

**FINAL**  
**MARCH 2007**

**On-Post**  
**Quarterly Groundwater Monitoring Report**



*Prepared For*

**Department of the Army**  
**Camp Stanley Storage Activity**  
**Boerne, Texas**

**May 2008**

# **GEOSCIENTIST CERTIFICATION**

## **March 2007 On-post Quarterly Groundwater Monitoring Report**

**For**

**Department of the Army  
Camp Stanley Storage Activity  
Boerne, Texas**

I, Julie Burdey, P.G., hereby certify that the March 2007 On-post Quarterly Groundwater Monitoring Report for the Camp Stanley Storage Activity installation in Boerne, Texas accurately represents the site conditions of the subject area. This certification is limited only to geoscientific products contained in the subject report and is made on the basis of written and oral information provided by the CSSA Environmental Office, laboratory data provided by Severn Trent Laboratories (STL), and field data obtained during groundwater monitoring conducted at the site in March 2007, and is true and accurate to the best of my knowledge and belief.

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Julie Burdey, P.G.  
State of Texas  
Geology License No. 1913

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Date

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## MARCH 2007 GROUNDWATER MONITORING REPORT CAMP STANLEY STORAGE ACTIVITY, TEXAS

### 1.0 INTRODUCTION

This report presents results from the on-post quarterly sampling performed at Camp Stanley Storage Activity (CSSA) in March 2007. Laboratory analytical results are presented along with potentiometric contour figures. The purpose of this report is to present a summary of the sampling results. Similar reports will summarize the planned June and September 2007 sampling results. Results from all four 2007 quarterly monitoring events (March, June, September, and December) will be described in detail in an Annual Report. The Annual Report will also provide an interpretation of all analytical results and an evaluation of any temporal or spatial trends observed in the groundwater contaminant plume during investigations.

Groundwater monitoring at CSSA, scoped under the Air Force Center for Engineering and the Environment (AFCEE) 4P/AE Contract 41624-03-D-8613, Task Order (TO) 0207, was performed March 5, 2007 through March 16, 2007. On-post groundwater monitoring conducted under this TO began with the September 2006 sampling event. Groundwater monitoring conducted prior to September 2006 was conducted under various TOs as shown in **Table 1** of the **Introduction to the Groundwater Monitoring Program, Volume 5** of the **CSSA Environmental Encyclopedia**. AFCEE provides technical oversight of the monitoring program.

Current objectives of the groundwater monitoring program are to determine groundwater flow direction and elevations, determine groundwater contaminant concentrations for characterization purposes, and identify meteorological and seasonal variations in physical and chemical properties. **Appendix A** identifies the data quality objectives (DQO) for CSSA's groundwater monitoring program, along with an evaluation of whether each DQO was attained. The objectives listed in Appendix A also reference appropriate sections of the **3008(h) Administrative Order on Consent** (Order).

The CSSA groundwater monitoring program follows the provisions of the groundwater monitoring program DQOs as well as the recommendations of the **Three-Tiered Long Term Monitoring Network Optimization Evaluation (Parsons 2005)** which provided recommendations for sampling based on a long-term monitoring optimization (LTMO) study performed for the CSSA groundwater monitoring program. LTMO study sampling frequencies were implemented on-post in December 2005, as approved by the Texas Commission on Environmental Quality (TCEQ) and the United States Environmental Protection Agency (USEPA).

## 2.0 BASE-WIDE FLOW DIRECTION AND GRADIENT

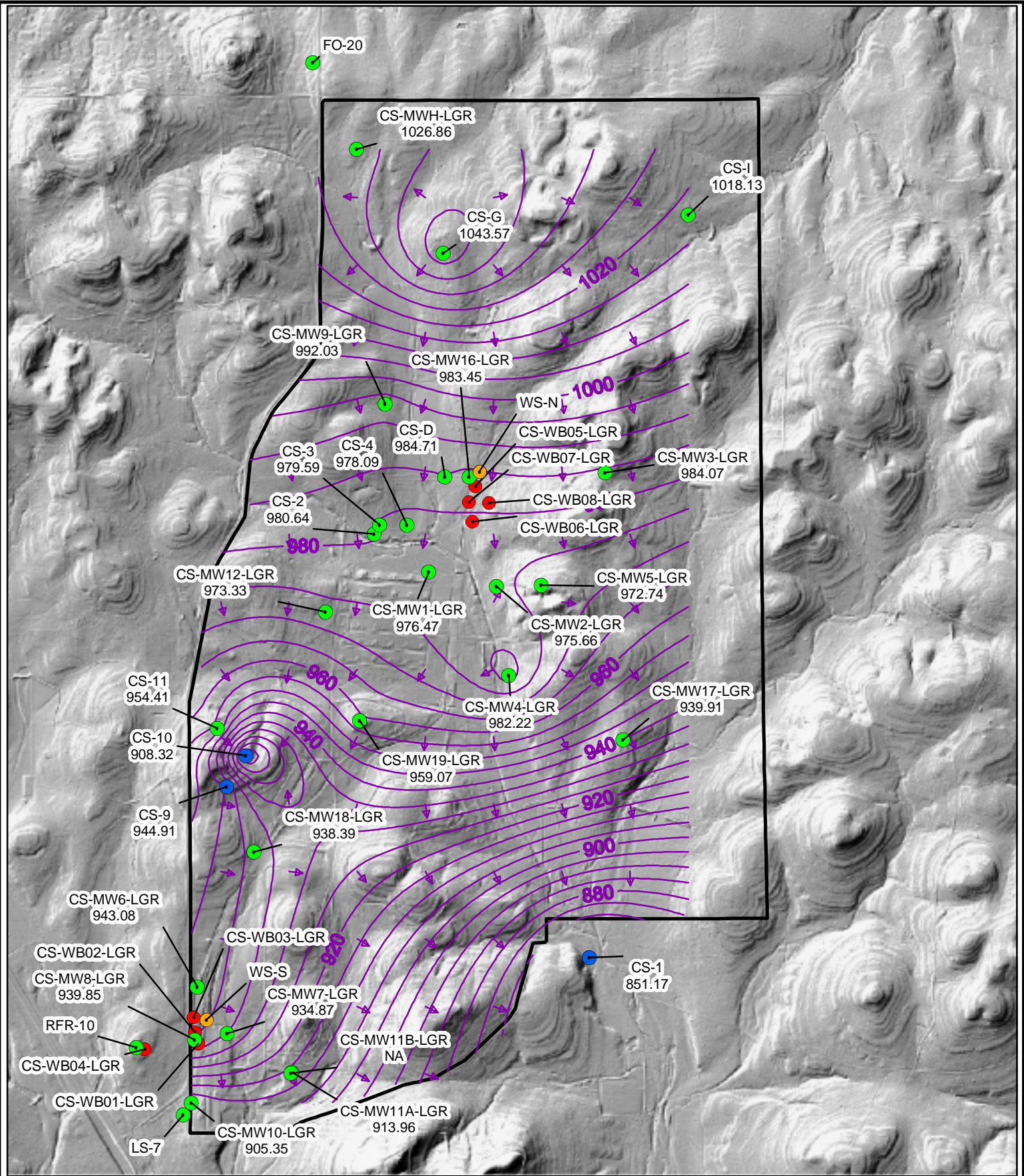
Forty-seven water level measurements were recorded on March 5 and 6, 2007, from on-post monitoring wells completed in the Lower Glen Rose (LGR), Bexar Shale (BS), and Cow Creek (CC) formations. The groundwater potentiometric surface map illustrating groundwater elevations from the LGR zones in March 2007 is shown in **Figure 2-1**.

The March 2007 potentiometric surface map for LGR-screened wells exhibited a wide range of groundwater elevations, from a minimum of 905.35 feet above mean sea level (MSL) at CS-MW10-LGR to a maximum 1043.57 feet MSL at CS-MWG-LGR. Groundwater elevations are generally higher in the northern and central portions of CSSA, and decrease to the southwest and southeast. Groundwater elevations in March 2007 increased 14.53 feet from the elevations measured in December 2006, reflecting increased precipitation following the recent drought in the area. From January 1, 2007, to March 21, 2007, weather station south (WS-S) recorded 24 rainfall events with 9.86 inches, and weather station north (WS-N) recorded 26 rainfall events totaling 9.0 inches of rain. These rainfall totals are not complete because both WS-S and WS-N were not operational during the SCADA installation from February 12, 2007 to March 4, 2007.

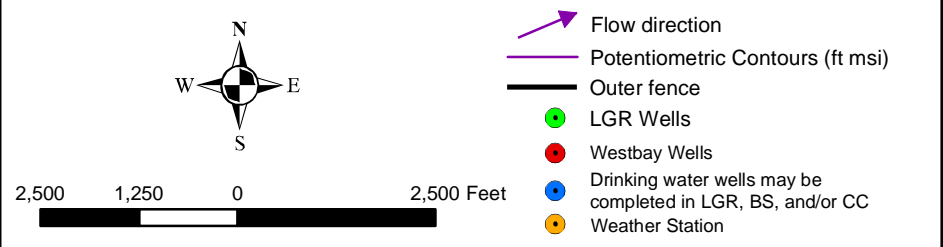
Well CS-MW4-LGR in the central portion of CSSA usually has one of the highest groundwater elevations of LGR screened wells. The elevation is usually 20 to 40 feet higher than the nearest comparable wells (CS-MW2-LGR and CS-MW5-LGR). However, in the presence of a recent drought in the area these elevation differences have leveled off. The higher elevations were measured in well CS-MWH-LGR (1026.86' MSL) and CS-MW9-LGR (992.03' MSL) reflecting the general trend of north to southwest.

An overall groundwater gradient averaged across CSSA is to the south at 0.00474 ft/ft. The groundwater gradient varies in direction and velocity in different areas of CSSA. Groundwater gradients calculated from different LGR wells ranged from 0.001 ft/ft to 0.0091 ft/ft.

Historical groundwater elevations have been recorded since 1992. Previous droughts resulted in water levels decreasing substantially in 1999, 2000, and 1996. From December 2005 through 2006, drought conditions existed on-post. Recent rainfall has alleviated the drought conditions and water levels have begun to return to normal ranges.



**Figure 2.1**  
 March 2007 Potentiometric  
 Surface Map, LGR Wells  
 Camp Stanley Storage Activity  
 Parsons





**Table 3-1  
Overview of the On-Post Monitoring Program**

Count	Well ID	Analytes	Current Sample Date	Next Sample Date	Sampling Frequency
1	CS-MW1-LGR	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Sep-07	Semi-annual
2	CS-MW1-BS	VOC on-post short list & metals (Pb, Cd, Ni)	Sep-07	Sep-09	Biennial
3	CS-MW1-CC	VOC on-post short list & metals (Pb, Cd, Ni)	Sep-07	Sep-09	Biennial
4	CS-MW2-LGR	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Sep-07	Semi-annual
5	CS-MW2-CC	VOC on-post short list & metals (Pb, Cd, Ni)	Sep-07	Sep-09	Biennial
6	CS-MW3-LGR	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Sep-07	Semi-annual
7	CS-MW4-LGR	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Sep-07	Semi-annual
8	CS-MW5-LGR	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Sep-07	Semi-annual
9	CS-MW6-LGR	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Sep-07	Semi-annual
10	CS-MW6-BS	VOC on-post short list & metals (Pb, Cd, Ni)	Sep-07	Sep-09	Biennial
11	CS-MW6-CC	VOC on-post short list & metals (Pb, Cd, Ni)	Sep-07	Sep-09	Biennial
12	CS-MW7-LGR	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Sep-07	Semi-annual
13	CS-MW7-CC	VOC on-post short list & metals (Pb, Cd, Ni)	Sep-07	Sep-09	Biennial
14	CS-MW8-LGR	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Dec-07	Every 9 months*
15	CS-MW8-CC	VOC on-post short list & metals (Pb, Cd, Ni)	Sep-07	Sep-09	Biennial
16	CS-MW9-LGR	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Sep-07	Semi-annual
17	CS-MW9-BS	VOC on-post short list & metals (Pb, Cd, Ni)	Sep-07	Sep-09	Biennial
18	CS-MW9-CC	VOC on-post short list & metals (Pb, Cd, Ni)	Sep-07	Sep-09	Biennial
19	CS-MW10-LGR	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Dec-07	Every 9 months*
20	CS-MW10-CC	VOC on-post short list & metals (Pb, Cd, Ni)	Sep-07	Sep-09	Biennial
21	CS-MW11A-LGR	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Sep-07	Semi-annual
22	CS-MW11B-LGR	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Sep-07	Semi-annual
23	CS-MW12-LGR	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Dec-07	Every 9 months*
24	CS-MW12-BS	VOC on-post short list & metals (Pb, Cd, Ni)	Sep-07	Sep-09	Biennial
25	CS-MW12-CC	VOC on-post short list & metals (Pb, Cd, Ni)	Sep-07	Sep-09	Biennial
26	CS-MW16-LGR	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Sep-07	Semi-annual
27	CS-MW16-CC	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Sep-07	Semi-annual
28	CW-MW17-LGR	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Dec-07	Every 9 months*
29	CS-MW18-LGR	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Sep-07	Semi-annual
30	CS-MW19-LGR	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Sep-07	Semi-annual
31	CS-1	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Dec-07	Every 9 months*
32	CS-2	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Dec-07	Every 9 months*
33	CS-4	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Sep-07	Semi-annual
34	CS-9	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Dec-07	Every 9 months*
35	CS-10	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Dec-07	Every 9 months*
36	CS-11	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Dec-07	Every 9 months*
37	CS-D	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Sep-07	Semi-annual
38	CS-MWG-LGR	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Dec-07	Every 9 months*
39	CS-MWH-LGR	VOC on-post short list & metals (Pb, Cd, Ni)	Sep-07	Sep-09	Biennial
40	CS-I	VOC on-post short list & metals (Pb, Cd, Ni)	Mar-07	Dec-07	Every 9 months*
41	CS-MW20-LGR	VOC on-post full list & metals (As, Cd, Pb, Hg, Ba, Cr, Cu, Ni, Zn) Bromide, chloride, fluoride, nitrate, nitrite, sulfate, alkalinity (SW9046), TDS, pH, resistivity, alkalinity, bicarbonate (E310.1)	upon installation	Jun-07	Quarterly for 1 year, thru March 08
42	CS-MW21-LGR	VOC on-post full list & metals (As, Cd, Pb, Hg, Ba, Cr, Cu, Ni, Zn) Bromide, chloride, fluoride, nitrate, nitrite, sulfate, alkalinity (SW9046), TDS, pH, resistivity, alkalinity, bicarbonate (E310.1)	upon installation	Jun-07	Quarterly for 1 year, thru March 09
43	CS-MW22-LGR	VOC on-post full list & metals (As, Cd, Pb, Hg, Ba, Cr, Cu, Ni, Zn) Bromide, chloride, fluoride, nitrate, nitrite, sulfate, alkalinity (SW9046), TDS, pH, resistivity, alkalinity, bicarbonate (E310.1)	upon installation	Jun-07	Quarterly for 1 year, thru March 10
44	CS-MW23-LGR	VOC on-post full list & metals (As, Cd, Pb, Hg, Ba, Cr, Cu, Ni, Zn) Bromide, chloride, fluoride, nitrate, nitrite, sulfate, alkalinity (SW9046), TDS, pH, resistivity, alkalinity, bicarbonate (E310.1)	upon installation	Jun-07	Quarterly for 1 year, thru March 11
45	CS-MW24-LGR	VOC on-post full list & metals (As, Cd, Pb, Hg, Ba, Cr, Cu, Ni, Zn) Bromide, chloride, fluoride, nitrate, nitrite, sulfate, alkalinity (SW9046), TDS, pH, resistivity, alkalinity, bicarbonate (E310.1)	upon installation	Jun-07	Quarterly for 1 year, thru March 12
46	CS-MW25-LGR	VOC on-post full list & metals (As, Cd, Pb, Hg, Ba, Cr, Cu, Ni, Zn) Bromide, chloride, fluoride, nitrate, nitrite, sulfate, alkalinity (SW9046), TDS, pH, resistivity, alkalinity, bicarbonate (E310.1)	upon installation	Jun-07	Quarterly for 1 year, thru March 13

\*Wells recommended for annual sampling frequency in the LTMO are scheduled every nine months (every third quarter) to gather seasonal data.

### 3.0 MARCH ANALYTICAL RESULTS

#### 3.1 Monitoring Wells

Under the provisions of the groundwater monitoring DQO and the LTMO study, the schedule for sampling on-post in March 2007 included 27 on-post wells. **Table 3-1** provides a sampling overview for March 2007 and the schedule under the LTMO recommendations. Due to pump malfunction, well rehabilitation, and the decrease in groundwater elevations during this event, three wells (CS-I, CS-9, and CS-MW11B-LGR) could not be sampled. The remaining wells (CS-MW1-LGR, CS-MW2-LGR, CS-MW3-LGR, CS-MW4-LGR, CS-MW5-LGR, CS-MW6-LGR, CS-MW7-LGR, CS-MW8-LGR, CS-MW9-LGR, CS-MW10-LGR, CS-MW11A-LGR, CS-MW12-LGR, CS-MW16-LGR, CS-MW16-CC, CS-MW17-LGR, CS-MW18-LGR, CS-MW19-LGR, CS-2, CS-4, CS-D, and CS-MWG-LGR) were sampled using low-flow pumps. Wells CS-1, CS-10, CS-11 and CS-MW16-CC were sampled using submersible pumps.

Wells sampled by low-flow pumps were purged until the field parameters stabilized. Field parameters including pH, temperature, and conductivity, were recorded to ensure stabilization during well purging. On-post monitoring wells were sampled in March 2007 for the volatile organic compounds (VOC) 1,1-dichloroethene, *cis*-1,2-dichloroethene (*cis*-1,2-DCE), *trans*-1,2-dichloroethene (*trans*-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride. The nine CSSA metals (barium, copper, zinc, cadmium, mercury, chromium, nickel, arsenic, and lead) were not collected during this event. Samples were analyzed by TestAmerica (formerly Severn Trent Laboratories) in Arvada, Colorado. All detected concentrations of VOCs and metals are presented in **Table 3-2**. Full analytical results are presented in **Appendix B**.

Results from on-post monitoring wells are considered definitive data and are subject to data validation and verification under provisions of the CSSA Quality Assurance Project Plan (QAPP). Parsons data package numbers TO 0207 #7 through #10 containing the analytical results from this sampling event were received by Parsons March 23 through April 3, 2007. Data validation was conducted and the data validation summary was submitted to AFCEE on April 20, 2007. AFCEE approval for the data packages was received May 22, 2007. Cumulative historical analytical results can be found in **Tables 6** and **7** of the **Introduction to the Quarterly Groundwater Monitoring Program** (Parsons 2001) (**Volume 5, Groundwater**).

#### 3.2 Westbay-equipped Wells

Under the provisions of the groundwater monitoring DQOs and the LTMO study, the schedule for on-post sampling in March 2007 included the four Westbay wells CS-WB01, CS-WB02, CS-WB03 and CS-WB04. Westbay wells CS-WB05, CS-WB06, CS-WB07, and CS-WB08 are not sampled as part of the groundwater monitoring program but are sampled under the solid waste management unit B-3 bioreactor monitoring. Results for those wells are presented in a separate report. These wells are sampled on a semi annual frequency under the LTMO study. All detected concentrations of VOCs are presented in **Table 3-3**. Full analytical



results are presented in **Appendix C**. The Westbay wells are sampled for the VOCs: 1,1-dichloroethene, *cis*-1,2-DCE, *trans*-1,2-DCE, PCE, TCE, and vinyl chloride.

CS-WB01-LGR-04 had detections of PCE and TCE in December 2006 for the first time since September 2004. With the recent recharge, PCE and TCE levels in this zone dropped back to non-detect. CS-WB02-LGR-01 was dry in March 2006, and in the September 2006 event had detections of PCE at 10 µg/L and TCE at 4 µg/L; these levels decreased significantly in March 2007. In CS-WB03 the top two zones in the LGR were dry. In CS-WB04, LGR zones 06, 07, and 09 had PCE detections above the maximum contaminant level (MCL) in March 2007. The next sampling event is scheduled for September 2007.

#### 4.0 SUMMARY

- The MCL was exceeded for PCE, TCE, and *cis*-1,2-DCE in wells CS-MW1-LGR, CS-MW16-LGR, CS-MW16-CC and CS-D during the March 2007 event.
- PCE was detected in 11 of the 24 wells (CS-MW1-LGR, CS-MW5-LGR, CS-MW8-LGR, CS-MW10-LGR, CS-MW11A-LGR, CS-MW16-LGR, CS-MW16-CC, CS-MW17-LGR, CS-MW19-LGR, CS-4, and CS-D) sampled during the March 2007 event. Wells CS-MW1-LGR, CS-D, and CS-MW16-LGR exceeded the MCL while all other well detections were below the reporting limit (RL).
- TCE was detected in seven of the 24 wells (CS-MW1-LGR, CS-MW5-LGR, CS-MW10-LGR, CS-MW16-LGR, CS-MW16-CC, CS-4 and CS-D) sampled during the March 2007 event. CS-MW1-LGR, CS-MW16-LGR, CS-MW16-CC, and CS-D all reported detections above the MCL for TCE.
- *Cis*-1,2-DCE was detected in seven of the 24 wells (CS-MW1-LGR, CS-MW2-LGR, CS-MW5-LGR, CS-MW16-LGR, CS-MW16-CC, CS-4, and CS-D) sampled in March 2007. The MCL was exceeded in wells CS-MW16-LGR, CS-MW16-CC, and CS-D.
- *Trans*-1,2-DCE was reported in four of the 24 wells (CS-MW1-LGR, CS-MW16-LGR, CS-MW16-CC, and CS-D) sampled in March 2007. The MCL was not exceeded for *trans*-1,2-DCE.
- 1,1-DCE and vinyl chloride were also reported in well CS-MW16-CC, both detections were below the RL.
- Weather stations north and south were disabled February 13, 2007 through March 4, 2007 for SCADA upgrades and installation. Therefore, rainfall totals from the CSSA weather stations are incomplete. However, from January 1 to March 21, 2007, WS-N recorded 9.0 inches and WS-S recorded 9.86 inches of rainfall. A majority of the rainfall, over 4.0 inches, fell during the sampling event on March 10-12, 2007.
- Water levels increased an average of 14.53 feet per well this quarter. The water levels recovered significantly since the recent drought, which recorded the lowest groundwater elevations since the groundwater monitoring program began in 1992.
- Three of the 27 wells scheduled to be sampled in March 2007 were not sampled. Monitoring well CS-MW11B-LGR was not sampled due to low water levels, well CS-I

was not sampled due to solar electrical submersible pump failure, and well CS-9 was not sampled due to well rehabilitation.

- Three zones in CS-WB01, one zone in CS-WB02, seven zones in CS-WB03, and one zone in CS-WB04 had PCE above the MCL.
- Two zones in CS-WB01, two zones in CS-WB02, three zones in CS-WB03, and three zones in CS-WB04 had TCE above the MCL.

**Table 3-2  
March 2007 On-Post Quarterly Groundwater Results, Detected Analytes**

Well ID	Date Sampled	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride	Comments
CS-MW1-LGR	3/6/07	--	<b>17</b>	<b>11</b>	<b>0.33F</b>	<b>24</b>	--	
CS-MW2-LGR	3/7/07	--	<b>0.98F</b>	--	--	--	--	
CS-MW3-LGR	3/12/07	--	--	--	--	--	--	
CS-MW4-LGR	3/13/07	--	--	--	--	--	--	
CS-MW4-LGR-FD	3/13/07	--	--	--	--	--	--	
CS-MW5-LGR	3/7/07	--	<b>1.2</b>	<b>0.65F</b>	--	<b>0.87F</b>	--	
CS-MW6-LGR	3/7/07	--	--	--	--	--	--	
CS-MW7-LGR	3/7/07	--	--	--	--	--	--	
CS-MW8-LGR	3/16/07	--	--	<b>1.0F</b>	--	--	--	
CS-MW9-LGR	3/16/07	--	--	--	--	--	--	
CS-MW-10-LGR	3/7/07	--	--	<b>1.3F</b>	--	<b>0.37F</b>	--	
CS-MW11A-LGR	3/8/07	--	--	<b>1.1F</b>	--	--	--	
CS-MW12-LGR	3/8/07	--	--	--	--	--	--	
CS-MW16-LGR	3/6/07	--	<b>72*</b>	<b>59*</b>	<b>0.76</b>	<b>69*</b>	--	
CS-MW16-CC	3/6/07	<b>0.68F</b>	<b>90*</b>	<b>2.1</b>	<b>7.8</b>	<b>59</b>	<b>0.57F</b>	
CS-MW17-LGR	3/16/07	--	--	<b>0.31F</b>	--	--	--	
CS-MW18-LGR	3/13/07	--	--	--	--	--	--	
CS-MW19-LGR	3/12/07	--	--	<b>0.38F</b>	--	--	--	
CS-MWG-LGR	3/16/07	--	--	--	--	--	--	
CS-1	3/6/07	--	--	--	--	--	--	
CS-1-FD	3/6/07	--	--	--	--	--	--	
CS-2	3/8/07	--	--	--	--	--	--	
CS-4	3/13/07	--	<b>2.1</b>	<b>1.3F</b>	--	<b>2.7</b>	--	
CS-10	3/6/07	--	--	--	--	--	--	
CS-11	3/6/07	--	--	--	--	--	--	
CS-D	3/12/07	--	<b>97*</b>	<b>69*</b>	<b>4.6</b>	<b>110*</b>	--	
Laboratory Detection Limits								
Method Detection Limit	MDL	0.074	0.098	0.14	0.056	0.10	0.078	
Reporting Limit	RL	1.2	1.2	1.4	0.60	1.0	1.1	
Maximum Contaminant Level	MCL	7	70	5	100	5	2	

Precipitation per Quarter:	Dec-06	Mar-07 *
WS-S	5.87	9.86
WS-N	5.37	9.00

\* both weather stations down for SCADA, no rainfall data recorded 2/13/07 to 3/4/07

<b>BOLD</b>	= Above the MCL
<b>BOLD</b>	= Above the RL
<b>BOLD</b>	= Above the MDL (F flagged)

\* = dilution run was performed. Values are in µg/L

**Data Qualifiers:**  
 F- The analyte was positively identified but the associated numerical value is below the RL.  
 J - The analyte was positively identified, the quantitation is an estimation.  
 U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.  
 M- Matrix Effect Present

"--" indicates the result was non-detect  
 All values are reported in µg/L  
 All samples analyzed by STL.

**Table 3-3**  
**March 2007 Westbay Analytical Results, Detected Analytes**

Well ID	Date Sampled	1,1-DCE	cis -1,2-DCE	PCE	trans -1,2-DCE	TCE	Vinyl Chloride	Comments
CS-WB01-UGR-01	3/14/07	dry	dry	dry	dry	dry	dry	
CS-WB01-LGR-01	3/14/07	--	--	4.6	--	0.26F	--	
CS-WB01-LGR-02	3/14/07	--	--	6.8	--	3.2	--	
CS-WB01-LGR-03	3/14/07	--	--	1.1F	--	3.3	--	
CS-WB01-LGR-04	3/14/07	--	--	--	--	--	--	
CS-WB01-LGR-05	3/14/07	--	--	--	--	0.17F	--	
CS-WB01-LGR-06	3/14/07	--	--	0.26F	--	0.41F	--	
CS-WB01-LGR-07	3/14/07	--	--	11	--	9.5	--	
CS-WB01-LGR-08	3/14/07	--	--	0.35F	--	0.74F	--	
CS-WB01-LGR-09	3/14/07	--	0.44F	10	--	20	--	
CS-WB02-UGR-01	3/14/07	dry	dry	dry	dry	dry	dry	
CS-WB02-LGR-01	3/14/07	--	--	3.8	--	2.6	--	
CS-WB02-LGR-02	3/14/07	dry	dry	dry	dry	dry	dry	
CS-WB02-LGR-03	3/14/07	--	--	4.5	--	3.1	--	
CS-WB02-LGR-04	3/14/07	--	--	2.0	--	10	--	
CS-WB02-LGR-05	3/14/07	--	--	0.53F	--	3.1	--	
CS-WB02-LGR-06	3/14/07	--	--	0.86F	--	3.8	--	
CS-WB02-LGR-07	3/14/07	--	--	0.59F	--	0.46F	--	
CS-WB02-LGR-08	3/14/07	--	--	1.3F	--	1.3	--	
CS-WB02-LGR-09	3/14/07	--	0.24F	6.6	--	9.8	--	
CS-WB03-UGR-01	3/15/07	dry	dry	dry	dry	dry	dry	
CS-WB03-LGR-01	3/15/07	dry	dry	dry	dry	dry	dry	
CS-WB03-LGR-02	3/15/07	dry	dry	dry	dry	dry	dry	
CS-WB03-LGR-03	3/15/07	--	0.31F	17	--	9.4	--	
CS-WB03-LGR-04	3/15/07	--	--	15	--	7.5	--	
CS-WB03-LGR-05	3/15/07	--	--	13	--	6.4	--	
CS-WB03-LGR-06	3/15/07	--	--	9	--	1.5	--	
CS-WB03-LGR-07	3/15/07	--	--	5.7	--	1.7	--	
CS-WB03-LGR-08	3/15/07	--	--	13	--	1.3	--	
CS-WB03-LGR-09	3/15/07	--	--	7.1	--	0.85F	--	
CS-WB04-UGR-01	3/15/07	dry	dry	dry	dry	dry	dry	
CS-WB04-LGR-01	3/15/07	--	--	0.24F	--	--	--	
CS-WB04-LGR-02	3/15/07	--	--	--	--	--	--	
CS-WB04-LGR-03	3/15/07	--	--	--	--	--	--	
CS-WB04-LGR-04	3/15/07	--	--	--	--	--	--	
CS-WB04-LGR-06	3/15/07	--	3.0	2.1	0.24F	11	--	
CS-WB04-LGR-07	3/15/07	--	2.9	1.3F	0.20F	8.8	--	
CS-WB04-LGR-08	3/15/07	--	--	--	--	0.65F	--	
CS-WB04-LGR-09	3/15/07	--	--	7.7	--	8.2	--	
CS-WB04-LGR-10	3/15/07	--	--	0.47F	--	0.48F	--	
CS-WB04-LGR-11	3/15/07	--	--	--	--	--	--	

**Laboratory Detection Limits**

Method Detection Limit	MDL	0.074	0.098	0.14	0.056	0.10	0.078
Reporting Limit	RL	1.2	1.2	1.4	0.60	1.0	1.1
Maximum Contaminant Level	MCL	7	70	5	100	5	2

<b>BOLD</b>	= Above the MCL
<b>BOLD</b>	= Above the RL
<b>BOLD</b>	= Above the MDL (F flagged)

**Data Qualifiers:**

F- The analyte was positively identified but the associated numerical value is below the RL.

"--" indicates the result was non-detect

All values are reported in µg/L.

All samples analyzed by STL.

**APPENDIX A**

**EVALUATION OF DATA QUALITY OBJECTIVES ATTAINMENT**

**Appendix A Evaluation of Data Quality Objectives Attainment**

Activity	Objectives	Action	Objective Attained?	Recommendations
Field Sampling	Conduct field sampling in accordance with procedures defined in the project work plan, SAP, QAPP, and HSP.	All sampling was conducted in accordance with the procedures described in the project plans.	Yes.	NA
Characterization of Environmental Setting (Hydrogeology)	Prepare water-level contour and/or potentiometric maps for each formation of the Middle Trinity Aquifer (3.5.3).	Potentiometric surface maps were prepared based on water levels measured in each of CSSA's wells screened in three formations on March 5, 2007.	To the extent possible with data available. Due to the limited data available and the fact that wells are completed across multiple water-bearing units, potentiometric maps should only be used for regional water flow direction, not local. Ongoing pumping in the CSSA area likely affects the natural groundwater flow direction.	As additional wells are installed screened in distinct formations, future evaluations will eliminate reliance on wells screened across multiple formations.
	Describe the flow system, including the vertical and horizontal components of flow (2.1.9).	Potentiometric maps were created using March 5, 2007 water level data, and horizontal flow direction was tentatively identified. Insufficient data are currently available to determine vertical component of flow.	As described above, due to the lack of aquifer-specific water level information, potentiometric surface maps should only be used as an estimate of regional flow direction.	Same as above.
	Define formation(s) in the Middle Trinity Aquifer are impacted by the VOC contaminants (2.1.3).	Quarterly groundwater monitoring provides information on Middle Trinity Aquifer impacts. Monitoring wells equipped with Westbay® - multi-port samplers are sampled semiannually and will be sampled again during the September 2007 event.	Yes.	Continue sampling.



Activity	Objectives	Action	Objective Attained?	Recommendations
	Identify any temporal changes in hydraulic gradients due to seasonal influences (2.1.5).	Downloaded data from continuous-reading transducers in wells: CS-MW16-LGR, CS-MW4-LGR, CS-MW9-LGR, CS-MW9-BS, CS-MW9-CC, CS-MW11A-LGR, CS-MW11B-LGR, CS-MW18-LGR, CS-MW1-LGR, CS-MW1-CC, CS-MW2-LGR, CS-MW2-CC, CS-MW12-LGR, CS-MW12-CC, CS-MW17-LGR, CS-MW19-LGR, and CS-MW16-CC. Additional continuous reading transducers were added to the program through the SCADA project. The following wells can be uploaded to see real time water level data: CS-MW9-LGR, CS-MW9-BS, CS-MW9-CC, CS-MW16-LGR, CS-MW16-CC, CS-MW1-LGR, CS-MW1-BS, CS-MW1-CC, CS-MW12-LGR, CS-MW12-BS, CS-MW12-CC, CS-MW10-LGR, CS-MW10-CC, CS-MW6-LGR, CS-MW6-BS, CS-MW6-CC, CS-1, and CS-10. Data was also downloaded from the northern and southern continuous-reading weather stations WS-N and WS-S. Water levels will be graphed at these wells against precipitation and season through March 2007 and included in the annual groundwater report.	Yes.	Continue collection of transducer data and possibly install transducers in other cluster wells.
Contamination Characterization (Ground Water Contamination)	Characterize the horizontal and vertical extent of any immiscible or dissolved plume(s) originating from the Facility (3.1.2).	Samples for laboratory analysis were collected from 24 of 40 CSSA wells. Of the 27 wells scheduled to be sampled in March 2007 three wells (CS-I, CS-9, and CS-MW11B-LGR) were not sampled due to pump malfunction, well rehabilitation, and the water level falling below the dedicated low-flow pump.	The horizontal and vertical extent of groundwater contamination is continuously monitored.	Continue groundwater monitoring and construct additional wells as necessary.

Activity	Objectives	Action	Objective Attained?	Recommendations																														
	Determine the horizontal and vertical concentration profiles of all constituents of concern (COC) in the groundwater that are measured by USEPA-approved procedures (3.1.2). COCs are those chemicals that have been detected in groundwater in the past and their daughter (breakdown) products.	Groundwater samples were collected from wells: CS-MW1-LGR, CS-MW2-LGR, CS-MW3-LGR, CS-MW4-LGR, CS-MW5-LGR, CS-MW6-LGR, CS-MW7-LGR, CS-MW8-LGR, CS-MW9-LGR, CS-MW10-LGR, CS-MW11A-LGR, CS-MW12-LGR, CS-MW16-LGR, CS-MW16-CC, CS-MW17-LGR, CS-MW18-LGR, CS-MW19-LGR, CS-1, CS-2, CS-4, CS-10, CS-11, CS-D, CS-MWG-LGR, and CS-9. Samples were analyzed for the selected VOCs using USEPA method SW8260B. Analyses were conducted in accordance with the AFCEE QAPP and approved variances. All RLs were below MCLs, as listed below:	Yes.	Continue sampling.																														
		<table border="1"> <thead> <tr> <th data-bbox="617 776 793 797">ANALYTE</th> <th data-bbox="800 776 905 797">RL (µG/L)</th> <th data-bbox="974 776 1079 797">MCL(µG/L)</th> </tr> </thead> <tbody> <tr> <td data-bbox="617 802 743 823">Chloroform</td> <td data-bbox="835 802 863 823">0.4</td> <td data-bbox="1003 802 1031 823">100</td> </tr> <tr> <td data-bbox="617 828 758 849">Chloromethane</td> <td data-bbox="835 828 863 849">1.3</td> <td data-bbox="1010 828 1037 849">--</td> </tr> <tr> <td data-bbox="617 854 827 875">Dibromochloromethane</td> <td data-bbox="835 854 863 875">0.5</td> <td data-bbox="1003 854 1031 875">100</td> </tr> <tr> <td data-bbox="617 880 701 901">1,1-DCE</td> <td data-bbox="835 880 863 901">1.2</td> <td data-bbox="1010 880 1016 901">7</td> </tr> <tr> <td data-bbox="617 906 722 927"><i>cis</i>-1,2-DCE</td> <td data-bbox="835 906 863 927">1.2</td> <td data-bbox="1003 906 1031 927">70</td> </tr> <tr> <td data-bbox="617 932 743 953"><i>trans</i>-1,2-DCE</td> <td data-bbox="835 932 863 953">0.6</td> <td data-bbox="1003 932 1031 953">100</td> </tr> <tr> <td data-bbox="617 958 793 979">Methylene Chloride</td> <td data-bbox="835 958 842 979">2</td> <td data-bbox="1010 958 1016 979">5</td> </tr> <tr> <td data-bbox="617 984 659 1005">PCE</td> <td data-bbox="835 984 863 1005">1.4</td> <td data-bbox="1010 984 1016 1005">5</td> </tr> <tr> <td data-bbox="617 1010 659 1031">TCE</td> <td data-bbox="835 1010 863 1031">1.0</td> <td data-bbox="1010 1010 1016 1031">5</td> </tr> </tbody> </table>	ANALYTE	RL (µG/L)	MCL(µG/L)	Chloroform	0.4	100	Chloromethane	1.3	--	Dibromochloromethane	0.5	100	1,1-DCE	1.2	7	<i>cis</i> -1,2-DCE	1.2	70	<i>trans</i> -1,2-DCE	0.6	100	Methylene Chloride	2	5	PCE	1.4	5	TCE	1.0	5		
ANALYTE	RL (µG/L)	MCL(µG/L)																																
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ANALYTE	RL (µG/L)	MCL (µG/L)																																
Barium	5	2,000																																
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Lead	2	15																																
Mercury	1	2																																

Activity	Objectives	Action	Objective Attained?	Recommendations
Contamination Characterization (Ground Water Contamination) (Continued)	Meet AFCEE QAPP quality assurance requirements.	Samples were analyzed in accordance with the CSSA QAPP and approved variances. Parsons chemists verified all data, and AFCEE approval was obtained.	Yes.	NA
		All data flagged with a "U," "J," and "F" are usable for characterizing contamination. All "R" flagged data are considered unusable.	Yes.	NA
		Previously, a method detection limit (MDL) study for arsenic, cadmium, and lead was not performed within a year of the analyses, as required by the AFCEE QAPP.	The laboratory performed new MDL studies in February 2001 for these metals and the new MDL values were found to be almost identical to the previous MDLs and all met the associated AFCEE QAPP requirements. MDLs for these three metals are well below MCLs. In addition, the laboratory performed daily calibrations and RL verifications for these metals, both of which demonstrate the laboratory's ability to detect and quantitate these metals at RL levels. These daily analyses also indicate that concentrations above the laboratory RL for these compounds were not affected by the expired MDL study.	Use results for groundwater characterization purposes.
Remediation	Determine goals and create cost-effective and technologically appropriate methods for remediation (2.2.1).	Continued data collection will provide analytical results for accomplishing this objective.	Ongoing.	Continue sampling and evaluation, including quarterly groundwater monitoring teleconferences to address remediation.
	Determine placement of new wells for monitoring (2.3.1, 3.6)	Sampling frequency and sample locations to be monitored (including any new wells) will be based on trend data from monitoring event(s) (3.1.5).	Ongoing.	Continue quarterly groundwater teleconferences to discuss sampling frequency and placement of new monitor wells.

Activity	Objectives	Action	Objective Attained?	Recommendations
Project schedule/ Reporting	Produce a quarterly monitoring project schedule as a road map for sampling, analysis, validation, verification, reviews, and reports.	Prepare schedules and sampling guidelines prior to each quarterly sampling event.	Yes.	Continue sampling schedule preparation each quarter.

**Appendix B**  
**March 2007 Quarterly On-Post Groundwater Analytical Results**

Well ID	Date Sampled	1,1-DCE	cis-1,2-DCE	PCE	trans-1,2-DCE	TCE	Vinyl Chloride
CS-MW1-LGR	3/6/07	0.074U	17	11	0.33F	24	0.078U
CS-MW2-LGR	3/7/07	0.074U	0.98F	0.14U	0.056U	0.10U	0.078U
CS-MW3-LGR	3/12/07	0.074U	0.098U	0.14U	0.056U	0.10U	0.078U
CS-MW4-LGR	3/13/07	0.074U	0.098U	0.14U	0.056U	0.10U	0.078U
CS-MW4-LGR-FD	3/13/07	0.074U	0.098U	0.14U	0.056U	0.10U	0.078U
CS-MW5-LGR	3/7/07	0.074U	1.2	0.65F	0.056U	0.87F	0.078U
CS-MW6-LGR	3/7/07	0.074U	0.098U	0.14U	0.056U	0.10U	0.078U
CS-MW7-LGR	3/7/07	0.074U	0.098U	0.14U	0.056U	0.10U	0.078U
CS-MW8-LGR	3/16/07	0.074U	0.098U	1.0F	0.056U	0.10U	0.078U
CS-MW9-LGR	3/16/07	0.074U	0.098U	0.14U	0.056U	0.10U	0.078U
CS-MW-10-LGR	3/7/07	0.074U	0.098U	1.3F	0.056U	0.37F	0.078U
CS-MW11A-LGR	3/8/07	0.074U	0.098U	1.1F	0.056U	0.10U	0.078U
CS-MW12-LGR	3/8/07	0.074U	0.098U	0.14U	0.056U	0.10U	0.078U
CS-MW16-LGR	3/6/07	0.074U	72*	59*	0.76	69*	0.078U
CS-MW16-CC	3/6/07	0.68F	90*	2.1	7.8	59	0.57F
CS-MW17-LGR	3/16/07	0.074U	0.098U	0.31F	0.056U	0.10U	0.078U
CS-MW18-LGR	3/13/07	0.074U	0.098U	0.14U	0.056U	0.10U	0.078U
CS-MW19-LGR	3/12/07	0.074U	0.098U	0.38F	0.056U	0.10U	0.078U
CS-MWG-LGR	3/16/07	0.074U	0.098U	0.14U	0.056U	0.10U	0.078U
CS-1	3/6/07	0.074U	0.098U	0.14U	0.056U	0.10U	0.078U
CS-1-FD	3/6/07	0.074U	0.098U	0.14U	0.056U	0.10U	0.078U
CS-2	3/8/07	0.074U	0.098U	0.14U	0.056U	0.10U	0.078U
CS-4	3/13/07	0.074U	2.1	1.3F	0.056U	2.7	0.078U
CS-10	3/6/07	0.074U	0.098U	0.14U	0.056U	0.10U	0.078U
CS-11	3/6/07	0.074U	0.098U	0.14U	0.056U	0.10U	0.078U
CS-D	3/12/07	0.074U	97*	69*	4.6	110*	0.078U

**Data Qualifiers:**

F- The analyte was positively identified but the associated numerical value is below the RL.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

All values are reported in µg/L

\* = dilution run was performed.

All samples analyzed by STL.

<b>BOLD</b>	= Above the MCL
<b>BOLD</b>	= Above the RL
<b>BOLD</b>	= Above the MDL (F flagged)

## Appendix C March 2007 Westbay Analytical Results

Well ID	Date Sampled	1,1-DCE	cis -1.2-DCE	PCE	trans -1,2-DCE	TCE	Vinyl Chloride
CS-WB01-UGR-01	3/14/07	dry	dry	dry	dry	dry	dry
CS-WB01-LGR-01	3/14/07	0.074U	0.098U	<b>4.6</b>	0.056U	<b>0.26F</b>	0.078U
CS-WB01-LGR-02	3/14/07	0.074U	0.098U	<b>6.8</b>	0.056U	<b>3.2</b>	0.078U
CS-WB01-LGR-03	3/14/07	0.074U	0.098U	<b>1.1F</b>	0.056U	<b>3.3</b>	0.078U
CS-WB01-LGR-04	3/14/07	0.074U	0.098U	0.14U	0.056U	0.10U	0.078U
CS-WB01-LGR-05	3/14/07	0.074U	0.098U	0.14U	0.056U	<b>0.17F</b>	0.078U
CS-WB01-LGR-06	3/14/07	0.074U	0.098U	<b>0.26F</b>	0.056U	<b>0.41F</b>	0.078U
CS-WB01-LGR-07	3/14/07	0.074U	0.098U	<b>11</b>	0.056U	<b>9.5</b>	0.078U
CS-WB01-LGR-08	3/14/07	0.074U	0.098U	<b>0.35F</b>	0.056U	<b>0.74F</b>	0.078U
CS-WB01-LGR-09	3/14/07	0.074U	<b>0.44F</b>	<b>10</b>	0.056U	<b>20</b>	0.078U
CS-WB02-UGR-01	3/14/07	dry	dry	dry	dry	dry	dry
CS-WB02-LGR-01	3/14/07	0.074U	0.098U	<b>3.8</b>	0.056U	<b>2.6</b>	0.078U
CS-WB02-LGR-02	3/14/07	dry	dry	dry	dry	dry	dry
CS-WB02-LGR-03	3/14/07	0.074U	0.098U	<b>4.5</b>	0.056U	<b>3.1</b>	0.078U
CS-WB02-LGR-04	3/14/07	0.074U	0.098U	<b>2.0</b>	0.056U	<b>10</b>	0.078U
CS-WB02-LGR-05	3/14/07	0.074U	0.098U	<b>0.53F</b>	0.056U	<b>3.1</b>	0.078U
CS-WB02-LGR-06	3/14/07	0.074U	0.098U	<b>0.86F</b>	0.056U	<b>3.8</b>	0.078U
CS-WB02-LGR-07	3/14/07	0.074U	0.098U	<b>0.59F</b>	0.056U	<b>0.46F</b>	0.078U
CS-WB02-LGR-08	3/14/07	0.074U	0.098U	<b>1.3F</b>	0.056U	<b>1.3</b>	0.078U
CS-WB02-LGR-09	3/14/07	0.074U	<b>0.24F</b>	<b>6.6</b>	0.056U	<b>9.8</b>	0.078U
CS-WB03-UGR-01	3/15/07	dry	dry	dry	dry	dry	dry
CS-WB03-LGR-01	3/15/07	dry	dry	dry	dry	dry	dry
CS-WB03-LGR-02	3/15/07	dry	dry	dry	dry	dry	dry
CS-WB03-LGR-03	3/15/07	0.074U	<b>0.31F</b>	<b>17</b>	0.056U	<b>9.4</b>	0.078U
CS-WB03-LGR-04	3/15/07	0.074U	0.098U	<b>15</b>	0.056U	<b>7.5</b>	0.078U
CS-WB03-LGR-05	3/15/07	0.074U	0.098U	<b>13</b>	0.056U	<b>6.4</b>	0.078U
CS-WB03-LGR-06	3/15/07	0.074U	0.098U	<b>9</b>	0.056U	<b>1.5</b>	0.078U
CS-WB03-LGR-07	3/15/07	0.074U	0.098U	<b>5.7</b>	0.056U	<b>1.7</b>	0.078U
CS-WB03-LGR-08	3/15/07	0.074U	0.098U	<b>13</b>	0.056U	<b>1.3</b>	0.078U
CS-WB03-LGR-09	3/15/07	0.074U	0.098U	<b>7.1</b>	0.056U	<b>0.85F</b>	0.078U
CS-WB04-UGR-01	3/15/07	dry	dry	dry	dry	dry	dry
CS-WB04-LGR-01	3/15/07	0.074U	0.098U	<b>0.24F</b>	0.056U	0.10U	0.078U
CS-WB04-LGR-02	3/15/07	0.074U	0.098U	0.14U	0.056U	0.10U	0.078U
CS-WB04-LGR-03	3/15/07	0.074U	0.098U	0.14U	0.056U	0.10U	0.078U
CS-WB04-LGR-04	3/15/07	0.074U	0.098U	0.14U	0.056U	0.10U	0.078U
CS-WB04-LGR-06	3/15/07	0.074U	<b>3.0</b>	<b>2.1</b>	<b>0.24F</b>	<b>11</b>	0.078U
CS-WB04-LGR-07	3/15/07	0.074U	<b>2.9</b>	<b>1.3F</b>	<b>0.20F</b>	<b>8.8</b>	0.078U
CS-WB04-LGR-08	3/15/07	0.074U	0.098U	0.14U	0.056U	<b>0.65F</b>	0.078U
CS-WB04-LGR-09	3/15/07	0.074U	0.098U	<b>7.7</b>	0.056U	<b>8.2</b>	0.078U
CS-WB04-LGR-10	3/15/07	0.074U	0.098U	<b>0.47F</b>	0.056U	<b>0.48F</b>	0.078U
CS-WB04-LGR-11	3/15/07	0.074U	0.098U	0.14U	0.056U	0.10U	0.078U

**Data Qualifiers:**

F- The analyte was positively identified but the associated numerical value is below the RL.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.

All values are reported in µg/L..

All samples analyzed by STL.

<b>BOLD</b>	= Above the MCL
<b>BOLD</b>	= Above the RL
<b>BOLD</b>	= Above the MDL (F flagged)