------|-----------|--------|-----------------|--------|-----------|--------|----|------|----------|
| 0011 | MW-7A | W | TOTAL | 27,000 | 5100 | 57,000 | 1 | 109 | |
| 0021 | MW-7B | W | TOTAL | 1300 | 3100 | 45,000 | 1 | 110 | |
| 0031 | EW-2 | W | TOTAL | 5900 | 1700 | 47,000 | 1 | 109 | |
| 0041 | EW-3 | W | TOTAL | 12,000 | 4400 | 82,000 | 1 | 117 | |
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|--|---|-------|----|----|-----|------|
| Reporting Limit for DF =1; ND means not detected at or above the reporting limit | W | TOTAL | 50 | 20 | 500 | µg/L |
| | S | TOTAL | NA | NA | NA | NA |

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

means surrogate recovery outside of acceptance range due to matrix interference; & means low or no surrogate due to matrix interference; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

TOTAL = Hot acid digestion of a representative sample aliquot.
TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.
DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.



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Telephone: 877-252-9262 Fax: 925-252-9269

| | | |
|--|--|----------------------------------|
| Allterra Environmental 849 Almar Ave, Ste. C #281 Santa Cruz, CA 95060 | Client Project ID: 160; 160 Holmes St., Livermore, CA | Date Sampled: 04/11/11 |
| | Client Contact: Joe Mangine | Date Received: 04/11/11 |
| | Client P.O.: | Date Analyzed: 04/12/11-04/13/11 |
| | | |

Metals*

Extraction method: E200.8

Analytical methods: E200.8

Work Order: 1104311

| Lab ID | Client ID | Matrix | Extraction Type | Arsenic | Chromium | DF | % SS | Comments |
|--------|-----------|--------|-----------------|---------|----------|----|------|----------|
| 001I | MW-7A | W | TOTAL | 4.9 | 69 | 1 | 102 | |
| 002I | MW-7B | W | TOTAL | 1.5 | 1.9 | 1 | 102 | |
| 003I | EW-2 | W | TOTAL | 2.0 | 18 | 1 | 103 | |
| 004I | EW-3 | W | TOTAL | 23 | 1.9 | 1 | 106 | |
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|---|---|-------|-----|-----|------|
| Reporting Limit for DF =1; ND means not detected at or above the reporting limit | W | TOTAL | 0.5 | 0.5 | µg/L |
| | S | TOTAL | NA | NA | NA |

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

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument.

TOTAL = Hot acid digestion of a representative sample aliquot.
 TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.
 DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

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



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Telephone: 877-252-9262 Fax: 925-252-9269

| | | |
|--|--|--------------------------|
| Allterra Environmental 849 Almar Ave, Ste. C #281 Santa Cruz, CA 95060 | Client Project ID: 160; 160 Holmes St., Livermore, CA | Date Sampled: 04/11/11 |
| | Client Contact: Joe Mangine | Date Received: 04/11/11 |
| | Client P.O.: | Date Extracted: 04/19/11 |
| | | Date Analyzed 04/19/11 |

Carbon Dioxide*

Extraction method RSK 174/175

Analytical methods RSK174/175

Work Order: 1104311

| Lab ID | Client ID | Matrix | Carbon Dioxide | DF | % SS | Comments |
|--------------|-----------|--------|----------------|----|------|----------|
| 1104311-001L | MW-7A | W | 340,000 | 1 | N/A | |
| 1104311-002L | MW-7B | W | 350,000 | 1 | N/A | |
| 1104311-003L | EW-2 | W | 140,000 | 1 | N/A | |
| 1104311-004L | EW-3 | W | 520,000 | 1 | N/A | |
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|--|---|----|------|
| Reporting Limit for DF =1; ND means not detected at or above the reporting limit | W | 40 | µg/L |
| | S | NA | NA |

* water samples are reported in µg/L.
%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

DHS ELAP Certification 1644

 Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR E218.6

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57587

WorkOrder 1104311

| EPA Method E218.6 | | Extraction E218.6 | | | | | | | Spiked Sample ID: 1104254-005a | | | |
|-------------------|--------|-------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| Analyte | 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 |
| Hexachrome | 2.0 | 25 | 103 | 106 | 3.12 | 95 | 95.7 | 0.671 | 90 - 110 | 10 | 90 - 110 | 10 |

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

BATCH 57587 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|-------------------|--------------|--------------|----------------|-------------------|
| 1104311-001B | 04/11/11 | 04/11/11 | 04/11/11 11:26 PM | 1104311-002B | 04/11/11 | 04/11/11 | 04/11/11 11:44 PM |
| 1104311-003B | 04/11/11 | 04/12/11 | 04/12/11 12:02 AM | 1104311-004B | 04/11/11 | 04/12/11 | 04/12/11 12:21 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.



QC SUMMARY REPORT FOR E300.1

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57583

WorkOrder 1104311

| EPA Method E300.1 | | Extraction E300.1 | | | | | | | Spiked Sample ID: N/A | | | |
|-------------------|--------|-------------------|--------|--------|--------|--------|--------|----------|-------------------------|-----|----------|-----|
| Analyte | Sample | Spiked | MS | MSD | MS-MSD | LCS | LCSD | LCS-LCSD | Acceptance Criteria (%) | | | |
| | mg/L | mg/L | % Rec. | % Rec. | % RPD | % Rec. | % Rec. | % RPD | MS / MSD | RPD | LCS/LCSD | RPD |
| Sulfate | N/A | 1 | N/A | N/A | N/A | 108 | 106 | 1.82 | N/A | N/A | 85 - 115 | 15 |
| %SS: | N/A | 0.10 | N/A | N/A | N/A | 112 | 106 | 4.80 | N/A | N/A | 90 - 115 | 10 |

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

BATCH 57583 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|------------------|--------------|--------------|----------------|------------------|
| 1104311-001K | 04/11/11 | 04/12/11 | 04/12/11 6:38 PM | 1104311-002K | 04/11/11 | 04/12/11 | 04/12/11 7:24 PM |
| 1104311-003K | 04/11/11 | 04/12/11 | 04/12/11 8:09 PM | 1104311-004K | 04/11/11 | 04/12/11 | 04/12/11 8:54 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.

N/A = not applicable to this method.

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

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.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57580

WorkOrder 1104311

| EPA Method SW8260B | | Extraction SW5030B | | | | | | | Spiked Sample ID: 1104253-003A | | | |
|-------------------------------|--------|--------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| Analyte | 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 |
| tert-Amyl methyl ether (TAME) | ND | 10 | 93.6 | 91.8 | 1.89 | 85.5 | 82.1 | 4.07 | 70 - 130 | 30 | 70 - 130 | 30 |
| t-Butyl alcohol (TBA) | ND | 50 | 110 | 107 | 1.92 | 89.5 | 87.7 | 2.04 | 70 - 130 | 30 | 70 - 130 | 30 |
| 1,2-Dibromoethane (EDB) | ND | 10 | 106 | 105 | 0.780 | 97.6 | 97 | 0.616 | 70 - 130 | 30 | 70 - 130 | 30 |
| 1,2-Dichloroethane (1,2-DCA) | ND | 10 | 115 | 115 | 0 | 101 | 97.9 | 3.22 | 70 - 130 | 30 | 70 - 130 | 30 |
| Diisopropyl ether (DIPE) | ND | 10 | 117 | 116 | 0.638 | 103 | 99.4 | 3.84 | 70 - 130 | 30 | 70 - 130 | 30 |
| Ethyl tert-butyl ether (ETBE) | ND | 10 | 116 | 115 | 0.481 | 96.8 | 94.1 | 2.78 | 70 - 130 | 30 | 70 - 130 | 30 |
| Methyl-t-butyl ether (MTBE) | ND | 10 | 121 | 121 | 0 | 99.8 | 97 | 2.90 | 70 - 130 | 30 | 70 - 130 | 30 |
| %SS1: | 97 | 25 | 96 | 96 | 0 | 97 | 96 | 0.342 | 70 - 130 | 30 | 70 - 130 | 30 |

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

BATCH 57580 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|-------------------|--------------|--------------|----------------|------------------|
| 1104311-001F | 04/11/11 | 04/13/11 | 04/13/11 4:57 PM | 1104311-002F | 04/11/11 | 04/13/11 | 04/13/11 6:20 PM |
| 1104311-003F | 04/11/11 | 04/13/11 | 04/13/11 11:17 PM | 1104311-004F | 04/11/11 | 04/13/11 | 04/13/11 2:49 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.

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 WET CHEMISTRY TESTS

Test Method: SM2320B (Alkalinity)

Matrix: W

WorkOrder: 1104311

| Method Name: SM2320B | | Units mg CaCO3/L | | | BatchID: 57517 | |
|----------------------|--------|------------------|-----------------|----|----------------|-------------------------|
| Lab ID | Sample | DF | Dup / Ser. Dil. | DF | % RPD | Acceptance Criteria (%) |
| 1104311-001J | 367 | 1 | 368 | 1 | 0.362 | <20 |
| 1104311-002J | 386 | 1 | 386 | 1 | 0.0518 | <20 |
| 1104311-003J | 250 | 1 | 252 | 1 | 0.586 | <20 |
| 1104311-004J | 747 | 1 | 756 | 1 | 1.1 | <20 |

BATCH 57517 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|-------------------|--------------|--------------|----------------|------------------|
| 1104311-001J | 04/11/11 | 04/13/11 | 04/13/11 12:54 PM | 1104311-002J | 04/11/11 | 04/13/11 | 04/13/11 1:03 PM |
| 1104311-003J | 04/11/11 | 04/13/11 | 04/13/11 1:13 PM | 1104311-004J | 04/11/11 | 04/13/11 | 04/13/11 1:26 PM |

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]



QC SUMMARY REPORT FOR E200.7

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57548

WorkOrder 1104311

| EPA Method E200.7 | | Extraction E200.7 | | | | | | | Spiked Sample ID: 1104044-007A | | | |
|-------------------|--------|-------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| Analyte | 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 |
| Iron | ND | 1000 | 86.9 | 85.8 | 1.31 | 96.2 | 91.6 | 4.94 | 70 - 130 | 20 | 85 - 115 | 20 |
| Manganese | ND | 1000 | 87.6 | 86.8 | 0.906 | 94.3 | 90.4 | 4.23 | 70 - 130 | 20 | 85 - 115 | 20 |
| Sodium | 56,000 | 10000 | 77.1 | 93.6 | 2.57 | 97.2 | 93.5 | 3.85 | 70 - 130 | 20 | 85 - 115 | 20 |
| %SS: | 95 | 750 | 98 | 94 | 3.94 | 100 | 94 | 6.34 | 70 - 130 | 30 | 70 - 130 | 30 |

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

BATCH 57548 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|-------------------|--------------|--------------|----------------|-------------------|
| 1104311-001I | 04/11/11 | 04/11/11 | 04/13/11 10:13 PM | 1104311-001I | 04/11/11 | 04/11/11 | 04/13/11 11:16 PM |
| 1104311-002I | 04/11/11 | 04/11/11 | 04/13/11 10:19 PM | 1104311-002I | 04/11/11 | 04/11/11 | 04/13/11 11:21 PM |
| 1104311-003I | 04/11/11 | 04/11/11 | 04/13/11 10:36 PM | 1104311-003I | 04/11/11 | 04/11/11 | 04/13/11 11:27 PM |
| 1104311-004I | 04/11/11 | 04/11/11 | 04/13/11 10:41 PM | 1104311-004I | 04/11/11 | 04/11/11 | 04/13/11 11:44 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.

N/A = not applicable to this method.

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.



QC SUMMARY REPORT FOR WET CHEMISTRY TESTS

Test Method: SM4500-O G (Dissolved Oxygen)

Matrix: W

WorkOrder: 1104311

| Method Name: SM4500OG | | Units mg DO/L @ °C | | | BatchID: 57585 | |
|-----------------------|----------------|--------------------|-----------------|----|----------------|---------------------|
| Lab ID | Sample | DF | Dup / Ser. Dil. | DF | Precision | Acceptance Criteria |
| 1104311-001A | 1.96 @ 9.58 °C | 1 | 1.97 @ 9.47 °C | 1 | 0.01 | 0.05 |
| 1104311-002A | 2.55 @ 7.95 °C | 1 | 2.54 @ 7.91 °C | 1 | 0.01 | 0.05 |
| 1104311-003A | 4.35 @ 7.72 °C | 1 | 4.37 @ 7.68 °C | 1 | 0.02 | 0.05 |
| 1104311-004A | 1.96 @ 8.21 °C | 1 | 1.93 @ 8.20 °C | 1 | 0.03 | 0.05 |

BATCH 57585 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|------------------|--------------|--------------|----------------|------------------|
| 1104311-001A | 04/11/11 | 04/11/11 | 04/11/11 8:30 PM | 1104311-002A | 04/11/11 | 04/11/11 | 04/11/11 8:40 PM |
| 1104311-003A | 04/11/11 | 04/11/11 | 04/11/11 8:50 PM | 1104311-004A | 04/11/11 | 04/11/11 | 04/11/11 9:00 PM |

Test Method: SM2540C (TDS)

Matrix: W

WorkOrder: 1104311

| Method Name: SM2540C | | Units mg/L | | | BatchID: 57586 | |
|----------------------|--------|------------|-----------------|----|----------------|-------------------------|
| Lab ID | Sample | DF | Dup / Ser. Dil. | DF | % RPD | Acceptance Criteria (%) |
| 1104311-001H | 781 | 1 | 816 | 2 | 4.38 | <20 |
| 1104311-002H | 636 | 1 | 736 | 2 | 14.6 | <20 |
| 1104311-003H | 575 | 1 | 616 | 2 | 6.89 | <20 |
| 1104311-004H | 934 | 1 | 1020 | 2 | 8.8 | <20 |

BATCH 57586 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|------------------|--------------|--------------|----------------|------------------|
| 1104311-001H | 04/11/11 | 04/14/11 | 04/15/11 1:15 PM | 1104311-002H | 04/11/11 | 04/14/11 | 04/15/11 1:25 PM |
| 1104311-003H | 04/11/11 | 04/14/11 | 04/15/11 1:35 PM | 1104311-004H | 04/11/11 | 04/14/11 | 04/15/11 1:45 PM |

Dup = Duplicate; Ser. Dil. = Serial Dilution; MS = Matrix Spike; RD = Relative Difference; RPD = Relative Percent Deviation.

Precision = Absolute Value (Sample - Duplicate)

$RPD = 100 * (Sample - Duplicate) / [(Sample + Duplicate) / 2]$

%RPD is calculated using results of up to 10 significant figures, however the reported results are rounded to 2 or 3 significant figures. Therefore there may be a slight discrepancy between the %RPD displayed above and %RPD calculated using the reported results. MAI considers %RPD based upon more significant figures to be more accurate.



QC SUMMARY REPORT FOR SM3500 Fe B4c

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57592

WorkOrder 1104311

| EPA Method SM3500-Fe B4c | | Extraction SM3500-Fe B4c | | | | | | | Spiked Sample ID: 1104270-002C | | | |
|--------------------------|--------|--------------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| Analyte | 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 |
| Ferrous Iron | ND | 200 | 101 | 98.5 | 2.60 | 98.5 | 104 | 5.13 | 70 - 130 | 20 | 80 - 120 | 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 57592 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|------------------|--------------|--------------|----------------|------------------|
| 1104311-001C | 04/11/11 | 04/12/11 | 04/12/11 4:30 PM | 1104311-002C | 04/11/11 | 04/12/11 | 04/12/11 4:36 PM |
| 1104311-003C | 04/11/11 | 04/12/11 | 04/12/11 4:42 PM | 1104311-004C | 04/11/11 | 04/12/11 | 04/12/11 4:48 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.

N/A = not applicable to this method.

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.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57561

WorkOrder 1104311

| EPA Method SW8021B/8015Bm | | Extraction SW5030B | | | | | | | Spiked Sample ID: 1104222-002B | | | |
|---------------------------|--------|--------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| Analyte | 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) ^f | ND | 60 | 97.4 | 94 | 3.56 | 106 | 92.1 | 13.8 | 70 - 130 | 20 | 70 - 130 | 20 |
| MTBE | ND | 10 | 106 | 102 | 3.71 | 102 | 101 | 1.11 | 70 - 130 | 20 | 70 - 130 | 20 |
| Benzene | ND | 10 | 104 | 102 | 2.08 | 102 | 104 | 1.61 | 70 - 130 | 20 | 70 - 130 | 20 |
| Toluene | ND | 10 | 92.6 | 89.7 | 3.20 | 90.4 | 91.1 | 0.788 | 70 - 130 | 20 | 70 - 130 | 20 |
| Ethylbenzene | ND | 10 | 94.2 | 91.5 | 2.94 | 92.3 | 92.3 | 0 | 70 - 130 | 20 | 70 - 130 | 20 |
| Xylenes | ND | 30 | 108 | 104 | 4.08 | 106 | 105 | 0.291 | 70 - 130 | 20 | 70 - 130 | 20 |
| %SS: | 105 | 10 | 99 | 102 | 3.43 | 99 | 102 | 3.68 | 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 57561 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|-------------------|--------------|--------------|----------------|-------------------|
| 1104311-001D | 04/11/11 | 04/13/11 | 04/13/11 6:59 AM | 1104311-002D | 04/11/11 | 04/12/11 | 04/12/11 11:41 PM |
| 1104311-003D | 04/11/11 | 04/13/11 | 04/13/11 12:13 AM | 1104311-004D | 04/11/11 | 04/13/11 | 04/13/11 2:17 AM |
| 1104311-004D | 04/11/11 | 04/14/11 | 04/14/11 12:54 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 E200.8

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57575

WorkOrder 1104311

| EPA Method E200.8 | | Extraction E200.8 | | | | | | | Spiked Sample ID: 1104044-008A | | | |
|-------------------|--------|-------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| Analyte | 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 |
| Arsenic | 2.1 | 10 | 98.4 | 101 | 1.74 | 96.2 | 96.1 | 0.0208 | 70 - 130 | 20 | 85 - 115 | 20 |
| Chromium | ND | 10 | 88.1 | 91.3 | 3.40 | 88.7 | 88.3 | 0.451 | 70 - 130 | 20 | 85 - 115 | 20 |
| %SS: | 100 | 750 | 97 | 100 | 2.70 | 96 | 98 | 2.06 | 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 57575 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|-------------------|--------------|--------------|----------------|-------------------|
| 1104311-001I | 04/11/11 | 04/11/11 | 04/12/11 12:12 PM | 1104311-002I | 04/11/11 | 04/11/11 | 04/12/11 12:19 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.

N/A = not applicable to this method.

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.



QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57615

WorkOrder 1104311

| EPA Method E200.8 | | Extraction E200.8 | | | | | | | Spiked Sample ID: 1104276-003A | | | |
|-------------------|--------|-------------------|--------|--------|--------|--------|--------|----------|--------------------------------|-----|----------|-----|
| Analyte | 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 |
| Arsenic | 2.4 | 10 | 96.8 | 102 | 4.61 | 96.6 | 104 | 7.03 | 70 - 130 | 20 | 85 - 115 | 20 |
| Chromium | ND | 10 | 95.7 | 101 | 5.68 | 102 | 106 | 3.37 | 70 - 130 | 20 | 85 - 115 | 20 |
| %SS: | 102 | 750 | 102 | 102 | 0 | 98 | 99 | 1.14 | 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 57615 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|-------------------|--------------|--------------|----------------|-------------------|
| 1104311-003I | 04/11/11 | 04/11/11 | 04/12/11 12:25 PM | 1104311-004I | 04/11/11 | 04/11/11 | 04/13/11 11:42 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.

N/A = not applicable to this method.

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.



QC SUMMARY REPORT FOR RSK174/175

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57578

WorkOrder 1104311

| EPA Method RSK174/175 | | Extraction RSK 174/175 | | | | | | | Spiked Sample ID: N/A | | | |
|-----------------------|--------|------------------------|--------|--------|--------|--------|--------|----------|-------------------------|-----|----------|-----|
| Analyte | 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 |
| Methane | N/A | 1.17 | N/A | N/A | N/A | 94.8 | 99.9 | 5.26 | N/A | N/A | 80 - 120 | 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 57578 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|-------------------|--------------|--------------|----------------|-------------------|
| 1104311-001G | 04/11/11 | 04/22/11 | 04/22/11 11:19 AM | 1104311-002G | 04/11/11 | 04/22/11 | 04/22/11 11:35 AM |
| 1104311-003G | 04/11/11 | 04/22/11 | 04/22/11 11:49 AM | 1104311-004G | 04/11/11 | 04/22/11 | 04/22/11 12:56 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.

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.



QC SUMMARY REPORT FOR RSK174/175

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57601

WorkOrder 1104311

| EPA Method RSK174/175 | | Extraction RSK 174/175 | | | | | | | Spiked Sample ID: N/A | | | |
|-----------------------|--------|------------------------|--------|--------|--------|--------|--------|----------|-------------------------|-----|----------|-----|
| Analyte | 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 |
| Carbon Dioxide | N/A | 93.6 | N/A | N/A | N/A | 117 | 107 | 8.80 | N/A | N/A | 70 - 130 | 30 |

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

BATCH 57601 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|------------------|--------------|--------------|----------------|------------------|
| 1104311-001L | 04/11/11 | 04/19/11 | 04/19/11 4:18 PM | 1104311-002L | 04/11/11 | 04/19/11 | 04/19/11 4:40 PM |
| 1104311-003L | 04/11/11 | 04/19/11 | 04/19/11 5:02 PM | 1104311-004L | 04/11/11 | 04/19/11 | 04/19/11 5:12 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.

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.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 57614

WorkOrder 1104311

| EPA Method SW8015B | | Extraction SW3510C | | | | | | | Spiked Sample ID: N/A | | | |
|----------------------|--------|--------------------|--------|--------|--------|--------|--------|----------|-------------------------|-----|----------|-----|
| Analyte | 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-Diesel (C10-C23) | N/A | 1000 | N/A | N/A | N/A | 120 | 102 | 15.8 | N/A | N/A | 70 - 130 | 30 |
| %SS: | N/A | 625 | N/A | N/A | N/A | 99 | 88 | 11.7 | N/A | N/A | 70 - 130 | 30 |

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

BATCH 57614 SUMMARY

| Lab ID | Date Sampled | Date Extracted | Date Analyzed | Lab ID | Date Sampled | Date Extracted | Date Analyzed |
|--------------|--------------|----------------|------------------|--------------|--------------|----------------|------------------|
| 1104311-001E | 04/11/11 | 04/11/11 | 04/13/11 6:17 AM | 1104311-002E | 04/11/11 | 04/11/11 | 04/13/11 5:11 AM |
| 1104311-003E | 04/11/11 | 04/11/11 | 04/13/11 2:58 AM | 1104311-004E | 04/11/11 | 04/11/11 | 04/13/11 1:52 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.