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By Alameda County Environmental Health 2:31 pm, Jul 27, 2015

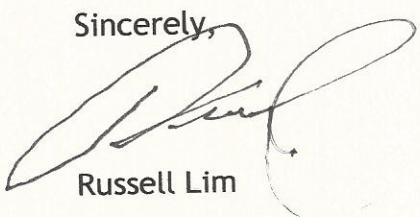
Alameda County Health Care Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502

Re: RO #479, Report [redacted]

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

If you have further questions I may be reached at 925-381-3608.

Sincerely,



Russell Lim



Aqua Science Engineers, Inc. 55 Oak Court, Suite 220, Danville, CA 94526  
(925) 820-9391 - Fax (925) 837-4853 - [www.aquascienceengineers.com](http://www.aquascienceengineers.com)

July 23, 2015

SEMI-ANNUAL GROUNDWATER MONITORING REPORT  
JUNE 2015 GROUNDWATER SAMPLING  
at  
Lim Family Property  
250 8th Street  
Oakland, California

Submitted by:  
AQUA SCIENCE ENGINEERS, INC.  
55 Oak Court, Suite 220  
Danville, CA 94526  
(925) 820-9391



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## 1.0 INTRODUCTION

This report presents the methods and findings of Aqua Science Engineers, Inc. (ASE)'s semi-annual groundwater monitoring event at the Lim Family property located at 250 8th Street in Oakland, California (*Figures 1 and 2*).

## 2.0 GROUNDWATER FLOW DIRECTION AND GRADIENT

On June 23, 2015, ASE measured the depth to water in monitoring wells MW-1, MW-2, MW-3, MW-4R, MW-5, and MW-7 using an electric water level sounder. Monitoring wells MW-6 and MW-8 are no longer sampled. The surface of the groundwater was also checked for the presence of free-floating hydrocarbons or sheen. No free-floating hydrocarbons or sheen were present in any of the monitoring wells. This is the sixth consecutive semi-annual sampling event where neither monitoring well MW-3 nor MW-4R contained free-floating hydrocarbons thicker than a sheen. Groundwater elevation data is presented in Table One.

A groundwater elevation (potentiometric surface) contour map is shown as Figure 2. The groundwater flow direction at the site is generally to the south with southwest and southeast components at an approximate gradient of approximately 0.007 to 0.017-feet/foot during this sampling period. The gradient and flow direction are generally consistent with previous findings.

## 3.0 MONITORING WELL SAMPLING

On June 23, 2015, ASE collected groundwater samples from six monitoring wells for analysis. Prior to sampling, the wells were purged of three well casing volumes of groundwater using disposable polyethylene bailers. The pH, temperature and conductivity of the purge water were monitored during evacuation, and samples were not collected until these parameters stabilized. Samples were collected from each well using disposable polyethylene bailers. The groundwater samples were decanted from the bottom of the bailers using low-flow emptying devices into 40-ml volatile organic analysis (VOA) vials, preserved with hydrochloric acid, sealed without headspace and labeled. All samples were stored on ice for transport to McCampbell Analytical of Pittsburg, California under appropriate chain of custody documentation. Well sampling purge water was contained in a sealed and labeled 55-gallon steel drum for temporary storage until off-site disposal can be arranged. See Appendix A for copies of the well sampling field logs.



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## 4.0 ANALYTICAL RESULTS FOR GROUNDWATER

All groundwater samples were analyzed by McCampbell for total petroleum hydrocarbons as gasoline (TPH-G), benzene, toluene, ethyl benzene, total xylenes (collectively known as BTEX), fuel oxygenates including methyl tertiary butyl ether (MTBE), and lead scavengers by EPA Method 8260B, and total petroleum hydrocarbons as diesel (TPH-D) by modified EPA Method 8015. The analytical results are tabulated in Table Two, and copies of the certified analytical report and chain of custody form are included in Appendix B.

## 5.0 CONCLUSIONS

- Hydrocarbon concentrations in groundwater samples collected from monitoring well MW-1 are very similar to concentrations from the previous sampling event, with a slight increase in TPH-D, and slight decreases in TPH-G, benzene and total xylene concentrations. No toluene, ethyl benzene or oxygenates were detected.
- Hydrocarbon concentrations in groundwater samples collected from monitoring well MW-2 are generally similar to concentrations from the previous sampling event, with increases in TPH-D and total xylenes, and decreases in TPH-G from the previous sampling event. There has been a long term decreasing trend for hydrocarbon concentrations in this well, although the results during the 2014 and 2015 sampling events are higher than those seen during 2012 and 2013.
- No free-floating hydrocarbons were detected in monitoring well MW-3 this period, and TPH-G, toluene and total xylene concentrations in groundwater samples collected from monitoring well MW-3 decreased to historic low concentrations. The TPH-D and benzene concentrations increased from the previous quarter, although they remain lower than the historic trend.
- No free-floating hydrocarbons were detected in monitoring well MW-4R this period. TPH-G concentrations in groundwater samples collected from monitoring well MW-4R remained very similar to the previous sampling, and TPH-D decreased from the previous sampling event and are at historic lows. No BTEX or oxygenates were detected for the second consecutive sampling event.
- No hydrocarbons were detected in groundwater samples collected from monitoring well MW-5 during this sampling period other than 0.53 parts per billion (ppb) DIPE. These results are slightly lower than the previous results, and consistent with occasional detections of relatively low hydrocarbon concentrations in this well.
- There was a decrease in all hydrocarbon concentrations detected in groundwater samples collected from monitoring well MW-7 during this sampling event on the order of one magnitude. There is a long term decreasing trend in hydrocarbon concentrations for samples collected from this well dating back to 2010.



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Concentrations in groundwater samples collected from the following wells exceeded Environmental Screening Levels (ESLs) for drinking water as presented in the "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region dated December 2013:

- Concentrations of TPH-G, TPH-D and benzene in the groundwater sample collected from monitoring well MW-1.
- Concentrations of TPH-G, TPH-D, and benzene, in the groundwater sample collected from monitoring wells MW-2 and MW-3 exceeded ESLs. The toluene, ethyl benzene, total xylenes and TBA concentrations in the groundwater sample collected from MW-3 also exceeded ESLs.
- Concentrations of TPH-G in groundwater samples collected from monitoring well MW-4R exceeded ESLs.
- Concentrations of TPH-G and TPH-D in the groundwater sample collected from monitoring well MW-7 exceeded ESLs.

## 6.0 RECOMMENDATIONS

ASE turned off the remediation system on the date of the sampling per a telephone conversation with Jerry Wickham on April 13, 2015.

ASE recommends modifying the groundwater monitoring frequency to a quarterly sampling schedule to monitor for rebound during non-remediation conditions. Based on a quarterly sampling schedule, the next groundwater monitoring event is scheduled for September 2015.

ASE also recommends conducting a soil vapor survey to obtain data necessary to determine whether case closure might be appropriate using the low-threat closure guidelines.

## 7.0 REPORT LIMITATIONS

The results presented in this report represent conditions at the time of the groundwater sampling, at the specific locations where the samples were collected, and for the specific parameters analyzed by the laboratory. It does not fully characterize the site for contamination resulting from unknown sources, or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of an independent CAL-DHS certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.



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Aqua Science Engineers appreciates the opportunity to assist The Lim Family with their environmental needs. Should you have any questions or comments, please feel free to call us at (925) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

A handwritten signature in black ink that reads "R. E. Kitay".



Robert E. Kitay, P.G.  
Senior Geologist

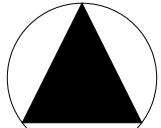
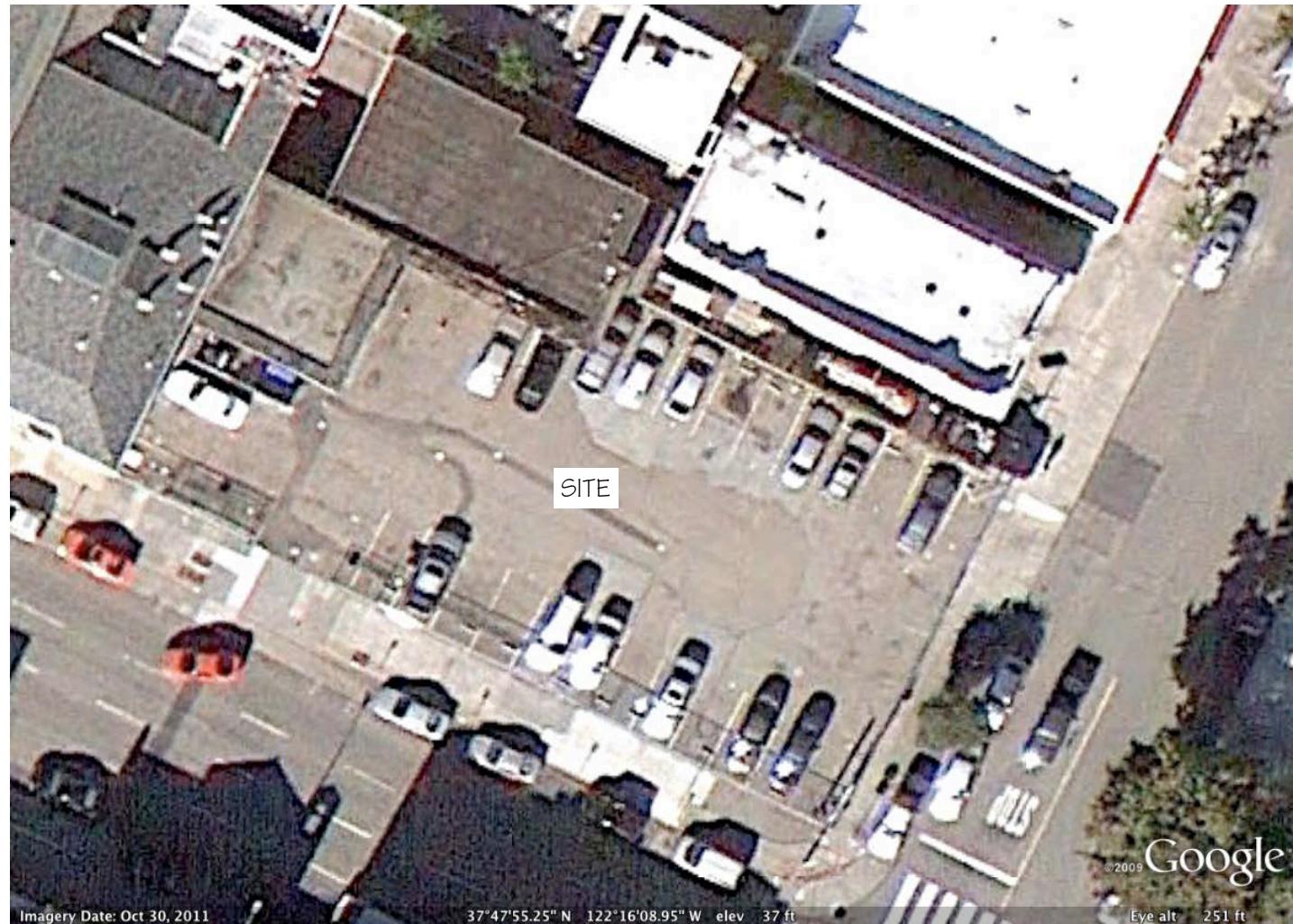
Attachments: Figures 1 and 2  
Tables One, Two, and Three  
Appendices A and B

cc: Mr. Jerry Wickham, ACHCSA



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## **FIGURES**



NORTH

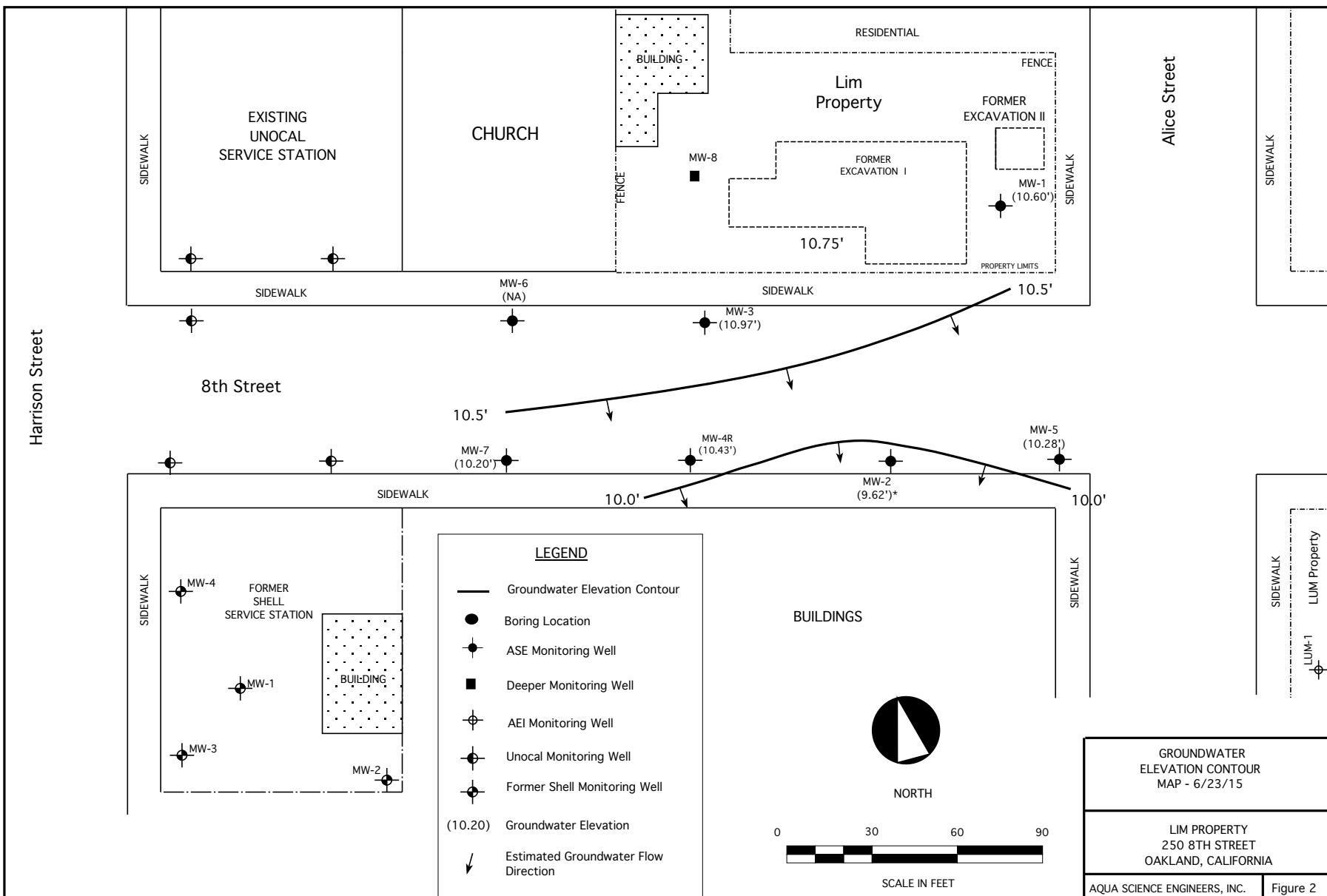
NOT TO SCALE

## SITE LOCATION MAP

Lim Family Property  
250 8th Street  
Oakland, California

Aqua Science Engineers

Figure 1





Aqua Science Engineers, Inc. 55 Oak Court, Suite 220, Danville, CA 94526  
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## TABLES

**TABLE ONE**  
**Groundwater Elevation Data**  
**Lim Family Property**  
**250 8th Street**  
**Oakland, CA**

| Well I.D.   | Date of Measurement | Top of Elevation (msl) | Depth to Water (feet) | Product Thickness (feet) | Groundwater Elevation (msl) |
|-------------|---------------------|------------------------|-----------------------|--------------------------|-----------------------------|
| <b>MW-1</b> | 01/30/95            | 25.51                  | 16.21                 |                          | 9.30                        |
|             | 04/12/95            |                        | 15.71                 |                          | 9.80                        |
|             | 07/14/95            |                        | 16.71                 |                          | 8.80                        |
|             | 10/17/95            |                        | 17.72                 |                          | 7.79                        |
|             | 01/12/96            |                        | 18.03                 |                          | 7.48                        |
|             | 07/25/96            |                        | 16.82                 |                          | 8.69                        |
|             | 01/06/97            |                        | 15.60                 |                          | 9.91                        |
|             | 07/08/97            |                        | 17.31                 |                          | 8.20                        |
|             | 01/26/98            |                        | 15.21                 |                          | 10.30                       |
|             | 07/23/98            |                        | 15.38                 |                          | 10.13                       |
|             | 01/05/99            |                        | 16.82                 |                          | 8.69                        |
|             | 07/13/99            |                        | 15.89                 |                          | 9.62                        |
|             | 01/12/00            |                        | 17.44                 |                          | 8.07                        |
|             | 04/24/00            |                        | 16.37                 |                          | 9.14                        |
|             | 07/20/00            |                        | 16.30                 |                          | 9.21                        |
|             | 10/24/00            |                        | 17.25                 |                          | 8.26                        |
|             | 01/18/01            |                        | 17.29                 |                          | 8.22                        |
|             | 04/05/01            |                        | 15.88                 |                          | 9.63                        |
|             | 07/17/01            |                        | 16.54                 |                          | 8.97                        |
|             | 10/25/01            |                        | 16.89                 |                          | 8.62                        |
|             | 01/21/02            |                        | 14.92                 |                          | 10.59                       |
|             | 04/11/02            |                        | 14.02                 |                          | 11.49                       |
|             | 06/11/02            | 29.72                  | 15.33                 |                          | 14.39                       |
|             | 09/17/02            |                        | 15.96                 |                          | 13.76                       |
|             | 12/18/02            |                        | 16.14                 |                          | 13.58                       |
|             | 03/25/03            |                        | 16.16                 |                          | 13.56                       |
|             | 06/23/03            |                        | 16.01                 |                          | 13.71                       |
|             | 09/26/03            |                        | 16.57                 |                          | 13.15                       |
|             | 12/18/03            |                        | 16.41                 |                          | 13.31                       |
|             | 03/12/04            |                        | 14.64                 |                          | 15.08                       |
|             | 06/17/04            |                        | 15.71                 |                          | 14.01                       |
|             | 09/17/04            |                        | 16.35                 |                          | 13.37                       |
|             | 12/17/04            |                        | 16.10                 |                          | 13.62                       |
|             | 04/28/05            |                        | 14.10                 |                          | 15.62                       |
|             | 07/19/05            |                        | 15.94                 |                          | 13.78                       |
|             | 10/03/05            |                        | 16.34                 |                          | 13.38                       |
|             | 12/06/05            |                        | 16.21                 |                          | 13.51                       |
|             | 03/15/06            |                        | 16.21                 |                          | 13.51                       |
|             | 06/28/06            |                        | 14.92                 |                          | 14.80                       |
|             | 08/31/06            |                        | 15.60                 |                          | 14.12                       |
|             | 11/21/06            |                        | 17.20                 |                          | 12.52                       |
|             | 02/12/07            |                        | 16.12                 |                          | 13.60                       |
|             | 05/02/07            |                        | 16.92                 |                          | 12.80                       |
|             | 08/09/07            |                        | 17.58                 |                          | 12.14                       |
|             | 12/06/07            |                        | 18.60                 |                          | 11.12                       |
|             | 02/26/08            |                        | 17.13                 |                          | 12.59                       |
|             | 05/30/08            |                        | 18.17                 |                          | 11.55                       |
|             | 08/28/08            |                        | 18.47                 |                          | 11.25                       |
|             | 12/11/08            |                        | 19.19                 |                          | 10.53                       |
|             | 03/31/09            |                        | 17.59                 |                          | 12.13                       |
|             | 12/31/09            |                        | 18.57                 |                          | 11.15                       |
|             | 06/03/10            |                        | 16.94                 |                          | 12.78                       |
|             | 12/20/10            |                        | 18.21                 |                          | 11.51                       |
|             | 06/30/11            |                        | 17.43                 |                          | 12.29                       |
|             | 06/22/12            |                        | 17.08                 |                          | 12.64                       |
|             | 12/13/12            |                        | 17.32                 |                          | 12.40                       |
|             | 06/18/13            |                        | 18.13                 |                          | 11.59                       |
|             | 12/23/13            |                        | 18.29                 |                          | 11.43                       |
|             | 06/30/14            |                        | 18.95                 |                          | 10.77                       |
|             | 12/17/14            |                        | 18.39                 |                          | 11.33                       |
|             | <b>06/23/15</b>     |                        | <b>19.12</b>          |                          | <b>10.60</b>                |

**TABLE ONE**  
 Groundwater Elevation Data  
 Lim Family Property  
 250 8th Street  
 Oakland, CA

| Well I.D.   | Date of Measurement | Top of Elevation (msl) | Depth to Water (feet) | Product Thickness (feet) | Groundwater Elevation (msl) |
|-------------|---------------------|------------------------|-----------------------|--------------------------|-----------------------------|
| <b>MW-2</b> | 01/30/95            | 23.99                  | 15.02                 |                          | 8.97                        |
|             | 04/12/95            |                        | 14.75                 |                          | 9.24                        |
|             | 07/14/95            |                        | 16.02                 |                          | 7.97                        |
|             | 10/17/95            |                        | 16.94                 |                          | 7.05                        |
|             | 01/12/96            |                        | 17.05                 |                          | 6.94                        |
|             | 07/25/96            |                        | 16.02                 |                          | 7.97                        |
|             | 01/06/97            |                        | 14.34                 |                          | 9.65                        |
|             | 07/08/97            |                        | 16.52                 |                          | 7.47                        |
|             | 01/26/98            |                        | 14.10                 |                          | 9.89                        |
|             | 07/23/98            |                        | 14.70                 |                          | 9.29                        |
|             | 01/05/99            |                        | 16.01                 |                          | 7.98                        |
|             | 07/13/99            |                        | 15.40                 |                          | 8.59                        |
|             | 01/12/00            |                        | 16.76                 |                          | 7.23                        |
|             | 04/24/00            |                        | 15.67                 |                          | 8.32                        |
|             | 07/20/00            |                        | 15.70                 |                          | 8.29                        |
|             | 10/24/00            |                        | 16.56                 |                          | 7.43                        |
|             | 01/18/01            |                        | 16.47                 |                          | 7.52                        |
|             | 04/05/01            |                        | 15.88                 |                          | 8.11                        |
|             | 07/17/01            |                        | 15.35                 |                          | 8.64                        |
|             | 10/25/01            |                        | 15.63                 |                          | 8.36                        |
|             | 01/21/02            |                        | 13.55                 |                          | 10.44                       |
|             | 04/11/02            |                        | 13.74                 |                          | 10.25                       |
|             | 06/11/02            | 28.19                  | 14.06                 |                          | 14.13                       |
|             | 09/17/02            |                        | 14.67                 |                          | 13.52                       |
|             | 12/18/02            |                        | 14.88                 |                          | 13.31                       |
|             | 03/25/03            |                        | 15.11                 |                          | 13.08                       |
|             | 06/23/03            |                        | 14.94                 |                          | 13.25                       |
|             | 09/26/03            |                        | 15.49                 |                          | 12.70                       |
|             | 12/18/03            |                        | 15.13                 |                          | 13.06                       |
|             | 03/12/04            |                        | 13.50                 |                          | 14.69                       |
|             | 06/17/04            |                        | 14.63                 |                          | 13.56                       |
|             | 09/17/04            |                        | 15.19                 |                          | 13.00                       |
|             | 12/17/04            |                        | 14.88                 |                          | 13.31                       |
|             | 04/28/05            |                        | 13.39                 |                          | 14.80                       |
|             | 07/19/05            |                        | 15.27                 |                          | 12.92                       |
|             | 10/03/05            |                        | 15.57                 |                          | 12.62                       |
|             | 12/06/05            |                        | 15.35                 |                          | 12.84                       |
|             | 03/15/06            |                        | 12.65                 |                          | 15.54                       |
|             | 06/28/06            |                        | 14.45                 |                          | 13.74                       |
|             | 08/31/06            |                        | 15.37                 |                          | 12.82                       |
|             | 11/21/06            |                        | 16.22                 |                          | 11.97                       |
|             | 02/12/07            |                        | 16.12                 |                          | 12.07                       |
|             | 05/02/07            |                        | 16.12                 |                          | 12.07                       |
|             | 08/09/07            |                        | 16.85                 |                          | 11.34                       |
|             | 12/06/07            |                        | 17.95                 |                          | 10.24                       |
|             | 02/26/08            |                        | 16.15                 |                          | 12.04                       |
|             | 05/30/08            |                        | 17.33                 |                          | 10.86                       |
|             | 08/28/08            |                        | 17.53                 |                          | 10.66                       |
|             | 12/11/08            |                        | 18.28                 |                          | 9.91                        |
|             | 03/31/09            |                        | 16.63                 |                          | 11.56                       |
|             | 12/31/09            |                        | 17.46                 |                          | 10.73                       |
|             | 06/03/10            |                        | 16.00                 |                          | 12.19                       |
|             | 12/20/10            |                        | 17.25                 |                          | 10.94                       |
|             | 06/30/11            |                        | 16.55                 |                          | 11.64                       |
|             | 06/22/12            |                        | 16.36                 |                          | 11.83                       |
|             | 12/13/12            |                        | 16.24                 |                          | 11.95                       |
|             | 06/18/13            |                        | 17.28                 |                          | 10.91                       |
|             | 12/23/13            |                        | 18.60                 |                          | 9.59                        |
|             | 06/30/14            |                        | 17.16                 |                          | 11.03                       |
|             | 12/17/14            |                        | 17.39                 |                          | 10.80                       |
|             | <b>06/23/15</b>     |                        | <b>18.57</b>          |                          | <b>9.62</b>                 |

**TABLE ONE**  
**Groundwater Elevation Data**  
**Lim Family Property**  
**250 8th Street**  
**Oakland, CA**

| Well I.D.   | Date of Measurement | Top of Elevation (msl)           | Depth to Water (feet) | Product Thickness (feet) | Groundwater Elevation (msl) |
|-------------|---------------------|----------------------------------|-----------------------|--------------------------|-----------------------------|
| <b>MW-3</b> | 01/12/00            | 24.25                            | 16.68                 | 0.01                     | 7.58*                       |
|             | 04/24/00            |                                  | 15.58                 | 0.15                     | 8.79*                       |
|             | 07/20/00            |                                  | 16.01                 | 0.41                     | 8.57*                       |
|             | 10/24/00            |                                  | 16.95                 | 0.21                     | 7.47*                       |
|             | 01/18/01            |                                  | 16.63                 | 0.21                     | 7.79*                       |
|             | 04/05/01            |                                  | 15.16                 | 0.23                     | 9.27*                       |
|             | 07/17/01            |                                  | 15.92                 | 0.39                     | 8.64*                       |
|             | 10/25/01            |                                  | 16.26                 | 0.38                     | 8.29*                       |
|             | 01/21/02            |                                  | 14.08                 | 0.16                     | 10.30*                      |
|             | 04/11/02            |                                  | 14.59                 | 0.54                     | 10.09*                      |
|             | 06/11/02            | 28.58                            | 15.16                 | 0.90                     | 14.14*                      |
|             | 09/17/02            |                                  | 16.04                 | 1.24                     | 13.53*                      |
|             | 10/01/02            |                                  | 16.14                 | 1.23                     | 13.42*                      |
|             | 10/25/02            |                                  | 15.80                 | 0.60                     | 13.26*                      |
|             | 11/12/02            |                                  | 15.87                 | 0.47                     | 13.09*                      |
|             | 12/18/02            |                                  | 15.42                 | 0.47                     | 13.54*                      |
|             | 03/25/03            |                                  | 16.11                 | 1.14                     | 13.38*                      |
|             | 06/23/03            |                                  | 16.58                 | 1.86                     | 13.49*                      |
|             | 09/26/03            |                                  | 16.11                 | 0.66                     | 13.00*                      |
|             | 12/18/03            |                                  | 15.83                 | 0.59                     | 13.22*                      |
|             | 03/12/04            |                                  | 14.51                 | 1.21                     | 15.04*                      |
|             | 06/17/04            |                                  | 15.25                 | 0.68                     | 13.87*                      |
|             | 09/17/04            |                                  | 16.14                 | 0.96                     | 13.21*                      |
|             | 12/17/04            |                                  | 15.05                 | 0.25                     | 13.73*                      |
|             | 01/13/05            |                                  | 13.40                 | 0.45                     | 15.54*                      |
|             | 04/28/05            |                                  | 15.31                 | 2.43                     | 15.21*                      |
|             | 07/19/05            |                                  | 16.29                 | 1.67                     | 13.63*                      |
|             | 10/03/05            |                                  | 16.10                 | 1.47                     | 13.66*                      |
|             | 12/06/05            |                                  | 15.04                 | 1.17                     | 14.48*                      |
|             | 03/15/06            |                                  | 12.65                 | 2.41                     | 15.49*                      |
|             | 06/28/06            |                                  | 13.55                 | 2.61                     | 16.16*                      |
|             | 08/31/06            |                                  | 14.85                 | 2.20                     | 15.49*                      |
|             | 11/21/06            |                                  | 16.05                 | 1.10                     | 13.41*                      |
|             | 02/12/07            |                                  | 15.96                 | 0.35                     | 12.90*                      |
|             | 05/02/07            |                                  | 15.11                 | 0.09                     | 13.54*                      |
|             | 08/09/07            |                                  | 15.83                 | 0.09                     | 12.82*                      |
|             | 12/06/07            |                                  | 18.10                 | 0.50                     | 10.88*                      |
|             | 02/26/08            |                                  | 16.47                 | 0.22                     | 12.29*                      |
|             | 05/30/08            |                                  | 17.90                 | 0.70                     | 11.24*                      |
|             | 08/28/08            |                                  | 18.05                 | 0.54                     | 10.96*                      |
|             | 12/11/08            |                                  | 18.57                 | 0.46                     | 10.38*                      |
|             | 03/31/09            |                                  | 16.89                 | 0.23                     | 11.87*                      |
|             | 12/31/09            |                                  | 17.64                 | sheen                    | 10.94*                      |
|             | 06/03/10            |                                  | 16.58                 | 0.56                     | 12.45*                      |
|             | 12/20/10            |                                  | 17.20                 | 0.45                     | 11.74*                      |
|             | 06/30/11            |                                  | 15.92                 |                          | 12.66                       |
|             | 06/22/12            |                                  | 16.64                 | 0.69                     | 12.48*                      |
|             | 12/13/12            |                                  | 16.24                 | None                     | 12.34                       |
|             | 06/18/13            |                                  | 17.01                 |                          | 11.57                       |
|             | 12/23/13            |                                  | 18.29                 |                          | 10.29                       |
|             | 06/30/14            | NOT MEASURED - PROBE MALFUNCTION |                       |                          |                             |
|             | 12/17/14            |                                  | 16.91                 |                          | 11.67                       |
|             | 06/23/15            |                                  | 17.61                 |                          | 10.97                       |

**TABLE ONE**  
 Groundwater Elevation Data  
 Lim Family Property  
 250 8th Street  
 Oakland, CA

| Well I.D.    | Date of Measurement | Top of Elevation (msl) | Depth to Water (feet) | Product Thickness (feet) | Groundwater Elevation (msl) |
|--------------|---------------------|------------------------|-----------------------|--------------------------|-----------------------------|
| <b>MW-4</b>  | 01/12/00            | 23.71                  | 17.24                 |                          | 6.47                        |
|              | 04/24/00            |                        | 16.18                 |                          | 7.53                        |
|              | 07/20/00            |                        | 16.18                 |                          | 7.53                        |
|              | 10/24/00            |                        | 17.03                 |                          | 6.68                        |
|              | 01/18/01            |                        | 16.87                 |                          | 6.84                        |
|              | 04/05/01            |                        | 15.28                 |                          | 8.43                        |
|              | 07/17/01            |                        | 15.92                 |                          | 7.79                        |
|              | 10/25/01            |                        | 16.23                 |                          | 7.48                        |
|              | 01/21/01            |                        | 14.14                 |                          | 9.57                        |
|              | 04/11/02            |                        | 14.43                 |                          | 9.28                        |
|              | 06/11/02            | 28.61                  | 14.72                 |                          | 13.89                       |
|              | 09/17/02            |                        | 15.29                 |                          | 13.32                       |
|              | 12/18/02            |                        | 15.20                 |                          | 13.41                       |
|              | 03/25/03            |                        | 15.53                 |                          | 13.08                       |
|              | 06/23/03            |                        | 15.35                 |                          | 13.26                       |
|              | 09/26/03            |                        | 15.91                 |                          | 12.70                       |
|              | 12/18/03            |                        | 15.63                 |                          | 12.98                       |
|              | 03/12/04            |                        | 13.88                 |                          | 14.73                       |
|              | 06/17/04            |                        | 15.03                 |                          | 13.58                       |
|              | 09/17/04            |                        | 15.61                 |                          | 13.00                       |
|              | 12/17/04            |                        | 15.32                 |                          | 13.29                       |
|              | 04/28/05            |                        | 13.82                 |                          | 14.79                       |
|              | 07/19/05            |                        | 15.44                 |                          | 13.17                       |
|              | 10/03/05            |                        | 15.91                 |                          | 12.70                       |
|              | 12/06/05            |                        | 15.71                 |                          | 12.90                       |
|              | 03/15/06            |                        | 13.05                 |                          | 15.56                       |
|              | 06/28/06            |                        | 14.49                 |                          | 14.12                       |
|              | 08/31/06            |                        | 15.75                 |                          | 12.86                       |
|              | 11/21/06            |                        | 16.70                 |                          | 11.91                       |
|              | 02/12/07            |                        | 16.51                 |                          | 12.10                       |
|              | 05/02/07            |                        | 16.51                 |                          | 12.10                       |
|              | 08/09/07            |                        | 17.17                 |                          | 11.44                       |
|              | 12/06/07            |                        | 18.08                 |                          | 10.53                       |
|              | 02/26/08            |                        | 16.57                 |                          | 12.04                       |
|              | 05/30/08            |                        | 17.66                 |                          | 10.95                       |
|              | 08/28/08            |                        | 17.98                 |                          | 10.63                       |
|              | 12/11/08            |                        | 18.61                 |                          | 10.00                       |
|              | 03/31/09            |                        | 18.75                 | 2.00                     | 11.46*                      |
| <b>MW-4R</b> | 12/31/09            | 28.78                  | 19.85                 | 2.30                     | 10.77*                      |
|              | 06/03/10            |                        | 18.67                 | 2.57                     | 12.17*                      |
|              | 12/20/10            |                        | 18.95                 | 2.00                     | 11.43*                      |
|              | 06/30/11            |                        | 16.45                 |                          | 12.33                       |
|              | 06/22/12            |                        | 16.69                 |                          | 12.09                       |
|              | 12/13/12            |                        | 16.61                 |                          | 12.17                       |
|              | 06/18/13            |                        | 17.60                 |                          | 11.18                       |
|              | 12/23/13            |                        | 19.07                 |                          | 9.71                        |
|              | 06/30/14            |                        | 18.77                 |                          | 10.01                       |
|              | 12/17/14            |                        | 17.95                 |                          | 10.83                       |
|              | <b>06/23/15</b>     |                        | <b>18.35</b>          |                          | <b>10.43</b>                |

**TABLE ONE**  
 Groundwater Elevation Data  
 Lim Family Property  
 250 8th Street  
 Oakland, CA

| Well I.D.   | Date of Measurement | Top of Elevation (msl) | Depth to Water (feet) | Product Thickness (feet) | Groundwater Elevation (msl) |
|-------------|---------------------|------------------------|-----------------------|--------------------------|-----------------------------|
| <b>MW-5</b> | 06/11/02            | 28.40                  | 14.23                 |                          | 14.17                       |
|             | 09/17/02            |                        | 14.80                 |                          | 13.60                       |
|             | 12/18/02            |                        | 15.08                 |                          | 13.32                       |
|             | 03/25/03            |                        | 15.31                 |                          | 13.09                       |
|             | 06/23/03            |                        | 15.16                 |                          | 13.24                       |
|             | 09/26/03            |                        | 15.72                 |                          | 12.68                       |
|             | 12/18/03            |                        | 15.47                 |                          | 12.93                       |
|             | 03/12/04            |                        | 13.44                 |                          | 14.96                       |
|             | 06/17/04            |                        | 14.90                 |                          | 13.50                       |
|             | 09/17/04            |                        | 15.45                 |                          | 12.95                       |
|             | 12/17/04            |                        | 15.12                 |                          | 13.28                       |
|             | 04/28/05            |                        | 13.63                 |                          | 14.77                       |
|             | 07/19/05            |                        | 15.67                 |                          | 12.73                       |
|             | 10/03/05            |                        | 15.81                 |                          | 12.59                       |
|             | 12/06/05            |                        | 15.60                 |                          | 12.80                       |
|             | 03/15/06            |                        | 12.81                 |                          | 15.59                       |
|             | 06/28/06            |                        | 15.21                 |                          | 13.19                       |
|             | 08/31/06            |                        | 15.55                 |                          | 12.85                       |
|             | 11/21/06            |                        | 17.09                 |                          | 11.31                       |
|             | 02/12/07            |                        | 16.29                 |                          | 12.11                       |
|             | 05/02/07            |                        | 16.21                 |                          | 12.19                       |
|             | 08/09/07            |                        | 16.97                 |                          | 11.43                       |
|             | 12/06/07            |                        | 18.35                 |                          | 10.05                       |
|             | 02/26/08            |                        | 16.35                 |                          | 12.05                       |
|             | 05/30/08            |                        | 17.62                 |                          | 10.78                       |
|             | 08/28/08            |                        | 17.72                 |                          | 10.68                       |
|             | 12/11/08            |                        | 18.62                 |                          | 9.78                        |
|             | 03/31/09            |                        | 16.94                 |                          | 11.46                       |
|             | 12/31/09            |                        | 17.73                 |                          | 10.67                       |
|             | 06/03/10            |                        | 16.20                 |                          | 12.20                       |
|             | 12/20/10            |                        | 17.72                 |                          | 10.68                       |
|             | 06/30/11            |                        | 16.75                 |                          | 11.65                       |
|             | 06/22/12            |                        | 16.41                 |                          | 11.99                       |
|             | 12/13/12            |                        | 16.46                 |                          | 11.94                       |
|             | 06/18/13            |                        | 17.48                 |                          | 10.92                       |
|             | 12/23/13            |                        | 18.62                 |                          | 9.78                        |
|             | 06/30/14            |                        | 18.11                 |                          | 10.29                       |
|             | 12/17/14            |                        | 17.46                 |                          | 10.94                       |
|             | <b>06/23/15</b>     |                        | <b>18.12</b>          |                          | <b>10.28</b>                |

**TABLE ONE**  
 Groundwater Elevation Data  
 Lim Family Property  
 250 8th Street  
 Oakland, CA

| Well I.D.   | Date of Measurement | Top of Elevation (msl) | Depth to Water (feet)              | Product Thickness (feet) | Groundwater Elevation (msl) |
|-------------|---------------------|------------------------|------------------------------------|--------------------------|-----------------------------|
| <b>MW-6</b> | 06/11/02            | 29.20                  | 14.95                              |                          | 14.25                       |
|             | 09/17/02            |                        | 15.47                              |                          | 13.73                       |
|             | 12/18/02            |                        | 15.43                              |                          | 13.77                       |
|             | 03/25/03            |                        | 15.67                              |                          | 13.53                       |
|             | 06/23/03            |                        | 15.48                              |                          | 13.72                       |
|             | 09/26/03            |                        | NOT MEASURED - SOUNDER MALFUNCTION |                          |                             |
|             | 12/18/03            |                        | 15.79                              |                          | 13.41                       |
|             | 03/12/04            |                        | 14.04                              |                          | 15.16                       |
|             | 06/17/04            |                        | 15.13                              |                          | 14.07                       |
|             | 09/17/04            |                        | 15.74                              |                          | 13.46                       |
|             | 12/17/04            |                        | 15.54                              |                          | 13.66                       |
|             | 04/28/05            |                        | 13.91                              |                          | 15.29                       |
|             | 07/19/05            |                        | 15.30                              |                          | 13.90                       |
|             | 10/03/05            |                        | 15.35                              |                          | 13.85                       |
|             | 12/06/05            |                        | 15.69                              |                          | 13.51                       |
|             | 03/15/06            |                        | 13.14                              |                          | 16.06                       |
|             | 06/28/06            |                        | 14.44                              |                          | 14.76                       |
|             | 08/31/06            |                        | 16.25                              |                          | 12.95                       |
|             | 11/21/06            |                        | 16.69                              |                          | 12.51                       |
|             | 02/12/07            |                        | 16.63                              |                          | 12.57                       |
|             | 05/02/07            |                        | 16.57                              |                          | 12.63                       |
|             | 08/09/07            |                        | 17.19                              |                          | 12.01                       |
|             | 12/06/07            |                        | 17.95                              |                          | 11.25                       |
|             | 02/26/08            |                        | 16.66                              |                          | 12.54                       |
|             | 05/30/08            |                        | 17.64                              |                          | 11.56                       |
|             | 08/28/08            |                        | 18.03                              |                          | 11.17                       |
|             | 12/11/08            |                        | 18.54                              |                          | 10.66                       |
|             | 03/31/09            |                        | 17.10                              |                          | 12.10                       |
|             | 12/31/09            |                        | 18.00                              |                          | 11.20                       |
|             | 06/03/10            |                        | 16.58                              |                          | 12.62                       |
|             | 12/20/10            |                        | 17.40                              |                          | 11.80                       |
|             | 06/30/11            |                        | 17.02                              |                          | 12.18                       |
|             | 06/22/12            |                        | 16.70                              |                          | 12.50                       |
|             | 12/13/12            |                        | 16.77                              |                          | 12.43                       |
|             | 06/18/13            |                        | 17.69                              |                          | 11.51                       |
|             | 12/23/13            |                        | 18.74                              |                          | 10.46                       |
|             | 06/30/14            |                        | No Longer measured                 |                          |                             |

**TABLE ONE**  
**Groundwater Elevation Data**  
**Lim Family Property**  
**250 8th Street**  
**Oakland, CA**

| Well I.D.   | Date of Measurement | Top of Elevation (msl) | Depth to Water (feet)               | Product Thickness (feet) | Groundwater Elevation (msl) |
|-------------|---------------------|------------------------|-------------------------------------|--------------------------|-----------------------------|
| <b>MW-7</b> | 06/11/02            | 28.95                  | 15.19                               |                          | 13.76                       |
|             | 09/17/02            |                        | 15.73                               |                          | 13.22                       |
|             | 12/18/02            |                        | NOT MEASURED - CAR PARKED OVER WELL |                          |                             |
|             | 03/25/03            |                        | 15.96                               |                          | 12.99                       |
|             | 06/23/03            |                        | 15.75                               |                          | 13.20                       |
|             | 09/26/03            |                        | 16.29                               |                          | 12.66                       |
|             | 12/18/03            |                        | 16.03                               |                          | 12.92                       |
|             | 03/12/04            |                        | 14.28                               |                          | 14.67                       |
|             | 06/17/04            |                        | 15.42                               |                          | 13.53                       |
|             | 09/17/04            |                        | 16.02                               |                          | 12.93                       |
|             | 12/17/04            |                        | 15.45                               |                          | 13.50                       |
|             | 04/28/05            |                        | 14.15                               |                          | 14.80                       |
|             | 07/19/05            |                        | 15.30                               |                          | 13.65                       |
|             | 10/03/05            |                        | 16.25                               |                          | 12.70                       |
|             | 12/06/05            |                        | 16.05                               |                          | 12.90                       |
|             | 03/15/06            |                        | 13.36                               |                          | 15.59                       |
|             | 06/28/06            |                        | 14.81                               |                          | 14.14                       |
|             | 08/31/06            |                        | 16.13                               |                          | 12.82                       |
|             | 11/21/06            |                        | 17.06                               |                          | 11.89                       |
|             | 02/12/07            |                        | 16.97                               |                          | 11.98                       |
|             | 05/02/07            |                        | 16.93                               |                          | 12.02                       |
|             | 08/09/07            |                        | 17.56                               |                          | 11.39                       |
|             | 12/06/07            |                        | 18.32                               |                          | 10.63                       |
|             | 02/26/08            |                        | 16.93                               |                          | 12.02                       |
|             | 05/30/08            |                        | 17.97                               |                          | 10.98                       |
|             | 08/28/08            |                        | 18.33                               |                          | 10.62                       |
|             | 12/11/08            |                        | 18.86                               |                          | 10.09                       |
|             | 03/31/09            |                        | 17.37                               |                          | 11.58                       |
|             | 12/31/09            |                        | 18.26                               |                          | 10.69                       |
|             | 06/03/10            |                        | 16.86                               |                          | 12.09                       |
|             | 12/20/10            |                        | 17.70                               |                          | 11.25                       |
|             | 06/30/11            |                        | 17.36                               |                          | 11.59                       |
|             | 06/22/12            |                        | 17.03                               |                          | 11.92                       |
|             | 12/13/12            |                        | 17.01                               |                          | 11.94                       |
|             | 06/18/13            |                        | 18.02                               |                          | 10.93                       |
|             | 12/23/13            |                        | 19.77                               |                          | 9.18                        |
|             | 06/30/14            |                        | 18.36                               |                          | 10.59                       |
|             | 12/17/14            |                        | 18.75                               |                          | 10.20                       |
|             | <b>06/23/15</b>     |                        | <b>18.75</b>                        |                          | <b>10.20</b>                |
| <b>MW-8</b> | 02/26/08            | 30.14                  | 21.50                               |                          | 8.64                        |
|             | 05/30/08            |                        | 22.52                               |                          | 7.62                        |
|             | 08/28/08            |                        | 23.27                               |                          | 6.87                        |
|             | 12/11/08            |                        | 23.15                               |                          | 6.99                        |
|             | 03/31/09            |                        | 21.46                               |                          | 8.68                        |
|             | 12/31/09            |                        | 22.75                               |                          | 7.39                        |
|             | 06/03/10            |                        | 21.06                               |                          | 9.08                        |
|             | 12/20/10            |                        | 22.18                               |                          | 7.96                        |
|             | 06/30/11            |                        | 21.95                               |                          | 8.19                        |
|             | 06/22/12            |                        | 21.23                               |                          | 8.91                        |
|             | 12/13/12            |                        | 21.89                               |                          | 8.25                        |
|             | 06/18/13            |                        | 22.44                               |                          | 7.70                        |
|             | 12/23/13            |                        | 23.22                               |                          | 6.92                        |
|             | 06/30/14            |                        | No Longer measured                  |                          |                             |

**Notes:**

\* = Adjusted for the presence of free-floating oil by the equation: Top of Casing Elevation - Depth to Water + (0.8 x Floating Hydrocarbon Thickness) = Groundwater Elevation (Adjusted).

Top of casing elevations resurveyed by Mid Coast Engineers on 6/27/02 and 7/11/02.

**TABLE TWO**  
 Summary of Chemical Analysis of Groundwater Samples  
 Petroleum Hydrocarbon Concentrations  
 All results are in parts per billion

| Well/<br>Date<br>Sampled | TPH<br>Gasoline | TPH<br>Diesel | Benzene    | Toluene          | Ethyl-<br>benzene | Total<br>Xylenes | MTBE             | DIPE             | TBA        | Other<br>Oxys    | EDC              | EDB              |
|--------------------------|-----------------|---------------|------------|------------------|-------------------|------------------|------------------|------------------|------------|------------------|------------------|------------------|
| <b>MW-1</b>              |                 |               |            |                  |                   |                  |                  |                  |            |                  |                  |                  |
| 01/30/95                 | 740             | 200           | 3          | 5                | 1                 | 4                | --               | --               | --         | --               | --               | --               |
| 04/12/95                 | 400             | 500           | < 0.5      | < 0.5            | 3                 | < 2              | --               | --               | --         | --               | --               | --               |
| 07/14/95                 | 520             | 400           | 1          | < 0.5            | 2                 | 3                | --               | --               | --         | --               | --               | --               |
| 10/17/95                 | 400             | 200           | 0.5        | 1                | 3                 | < 2              | --               | --               | --         | --               | --               | --               |
| 01/12/96                 | 120             | 890           | < 0.5      | < 0.5            | < 0.5             | < 1.0            | < 2.0            | --               | --         | --               | --               | --               |
| 07/08/96                 | 320             | 300           | 0.52       | 2.7              | 1.2               | 2.3              | < 5.0            | --               | --         | --               | --               | --               |
| 01/06/97                 | 110             | 75            | < 0.5      | 0.68             | < 0.5             | < 0.5            | < 5.0            | --               | --         | --               | --               | --               |
| 07/08/97                 | 380             | 290           | < 0.5      | 1.5              | 1.4               | 1.9              | < 5.0            | --               | --         | < 0.5            | < 0.5            |                  |
| 01/26/98                 | < 50            | < 50          | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | --               | --         | < 0.5            | < 0.5            |                  |
| 07/23/98                 | 190             | < 50          | 0.54       | 2.8              | 2                 | 1.8              | < 5.0            | --               | --         | < 2              | < 2              |                  |
| 01/05/99                 | 200             | < 50          | 1.8        | 1.6              | 3.3               | < 0.5            | < 5.0            | --               | --         | < 0.5            | < 0.5            |                  |
| 07/13/99                 | 340             | <50           | <0.5       | <0.5             | 2.6               | <0.5             | <5.0             | --               | --         | <0.5             | <0.5             |                  |
| 01/12/00                 | 300             | 1,000         | 22         | 36               | 5.5               | 24               | < 5.0            | --               | --         | < 0.5            | < 0.5            |                  |
| 04/24/00                 | 360             | 280*          | < 0.5      | < 0.5            | < 0.5             | 2.1              | < 5.0            | --               | --         | < 0.5            | < 0.5            |                  |
| 07/20/00                 | 290             | 150*          | 1.8        | < 0.5            | < 0.5             | < 0.5            | < 5.0            | --               | --         | < 0.5            | < 0.5            |                  |
| 10/24/00                 | 170**           | 280*          | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | --               | --         | < 0.5            | < 0.5            |                  |
| 01/18/01                 | 170**           | 150*          | < 0.5      | < 0.5            | < 0.5             | 2.1              | < 5.0            | --               | --         | < 0.5            | < 0.5            |                  |
| 04/05/01                 | 350**           | 190*          | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | --               | --         | < 0.5            | < 0.5            |                  |
| 07/17/01                 | 310             | 570           | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | --               | --         | < 0.5            | < 0.5            |                  |
| 10/25/01                 | 250             | 260           | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | --               | --         | --               | --               |                  |
| 01/22/02                 | 200             | 250           | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | --               | --         | --               | --               |                  |
| 04/11/02                 | 260             | 300           | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | --               | --         | --               | --               |                  |
| 06/11/02                 | 270             | 330           | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | --               | --         | --               | --               |                  |
| 09/17/02                 | 320             | 1,700         | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | --               | --         | --               | --               |                  |
| 12/18/02                 | 170             | 320           | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | --               | --         | --               | --               |                  |
| 03/25/03                 | 320             | < 500         | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | --               | --         | --               | --               |                  |
| 06/23/03                 | 240             | 310           | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | --               | --         | --               | --               |                  |
| 09/26/03                 | 110             | 300           | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | --               | --         | < 0.5            | < 0.5            |                  |
| 12/18/03                 | 150             | 340           | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | --               | --         | < 0.5            | < 0.5            |                  |
| 03/12/04                 | 220             | 510           | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | --               | --         | < 0.5            | < 0.5            |                  |
| 06/17/04                 | 250             | 490           | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | --               | --         | < 0.5            | < 0.5            |                  |
| 09/17/04                 | 110             | --            | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | --               | --         | --               | --               |                  |
| 11/10/04***              | 180             | 400           | 0.68       | < 0.5            | 1.7               | < 0.5            | < 5.0            | --               | --         | --               | --               |                  |
| 12/17/04                 | 77              | 130           | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | --               | --         | < 0.5            | < 0.5            |                  |
| 04/28/05                 | 250             | 190           | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | 0.67             | < 0.5      | < 0.5            | < 0.5            |                  |
| 07/19/05                 | 340             | na            | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | 0.76             | < 5.0      | < 0.5            | < 0.5            |                  |
| 10/03/05                 | 170             | < 100         | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | < 0.50           | < 5.0      | < 0.5            | < 0.5            |                  |
| 12/06/05                 | 140             | 67            | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | --               | --         | --               | --               |                  |
| 03/15/06                 | 170             | < 80          | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | < 0.5            | < 5.0      | < 0.5            | < 0.5            |                  |
| 06/28/06                 | 230             | 130           | < 0.5      | < 0.5            | < 0.5             | < 0.5            | < 5.0            | < 0.5            | < 5.0      | < 0.5            | < 0.5            |                  |
| 08/31/06                 | 310             | < 200         | < 0.50     | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 0.50           | < 0.50     | < 0.50           | < 0.50           |                  |
| 11/21/06                 | 220             | 160           | < 0.50     | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 0.50           | < 0.50     | < 0.50           | < 0.50           |                  |
| 02/23/07                 | 140             | 120           | < 0.50     | < 0.50           | < 0.50            | < 0.50           | < 0.50           | 1.2              | < 5.0      | < 0.50           | < 0.50           |                  |
| 05/02/07                 | 180             | 140           | < 0.50     | < 0.50           | < 0.50            | < 0.50           | < 0.50           | 1.3              | < 5.0      | < 0.50           | < 0.50           |                  |
| 08/09/07                 | 130             | 120           | < 0.50     | < 0.50           | < 0.50            | < 0.50           | < 0.50           | 0.85             | < 5.0      | < 0.50           | < 0.50           |                  |
| 12/06/07                 | 53              | 160           | < 0.50     | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 5.0            | < 5.0      | < 0.50           | < 0.50           |                  |
| 02/26/08                 | 93              | < 50          | < 0.50     | < 0.50           | < 0.50            | < 0.50           | < 0.50           | 1.1              | < 5.0      | < 0.50           | < 0.50           |                  |
| 05/30/08                 | 200             | 240           | < 0.50     | < 0.50           | < 0.50            | < 0.50           | < 0.50           | 0.95             | < 5.0      | < 0.50           | < 0.50           |                  |
| 08/28/08                 | 150             | 200           | < 0.50     | < 0.50           | < 0.50            | < 0.50           | < 0.50           | 1.2              | < 5.0      | < 0.50           | --               |                  |
| 12/11/08                 | 110             | 140           | < 0.50     | < 0.50           | < 0.50            | < 0.50           | < 0.50           | 0.92             | < 5.0      | < 0.50           | --               |                  |
| 03/31/09                 | 160             | < 200         | < 0.50     | < 0.50           | < 0.50            | < 0.50           | < 0.50           | 1.8              | < 5.0      | < 0.50           | < 0.50           |                  |
| 12/31/09                 | 140             | 200           | < 0.50     | < 0.50           | < 0.50            | < 0.50           | < 0.50           | 0.84             | < 5.0      | < 0.50           | < 0.50           |                  |
| 06/03/10                 | 300             | 140           | < 0.50     | < 0.50           | < 0.50            | < 0.50           | < 0.50           | 0.72             | < 5.0      | < 0.50           | < 0.50           |                  |
| 12/20/10                 | 140             | 180           | < 0.50     | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 0.50           | < 5.0      | < 0.50           | < 0.50           |                  |
| 06/30/11                 | 650             | < 200         | 1.9        | < 0.50           | < 0.50            | < 0.50           | < 0.50           | 0.78             | < 5.0      | < 0.50           | < 0.50           |                  |
| 06/22/12                 | 750             | < 200         | 23         | < 0.50           | 1.1               | 2.3              | < 0.50           | 0.80             | 12         | < 0.50           | < 0.50           |                  |
| 12/13/12                 | 180             | 90            | 2.6        | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 0.50           | < 5.0      | < 0.50           | < 0.50           |                  |
| 06/18/13                 | 370             | 84            | 1.5        | < 0.50           | < 0.50            | < 0.50           | < 0.50           | 0.52             | < 5.0      | < 0.50           | < 0.50           |                  |
| 12/23/13                 | 410             | 200           | 2.0        | < 0.50           | < 0.50            | < 0.50           | < 0.50           | 0.64             | < 5.0      | < 0.50           | < 0.50           |                  |
| 06/30/14                 | 400             | 140           | 6.9        | < 0.50           | < 0.50            | < 0.50           | < 0.50           | 1.4              | < 5.0      | < 0.50           | < 0.50           |                  |
| 12/17/14                 | 520             | 77            | 11         | < 0.50           | < 0.50            | 1.8              | < 0.50           | 0.56             | < 5.0      | < 0.50           | < 0.50           |                  |
| <b>06/23/15</b>          | <b>380</b>      | <b>130</b>    | <b>3.2</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b>  | <b>0.92</b>      | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> | <b>2.2</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> |

**TABLE TWO**  
 Summary of Chemical Analysis of Groundwater Samples  
 Petroleum Hydrocarbon Concentrations  
 All results are in parts per billion

| Well/<br>Date<br>Sampled | TPH<br>Gasoline | TPH<br>Diesel | Benzene | Toluene | Ethyl-<br>benzene | Total<br>Xylenes | MTBE    | DIPE  | TBA     | Other<br>Oxys | EDC   | EDB    |
|--------------------------|-----------------|---------------|---------|---------|-------------------|------------------|---------|-------|---------|---------------|-------|--------|
| <b>MW-2</b>              |                 |               |         |         |                   |                  |         |       |         |               |       |        |
| 01/30/95                 | 88,000          | 800           | 19,000  | 18,000  | 2,400             | 10,000           | --      | --    | --      | --            | --    | --     |
| 04/12/95                 | 110,000         | 990           | 21,000  | 28,000  | 2,800             | 14,000           | --      | --    | --      | --            | --    | --     |
| 07/14/95                 | 120,000         | 5,000         | 20,000  | 25,000  | 3,200             | 15,000           | --      | --    | --      | --            | --    | --     |
| 10/17/95                 | 190,000         | 4,000         | 15,000  | 26,000  | 4,900             | 23,000           | --      | --    | --      | --            | --    | --     |
| 01/12/96                 | 32,000          | 2,600         | 10,000  | 8,000   | 1,100             | 4,800            | < 2     | --    | --      | --            | --    | --     |
| 07/08/96                 | 110,000         | 2,500         | 20,000  | 18,000  | 2,500             | 12,000           | < 500   | --    | --      | --            | --    | --     |
| 01/06/97                 | 230,000         | 37,000        | 11,000  | 19,000  | 4,300             | 20,000           | < 1,200 | --    | --      | --            | --    | --     |
| 07/08/97                 | 91,000          | 35,000        | 16,000  | 20,000  | 2,700             | 13,000           | < 1,000 | --    | --      | < 0.5         | < 0.5 |        |
| 01/26/98                 | 50,000          | 11,000        | 12,000  | 12,000  | 1,600             | 6,700            | < 250   | --    | --      | 11            | < 0.5 |        |
| 07/23/98                 | 50,000          | 8,100#        | 11,000  | 8,300   | 1,800             | 7,000            | 1,100   | --    | --      | 9.9           | < 0.5 |        |
| 01/05/99                 | 50,000          | 7,600#        | 12,000  | 12,000  | 2,300             | 9,600            | 1,300   | --    | --      | < 50          | < 50  |        |
| 07/13/99                 | 73,000          | 8,500         | 11,000  | 13,000  | 2,200             | 9,800            | < 500   | --    | --      | 7.7           | < 0.5 |        |
| 01/12/00                 | 63,000          | 11,000        | 10,000  | 12,000  | 1,800             | 7,800            | < 500   | --    | --      | 8.8           | < 1.0 |        |
| 04/24/00                 | 76,000          | 23,000*       | 7,100   | 14,000  | 2,000             | 9,400            | < 500   | --    | --      | 5.9           | < 5.0 |        |
| 07/20/00                 | 68,000          | 5,300#        | 11,000  | 14,000  | 2,300             | 11,000           | < 1,000 | --    | --      | 6.7           | < 5.0 |        |
| 10/24/00                 | 48,000          | 6,400*        | 11,000  | 9,400   | 1,500             | 7,300            | < 500   | --    | --      | < 5.0         | < 5.0 |        |
| 01/18/01                 | 37,000          | 4,600*        | 6,900   | 5,600   | 1,200             | 5,300            | < 500   | --    | --      | < 5.0         | < 5.0 |        |
| 04/05/01                 | 59,000          | 4,600*        | 7,100   | 9,800   | 1,600             | 7,600            | < 500   | --    | --      | 4.6           | < 5.0 |        |
| 07/17/01                 | 90,000          | < 10,000      | 9,200   | 14,000  | 2,700             | 11,000           | < 50    | --    | --      | < 50          | ---   |        |
| 10/25/01                 | 79,000          | < 3,800       | 9,200   | 14,000  | 2,400             | 11,000           | < 50    | --    | --      | < 50          | < 50  |        |
| 01/22/02                 | 76,000          | < 2,300       | 7,000   | 13,000  | 2,200             | 9,600            | < 50    | --    | --      | < 50          | < 50  |        |
| 04/11/02                 | 76,000          | < 1,500       | 7,800   | 11,000  | 2,900             | 12,000           | < 50    | --    | --      | --            | --    |        |
| 06/11/02                 | 72,000          | < 2,500       | 7,300   | 9,600   | 2,500             | 12,000           | < 50    | --    | --      | --            | --    |        |
| 09/17/02                 | 52,000          | < 3,000       | 5,000   | 5,400   | 2,100             | 9,100            | < 20    | --    | --      | < 20          | < 20  |        |
| 12/18/02                 | 46,000          | < 6,000       | 2,900   | 3,000   | 1,800             | 7,600            | 22      | --    | --      | < 10          | < 10  |        |
| 03/25/03                 | 87,000          | < 8,000       | 7,900   | 9,300   | 2,900             | 12,000           | < 50    | --    | --      | < 50          | < 50  |        |
| 06/23/03                 | 46,000          | < 3,000       | 7,800   | 4,000   | 1,900             | 6,600            | < 50    | --    | --      | < 50          | < 50  |        |
| 09/26/03                 | 52,000          | < 3,000       | 9,100   | 3,500   | 1,300             | 5,000            | < 50    | --    | --      | < 50          | < 50  |        |
| 12/18/03                 | 61,000          | < 4,000       | 13,000  | 3,500   | 1,600             | 5,600            | < 20    | --    | --      | < 20          | < 20  |        |
| 03/12/04                 | 53,000          | < 4,000       | 9,100   | 3,500   | 1,700             | 5,700            | < 25    | --    | --      | < 25          | < 25  |        |
| 06/17/04                 | 59,000          | < 3,000       | 7,100   | 4,000   | 1,700             | 7,300            | < 25    | --    | --      | < 25          | < 25  |        |
| 09/17/04                 | 33,000          | --            | 9,800   | 1,200   | 1,300             | 4,000            | < 20    | --    | --      | --            | --    |        |
| 11/10/04***              | 44,000          | 3,600         | 13,000  | 4,400   | 1,600             | 6,000            | < 1000  | --    | --      | --            | --    |        |
| 12/17/04                 | 54,000          | < 3,000       | 7,900   | 2,200   | 1,700             | 3,900            | < 15    | --    | --      | < 15          | < 15  |        |
| 04/28/05                 | 81,000          | < 3,000       | 7,000   | 6,000   | 2,100             | 8,700            | < 15    | 90    | < 15    | < 15          | < 15  |        |
| 07/19/05                 | 59,000          | na            | 7,900   | 4,400   | 1,900             | 7,000            | < 15    | < 15  | 77      | < 15          | < 15  |        |
| 10/03/05                 | 34,000          | < 800         | 7,800   | 810     | 1,000             | 2,800            | < 15    | < 15  | < 70    | < 15          | < 15  |        |
| 12/06/05                 | 26,000          | < 800         | 6,100   | 940     | 770               | 2,000            | < 15    | --    | --      | --            | --    |        |
| 03/15/06                 | 33,000          | < 1,500       | 7,700   | 2,600   | 1,400             | 4,200            | < 15    | < 15  | < 15    | < 15          | < 15  |        |
| 06/28/06                 | 96,000          | < 4,000       | 10,000  | 14,000  | 2,900             | 12,000           | < 15    | < 15  | < 5.0   | < 15          | 33    | < 15   |
| 8/31/06                  | 47,000          | < 3,000       | 5,800   | 5,100   | 2,200             | 8,700            | < 15    | < 15  | 81      | < 15          | < 15  |        |
| 11/21/06                 | 51,000          | < 1,500       | 6,800   | 3,400   | 1,700             | 6,200            | < 15    | < 15  | 82      | < 15          | < 15  |        |
| 02/23/07                 | 38,000          | < 1,500       | 7,800   | 2,000   | 1,500             | 4,600            | < 15    | < 15  | 190     | < 15          | < 15  |        |
| 05/02/07                 | 55,000          | < 3,000       | 6,500   | 5,100   | 2,400             | 8,600            | < 15    | < 15  | 110     | < 15          | < 15  |        |
| 08/09/07                 | 39,000          | < 3,000       | 6,600   | 2,200   | 1,600             | 4,900            | < 15    | < 15  | 81      | < 15          | < 15  |        |
| 12/06/07                 | 20,000          | < 1,500       | 7,400   | 510     | 680               | 1,200            | < 15    | < 15  | 120     | < 15          | < 15  |        |
| 02/26/08                 | 43,000          | < 4,000       | 8,200   | 940     | 1,400             | 3,700            | < 15    | < 15  | 70      | < 15          | < 15  |        |
| 05/30/08                 | 31,000          | < 1,000       | 11,000  | 620     | 1,100             | 2,300            | < 15    | < 15  | 84      | < 15          | < 15  |        |
| 08/28/08                 | 38,000          | < 3,000       | 11,000  | 630     | 1,400             | 3,800            | < 25    | < 25  | < 150   | < 25          | ---   |        |
| 12/11/08                 | 32,000          | < 2,000       | 11,000  | 610     | 1,000             | 2,700            | < 25    | < 25  | < 150   | < 25          | ---   |        |
| 03/31/09                 | 44,000          | < 4,000       | 6,500   | 3,300   | 1,700             | 5,600            | < 9.0   | < 9.0 | 56      | < 9.0         | < 9.0 |        |
| 12/31/09                 | 36,000          | < 4,000       | 9,700   | 350     | 1,600             | 3,800            | < 9.0   | 13    | 56      | < 9.0         | < 9.0 |        |
| 06/03/10                 | 53,000          | < 10,000      | 8,600   | 2,600   | 2,500             | 8,000            | < 5.0   | 8.9   | 69      | < 5.0         | < 5.0 |        |
| 12/20/10                 | 39,000          | < 4,000       | 13,000  | 530     | 1,600             | 3,600            | < 15    | 21    | < 70    | < 15          | < 15  |        |
| 06/30/11                 | 65,000          | < 6,000       | 7,300   | 5,900   | 2,400             | 10,000           | < 20    | < 20  | < 90    | < 20          | < 20  |        |
| 06/22/12                 | 1,200           | 140           | 50      | 56      | 4.0               | 160              | < 0.50  | 1.6   | 17      | < 0.50        | 1.1   | < 0.50 |
| 12/13/12                 | 2,400           | 66            | 890     | 4.1     | 9.6               | 16               | < 0.50  | 5.4   | 17      | < 0.50        | 1.4   | < 0.50 |
| 06/18/13                 | 5,300           | 88            | 2,400   | 7.8     | 80                | 31               | < 1.5   | 7.8   | 17      | < 1.5         | < 1.5 | < 1.5  |
| 12/23/13                 | 6,600           | 210           | 2,200   | 6.6     | 15                | 16               | < 4.0   | 7.9   | 34      | < 4.0         | < 4.0 | < 4.0  |
| 06/30/14                 | 21,000          | 200           | 8,000   | 94      | 290               | 400              | < 4.0   | 16    | 66      | < 4.0         | < 4.0 | < 4.0  |
| 12/17/14                 | 27,000          | 180           | 7,600   | 53      | 100               | 210              | < 15    | < 15  | < 70    | < 15          | < 15  | < 15   |
| 06/23/15                 | 17,000          | 1,400         | 7,800   | < 250   | < 250             | 560              | < 250   | < 250 | < 1,000 | < 250         | < 250 | < 250  |

**TABLE TWO**  
 Summary of Chemical Analysis of Groundwater Samples  
 Petroleum Hydrocarbon Concentrations  
 All results are in parts per billion

| Well/<br>Date<br>Sampled | TPH<br>Gasoline   | TPH<br>Diesel | Benzene      | Toluene    | Ethyl-<br>benzene | Total<br>Xylenes | MTBE           | DIPE           | TBA        | Other<br>Oxys  | EDC            | EDB            |
|--------------------------|---|---------------|--------------|------------|-------------------|------------------|----------------|----------------|------------|----------------|----------------|----------------|
| <b>MW-3</b>              |   |               |              |            |                   |                  |                |                |            |                |                |                |
| 01/12/00                 | 140,000   | 13,000*       | 22,000       | 19,000     | 2,400             | 11,000           | < 500          | ---            | ---        | ---            | ---            | ---            |
| 04/24/00                 | 240,000   | 700,000*      | 33,000/      | 52,000/    | 5,700/            | 28,000/ < 5,000  | 35,000         | 87,000         | 18,000     | 84,000         | ---            | ---            |
| 07/20/00                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 10/24/00                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 01/18/01                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 04/05/01                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 07/17/01                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 10/25/01                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 01/22/02                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 04/11/02                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 06/11/02                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 09/17/02                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 12/18/02                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 03/25/03                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 06/23/03                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 09/26/03                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 12/18/03                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 03/12/04                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 06/17/04                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 09/17/04                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 11/10/04                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 12/17/04                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 04/28/05                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 07/19/05                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 10/03/05                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 12/06/05                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 03/15/06                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 06/28/06                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 8/31/06                  | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 11/21/06                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 02/23/07                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 05/02/07                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 08/09/07                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 12/06/07                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 02/26/08                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 05/30/08                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 08/28/08                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 12/11/08                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 03/31/09                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 12/31/09                 | 60,000  | < 25,000      | 7,500        | 6,500      | 1,000             | 6,600            | < 20           | < 20           | < 90       | < 20           | < 20           | < 20           |
| 06/03/10                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 12/20/10                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS             |               |              |            |                   |                  |                |                |            |                |                |                |
| 06/30/11                 | 140,000   | < 40,000      | 12,000       | 21,000     | 4,000             | 17,000           | < 20           | < 20           | < 90       | < 20           | < 20           | < 20           |
| 06/22/12                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS (0.69-feet) |               |              |            |                   |                  |                |                |            |                |                |                |
| 12/13/12                 | 99,000  | < 12,000      | 5,800        | 5,800      | 2,100             | 11,000           | < 10           | < 10           | 60         | < 10           | < 10           | < 10           |
| 06/18/13                 | 100,000   | 220,000       | 6,700        | 7,900      | 2,000             | 15,000           | < 10           | < 10           | < 50       | < 10           | < 10           | < 10           |
| 12/23/13                 | 80,000  | 4,700         | 4,800        | 2,100      | 860               | 11,000           | < 15           | < 15           | 110        | < 15           | < 15           | < 15           |
| 06/30/14                 | 97,000  | 5,900         | 4,600        | 6,200      | 1,300             | 11,000           | < 15           | < 15           | 500        | < 15           | < 15           | < 15           |
| 12/17/14                 | 53,000  | 8,300         | 1,800        | 1,200      | 560               | 5,300            | < 9.0          | < 9.0          | 400        | < 9.0          | 10             | < 9.0          |
| <b>06/23/15</b>          | <b>27,000</b>   | <b>13,000</b> | <b>3,500</b> | <b>390</b> | <b>580</b>        | <b>4,600</b>     | <b>&lt; 50</b> | <b>&lt; 50</b> | <b>420</b> | <b>&lt; 50</b> | <b>&lt; 50</b> | <b>&lt; 50</b> |

**TABLE TWO**  
 Summary of Chemical Analysis of Groundwater Samples  
 Petroleum Hydrocarbon Concentrations  
 All results are in parts per billion

| Well/<br>Date<br>Sampled | TPH<br>Gasoline                               | TPH<br>Diesel | Benzene          | Toluene          | Ethyl-<br>benzene | Total<br>Xylenes | MTBE             | DIPE             | TBA             | Other<br>Oxys    | EDC              | EDB              |
|--------------------------|---|---------------|------------------|------------------|-------------------|------------------|------------------|------------------|-----------------|------------------|------------------|------------------|
| <b>MW-4</b>              |   |               |                  |                  |                   |                  |                  |                  |                 |                  |                  |                  |
| 01/12/00                 | 99,000  | 7,900*        | 16,000           | 20,000           | 2,100             | 12,000           | < 2,500          | ---              | ---             | ---              | < 50             | < 50             |
| 04/24/00                 | 54,000  | 44,000*       | 3,400/ 4,500     | 13,000/ 20,000   | 1,800/ 2,800      | 8,800/ 14,000    | < 1,300          | ---              | ---             | ---              | < 250            | < 250            |
| 07/20/00                 | 8,000   | 3,500         | 9,200/ 11,000    | 20,000/ 22,000   | 2,500/ 3,400      | 12,000/ 13,000   | < 1,000          | ---              | ---             | ---              | < 200            | < 200            |
| 10/24/00                 | 98,000  | 8,000*        | 21,000           | 29,000           | 2,700             | 15,000           | < 1,000          | ---              | ---             | ---              | < 250            | < 250            |
| 01/18/01                 | 91,000  | 12,000        | 17,000/ 15,000   | 21,000           | 2,500/ 2,800      | 13,000/ 11,000   | < 1,000/ < 5,000 | ---              | ---             | ---              | < 250            | < 250            |
| 04/05/01                 | 88,000  | 7,500*        | 6,900/ 3,200     | 18,000/ 9,000    | 2,500/ 1,300      | 12,000/ 6,400    | < 1,000/ < 500   | ---              | ---             | ---              | < 50             | < 50             |
| 07/17/01                 | 95,000  | < 3,000       | 8,000            | 16,000           | 2,900             | 11,000           | 49               | ---              | ---             | ---              | 69               | ---              |
| 10/25/01                 | 89,000  | < 2,200       | 9,300            | 18,000           | 2,400             | 12,000           | 66               | ---              | ---             | ---              | 72               | < 50             |
| 01/22/02                 | 80,000  | < 2,300       | 4,600            | 15,000           | 2,500             | 11,000           | < 50             | ---              | ---             | ---              | < 50             | < 50             |
| 04/11/02                 | 90,000  | < 900         | 6,600            | 18,000           | 2,800             | 12,000           | 55               | ---              | ---             | ---              | ---              | ---              |
| 06/25/02                 | 110,000                                       | < 3,000       | 10,000           | 20,000           | 2,900             | 13,000           | < 100            | ---              | ---             | ---              | < 100            | < 100            |
| 09/17/02                 | 110,000                                       | < 3,000       | 9,600            | 21,000           | 2,800             | 13,000           | < 100            | ---              | ---             | ---              | < 100            | < 100            |
| 12/18/02                 | 97,000  | < 4,000       | 8,000            | 20,000           | 2,600             | 12,000           | < 50             | ---              | ---             | ---              | < 50             | < 50             |
| 03/25/03                 | 97,000  | < 7,500       | 7,600            | 22,000           | 2,500             | 12,000           | < 100            | ---              | ---             | ---              | < 100            | < 100            |
| 06/23/03                 | 100,000                                       | < 3,000       | 9,600            | 22,000           | 3,300             | 15,000           | < 100            | ---              | ---             | ---              | < 100            | < 100            |
| 09/26/03                 | 110,000                                       | < 4,000       | 9,300            | 17,000           | 2,100             | 10,000           | < 50             | ---              | ---             | ---              | 87               | < 50             |
| 12/18/03                 | 110,000                                       | < 2,000       | 8,900            | 19,000           | 2,500             | 12,000           | < 25             | ---              | ---             | ---              | 46               | < 25             |
| 03/12/04                 | 96,000  | < 4,000       | 6,500            | 18,000           | 2,700             | 12,000           | < 40             | ---              | ---             | ---              | < 40             | < 40             |
| 06/17/04                 | 110,000                                       | < 4,000       | 10,000           | 20,000           | 2,900             | 13,000           | < 50             | ---              | ---             | ---              | 93               | < 50             |
| 09/17/04                 | 78,000  | --            | 9,300            | 15,000           | 2,400             | 11,000           | < 50             | ---              | ---             | ---              | ---              | ---              |
| 11/10/04***              | 87,000  | 4,300         | 15,000           | 21,000           | 3,000             | 16,000           | < 1300           | ---              | ---             | ---              | ---              | ---              |
| 12/17/04                 | 88,000  | < 3,000       | 8,500            | 16,000           | 2,800             | 12,000           | < 25             | ---              | ---             | ---              | 53               | < 25             |
| 04/28/05                 | 110,000                                       | < 3,000       | 7,800            | 14,000           | 2,200             | 10,000           | < 25             | < 25             | < 25            | < 25             | 46               | < 25             |
| 07/19/05                 | 90,000  | na            | 10,000           | 13,000           | 2,300             | 10,000           | < 40             | < 20             | < 20            | < 20             | 73               | < 40             |
| 10/03/05                 | 68,000  | < 800         | 9,400            | 4,000            | 1,800             | 8,700            | 23               | 23               | < 5.0           | < 20             | 62               | < 20             |
| 12/06/05                 | 81,000  | < 1,500       | 8,900            | 7,200            | 2,200             | 9,500            | < 20             | ---              | ---             | ---              | ---              | ---              |
| 03/15/06                 | 68,000  | < 3,000       | 7,300            | 14,000           | 2,500             | 10,000           | < 20             | < 20             | < 20            | < 20             | < 20             | < 20             |
| 06/28/06                 | 61,000  | < 3,000       | 8,500            | 4,100            | 2,600             | 11,000           | < 20             | < 20             | < 5.0           | < 20             | 20               | < 20             |
| 08/31/06                 | 68,000  | < 2,000       | 9,500            | 9,600            | 2,500             | 12,000           | < 20             | < 20             | < 5.0           | < 20             | 36               | < 20             |
| 11/21/06                 | 68,000  | < 1,500       | 9,000            | 5,000            | 2,000             | 9,300            | < 20             | < 20             | 230             | < 20             | 42               | < 20             |
| 02/23/07                 | 90,000  | < 2,000       | 11,000           | 11,000           | 2,800             | 12,000           | < 20             | < 20             | 290             | < 20             | 36               | < 20             |
| 05/02/07                 | 56,000  | < 2,000       | 7,300            | 6,300            | 2,500             | 11,000           | < 15             | < 15             | 160             | < 15             | 20               | < 15             |
| 08/09/07                 | 52,000  | < 2,000       | 7,600            | 2,600            | 2,100             | 8,400            | < 15             | 15               | 170             | < 15             | 31               | < 15             |
| 12/06/07                 | 60,000  | < 2,000       | 13,000           | 2,000            | 2,800             | 11,000           | < 15             | 22               | 150             | < 15             | < 15             | < 15             |
| 02/26/08                 | 42,000  | < 2,000       | 3,700            | 2,300            | 2,300             | 8,900            | < 15             | < 15             | 90              | < 15             | < 15             | < 15             |
| 05/30/08                 | 64,000  | < 3,000       | 9,200            | 5,100            | 3,000             | 12,000           | < 15             | < 15             | 83              | < 15             | 19               | < 15             |
| 08/28/08                 | 73,000  | < 5,000       | 9,700            | 5,500            | 3,300             | 12,000           | < 15             | < 15             | < 70            | < 15             | ---              | ---              |
| 12/11/08                 | 120,000                                       | < 40,000      | 14,000           | 12,000           | 4,400             | 19,000           | < 25             | < 25             | < 150           | < 25             | ---              | ---              |
| 03/31/09                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS |               |                  |                  |                   |                  |                  |                  |                 |                  |                  |                  |
| <b>MW-4R</b>             |   |               |                  |                  |                   |                  |                  |                  |                 |                  |                  |                  |
| 12/31/09                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS |               |                  |                  |                   |                  |                  |                  |                 |                  |                  |                  |
| 06/03/10                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS |               |                  |                  |                   |                  |                  |                  |                 |                  |                  |                  |
| 12/20/10                 | NOT SAMPLED DUE TO FREE-FLOATING HYDROCARBONS |               |                  |                  |                   |                  |                  |                  |                 |                  |                  |                  |
| 06/30/11                 | 190,000                                       | < 30,000      | 3,800            | 11,000           | 2,900             | 20,000           | < 25             | < 25             | < 150           | < 25             | < 25             | < 25             |
| 06/22/12                 | 4,500   | < 200         | 31               | 53               | 5.0               | 500              | 6.3              | 6.1              | 180             | < 0.5            | 21               | < 0.5            |
| 12/13/12                 | 3,700   | < 200         | 97               | 76               | 50                | 590              | < 0.50           | 1.0              | 41              | < 0.50           | 2.5              | < 0.50           |
| 06/18/13                 | 3,800   | 110           | 37               | 33               | 10                | 400              | 1.5              | 2.5              | 120             | < 0.50           | 7.2              | < 0.50           |
| 12/23/13                 | 240   | 100           | < 0.50           | < 0.50           | < 0.50            | 5.4              | < 0.50           | < 0.50           | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| 06/30/14                 | 3,600   | 340           | 1,300            | 6.3              | 1.3               | 16               | < 0.50           | 0.93             | 22              | < 0.50           | < 0.50           | < 0.50           |
| 12/17/14                 | 210   | 240           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | < 0.50           | < 0.50           | < 5.0           | < 0.50           | < 0.50           | < 0.50           |
| <b>06/23/15</b>          | <b>200</b>                                    | <b>99</b>     | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b>  | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> | <b>&lt; 2.0</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> |

**TABLE TWO**  
 Summary of Chemical Analysis of Groundwater Samples  
 Petroleum Hydrocarbon Concentrations  
 All results are in parts per billion

| Well/<br>Date<br>Sampled | TPH<br>Gasoline | TPH<br>Diesel  | Benzene          | Toluene          | Ethyl-<br>benzene | Total<br>Xylenes | MTBE        | DIPE            | TBA              | Other<br>Oxys    | EDC              | EDB              |
|--------------------------|-----------------|----------------|------------------|------------------|-------------------|------------------|-------------|-----------------|------------------|------------------|------------------|------------------|
| <b>MW-5</b>              |                 |                |                  |                  |                   |                  |             |                 |                  |                  |                  |                  |
| 06/11/02                 | < 50            | < 50           | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 28          | ---             | ---              | ---              | < 0.5            | < 0.5            |
| 09/17/02                 | < 50            | 110            | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 4.8         | ---             | ---              | ---              | < 0.5            | < 0.5            |
| 12/18/02                 | < 50            | 140            | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 1.8         | ---             | ---              | ---              | < 0.5            | < 0.5            |
| 03/25/03                 | < 50            | 130            | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 7.4         | ---             | ---              | ---              | < 0.5            | < 0.5            |
| 06/23/03                 | < 50            | 390            | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 17          | ---             | ---              | ---              | < 0.5            | < 0.5            |
| 09/26/03                 | < 50            | 700            | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 21          | ---             | ---              | ---              | < 0.5            | < 0.5            |
| 12/18/03                 | < 50            | 550            | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 16          | ---             | ---              | ---              | < 0.5            | < 0.5            |
| 03/12/04                 | < 50            | 490            | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 9.1         | ---             | ---              | ---              | < 40             | < 40             |
| 06/17/04                 | < 50            | 510            | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 9.8         | ---             | ---              | ---              | < 0.5            | < 0.5            |
| 09/17/04                 | < 50            | --             | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 5.5         | ---             | ---              | ---              | ---              | ---              |
| 11/10/04***              | < 50            | 370            | < 0.5            | < 0.5            | < 0.5             | < 0.5            | < 5.0       | ---             | ---              | ---              | ---              | ---              |
| 12/17/04                 | < 50            | 120            | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 9.2         | ---             | ---              | ---              | < 0.5            | < 0.5            |
| 04/28/05                 | < 50            | < 50           | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 2.2         | < 0.5           | < 0.5            | < 0.5            | < 0.5            | < 0.5            |
| 07/19/05                 | < 50            | na             | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 6.1         | 2.1             | < 5.0            | < 0.5            | < 0.5            | < 0.5            |
| 10/03/05                 | < 50            | < 50           | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 2.4         | 1.7             | < 5.0            | < 0.5            | < 0.5            | < 0.5            |
| 12/06/05                 | < 50            | < 50           | < 0.5            | < 0.5            | < 0.5             | < 0.5            | < 5.0       | ---             | ---              | ---              | ---              | ---              |
| 03/15/06                 | < 50            | < 50           | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 3.3         | < 0.5           | < 5.0            | < 0.5            | < 0.5            | < 0.5            |
| 06/28/06                 | < 50            | < 50           | < 0.5            | < 0.5            | < 0.5             | < 0.5            | 1.8         | < 0.5           | < 5.0            | < 0.5            | < 0.5            | < 0.5            |
| 08/31/06                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 3.4         | < 0.50          | < 5.0            | < 0.50           | < 0.50           | < 0.50           |
| 12/05/06                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 5.2         | 1.7             | 5.4              | < 0.50           | < 0.50           | < 0.50           |
| 02/23/07                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 6.0         | 1.4             | < 5.0            | < 0.50           | < 0.50           | < 0.50           |
| 05/02/07                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 3.8         | 1.3             | < 5.0            | < 0.50           | < 0.50           | < 0.50           |
| 08/09/07                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 5.5         | 1.3             | < 5.0            | < 0.50           | < 0.50           | < 0.50           |
| 12/06/07                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 1.8         | 1.5             | < 5.0            | < 0.50           | < 0.50           | < 0.50           |
| 02/26/08                 | 260             | < 50           | 32               | 1.3              | 0.62              | 0.92             | 3.4         | 5.6             | 7.7              | < 0.50           | 0.60             | < 0.50           |
| 05/30/08                 | 71              | < 50           | 1.8              | < 0.50           | < 0.50            | < 0.50           | 2.4         | 3.1             | < 5.0            | < 0.50           | < 0.50           | < 0.50           |
| 08/28/08                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 2.1         | 2.2             | < 5.0            | < 0.50           | ---              | ---              |
| 12/11/08                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 2.2         | 2.5             | < 5.0            | < 0.50           | ---              | ---              |
| 03/31/09                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 1.2         | 1.3             | < 5.0            | < 0.50           | < 0.50           | < 0.50           |
| 12/31/09                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 1.9         | 1.5             | < 5.0            | < 0.50           | < 0.50           | < 0.50           |
| 06/03/10                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 0.56        | < 0.50          | < 5.0            | < 0.50           | < 0.50           | < 0.50           |
| 12/20/10                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | 0.61        | 0.67            | < 5.0            | < 0.50           | < 0.50           | < 0.50           |
| 06/30/11                 | < 50            | < 50           | 1.6              | < 0.50           | < 0.50            | < 0.50           | < 0.50      | 1.0             | < 5.0            | < 0.50           | < 0.50           | < 0.50           |
| 06/22/12                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | < 0.50      | < 0.50          | < 5.0            | < 0.50           | < 0.50           | < 0.50           |
| 12/13/12                 | 79              | < 50           | 2.7              | < 0.50           | 0.86              | 0.74             | < 0.50      | < 0.50          | < 5.0            | < 0.50           | < 0.50           | < 0.50           |
| 06/18/13                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | < 0.50      | < 0.50          | < 5.0            | < 0.50           | < 0.50           | < 0.50           |
| 12/23/13                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | < 0.50      | 0.65            | < 5.0            | < 0.50           | < 0.50           | < 0.50           |
| 06/30/14                 | < 50            | < 50           | < 0.50           | < 0.50           | < 0.50            | < 0.50           | < 0.50      | 0.70            | < 5.0            | < 0.50           | < 0.50           | < 0.50           |
| 12/17/14                 | 100             | < 50           | 21               | 0.56             | < 0.50            | < 0.50           | < 0.50      | 1.2             | < 5.0            | < 0.50           | < 0.50           | < 0.50           |
| <b>06/23/15</b>          | <b>&lt; 50</b>  | <b>&lt; 50</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b>  | <b>&lt; 0.50</b> | <b>0.53</b> | <b>&lt; 2.0</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> |

**TABLE TWO**  
 Summary of Chemical Analysis of Groundwater Samples  
 Petroleum Hydrocarbon Concentrations  
 All results are in parts per billion

| Well/<br>Date<br>Sampled | TPH<br>Gasoline          | TPH<br>Diesel | Benzene | Toluene | Ethyl-<br>benzene | Total<br>Xylenes | MTBE   | DIPE   | TBA   | Other<br>Oxys | EDC    | EDB    |
|--------------------------|--------------------------|---------------|---------|---------|-------------------|------------------|--------|--------|-------|---------------|--------|--------|
| <b>MW-6</b>              |                          |               |         |         |                   |                  |        |        |       |               |        |        |
| 06/11/02                 | < 50                     | < 50          | < 0.5   | < 0.5   | < 0.5             | < 0.5            | 1.2    | ---    | ---   | ---           | < 0.5  | < 0.5  |
| 09/17/02                 | < 50                     | < 50          | < 0.5   | < 0.5   | < 0.5             | < 0.5            | 1.0    | ---    | ---   | ---           | < 0.5  | < 0.5  |
| 12/18/02                 | < 50                     | < 50          | < 0.5   | < 0.5   | < 0.5             | < 0.5            | 0.90   | ---    | ---   | ---           | < 0.5  | < 0.5  |
| 03/25/03                 | < 50                     | < 50          | < 0.5   | < 0.5   | < 0.5             | < 0.5            | < 5.0  | ---    | ---   | ---           | < 0.5  | < 0.5  |
| 06/23/03                 | < 50                     | < 50          | < 0.5   | < 0.5   | < 0.5             | < 0.5            | < 0.5  | ---    | ---   | ---           | < 0.5  | < 0.5  |
| 09/26/03                 | < 50                     | < 50          | < 0.5   | < 0.5   | < 0.5             | < 0.5            | < 0.5  | ---    | ---   | ---           | < 0.5  | < 0.5  |
| 12/18/03                 | < 50                     | < 50          | < 0.5   | < 0.5   | < 0.5             | < 0.5            | < 0.5  | ---    | ---   | ---           | < 0.5  | < 0.5  |
| 03/12/04                 | < 50                     | < 50          | < 0.5   | < 0.5   | < 0.5             | < 0.5            | < 0.5  | ---    | ---   | ---           | < 0.5  | < 0.5  |
| 06/17/04                 | < 50                     | < 50          | < 0.5   | < 0.5   | < 0.5             | < 0.5            | < 0.5  | ---    | ---   | ---           | < 0.5  | < 0.5  |
| 09/17/04                 | < 50                     | --            | < 0.5   | < 0.5   | < 0.5             | < 0.5            | < 0.5  | ---    | ---   | ---           | ---    | ---    |
| 11/10/04***              | < 50                     | < 50          | < 0.5   | < 0.5   | < 0.5             | < 0.5            | < 5.0  | ---    | ---   | ---           | ---    | ---    |
| 12/17/04                 | < 50                     | < 50          | < 0.5   | < 0.5   | < 0.5             | < 0.5            | < 0.5  | ---    | ---   | ---           | < 0.5  | < 0.5  |
| 04/28/05                 | < 50                     | < 50          | < 0.5   | < 0.5   | < 0.5             | < 0.5            | < 0.5  | < 0.5  | < 0.5 | < 0.5         | < 0.5  | < 0.5  |
| 07/19/05                 | < 50                     | na            | < 0.5   | < 0.5   | < 0.5             | < 0.5            | < 0.5  | < 0.5  | < 5.0 | < 0.5         | < 0.5  | < 0.5  |
| 10/03/05                 | < 50                     | < 50          | < 0.5   | < 0.5   | < 0.5             | < 0.5            | < 0.5  | < 0.5  | < 5.0 | < 0.5         | < 0.5  | < 0.5  |
| 12/06/05                 | < 50                     | < 50          | < 0.5   | < 0.5   | < 0.5             | < 0.5            | < 5.0  | ---    | ---   | ---           | ---    | ---    |
| 03/15/06                 | < 50                     | < 50          | < 0.5   | < 0.5   | < 0.5             | < 0.5            | < 0.5  | < 0.5  | < 0.5 | < 0.5         | < 0.5  | < 0.5  |
| 06/28/06                 | < 50                     | < 50          | < 0.5   | < 0.5   | < 0.5             | 0.65             | < 0.5  | < 0.5  | < 5.0 | < 0.5         | < 0.5  | < 0.5  |
| 08/31/06                 | < 50                     | < 50          | < 0.50  | 2.4     | 0.90              | 4.0              | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 11/21/06                 | < 50                     | < 50          | < 0.5   | < 0.5   | < 0.5             | < 0.5            | < 5.0  | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 02/23/07                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 05/02/07                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 08/09/07                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 12/06/07                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 02/26/08                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 05/30/08                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 08/28/08                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | ---    | ---    |
| 12/11/08                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | ---    | ---    |
| 03/31/09                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 12/31/09                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 06/03/10                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 12/20/10                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 06/30/11                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 06/22/12                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 12/13/12                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 06/18/13                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 12/23/13                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50           | < 0.50 | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 06/30/14                 | No Longer Sampled        |               |         |         |                   |                  |        |        |       |               |        |        |
| 12/17/14                 | No Longer Sampled        |               |         |         |                   |                  |        |        |       |               |        |        |
| <b>06/23/15</b>          | <b>No Longer Sampled</b> |               |         |         |                   |                  |        |        |       |               |        |        |

**TABLE TWO**  
 Summary of Chemical Analysis of Groundwater Samples  
 Petroleum Hydrocarbon Concentrations  
 All results are in parts per billion

| Well/<br>Date<br>Sampled | TPH<br>Gasoline                    | TPH<br>Diesel | Benzene          | Toluene     | Ethyl-<br>benzene | Total<br>Xylenes | MTBE             | DIPE             | TBA        | Other<br>Oxys    | EDC              | EDB              |
|--------------------------|------------------------------------|---------------|------------------|-------------|-------------------|------------------|------------------|------------------|------------|------------------|------------------|------------------|
| <b>MW-7</b>              |                                    |               |                  |             |                   |                  |                  |                  |            |                  |                  |                  |
| 06/25/02                 | 38,000                             | < 2,000       | 890              | 5,100       | 1,200             | 5,200            | < 20             | ---              | ---        | ---              | < 20             | < 20             |
| 09/17/02                 | 26,000                             | < 2,000       | 590              | 3,600       | 880               | 4,000            | < 20             | ---              | ---        | ---              | < 20             | < 20             |
| 12/18/02                 | NOT SAMPLED - CAR PARKED OVER WELL |               |                  |             |                   |                  |                  |                  |            |                  |                  |                  |
| 03/25/03                 | 39,000                             | < 2,900       | 410              | 7,700       | 1,000             | 6,400            | < 5.0            | ---              | ---        | ---              | < 2.5            | < 2.5            |
| 06/23/03                 | 17,000                             | < 1,000       | 440              | 2,600       | 630               | 2,600            | < 10             | ---              | ---        | ---              | < 10             | < 10             |
| 09/26/03                 | 17,000                             | < 1,000       | 230              | 1,800       | 470               | 2,200            | < 5.0            | ---              | ---        | ---              | < 5.0            | < 5.0            |
| 12/18/03                 | 20,000                             | < 1,000       | 290              | 2,500       | 590               | 2,900            | < 5.0            | ---              | ---        | ---              | < 5.0            | < 5.0            |
| 03/12/04                 | 20,000                             | < 1,500       | 300              | 3,000       | 760               | 3,200            | < 10             | ---              | ---        | ---              | < 10             | < 10             |
| 06/17/04                 | 12,000                             | < 800         | 250              | 1,800       | 450               | 1,900            | < 5.0            | ---              | ---        | ---              | < 5.0            | < 5.0            |
| 09/17/04                 | 9,900                              | --            | 200              | 1,500       | 450               | 1,800            | < 5.0            | ---              | ---        | ---              | ---              | ---              |
| 11/10/04***              | 20,000                             | 1,900         | 550              | 4,200       | 920               | 4,000            | < 500            | ---              | ---        | ---              | ---              | ---              |
| 12/17/04                 | 14,000                             | < 800         | 220              | 1,700       | 530               | 2,000            | < 3.0            | ---              | ---        | ---              | < 3.0            | < 3.0            |
| 04/28/05                 | 13,000                             | < 300         | 84               | 1,000       | 660               | 2,200            | < 2.5            | < 2.5            | < 2.5      | < 2.5            | < 2.5            | < 2.5            |
| 07/19/05                 | 16,000                             | na            | 170              | 1,800       | 540               | 2,200            | < 2.5            | < 2.5            | < 5.0      | < 2.5            | < 2.5            | < 2.5            |
| 10/03/05                 | 7,400                              | < 200         | 140              | 710         | 350               | 1,100            | < 0.50           | < 0.50           | < 5.0      | < 0.50           | < 0.50           | < 0.50           |
| 12/06/05                 | 22,000                             | < 600         | 240              | 2,300       | 800               | 3,400            | < 5.0            | ---              | ---        | ---              | ---              | ---              |
| 03/15/06                 | 3,800                              | < 200         | 4.6              | 160         | 120               | 620              | < 0.50           | < 0.50           | < 5.0      | < 0.50           | < 0.50           | < 0.50           |
| 06/28/06                 | 6,400                              | < 500         | 19.0             | 340         | 490               | 940              | < 0.90           | < 0.50           | < 5.0      | < 0.50           | < 0.90           | < 0.90           |
| 08/31/06                 | 20,000                             | < 600         | 160              | 2,200       | 1,300             | 3,500            | < 2.5            | 1.4              | < 15       | < 5.0            | < 2.5            | < 2.5            |
| 11/21/06                 | 21,000                             | < 1,000       | 240              | 2,500       | 880               | 3,400            | < 5.0            | < 5.0            | < 25       | < 5.0            | < 5.0            | < 5.0            |
| 02/23/07                 | 10,000                             | < 200         | 150              | 1,300       | 580               | 2,400            | < 2.5            | < 2.5            | < 15       | < 2.5            | < 2.5            | < 2.5            |
| 05/02/07                 | 26,000                             | < 1,000       | 300              | 2,400       | 1,800             | 6,700            | < 2.5            | < 2.5            | < 50       | < 2.5            | < 2.5            | < 2.5            |
| 08/09/07                 | 13,000                             | < 800         | 250              | 800         | 1,000             | 3,000            | < 2.5            | < 2.5            | < 15       | < 2.5            | < 2.5            | < 2.5            |
| 12/06/07                 | 9,600                              | < 1,000       | 160              | 850         | 530               | 2,000            | < 2.5            | < 2.5            | 45         | < 2.5            | < 2.5            | < 2.5            |
| 02/26/08                 | 14,000                             | < 800         | 190              | 1,000       | 740               | 3,000            | < 2.5            | < 2.5            | 69         | < 2.5            | < 2.5            | < 2.5            |
| 05/30/08                 | 9,900                              | < 200         | 160              | 620         | 590               | 2,300            | < 2.5            | < 2.5            | < 15       | < 2.5            | < 2.5            | < 2.5            |
| 08/28/08                 | 11,000                             | < 800         | 180              | 500         | 650               | 2,400            | < 2.5            | < 2.5            | < 15       | < 2.5            | ---              | ---              |
| 12/11/08                 | 8,000                              | < 500         | 160              | 300         | 540               | 1,600            | < 2.5            | < 2.5            | < 15       | < 2.5            | ---              | ---              |
| 03/31/09                 | 5,600                              | < 300         | 82               | 190         | 360               | 1,000            | < 1.5            | < 1.5            | < 7.0      | < 1.5            | < 1.5            | < 1.5            |
| 12/31/09                 | 16,000                             | < 800         | 140              | 1,200       | 750               | 2,800            | < 0.5            | < 0.50           | 10         | < 0.50           | < 0.50           | < 0.50           |
| 06/03/10                 | 22,000                             | < 2,000       | 160              | 1,000       | 1,300             | 3,500            | < 5.0            | < 5.0            | < 25       | < 5.0            | < 5.0            | < 5.0            |
| 12/20/10                 | 23,000                             | < 1,000       | 230              | 820         | 1,500             | 4,900            | < 5.0            | < 5.0            | < 25       | < 5.0            | < 5.0            | < 5.0            |
| 06/30/11                 | 26,000                             | < 4,000       | 190              | 310         | 1,800             | 3,900            | < 5.0            | < 5.0            | < 25       | < 5.0            | < 5.0            | < 5.0            |
| 06/22/12                 | 10,000                             | < 600         | 120              | 52          | 1,100             | 310              | < 2.0            | < 2.0            | 43         | < 2.0            | < 2.0            | < 2.0            |
| 12/13/12                 | 16,000                             | 610           | 78               | 80          | 1,000             | 940              | < 2.5            | < 2.5            | < 15       | < 2.5            | < 2.5            | < 2.5            |
| 06/18/13                 | 6,000                              | 250           | 19               | 22          | 310               | 390              | < 0.90           | < 0.90           | 6.3        | < 0.90           | < 0.90           | < 0.90           |
| 12/23/13                 | 2,200                              | 290           | 6.8              | 5.2         | 15                | 78               | < 0.50           | < 0.50           | 10         | < 0.50           | < 0.50           | < 0.50           |
| 06/30/14                 | 2,700                              | 380           | 12               | 7.3         | 83                | 63               | < 0.50           | < 0.50           | 32         | < 0.50           | < 0.50           | < 0.50           |
| 12/17/14                 | 3,300                              | 700           | 3.0              | 8.3         | 31                | 200              | < 0.50           | < 0.50           | 14         | < 0.50           | < 0.50           | < 0.50           |
| <b>06/23/15</b>          | <b>440</b>                         | <b>180</b>    | <b>&lt; 0.50</b> | <b>0.50</b> | <b>2.7</b>        | <b>4.9</b>       | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> | <b>5.3</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> | <b>&lt; 0.50</b> |

**TABLE TWO**  
 Summary of Chemical Analysis of Groundwater Samples  
 Petroleum Hydrocarbon Concentrations  
 All results are in parts per billion

| Well/<br>Date<br>Sampled | TPH<br>Gasoline          | TPH<br>Diesel | Benzene | Toluene | Ethyl-<br>benzene | Xylenes | Total<br>MTBE | DIPE   | TBA   | Other<br>Oxys | EDC    | EDB    |
|--------------------------|--------------------------|---------------|---------|---------|-------------------|---------|---------------|--------|-------|---------------|--------|--------|
| <b>MW-8</b>              |                          |               |         |         |                   |         |               |        |       |               |        |        |
| 02/26/08                 | < 50                     | < 50          | 0.51    | < 0.50  | < 0.50            | < 0.50  | < 0.50        | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 05/30/08                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50  | < 0.50        | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 08/28/08                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50  | < 0.50        | < 0.50 | < 5.0 | < 0.50        | ---    | ---    |
| 12/11/08                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50  | < 0.50        | < 0.50 | < 5.0 | < 0.50        | ---    | ---    |
| 03/31/09                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50  | < 0.50        | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 12/31/09                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50  | < 0.50        | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 06/03/10                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50  | < 0.50        | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 12/20/10                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50  | < 0.50        | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 06/30/11                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50  | < 0.50        | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 06/22/12                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50  | < 0.50        | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 12/13/12                 | < 50                     | 56            | < 0.50  | < 0.50  | < 0.50            | < 0.50  | < 0.50        | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 06/18/13                 | < 50                     | 83            | < 0.50  | < 0.50  | < 0.50            | < 0.50  | < 0.50        | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 12/23/13                 | < 50                     | < 50          | < 0.50  | < 0.50  | < 0.50            | < 0.50  | < 0.50        | < 0.50 | < 5.0 | < 0.50        | < 0.50 | < 0.50 |
| 06/30/14                 | No Longer Sampled        |               |         |         |                   |         |               |        |       |               |        |        |
| 12/17/14                 | No Longer Sampled        |               |         |         |                   |         |               |        |       |               |        |        |
| <b>06/23/15</b>          | <b>No Longer Sampled</b> |               |         |         |                   |         |               |        |       |               |        |        |
| ESL                      | 100                      | 100           | 1       | 40      | 30                | 20      | 5             | NE     | 12    | NE            | 0.5    | 0.05   |

Notes:

\* = Hydrocarbons reported are in the early diesel range, and do not match the laboratory standards.

\*\* = Hydrocarbons reported do not match the laboratory gasoline standard.

\*\*\*= Grab sample - Not purged

# = Estimated concentration reported due to overlapping fuel patterns.

/ = Results separated by a slash represent results from two different laboratory methods (8020/8260)

na = not analyzed

Non-detectable concentrations noted by the less than sign (<) followed by the detection limit.

Most recent data in bold.

ESL = Environmental screening levels presented in the "Screening For Environmental Concerns

at Sites With Contaminated Soil and Groundwater (December 2013)" document prepared by the California

Regional Water Quality Control Board, San Francisco Bay Region.

TPH = Total petroleum hydrocarbons

EDC = 1,2-Dichloroethane

MTBE = Methyl tertiary butyl ether

EDB = 1,2-Dibromoethane

DIPE = Diisopropyl ether

TBA = Tery-butanol

Oxy = Oxygenates



Aqua Science Engineers, Inc. 55 Oak Court, Suite 220, Danville, CA 94526  
(925) 820-9391 - Fax (925) 837-4853 - [www.aquascienceengineers.com](http://www.aquascienceengineers.com)

## **APPENDIX A**

### **Well Sampling Field Log**

# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

|   |                       |                           |            |
|---|-----------------------|---------------------------|------------|
| PROJECT NAME  | LIM                   |                           |            |
| JOB NUMBER  | 2808                  | DATE OF SAMPLING          | 6/23/15    |
| WELL ID.  | MW- 1                 | SAMPLER                   | RK/DA      |
| TOTAL DEPTH OF WELL   | 26.80                 | WELL DIAMETER             | 2"         |
| DEPTH TO WATER PRIOR TO PURGING                               | 19.12                 | TIME OF MEASUREMENT       |            |
| PRODUCT THICKNESS   | 0                     |                           |            |
| DEPTH OF WELL CASING IN WATER                                 | 7.68                  |                           |            |
| NUMBER OF GALLONS PER WELL CASING VOLUME                      | 1.3                   |                           |            |
| NUMBER OF WELL CASING VOLUMES TO BE REMOVED                   | 3                     |                           |            |
| REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING | 3.9 gal               |                           |            |
| EQUIPMENT USED TO PURGE WELL                                  | NEW DISPOSABLE BAILER |                           |            |
| TIME EVACUATION STARTED                                       | 1240                  | TIME EVACUATION COMPLETED | 1300       |
| TIME SAMPLES WERE COLLECTED                                   | 1310                  |                           |            |
| DID WELL GO DRY   | No                    | AFTER HOW MANY GALLONS    | NA         |
| VOLUME OF GROUNDWATER PURGED                                  | 4                     |                           |            |
| SAMPLING DEVICE   | NEW DISPOSABLE BAILER |                           |            |
| SAMPLE COLOR  | light brown           | ODOR/SEDIMENT             | no / light |

### CHEMICAL DATA

| VOLUME PURGED | TEMPERATURE | pH  | CONDUCTIVITY |
|---------------|-------------|-----|--------------|
| 1             | 21.5        | 6.1 | 220          |
| 2             | 21.3        | 6.2 | 210          |
| 3             | 20.8        | 6.2 | 210          |

### SAMPLES COLLECTED

| SAMPLE | # OF CONTAINERS | SIZE AND TYPE OF CONTAINER | ANALYSIS  | PRESERVED |
|--------|-----------------|----------------------------|-----------|-----------|
| MW- 1  | 5               | 40ML VOAs                  | 8015/8260 | HCl       |
|        |                 |                            |           |           |
|        |                 |                            |           |           |

# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

|   |                              |                           |         |
|---|------------------------------|---------------------------|---------|
| PROJECT NAME  | LIM                          |                           |         |
| JOB NUMBER  | 2808                         | DATE OF SAMPLING          | 6/23/15 |
| WELL ID.  | MW- 2                        | SAMPLER                   | RK/DA   |
| TOTAL DEPTH OF WELL   | 26.80                        | WELL DIAMETER             | 2"      |
| DEPTH TO WATER PRIOR TO PURGING                               | 18.57                        | TIME OF MEASUREMENT       |         |
| PRODUCT THICKNESS   |                              |                           |         |
| DEPTH OF WELL CASING IN WATER                                 | 8-23                         |                           |         |
| NUMBER OF GALLONS PER WELL CASING VOLUME                      | 1.4                          |                           |         |
| NUMBER OF WELL CASING VOLUMES TO BE REMOVED                   | 3                            |                           |         |
| REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING | 4.2 gal                      |                           |         |
| EQUIPMENT USED TO PURGE WELL                                  | NEW DISPOSABLE BAILER        |                           |         |
| TIME EVACUATION STARTED                                       | 800                          | TIME EVACUATION COMPLETED | 820     |
| TIME SAMPLES WERE COLLECTED                                   | 830                          |                           |         |
| DID WELL GO DRY   | No                           | AFTER HOW MANY GALLONS    | —       |
| VOLUME OF GROUNDWATER PURGED                                  | 4.5 gal                      |                           |         |
| SAMPLING DEVICE   | NEW DISPOSABLE BAILER        |                           |         |
| SAMPLE COLOR  | None                         |                           |         |
|   | ODOR/SEDIMENT Mod. hc / none |                           |         |

### CHEMICAL DATA

| VOLUME PURGED | TEMPERATURE | PH  | CONDUCTIVITY |
|---------------|-------------|-----|--------------|
| 1             | 20.5        | 6.4 | 610          |
| 2             | 20.6        | 6.5 | 580          |
| 3             | 20.6        | 6.5 | 580          |

### SAMPLES COLLECTED

| SAMPLE | # OF CONTAINERS | SIZE AND TYPE OF CONTAINER | ANALYSIS  | PRESERVED |
|--------|-----------------|----------------------------|-----------|-----------|
| MW- 2  | 5               | 40ML VOAs                  | 8015/8260 | HCl       |
|        |                 |                            |           |           |
|        |                 |                            |           |           |

# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

|   |                       |                           |                                  |
|---|-----------------------|---------------------------|----------------------------------|
| PROJECT NAME  | LIM                   |                           |                                  |
| JOB NUMBER  | 2808                  | DATE OF SAMPLING          | 6/23/15                          |
| WELL ID.  | MW- 3                 | SAMPLER                   | RK/DA                            |
| TOTAL DEPTH OF WELL   | 30.0                  | WELL DIAMETER             | 2"                               |
| DEPTH TO WATER PRIOR TO PURGING                               | 17.41                 | TIME OF MEASUREMENT       |                                  |
| PRODUCT THICKNESS   |                       |                           |                                  |
| DEPTH OF WELL CASING IN WATER                                 | 12.39                 |                           |                                  |
| NUMBER OF GALLONS PER WELL CASING VOLUME                      | 2.1                   |                           |                                  |
| NUMBER OF WELL CASING VOLUMES TO BE REMOVED                   | 3                     |                           |                                  |
| REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING | C-3 gal               |                           |                                  |
| EQUIPMENT USED TO PURGE WELL                                  | NEW DISPOSABLE BAILER |                           |                                  |
| TIME EVACUATION STARTED                                       | 1120                  | TIME EVACUATION COMPLETED | 1145                             |
| TIME SAMPLES WERE COLLECTED                                   | 1150                  |                           |                                  |
| DID WELL GO DRY   | No                    | AFTER HOW MANY GALLONS    | —                                |
| VOLUME OF GROUNDWATER PURGED                                  | 63 gal                |                           |                                  |
| SAMPLING DEVICE   | NEW DISPOSABLE BAILER |                           |                                  |
| SAMPLE COLOR  | brown                 | ODOR/SEDIMENT             | Very Strong H2S / black sediment |

### CHEMICAL DATA

| VOLUME PURGED | TEMPERATURE | PH | CONDUCTIVITY |
|---------------|-------------|----|--------------|
| 1             |             |    |              |
|               |             |    |              |
|               |             |    |              |

### SAMPLES COLLECTED

| SAMPLE | # OF CONTAINERS | SIZE AND TYPE OF CONTAINER | ANALYSIS  | PRESERVED |
|--------|-----------------|----------------------------|-----------|-----------|
| MW- 3  | 5               | 40ML VOAs                  | 8015/8260 | H2S       |
|        |                 |                            |           |           |
|        |                 |                            |           |           |

# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

|   |                       |                           |         |
|---|-----------------------|---------------------------|---------|
| PROJECT NAME  | LIM                   |                           |         |
| JOB NUMBER  | 2808                  | DATE OF SAMPLING          | 6/23/15 |
| WELL ID.  | MW- 4R                | SAMPLER                   | RK/DA   |
| TOTAL DEPTH OF WELL   | 28.0                  | WELL DIAMETER             | 4"      |
| DEPTH TO WATER PRIOR TO PURGING                               | 18.35                 | TIME OF MEASUREMENT       |         |
| PRODUCT THICKNESS   |                       |                           |         |
| DEPTH OF WELL CASING IN WATER                                 | 9.65                  |                           |         |
| NUMBER OF GALLONS PER WELL CASING VOLUME                      | 15 gal                | 6.43                      |         |
| NUMBER OF WELL CASING VOLUMES TO BE REMOVED                   | 3                     |                           |         |
| REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING | 19.3 gal              | 19.3                      |         |
| EQUIPMENT USED TO PURGE WELL                                  | NEW DISPOSABLE BAILER |                           |         |
| TIME EVACUATION STARTED                                       | 9:00                  | TIME EVACUATION COMPLETED | 9:20    |
| TIME SAMPLES WERE COLLECTED                                   | 9:25                  |                           |         |
| DID WELL GO DRY   | NO                    | AFTER HOW MANY GALLONS    | —       |
| VOLUME OF GROUNDWATER PURGED                                  | 5.0 gal               |                           |         |
| SAMPLING DEVICE   | NEW DISPOSABLE BAILER |                           |         |
| SAMPLE COLOR  | light yellow brown    | ODOR/SEDIMENT             | 1:1     |

### CHEMICAL DATA

| VOLUME PURGED | TEMPERATURE | PH  | CONDUCTIVITY |
|---------------|-------------|-----|--------------|
| 1             | 20.9        | 6.4 | 290          |
| 2             | 21.6        | 6.5 | 320          |
| 3             | 21.6        | 6.5 | 330          |

### SAMPLES COLLECTED

| SAMPLE | # OF CONTAINERS | SIZE AND TYPE OF CONTAINER | ANALYSIS  | PRESERVED |
|--------|-----------------|----------------------------|-----------|-----------|
| MW- 4R | 5               | 40ML VOAs                  | 8015/8260 | HCl       |
|        |                 |                            |           |           |
|        |                 |                            |           |           |

# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

|   |                       |                           |                    |
|---|-----------------------|---------------------------|--------------------|
| PROJECT NAME  | LIM                   |                           |                    |
| JOB NUMBER  | 2808                  | DATE OF SAMPLING          | 6/23/15            |
| WELL ID.  | MW- 5                 | SAMPLER                   | RK/DA              |
| TOTAL DEPTH OF WELL   | 29.6                  | WELL DIAMETER             | 2"                 |
| DEPTH TO WATER PRIOR TO PURGING                               | 18.12                 | TIME OF MEASUREMENT       | 6:30               |
| PRODUCT THICKNESS   |                       |                           |                    |
| DEPTH OF WELL CASING IN WATER                                 | 16.48                 |                           |                    |
| NUMBER OF GALLONS PER WELL CASING VOLUME                      | 2.0                   |                           |                    |
| NUMBER OF WELL CASING VOLUMES TO BE REMOVED                   | 3                     |                           |                    |
| REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING | 6.0 gal               |                           |                    |
| EQUIPMENT USED TO PURGE WELL                                  | NEW DISPOSABLE BAILER |                           |                    |
| TIME EVACUATION STARTED                                       | 7:00                  | TIME EVACUATION COMPLETED | 7:25               |
| TIME SAMPLES WERE COLLECTED                                   | 7:30                  |                           |                    |
| DID WELL GO DRY   | No                    | AFTER HOW MANY GALLONS    | —                  |
| VOLUME OF GROUNDWATER PURGED                                  | 6.0 gal               |                           |                    |
| SAMPLING DEVICE   | NEW DISPOSABLE BAILER |                           |                    |
| SAMPLE COLOR  | slight yellow brown   | ODOR/SEDIMENT             | none / slight silt |

### CHEMICAL DATA

| VOLUME PURGED | TEMPERATURE | PH  | CONDUCTIVITY |
|---------------|-------------|-----|--------------|
| 1             | 19.8        | 6.3 | 500          |
| 2             | 19.7        | 6.2 | 470          |
| 3             | 19.7        | 6.2 | 470          |

### SAMPLES COLLECTED

| SAMPLE | # OF CONTAINERS | SIZE AND TYPE OF CONTAINER | ANALYSIS  | PRESERVED |
|--------|-----------------|----------------------------|-----------|-----------|
| MW- 5  | 5               | 40ML VOAs                  | 8015/8260 | HCl       |
|        |                 |                            |           |           |
|        |                 |                            |           |           |

# AQUA SCIENCE ENGINEERS

## WELL SAMPLING FIELD LOG

|   |                       |                           |                  |
|---|-----------------------|---------------------------|------------------|
| PROJECT NAME  | LIM                   |                           |                  |
| JOB NUMBER  | 2808                  | DATE OF SAMPLING          | 6/23/15          |
| WELL ID.  | MW-7                  | SAMPLER                   | RK/DA            |
| TOTAL DEPTH OF WELL   | 28.0                  | WELL DIAMETER             | 2"               |
| DEPTH TO WATER PRIOR TO PURGING                               | 18.75                 | TIME OF MEASUREMENT       |                  |
| PRODUCT THICKNESS   |                       |                           |                  |
| DEPTH OF WELL CASING IN WATER                                 | 9.25                  |                           |                  |
| NUMBER OF GALLONS PER WELL CASING VOLUME                      | 1.5                   |                           |                  |
| NUMBER OF WELL CASING VOLUMES TO BE REMOVED                   | 3                     |                           |                  |
| REQUIRED VOLUME OF GROUNDWATER TO BE PURGED PRIOR TO SAMPLING | 4.5 gal               |                           |                  |
| EQUIPMENT USED TO PURGE WELL                                  | NEW DISPOSABLE BAILER |                           |                  |
| TIME EVACUATION STARTED                                       | 10:10                 | TIME EVACUATION COMPLETED | 10:30            |
| TIME SAMPLES WERE COLLECTED                                   | 10:35                 |                           |                  |
| DID WELL GO DRY   | No                    | AFTER HOW MANY GALLONS    | —                |
| VOLUME OF GROUNDWATER PURGED                                  | 4.5 gal               |                           |                  |
| SAMPLING DEVICE   | NEW DISPOSABLE BAILER |                           |                  |
| SAMPLE COLOR  | None                  | ODOR/SEDIMENT             | slight hc / none |

### CHEMICAL DATA

| VOLUME PURGED | TEMPERATURE | PH  | CONDUCTIVITY |
|---------------|-------------|-----|--------------|
| 1             | 20.2        | 6.5 | 260          |
| 2             | 20.3        | 6.5 | 260          |
| 3             | 20.3        | 6.5 | 260          |

### SAMPLES COLLECTED

| SAMPLE | # OF CONTAINERS | SIZE AND TYPE OF CONTAINER | ANALYSIS  | PRESERVED |
|--------|-----------------|----------------------------|-----------|-----------|
| MW-7   | 5               | 40ML VOAs                  | 8015/8260 | HCl       |
|        |                 |                            |           |           |
|        |                 |                            |           |           |



Aqua Science Engineers, Inc. 55 Oak Court, Suite 220, Danville, CA 94526  
(925) 820-9391 - Fax (925) 837-4853 - [www.aquascienceengineers.com](http://www.aquascienceengineers.com)

## **APPENDIX B**

Certified Analytical Report  
and  
Chain of Custody Documentation



# McCampbell Analytical, Inc.

"When Quality Counts"

## Analytical Report

**WorkOrder:** 1506B89

**Report Created for:** Aqua Science Engineers, Inc.

55 Oak Court Suite 220  
Danville, CA 94526

**Project Contact:** Robert Kitay

**Project P.O.:**

**Project Name:** #2808; Lim

**Project Received:** 06/26/2015

Analytical Report reviewed & approved for release on 07/06/2015 by:

Angela Rydelius,  
Laboratory Manager

*The report shall not be reproduced except in full, without the written approval of the laboratory.  
The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.*





## Glossary of Terms & Qualifier Definitions

**Client:** Aqua Science Engineers, Inc.  
**Project:** #2808; Lim  
**WorkOrder:** 1506B89

### Glossary Abbreviation

|              |  |
|--------------|--|
| 95% Interval | 95% Confident Interval   |
| DF           | Dilution Factor  |
| DI WET       | (DISTLC) Waste Extraction Test using DI water  |
| DISS         | Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)               |
| DUP          | Duplicate  |
| EDL          | Estimated Detection Limit  |
| ITEF         | International Toxicity Equivalence Factor  |
| LCS          | Laboratory Control Sample  |
| MB           | Method Blank   |
| MB % Rec     | % Recovery of Surrogate in Method Blank, if applicable                                   |
| MDL          | Method Detection Limit   |
| ML           | Minimum Level of Quantitation  |
| MS           | Matrix Spike   |
| MSD          | Matrix Spike Duplicate   |
| N/A          | Not Applicable   |
| ND           | Not detected at or above the indicated MDL or RL   |
| NR           | Data Not Reported due to matrix interference or insufficient sample amount.              |
| PF           | Prep Factor  |
| RD           | Relative Difference  |
| RL           | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD          | Relative Percent Deviation   |
| RRT          | Relative Retention Time  |
| SPK Val      | Spike Value  |
| SPKRef Val   | Spike Reference Value  |
| SPLP         | Synthetic Precipitation Leachate Procedure   |
| TCLP         | Toxicity Characteristic Leachate Procedure   |
| TEQ          | Toxicity Equivalents   |
| WET (STLC)   | Waste Extraction Test (Soluble Threshold Limit Concentration)                            |

### Analytical Qualifiers

|        |  |
|--------|--|
| a3     | sample diluted due to high organic content.  |
| b1     | aqueous sample that contains greater than ~1 vol. % sediment                       |
| b6     | lighter than water immiscible sheen/product is present                             |
| e2     | diesel range compounds are significant; no recognizable pattern                    |
| e3     | aged diesel is significant   |
| e4     | gasoline range compounds are significant.  |
| e11/e8 | stoddard solvent/mineral spirit (?); and/or kerosene/kerosene range/jet fuel range |
| e11    | stoddard solvent/mineral spirit (?)  |



## Analytical Report

**Client:** Aqua Science Engineers, Inc.  
**Project:** #2808; Lim  
**Date Received:** 6/26/15 21:15  
**Date Prepared:** 7/2/15-7/3/15

**WorkOrder:** 1506B89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Oxygenates, MBTEX & Lead Scavengers by GC/MS

| Client ID                     | Lab ID         | Matrix | Date Collected   | Instrument | Batch ID             |
|-------------------------------|----------------|--------|------------------|------------|----------------------|
| MW-1                          | 1506B89-001B   | Water  | 06/23/2015 13:10 | GC10       | 107169               |
| <u>Analytes</u>               | <u>Result</u>  |        | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| tert-Amyl methyl ether (TAME) | ND             |        | 0.50             | 1          | 07/02/2015 12:33     |
| Benzene                       | <b>3.2</b>     |        | 0.50             | 1          | 07/02/2015 12:33     |
| t-Butyl alcohol (TBA)         | <b>2.2</b>     |        | 2.0              | 1          | 07/02/2015 12:33     |
| 1,2-Dibromoethane (EDB)       | ND             |        | 0.50             | 1          | 07/02/2015 12:33     |
| 1,2-Dichloroethane (1,2-DCA)  | ND             |        | 0.50             | 1          | 07/02/2015 12:33     |
| Diisopropyl ether (DIPE)      | ND             |        | 0.50             | 1          | 07/02/2015 12:33     |
| Ethylbenzene                  | ND             |        | 0.50             | 1          | 07/02/2015 12:33     |
| Ethyl tert-butyl ether (ETBE) | ND             |        | 0.50             | 1          | 07/02/2015 12:33     |
| Methyl-t-butyl ether (MTBE)   | ND             |        | 0.50             | 1          | 07/02/2015 12:33     |
| Toluene                       | ND             |        | 0.50             | 1          | 07/02/2015 12:33     |
| Xylenes, Total                | <b>0.92</b>    |        | 0.50             | 1          | 07/02/2015 12:33     |
| <u>Surrogates</u>             | <u>REC (%)</u> |        | <u>Limits</u>    |            |                      |
| Dibromofluoromethane          | 110            |        | 70-130           |            | 07/02/2015 12:33     |
| Toluene-d8                    | 93             |        | 70-130           |            | 07/02/2015 12:33     |

Analyst(s): KF

| Client ID                     | Lab ID         | Matrix | Date Collected   | Instrument | Batch ID             |
|-------------------------------|----------------|--------|------------------|------------|----------------------|
| MW-2                          | 1506B89-002B   | Water  | 06/23/2015 08:30 | GC10       | 107169               |
| <u>Analytes</u>               | <u>Result</u>  |        | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| tert-Amyl methyl ether (TAME) | ND             |        | 250              | 500        | 07/03/2015 00:02     |
| Benzene                       | <b>7800</b>    |        | 250              | 500        | 07/03/2015 00:02     |
| t-Butyl alcohol (TBA)         | ND             |        | 1000             | 500        | 07/03/2015 00:02     |
| 1,2-Dibromoethane (EDB)       | ND             |        | 250              | 500        | 07/03/2015 00:02     |
| 1,2-Dichloroethane (1,2-DCA)  | ND             |        | 250              | 500        | 07/03/2015 00:02     |
| Diisopropyl ether (DIPE)      | ND             |        | 250              | 500        | 07/03/2015 00:02     |
| Ethylbenzene                  | ND             |        | 250              | 500        | 07/03/2015 00:02     |
| Ethyl tert-butyl ether (ETBE) | ND             |        | 250              | 500        | 07/03/2015 00:02     |
| Methyl-t-butyl ether (MTBE)   | ND             |        | 250              | 500        | 07/03/2015 00:02     |
| Toluene                       | ND             |        | 250              | 500        | 07/03/2015 00:02     |
| Xylenes, Total                | <b>560</b>     |        | 250              | 500        | 07/03/2015 00:02     |
| <u>Surrogates</u>             | <u>REC (%)</u> |        | <u>Limits</u>    |            |                      |
| Dibromofluoromethane          | 110            |        | 70-130           |            | 07/03/2015 00:02     |
| Toluene-d8                    | 94             |        | 70-130           |            | 07/03/2015 00:02     |

Analyst(s): KF

Analytical Comments: b1

(Cont.)



## Analytical Report

**Client:** Aqua Science Engineers, Inc.  
**Project:** #2808; Lim  
**Date Received:** 6/26/15 21:15  
**Date Prepared:** 7/2/15-7/3/15

**WorkOrder:** 1506B89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Oxygenates, MBTEX & Lead Scavengers by GC/MS

| Client ID                     | Lab ID         | Matrix | Date Collected   | Instrument | Batch ID             |
|-------------------------------|----------------|--------|------------------|------------|----------------------|
| MW-3                          | 1506B89-003B   | Water  | 06/23/2015 11:50 | GC10       | 107169               |
| <u>Analytes</u>               | <u>Result</u>  |        | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| tert-Amyl methyl ether (TAME) | ND             |        | 50               | 100        | 07/02/2015 15:59     |
| Benzene                       | 3500           |        | 50               | 100        | 07/02/2015 15:59     |
| t-Butyl alcohol (TBA)         | 420            |        | 200              | 100        | 07/02/2015 15:59     |
| 1,2-Dibromoethane (EDB)       | ND             |        | 50               | 100        | 07/02/2015 15:59     |
| 1,2-Dichloroethane (1,2-DCA)  | ND             |        | 50               | 100        | 07/02/2015 15:59     |
| Diisopropyl ether (DIPE)      | ND             |        | 50               | 100        | 07/02/2015 15:59     |
| Ethylbenzene                  | 580            |        | 50               | 100        | 07/02/2015 15:59     |
| Ethyl tert-butyl ether (ETBE) | ND             |        | 50               | 100        | 07/02/2015 15:59     |
| Methyl-t-butyl ether (MTBE)   | ND             |        | 50               | 100        | 07/02/2015 15:59     |
| Toluene                       | 390            |        | 50               | 100        | 07/02/2015 15:59     |
| Xylenes, Total                | 4600           |        | 50               | 100        | 07/02/2015 15:59     |
| <u>Surrogates</u>             | <u>REC (%)</u> |        | <u>Limits</u>    |            |                      |
| Dibromofluoromethane          | 111            |        | 70-130           |            | 07/02/2015 15:59     |
| Toluene-d8                    | 92             |        | 70-130           |            | 07/02/2015 15:59     |

Analyst(s): KF

Analytical Comments: b6

| Client ID                     | Lab ID         | Matrix | Date Collected   | Instrument | Batch ID             |
|-------------------------------|----------------|--------|------------------|------------|----------------------|
| MW-4R                         | 1506B89-004B   | Water  | 06/23/2015 09:25 | GC10       | 107169               |
| <u>Analytes</u>               | <u>Result</u>  |        | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| tert-Amyl methyl ether (TAME) | ND             |        | 0.50             | 1          | 07/02/2015 16:40     |
| Benzene                       | ND             |        | 0.50             | 1          | 07/02/2015 16:40     |
| t-Butyl alcohol (TBA)         | ND             |        | 2.0              | 1          | 07/02/2015 16:40     |
| 1,2-Dibromoethane (EDB)       | ND             |        | 0.50             | 1          | 07/02/2015 16:40     |
| 1,2-Dichloroethane (1,2-DCA)  | ND             |        | 0.50             | 1          | 07/02/2015 16:40     |
| Diisopropyl ether (DIPE)      | ND             |        | 0.50             | 1          | 07/02/2015 16:40     |
| Ethylbenzene                  | ND             |        | 0.50             | 1          | 07/02/2015 16:40     |
| Ethyl tert-butyl ether (ETBE) | ND             |        | 0.50             | 1          | 07/02/2015 16:40     |
| Methyl-t-butyl ether (MTBE)   | ND             |        | 0.50             | 1          | 07/02/2015 16:40     |
| Toluene                       | ND             |        | 0.50             | 1          | 07/02/2015 16:40     |
| Xylenes, Total                | ND             |        | 0.50             | 1          | 07/02/2015 16:40     |
| <u>Surrogates</u>             | <u>REC (%)</u> |        | <u>Limits</u>    |            |                      |
| Dibromofluoromethane          | 111            |        | 70-130           |            | 07/02/2015 16:40     |
| Toluene-d8                    | 94             |        | 70-130           |            | 07/02/2015 16:40     |

Analyst(s): KF

Analytical Comments: b1

(Cont.)



## Analytical Report

**Client:** Aqua Science Engineers, Inc.  
**Project:** #2808; Lim  
**Date Received:** 6/26/15 21:15  
**Date Prepared:** 7/2/15-7/3/15

**WorkOrder:** 1506B89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### Oxygenates, MBTEX & Lead Scavengers by GC/MS

| Client ID                     | Lab ID         | Matrix | Date Collected   | Instrument | Batch ID             |
|-------------------------------|----------------|--------|------------------|------------|----------------------|
| MW-5                          | 1506B89-005B   | Water  | 06/23/2015 07:30 | GC10       | 107169               |
| <u>Analytes</u>               | <u>Result</u>  |        | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| tert-Amyl methyl ether (TAME) | ND             |        | 0.50             | 1          | 07/02/2015 17:21     |
| Benzene                       | ND             |        | 0.50             | 1          | 07/02/2015 17:21     |
| t-Butyl alcohol (TBA)         | ND             |        | 2.0              | 1          | 07/02/2015 17:21     |
| 1,2-Dibromoethane (EDB)       | ND             |        | 0.50             | 1          | 07/02/2015 17:21     |
| 1,2-Dichloroethane (1,2-DCA)  | ND             |        | 0.50             | 1          | 07/02/2015 17:21     |
| Diisopropyl ether (DIPE)      | <b>0.53</b>    |        | 0.50             | 1          | 07/02/2015 17:21     |
| Ethylbenzene                  | ND             |        | 0.50             | 1          | 07/02/2015 17:21     |
| Ethyl tert-butyl ether (ETBE) | ND             |        | 0.50             | 1          | 07/02/2015 17:21     |
| Methyl-t-butyl ether (MTBE)   | ND             |        | 0.50             | 1          | 07/02/2015 17:21     |
| Toluene                       | ND             |        | 0.50             | 1          | 07/02/2015 17:21     |
| Xylenes, Total                | ND             |        | 0.50             | 1          | 07/02/2015 17:21     |
| <u>Surrogates</u>             | <u>REC (%)</u> |        | <u>Limits</u>    |            |                      |
| Dibromofluoromethane          | 110            |        | 70-130           |            | 07/02/2015 17:21     |
| Toluene-d8                    | 94             |        | 70-130           |            | 07/02/2015 17:21     |

Analyst(s): KF

| Client ID                     | Lab ID         | Matrix | Date Collected   | Instrument | Batch ID             |
|-------------------------------|----------------|--------|------------------|------------|----------------------|
| MW-7                          | 1506B89-006B   | Water  | 06/23/2015 10:35 | GC10       | 107169               |
| <u>Analytes</u>               | <u>Result</u>  |        | <u>RL</u>        | <u>DF</u>  | <u>Date Analyzed</u> |
| tert-Amyl methyl ether (TAME) | ND             |        | 0.50             | 1          | 07/02/2015 18:02     |
| Benzene                       | ND             |        | 0.50             | 1          | 07/02/2015 18:02     |
| t-Butyl alcohol (TBA)         | <b>5.3</b>     |        | 2.0              | 1          | 07/02/2015 18:02     |
| 1,2-Dibromoethane (EDB)       | ND             |        | 0.50             | 1          | 07/02/2015 18:02     |
| 1,2-Dichloroethane (1,2-DCA)  | ND             |        | 0.50             | 1          | 07/02/2015 18:02     |
| Diisopropyl ether (DIPE)      | ND             |        | 0.50             | 1          | 07/02/2015 18:02     |
| Ethylbenzene                  | <b>2.7</b>     |        | 0.50             | 1          | 07/02/2015 18:02     |
| Ethyl tert-butyl ether (ETBE) | ND             |        | 0.50             | 1          | 07/02/2015 18:02     |
| Methyl-t-butyl ether (MTBE)   | ND             |        | 0.50             | 1          | 07/02/2015 18:02     |
| Toluene                       | <b>0.50</b>    |        | 0.50             | 1          | 07/02/2015 18:02     |
| Xylenes, Total                | <b>4.9</b>     |        | 0.50             | 1          | 07/02/2015 18:02     |
| <u>Surrogates</u>             | <u>REC (%)</u> |        | <u>Limits</u>    |            |                      |
| Dibromofluoromethane          | 112            |        | 70-130           |            | 07/02/2015 18:02     |
| Toluene-d8                    | 93             |        | 70-130           |            | 07/02/2015 18:02     |

Analyst(s): KF

Analytical Comments: b1



## Analytical Report

**Client:** Aqua Science Engineers, Inc.  
**Project:** #2808; Lim  
**Date Received:** 6/26/15 21:15  
**Date Prepared:** 7/2/15

**WorkOrder:** 1506B89  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L

### TPH(g) by Purge & Trap and GC/MS

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-1      | 1506B89-001B | Water  | 06/23/2015 13:10 | GC10       | 107169   |

|                      |                |               |           |                      |
|----------------------|----------------|---------------|-----------|----------------------|
| <u>Analytes</u>      | <u>Result</u>  | <u>RL</u>     | <u>DF</u> | <u>Date Analyzed</u> |
| TPH(g)               | 380            | 50            | 1         | 07/02/2015 12:33     |
| <u>Surrogates</u>    | <u>REC (%)</u> | <u>Limits</u> |           |                      |
| Dibromofluoromethane | 104            | 70-130        |           | 07/02/2015 12:33     |
| <u>Analyst(s):</u>   | KF             |               |           |                      |

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-2      | 1506B89-002B | Water  | 06/23/2015 08:30 | GC10       | 107169   |

|                                |                |               |           |                      |
|--------------------------------|----------------|---------------|-----------|----------------------|
| <u>Analytes</u>                | <u>Result</u>  | <u>RL</u>     | <u>DF</u> | <u>Date Analyzed</u> |
| TPH(g)                         | 17,000         | 5000          | 100       | 07/02/2015 15:17     |
| <u>Surrogates</u>              | <u>REC (%)</u> | <u>Limits</u> |           |                      |
| Dibromofluoromethane           | 103            | 70-130        |           | 07/02/2015 15:17     |
| <u>Analyst(s):</u>             | KF             |               |           |                      |
| <u>Analytical Comments:</u> b1 |                |               |           |                      |

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-3      | 1506B89-003B | Water  | 06/23/2015 11:50 | GC10       | 107169   |

|                                |                |               |           |                      |
|--------------------------------|----------------|---------------|-----------|----------------------|
| <u>Analytes</u>                | <u>Result</u>  | <u>RL</u>     | <u>DF</u> | <u>Date Analyzed</u> |
| TPH(g)                         | 27,000         | 5000          | 100       | 07/02/2015 15:59     |
| <u>Surrogates</u>              | <u>REC (%)</u> | <u>Limits</u> |           |                      |
| Dibromofluoromethane           | 105            | 70-130        |           | 07/02/2015 15:59     |
| <u>Analyst(s):</u>             | KF             |               |           |                      |
| <u>Analytical Comments:</u> b1 |                |               |           |                      |

| Client ID | Lab ID       | Matrix | Date Collected   | Instrument | Batch ID |
|-----------|--------------|--------|------------------|------------|----------|
| MW-4R     | 1506B89-004B | Water  | 06/23/2015 09:25 | GC10       | 107169   |

|                                |                |               |           |                      |
|--------------------------------|----------------|---------------|-----------|----------------------|
| <u>Analytes</u>                | <u>Result</u>  | <u>RL</u>     | <u>DF</u> | <u>Date Analyzed</u> |
| TPH(g)                         | 200            | 50            | 1         | 07/02/2015 16:40     |
| <u>Surrogates</u>              | <u>REC (%)</u> | <u>Limits</u> |           |                      |
| Dibromofluoromethane           | 105            | 70-130        |           | 07/02/2015 16:40     |
| <u>Analyst(s):</u>             | KF             |               |           |                      |
| <u>Analytical Comments:</u> b1 |                |               |           |                      |

(Cont.)



## Analytical Report

**Client:** Aqua Science Engineers, Inc.

**Project:** #2808; Lim

**Date Received:** 6/26/15 21:15

**Date Prepared:** 7/2/15

**WorkOrder:** 1506B89

**Extraction Method:** SW5030B

**Analytical Method:** SW8260B

**Unit:** µg/L

### TPH(g) by Purge & Trap and GC/MS

| Client ID            | Lab ID         | Matrix | Date Collected   | Instrument                     | Batch ID             |
|----------------------|----------------|--------|------------------|--------------------------------|----------------------|
| MW-5                 | 1506B89-005B   | Water  | 06/23/2015 07:30 | GC10                           | 107169               |
| <u>Analytes</u>      | <u>Result</u>  |        | <u>RL</u>        | <u>DF</u>                      | <u>Date Analyzed</u> |
| TPH(g)               | ND             |        | 50               | 1                              | 07/02/2015 17:21     |
| <u>Surrogates</u>    | <u>REC (%)</u> |        | <u>Limits</u>    |                                |                      |
| Dibromofluoromethane | 104            |        | 70-130           |                                | 07/02/2015 17:21     |
| <u>Analyst(s):</u>   | KF             |        |                  |                                |                      |
| Client ID            | Lab ID         | Matrix | Date Collected   | Instrument                     | Batch ID             |
| MW-7                 | 1506B89-006B   | Water  | 06/23/2015 10:35 | GC10                           | 107169               |
| <u>Analytes</u>      | <u>Result</u>  |        | <u>RL</u>        | <u>DF</u>                      | <u>Date Analyzed</u> |
| TPH(g)               | 440            |        | 50               | 1                              | 07/02/2015 18:02     |
| <u>Surrogates</u>    | <u>REC (%)</u> |        | <u>Limits</u>    |                                |                      |
| Dibromofluoromethane | 106            |        | 70-130           |                                | 07/02/2015 18:02     |
| <u>Analyst(s):</u>   | KF             |        |                  | <u>Analytical Comments:</u> b1 |                      |



## Analytical Report

**Client:** Aqua Science Engineers, Inc.  
**Project:** #2808; Lim  
**Date Received:** 6/26/15 21:15  
**Date Prepared:** 6/29/15

**WorkOrder:** 1506B89  
**Extraction Method:** SW3510C/3630C  
**Analytical Method:** SW8015B  
**Unit:** µg/L

### Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

| Client ID            | Lab ID         | Matrix | Date Collected                           | Instrument | Batch ID             |
|----------------------|----------------|--------|--|------------|----------------------|
| MW-1                 | 1506B89-001A   | Water  | 06/23/2015 13:10                         | GC11A      | 106935               |
| <u>Analytes</u>      | <u>Result</u>  |        | <u>RL</u>                                | <u>DF</u>  | <u>Date Analyzed</u> |
| TPH-Diesel (C10-C23) | 130            |        | 50                                       | 1          | 06/29/2015 18:27     |
| <u>Surrogates</u>    | <u>REC (%)</u> |        | <u>Limits</u>                            |            |                      |
| C9                   | 94             |        | 70-130                                   |            | 06/29/2015 18:27     |
| <u>Analyst(s):</u>   | TK             |        | <u>Analytical Comments:</u> e11/e8       |            |                      |
| Client ID            | Lab ID         | Matrix | Date Collected                           | Instrument | Batch ID             |
| MW-2                 | 1506B89-002A   | Water  | 06/23/2015 08:30                         | GC6A       | 106935               |
| <u>Analytes</u>      | <u>Result</u>  |        | <u>RL</u>                                | <u>DF</u>  | <u>Date Analyzed</u> |
| TPH-Diesel (C10-C23) | 1400           |        | 100                                      | 1          | 06/30/2015 12:54     |
| <u>Surrogates</u>    | <u>REC (%)</u> |        | <u>Limits</u>                            |            |                      |
| C9                   | 103            |        | 70-130                                   |            | 06/30/2015 12:54     |
| <u>Analyst(s):</u>   | TK             |        | <u>Analytical Comments:</u> e4,e3,a3,b1  |            |                      |
| Client ID            | Lab ID         | Matrix | Date Collected                           | Instrument | Batch ID             |
| MW-3                 | 1506B89-003A   | Water  | 06/23/2015 11:50                         | GC11A      | 106935               |
| <u>Analytes</u>      | <u>Result</u>  |        | <u>RL</u>                                | <u>DF</u>  | <u>Date Analyzed</u> |
| TPH-Diesel (C10-C23) | 13,000         |        | 250                                      | 5          | 06/29/2015 20:44     |
| <u>Surrogates</u>    | <u>REC (%)</u> |        | <u>Limits</u>                            |            |                      |
| C9                   | 102            |        | 70-130                                   |            | 06/29/2015 20:44     |
| <u>Analyst(s):</u>   | TK             |        | <u>Analytical Comments:</u> e4           |            |                      |
| Client ID            | Lab ID         | Matrix | Date Collected                           | Instrument | Batch ID             |
| MW-4R                | 1506B89-004A   | Water  | 06/23/2015 09:25                         | GC11A      | 106935               |
| <u>Analytes</u>      | <u>Result</u>  |        | <u>RL</u>                                | <u>DF</u>  | <u>Date Analyzed</u> |
| TPH-Diesel (C10-C23) | 99             |        | 50                                       | 1          | 06/30/2015 01:18     |
| <u>Surrogates</u>    | <u>REC (%)</u> |        | <u>Limits</u>                            |            |                      |
| C9                   | 82             |        | 70-130                                   |            | 06/30/2015 01:18     |
| <u>Analyst(s):</u>   | TK             |        | <u>Analytical Comments:</u> e11/e8,e2,b1 |            |                      |

(Cont.)



## Analytical Report

**Client:** Aqua Science Engineers, Inc.  
**Project:** #2808; Lim  
**Date Received:** 6/26/15 21:15  
**Date Prepared:** 6/29/15

**WorkOrder:** 1506B89  
**Extraction Method:** SW3510C/3630C  
**Analytical Method:** SW8015B  
**Unit:** µg/L

### Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

| Client ID            | Lab ID         | Matrix | Date Collected   | Instrument                         | Batch ID             |
|----------------------|----------------|--------|------------------|------------------------------------|----------------------|
| MW-5                 | 1506B89-005A   | Water  | 06/23/2015 07:30 | GC2A                               | 106935               |
| <u>Analytes</u>      | <u>Result</u>  |        | <u>RL</u>        | <u>DF</u>                          | <u>Date Analyzed</u> |
| TPH-Diesel (C10-C23) | ND             |        | 50               | 1                                  | 06/30/2015 08:17     |
| <u>Surrogates</u>    | <u>REC (%)</u> |        | <u>Limits</u>    |                                    |                      |
| C9                   | 88             |        | 70-130           |                                    | 06/30/2015 08:17     |
| <u>Analyst(s):</u>   | TK             |        |                  |                                    |                      |
| Client ID            | Lab ID         | Matrix | Date Collected   | Instrument                         | Batch ID             |
| MW-7                 | 1506B89-006A   | Water  | 06/23/2015 10:35 | GC2B                               | 106935               |
| <u>Analytes</u>      | <u>Result</u>  |        | <u>RL</u>        | <u>DF</u>                          | <u>Date Analyzed</u> |
| TPH-Diesel (C10-C23) | 180            |        | 50               | 1                                  | 06/30/2015 08:17     |
| <u>Surrogates</u>    | <u>REC (%)</u> |        | <u>Limits</u>    |                                    |                      |
| C9                   | 75             |        | 70-130           |                                    | 06/30/2015 08:17     |
| <u>Analyst(s):</u>   | TK             |        |                  | <u>Analytical Comments:</u> e11,b1 |                      |



## Quality Control Report

**Client:** Aqua Science Engineers, Inc.  
**Date Prepared:** 7/2/15  
**Date Analyzed:** 7/2/15  
**Instrument:** GC10  
**Matrix:** Water  
**Project:** #2808; Lim

**WorkOrder:** 1506B89  
**BatchID:** 107169  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-107169  
1506B89-005BMS/MSD

### QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Acetone                       | ND        | -          | 10   | -       | -          | -        | -          |
| tert-Amyl methyl ether (TAME) | ND        | 8.63       | 0.50 | 10      | -          | 86       | 54-140     |
| Benzene                       | ND        | 10.4       | 0.50 | 10      | -          | 104      | 47-158     |
| Bromobenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromochloromethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromodichloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromoform                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Bromomethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Butanone (MEK)              | ND        | -          | 2.0  | -       | -          | -        | -          |
| t-Butyl alcohol (TBA)         | ND        | 25.1       | 2.0  | 40      | -          | 63       | 42-140     |
| n-Butyl benzene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| sec-Butyl benzene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| tert-Butyl benzene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Disulfide              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Carbon Tetrachloride          | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chlorobenzene                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroethane                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloroform                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Chloromethane                 | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Chlorotoluene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dibromochloromethane          | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dibromo-3-chloropropane   | ND        | -          | 0.20 | -       | -          | -        | -          |
| 1,2-Dibromoethane (EDB)       | ND        | 9.21       | 0.50 | 10      | -          | 92       | 44-155     |
| Dibromomethane                | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,4-Dichlorobenzene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Dichlorodifluoromethane       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloroethane            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloroethane (1,2-DCA)  | ND        | 10.1       | 0.50 | 10      | -          | 101      | 66-125     |
| 1,1-Dichloroethene            | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,2-Dichloroethene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,2-Dichloroethene      | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2,2-Dichloropropane           | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1-Dichloropropene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| cis-1,3-Dichloropropene       | ND        | -          | 0.50 | -       | -          | -        | -          |
| trans-1,3-Dichloropropene     | ND        | -          | 0.50 | -       | -          | -        | -          |

(Cont.)



## Quality Control Report

**Client:** Aqua Science Engineers, Inc.  
**Date Prepared:** 7/2/15  
**Date Analyzed:** 7/2/15  
**Instrument:** GC10  
**Matrix:** Water  
**Project:** #2808; Lim

**WorkOrder:** 1506B89  
**BatchID:** 107169  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-107169  
1506B89-005BMS/MSD

### QC Summary Report for SW8260B

| Analyte                       | MB Result | LCS Result | RL   | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------------|-----------|------------|------|---------|------------|----------|------------|
| Diisopropyl ether (DIPE)      | ND        | 9.87       | 0.50 | 10      | -          | 99       | 57-136     |
| Ethylbenzene                  | ND        | -          | 0.50 | -       | -          | -        | -          |
| Ethyl tert-butyl ether (ETBE) | ND        | 9.39       | 0.50 | 10      | -          | 94       | 55-137     |
| Freon 113                     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachlorobutadiene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Hexachloroethane              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 2-Hexanone                    | ND        | -          | 0.50 | -       | -          | -        | -          |
| Isopropylbenzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Isopropyl toluene           | ND        | -          | 0.50 | -       | -          | -        | -          |
| Methyl-t-butyl ether (MTBE)   | ND        | 9.00       | 0.50 | 10      | -          | 90       | 53-139     |
| Methylene chloride            | ND        | -          | 0.50 | -       | -          | -        | -          |
| 4-Methyl-2-pentanone (MIBK)   | ND        | -          | 0.50 | -       | -          | -        | -          |
| Naphthalene                   | ND        | -          | 0.50 | -       | -          | -        | -          |
| n-Propyl benzene              | ND        | -          | 0.50 | -       | -          | -        | -          |
| Styrene                       | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2,2-Tetrachloroethane     | ND        | -          | 0.50 | -       | -          | -        | -          |
| Tetrachloroethene             | ND        | -          | 0.50 | -       | -          | -        | -          |
| Toluene                       | ND        | 9.70       | 0.50 | 10      | -          | 97       | 52-137     |
| 1,2,3-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trichlorobenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,1-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,1,2-Trichloroethane         | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichloroethene               | ND        | -          | 0.50 | -       | -          | -        | -          |
| Trichlorofluoromethane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,3-Trichloropropane        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,2,4-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| 1,3,5-Trimethylbenzene        | ND        | -          | 0.50 | -       | -          | -        | -          |
| Vinyl Chloride                | ND        | -          | 0.50 | -       | -          | -        | -          |
| Xylenes, Total                | ND        | -          | 0.50 | -       | -          | -        | -          |

#### Surrogate Recovery

|                      |      |      |     |     |     |        |
|----------------------|------|------|-----|-----|-----|--------|
| Dibromofluoromethane | 28.0 | 27.9 | 25  | 112 | 112 | 70-130 |
| Toluene-d8           | 23.8 | 23.4 | 25  | 95  | 94  | 70-130 |
| 4-BFB                | 3.07 | -    | 2.5 | 123 | -   | -      |

(Cont.)



## Quality Control Report

**Client:** Aqua Science Engineers, Inc.  
**Date Prepared:** 7/2/15  
**Date Analyzed:** 7/2/15  
**Instrument:** GC10  
**Matrix:** Water  
**Project:** #2808; Lim

**WorkOrder:** 1506B89  
**BatchID:** 107169  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-107169  
1506B89-005BMS/MSD

### QC Summary Report for SW8260B

| Analyte                       | MS Result | MSD Result | SPK Val | SPKRef Val | MS %REC | MSD %REC | MS/MSD Limits | RPD   | RPD Limit |
|-------------------------------|-----------|------------|---------|------------|---------|----------|---------------|-------|-----------|
| tert-Amyl methyl ether (TAME) | 9.07      | 9.08       | 10      | ND         | 91      | 91       | 69-139        | 0     | 20        |
| Benzene                       | 9.66      | 9.57       | 10      | ND         | 97      | 96       | 69-141        | 0.956 | 20        |
| t-Butyl alcohol (TBA)         | 36.7      | 36.8       | 40      | ND         | 92      | 92       | 41-152        | 0     | 20        |
| 1,2-Dibromoethane (EDB)       | 9.54      | 9.28       | 10      | ND         | 95      | 93       | 76-135        | 2.79  | 20        |
| 1,2-Dichloroethane (1,2-DCA)  | 10.0      | 9.98       | 10      | ND         | 100     | 100      | 73-139        | 0     | 20        |
| Diisopropyl ether (DIPE)      | 9.72      | 9.70       | 10      | 0.5286     | 92      | 92       | 72-140        | 0     | 20        |
| Ethyl tert-butyl ether (ETBE) | 9.60      | 9.53       | 10      | ND         | 96      | 95       | 71-140        | 0.797 | 20        |
| Methyl-t-butyl ether (MTBE)   | 9.68      | 9.58       | 10      | ND         | 96      | 95       | 73-139        | 0.970 | 20        |
| Toluene                       | 8.72      | 8.69       | 10      | ND         | 87      | 87       | 71-128        | 0     | 20        |

#### Surrogate Recovery

|                      |      |      |    |  |     |     |        |       |    |
|----------------------|------|------|----|--|-----|-----|--------|-------|----|
| Dibromofluoromethane | 28.7 | 28.5 | 25 |  | 115 | 114 | 70-130 | 0.847 | 20 |
| Toluene-d8           | 23.1 | 22.8 | 25 |  | 92  | 91  | 70-130 | 1.27  | 20 |



## Quality Control Report

**Client:** Aqua Science Engineers, Inc.  
**Date Prepared:** 7/2/15  
**Date Analyzed:** 7/2/15  
**Instrument:** GC10  
**Matrix:** Water  
**Project:** #2808; Lim

**WorkOrder:** 1506B89  
**BatchID:** 107169  
**Extraction Method:** SW5030B  
**Analytical Method:** SW8260B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-107169

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### QC Summary Report for TPH(g)

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| Analyte                   | MB Result | LCS Result | RL | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|---------------------------|-----------|------------|----|---------|------------|----------|------------|
| VOC (C6-C12)              | ND        | 602        | 50 | 644     | -          | 93       | 75-105     |
| <b>Surrogate Recovery</b> |           |            |    |         |            |          |            |
| Dibromofluoromethane      | 26.4      | 26.3       |    | 25      | 106        | 105      | 70-130     |

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## Quality Control Report

**Client:** Aqua Science Engineers, Inc.  
**Date Prepared:** 6/29/15  
**Date Analyzed:** 6/29/15  
**Instrument:** GC2B  
**Matrix:** Water  
**Project:** #2808; Lim

**WorkOrder:** 1506B89  
**BatchID:** 106935  
**Extraction Method:** SW3510C/3630C  
**Analytical Method:** SW8015B  
**Unit:** µg/L  
**Sample ID:** MB/LCS-106935

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### QC Report for SW8015B w/SG Clean-Up

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| Analyte                 | MB Result | LCS Result | RL  | SPK Val | MB SS %REC | LCS %REC | LCS Limits |
|-------------------------|-----------|------------|-----|---------|------------|----------|------------|
| TPH-Diesel (C10-C23)    | ND        | 896        | 50  | 1000    | -          | 90       | 59-151     |
| TPH-Motor Oil (C18-C36) | ND        | -          | 250 | -       | -          | -        | -          |

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#### Surrogate Recovery

|    |     |     |     |    |    |        |
|----|-----|-----|-----|----|----|--------|
| C9 | 460 | 574 | 625 | 74 | 92 | 77-130 |
|----|-----|-----|-----|----|----|--------|

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# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1506B89

ClientCode: ASE

WaterTrax  WriteOn  EDF  Excel  EQuIS  Email  HardCopy  ThirdParty  J-flag

## Report to:

Robert Kitay  
Aqua Science Engineers, Inc.  
55 Oak Court Suite 220  
Danville, CA 94526  
(925) 820-9391 FAX: (925) 837-4853

Email: rkitay@aquascienceengineers.com  
cc/3rd Party:  
PO:  
ProjectNo: #2808; Lim

## Bill to:

Diane Schiell  
Aqua Science Engineers, Inc.  
217 Wild Flower Drive  
Roseville, CA 95678  
deezthng22@yahoo.com

Requested TAT: 5 days

Date Received: 06/26/2015

Date Printed: 06/29/2015

| 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 |
| 1506B89-001 | MW-1      | Water  | 6/23/2015 13:10 | <input type="checkbox"/> | B                                  | B | A | A |   |   |   |   |   |    |    |    |
| 1506B89-002 | MW-2      | Water  | 6/23/2015 8:30  | <input type="checkbox"/> | B                                  | B |   | A |   |   |   |   |   |    |    |    |
| 1506B89-003 | MW-3      | Water  | 6/23/2015 11:50 | <input type="checkbox"/> | B                                  | B |   |   | A |   |   |   |   |    |    |    |
| 1506B89-004 | MW-4R     | Water  | 6/23/2015 9:25  | <input type="checkbox"/> | B                                  | B |   | A |   |   |   |   |   |    |    |    |
| 1506B89-005 | MW-5      | Water  | 6/23/2015 7:30  | <input type="checkbox"/> | B                                  | B |   | A |   |   |   |   |   |    |    |    |
| 1506B89-006 | MW-7      | Water  | 6/23/2015 10:35 | <input type="checkbox"/> | B                                  | B |   | A |   |   |   |   |   |    |    |    |

Test Legend:

|    |                      |
|----|----------------------|
| 1  | 260B_MBTEXOXYPBSCV_V |
| 6  |                      |
| 11 |                      |

|    |           |
|----|-----------|
| 2  | 8260GAS_W |
| 7  |           |
| 12 |           |

|   |              |
|---|--------------|
| 3 | PREDF REPORT |
| 8 |              |

|   |             |
|---|-------------|
| 4 | TPH(D)WSG_W |
| 9 |             |

|    |  |
|----|--|
| 5  |  |
| 10 |  |

The following SampIDs: 001B, 002B, 003B, 004B, 005B, 006B contain testgroup.

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.



## WORK ORDER SUMMARY

**Client Name:** AQUA SCIENCE ENGINEERS, INC.

**QC Level:** LEVEL 2

**Work Order:** 1506B89

**Project:** #2808; Lim

**Client Contact:** Robert Kitay

**Date Received:** 6/26/2015

**Comments:**

**Contact's Email:** rkitay@aquascienceengineers.com

WaterTrax     WriteOn     EDF     Excel     Fax     Email     HardCopy     ThirdParty     J-flag

| Lab ID       | Client ID | Matrix | Test Name                                 | Containers /Composites | Bottle & Preservative | De-chlorinated           | Collection Date & Time | TAT    | Sediment Content | Hold                     | SubOut |
|--------------|-----------|--------|---|------------------------|-----------------------|--------------------------|------------------------|--------|------------------|--------------------------|--------|
| 1506B89-001A | MW-1      | Water  | SW8015B (Diesel w/ S.G. Clean-Up)         | 2                      | VOA w/ HCl            | <input type="checkbox"/> | 6/23/2015 13:10        | 5 days | Present          | <input type="checkbox"/> |        |
| 1506B89-001B | MW-1      | Water  | TPH(g) & BTEX & 5 Oxys+Lead Scav by 8260B | 3                      | VOA w/ HCl            | <input type="checkbox"/> | 6/23/2015 13:10        | 5 days | Present          | <input type="checkbox"/> |        |
| 1506B89-002A | MW-2      | Water  | SW8015B (Diesel w/ S.G. Clean-Up)         | 2                      | VOA w/ HCl            | <input type="checkbox"/> | 6/23/2015 8:30         | 5 days | 1%+              | <input type="checkbox"/> |        |
| 1506B89-002B | MW-2      | Water  | TPH(g) & BTEX & 5 Oxys+Lead Scav by 8260B | 3                      | VOA w/ HCl            | <input type="checkbox"/> | 6/23/2015 8:30         | 5 days | 1%+              | <input type="checkbox"/> |        |
| 1506B89-003A | MW-3      | Water  | SW8015B (Diesel w/ S.G. Clean-Up)         | 2                      | VOA w/ HCl            | <input type="checkbox"/> | 6/23/2015 11:50        | 5 days | Present          | <input type="checkbox"/> |        |
| 1506B89-003B | MW-3      | Water  | TPH(g) & BTEX & 5 Oxys+Lead Scav by 8260B | 3                      | VOA w/ HCl            | <input type="checkbox"/> | 6/23/2015 11:50        | 5 days | Present          | <input type="checkbox"/> |        |
| 1506B89-004A | MW-4R     | Water  | SW8015B (Diesel w/ S.G. Clean-Up)         | 2                      | VOA w/ HCl            | <input type="checkbox"/> | 6/23/2015 9:25         | 5 days | 1%+              | <input type="checkbox"/> |        |
| 1506B89-004B | MW-4R     | Water  | TPH(g) & BTEX & 5 Oxys+Lead Scav by 8260B | 3                      | VOA w/ HCl            | <input type="checkbox"/> | 6/23/2015 9:25         | 5 days | 1%+              | <input type="checkbox"/> |        |
| 1506B89-005A | MW-5      | Water  | SW8015B (Diesel w/ S.G. Clean-Up)         | 2                      | VOA w/ HCl            | <input type="checkbox"/> | 6/23/2015 7:30         | 5 days | Present          | <input type="checkbox"/> |        |
| 1506B89-005B | MW-5      | Water  | TPH(g) & BTEX & 5 Oxys+Lead Scav by 8260B | 3                      | VOA w/ HCl            | <input type="checkbox"/> | 6/23/2015 7:30         | 5 days | Present          | <input type="checkbox"/> |        |
| 1506B89-006A | MW-7      | Water  | SW8015B (Diesel w/ S.G. Clean-Up)         | 2                      | VOA w/ HCl            | <input type="checkbox"/> | 6/23/2015 10:35        | 5 days | 1%+              | <input type="checkbox"/> |        |
| 1506B89-006B | MW-7      | Water  | TPH(g) & BTEX & 5 Oxys+Lead Scav by 8260B | 3                      | VOA w/ HCl            | <input type="checkbox"/> | 6/23/2015 10:35        | 5 days | 1%+              | <input type="checkbox"/> |        |

**NOTES:** - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

# Chain of Custody

1506B89

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| SAMPLER (SIGNATURE)<br><i>h.c.king</i>             |   | PROJECT NAME<br><i>Lim</i>                    |   | JOB NO.<br><i>2808</i>                                |   |
|--|---|---|---|---|---|
| ANALYSIS REQUEST                                   |   |   |   |   |   |
| SPECIAL INSTRUCTIONS:                              |   |   |   |   |   |
| SAMPLE ID.   | DATE                                      | TIME  | MATRIX  | QUANTITY  |   |
| MW-1   | 6-23-15                                   | 1310  | W   | 5   | X |
| MW-2   |   | 830   |   |   | X |
| MW-3   |   | 1150  |   |   | X |
| MW-4R  |   | 925   |   |   | X |
| MW-5   |   | 730   |   |   | X |
| MW-7   | ↓   | 1035  | ↓   | ↓   | X |
|  |   |   |   |   |   |
|  |   |   |   |   |   |
|  |   |   |   |   |   |
|  |   |   |   |   |   |
|  |   |   |   |   |   |
|  |   |   |   |   |   |
| RELINQUISHED BY:<br><i>h.c.king</i><br>(signature) | RECEIVED BY:<br><i>Bon</i><br>(signature) | RELINQUISHED BY:<br><i>Bon</i><br>(signature) | RECEIVED BY LABORATORY<br><i>Maria V</i><br>(signature) | COMMENTS:   |   |
| Robert G. King<br>6-26-15<br>(printed name) (date) | 2033<br>(printed name) (date)             | 2115<br>(printed name) (date)                 | Maria Venegas<br>Maria Venegas<br>(printed name) (date) |   |   |
| Company-ASE, INC.                                  | Company- <i>MAI</i>                       | Company-                                      | Company- <i>4/26/15 2115</i>                            | TURN AROUND TIME<br>STANDARD 24Hr 48Hr 72Hr<br>OTHER: |   |



## Sample Receipt Checklist

Client Name: **Aqua Science Engineers, Inc.**

Date and Time Received: **6/26/2015 9:15:00 PM**

Project Name: **#2808; Lim**

Login Reviewed by: **Maria Venegas**

WorkOrder No: **1506B89**      Matrix: Water

Carrier: Benjamin Yslas (MAI Courier)

### Chain of Custody (COC) Information

- |   |   |                             |
|---|---|-----------------------------|
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sample IDs noted by Client on COC?                      | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Date and Time of collection noted by Client on COC?     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Sampler's name noted on COC?                            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |

### Sample Receipt Information

- |  |   |                             |  |
|--|---|-----------------------------|--|
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Shipping container/cooler in good condition?       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| Samples in proper containers/bottles?              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| Sample containers intact?                          | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| Sufficient sample volume for indicated test?       | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |

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

- |   |   |                             |  |
|---|---|-----------------------------|--|
| All samples received within holding time?                   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| Sample/Temp Blank temperature                               | Temp: 2°C                               |                             | NA <input type="checkbox"/>            |
| Water - VOA vials have zero headspace / no bubbles?         | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/>            |
| Sample labels checked for correct preservation?             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |
| pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)? | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Samples Received on Ice?                                    | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |  |

(Ice Type: WET ICE )

### UCMR3 Samples:

- |  |                              |                             |  |
|--|------------------------------|-----------------------------|--|
| Total Chlorine tested and acceptable upon receipt for EPA 522? Yes               | <input type="checkbox"/>     | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |

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

Comments: