



DEPARTMENT OF THE ARMY
CAMP STANLEY STORAGE ACTIVITY, MCAAP
25800 RALPH FAIR ROAD, BOERNE, TX 78015-4800

July 12, 2006

U-096-06

Subject: Sampling of Four Bexar Met Water Wells:

LS-2

LS-3

LS-4

HS-2

Camp Stanley Storage Activity (CSSA) collected groundwater samples from the above wells (LS-2, LS-3, LS-4, and HS-2) on 3/23/06. These samples were submitted to a laboratory contracted by CSSA's environmental contractor for volatile organic compound (VOC) analysis. This letter provides you with the VOC data from the laboratory results and a formal thank you for your assistance in this groundwater monitoring effort.

An abbreviated summary of analytical results compared to maximum contaminant levels (MCLs) allowed in drinking water by the U.S. EPA under the Safe Drinking Water Act is provided in the table below. All analyte concentrations were below MCLs, so they do not affect the usability of your well.

Date Sampled	VOC Compound	Result (ppb)	MCL (ppb)
Well LS-2			
3/23/06	Tetrachloroethene (PCE)	1.35F	5
	Trichloroethene (TCE)	0.36F	5
	<i>cis</i> -1,2-Dichloroethene (DCE)	<0.07 (non-detect)	70
Well LS-3			
3/23/06	Tetrachloroethene (PCE)	0.92F	5
	Trichloroethene (TCE)	0.20F	5
	<i>cis</i> -1,2-Dichloroethene (DCE)	<0.07 (non-detect)	70
Well LS-4			
3/23/06	Tetrachloroethene (PCE)	<0.06 (non-detect)	5
	Trichloroethene (TCE)	<0.05 (non-detect)	5
	<i>cis</i> -1,2-Dichloroethene (DCE)	<0.07 (non-detect)	70
Well HS-2			
3/23/06	Tetrachloroethene (PCE)	<0.06 (non-detect)	5
	Trichloroethene (TCE)	<0.05 (non-detect)	5
	<i>cis</i> -1,2-Dichloroethene (DCE)	<0.07 (non-detect)	70

*The "F" qualifier indicates the value is above the laboratory method detection limit, but below the laboratory reporting limit for the compound.

Based on the analytical data, low levels of the VOCs PCE and TCE were identified in water samples from wells LS-2 and LS-3. Results from the laboratory analysis are provided as an attachment for the event included in the summary tables above. The concentrations reported for these VOCs were above the MCLs in the past. Therefore, a granular activated carbon (GAC) filtration system was installed at wells LS-2 and LS-3 in April 2002 by Carbonair Environmental Systems of San Marcos, Texas. CSSA will be responsible for all costs associated with operation and maintenance of this system.

Carbonair performed maintenance on the system in September 2005. Carbonair will replace the carbon, if needed, and perform other routine maintenance operations at future scheduled visits. If you experience any problems with the system, please let CSSA know immediately. Carbonair is very responsive and can make additional maintenance visits if needed.

On 3/23/06 CSSA collected a sample from your wells (LS-2 and LS-3) after the water was processed through the first and second granular activated carbon (GAC) filter system. Based on the analytical data, no VOCs related to CSSA's groundwater investigation were identified in the sample after the first carbon canister (A1). The sample collected after the second carbon canister (A2) reported methylene chloride at a concentration of 1.11 ppb. This result is below the MCL for methylene chloride and does not affect the usability of your well. A summary of the post GAC analytical results is provided below. Copies of the laboratory data sheets are attached. CSSA will collect additional confirmation samples periodically to confirm the system remains effective. The next post GAC sampling will be conducted in September 2006.

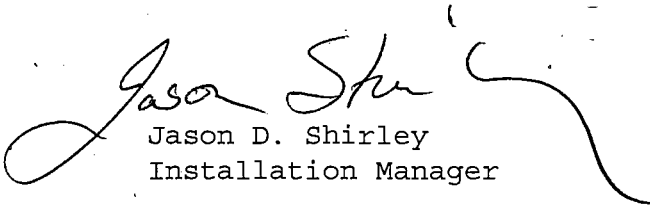
Date Sampled	VOC compound	Result (ppb)	MCL (ppb)
Well LS-2/LS-3 POST GAC, GAC samples for 106-WP2 and 106-WP1			
3/23/06 A1, First Carbon Canister	PCE	<0.06 (non-detect)	5
	TCE	<0.05 (non-detect)	5
	DCE	<0.07 (non-detect)	70
Well LS-2/LS-3 POST GAC, GAC samples for 106-WP2 and 106-WP1			
3/23/06 A2, Second Carbon Canister	PCE	<0.06 (non-detect)	5
	TCE	<0.05 (non-detect)	5
	DCE	<0.07 (non-detect)	70

*The "F" qualifier indicates the value is above the laboratory method detection limit, but below the laboratory reporting limit for the compound.

As part of the ongoing CSSA environmental program, we are continuing to investigate and cleanup VOC source areas on the installation to track these compounds in groundwater on- and off-post. As part of this effort, we may contact you in the future to schedule another sampling event for the well listed above.

Again, we would like to thank you for your cooperation. We regret that your wells have been impacted, but remain committed to making sure your water is safe to use and keeping you informed. If you have any questions concerning this letter, please contact Glare Sanchez, CSSA Environmental Program Manager, at (210) 698-5208.

Sincerely,



Jason D. Shirley
Installation Manager

Attachments

cc: Ms. Glare Sanchez, CSSA Environmental Program Manager
Mr. Greg Lyssy, EPA Region 6
Mr. Sonny Rayos, TCEQ Central Office
Mr. Henry Karnei, TCEQ Region 13
Ms. Kyle Cunningham, San Antonio Metropolitan Health District
Ms. Julie Burdey, Parsons
Ms. Kimberly Vaughn, Parsons

Data Anomalies

Detections of methylene chloride were reported in the HS-2 sample at a concentration of 1.15 ppb, the LS-2 sample at a concentration of 1.17 ppb, and the LS-4 sample at a concentration of 1.18 ppb. These results are below the MCL for methylene chloride (5 ppb). Methylene chloride has been reported periodically in samples from both on- and off-post wells since 1992. Each time methylene chloride was detected, it was also present in the analysis method blank, indicating the analyte was introduced as a laboratory contaminant and was not present in the groundwater. Methylene chloride is considered a common laboratory contaminant and there are no known historical uses of methylene chloride on-post.

A data qualifier, M, was placed on the analyte bromodichloromethane for all of your wells. The laboratory is required to follow certain quality assurance procedures, including a set of matrix spike and matrix spike duplicate analyses for every twenty wells sampled. The matrix spike and/or matrix spike duplicate analysis had bromodichloromethane recovered below the acceptance criteria in one of the other samples from the same data package. Although the results are still considered usable, all methylene chloride and naphthalene results for samples in this data package were flagged with an "M", in accordance with the CSSA Quality Assurance Project Plan (QAPP_ requirements.

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: EPA 8260B Preparatory Method: 5030B AAB #: 060404BM-98437
 Lab Name: APPL, Inc Contract #: F41624-03-D-8613, TO 08
 Field Sample ID: LS-2 Lab Sample ID: AX38090 Matrix: Water
 % Solids: NA Initial Calibration ID: M060330
 Date Received: 24-Mar-06 Date Prepared: 05-Apr-06 Date Analyzed: 05-Apr-06
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1-DCE	0.12	1.2	0.12	1		U
Bromodichloromethane	0.06	0.8	0.06	1		U
Bromoform	0.13	1.2	0.13	1		U
Chloroform	0.06	0.3	0.06	1		U
Cis-1,2-DCE	0.07	1.2	0.07	1		U
Dibromochloromethane	0.06	0.5	0.06	1		U
Dichlorodifluoromethane	0.11	1.0	0.11	1		U
Methylene chloride	0.51	2.0	1.17	1		F
Naphthalene	0.07	0.4	0.07	1		U
TCE	0.05	1.0	0.36	1		F
Tetrachloroethene	0.06	1.4	1.35	1		F
Toluene	0.06	1.1	0.06	1		U
Trans-1,2-DCE	0.08	0.6	0.08	1		U
Vinyl chloride	0.08	1.1	0.08	1		U

M D TC 4/21/06

Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	110	69-139	
4-Bromofluorobenzene(S)	98.9	75-125	
Dibromofluoromethane(S)	89.5	75-125	
Toluene-D8(S)	105	75-125	

Internal Std	Qualifier
1,4-Dichlorobenzene-D(IS)	
Chlorobenzene-D5(IS)	
Fluorobenzene(IS)	

Comments: ARF: 50099

See p. 88. TC 4/21/06

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RESULTS

Analytical Method: EPA 8260B Preparatory Method: 5030B AAB #: 060404BM-98437
 Lab Name: APPL, Inc Contract #: F41624-03-D-8613, TO 08
 Field Sample ID: LS-3 Lab Sample ID: AX38091 Matrix: Water
 % Solids: NA Initial Calibration ID: M060330
 Date Received: 24-Mar-06 Date Prepared: 05-Apr-06 Date Analyzed: 05-Apr-06
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1-DCE	0.12	1.2	0.12	1		U
Bromodichloromethane	0.06	0.8	0.06	1		M
Bromoform	0.13	1.2	0.13	1		U
Chloroform	0.06	0.3	0.06	1		U
Cis-1,2-DCE	0.07	1.2	0.07	1		U
Dibromochloromethane	0.06	0.5	0.06	1		U
Dichlorodifluoromethane	0.11	1.0	0.11	1		U
Methylene chloride	0.51	2.0	0.51	1		U
Naphthalene	0.07	0.4	0.07	1		U
TCE	0.05	1.0	0.20	1		F
Tetrachloroethene	0.06	1.4	0.92	1		F
Toluene	0.06	1.1	0.06	1		U
Trans-1,2-DCE	0.08	0.6	0.08	1		U
Vinyl chloride	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	105	69-139	
4-Bromofluorobenzene(S)	98.1	75-125	
Dibromofluoromethane(S)	89.0	75-125	
Toluene-D8(S)	109	75-125	

Internal Std	Qualifier
1,4-Dichlorobenzene-D(IS)	
Chlorobenzene-D5(IS)	
Fluorobenzene(IS)	

Comments: ARF: 50099

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: EPA 8260B Preparatory Method: 5030B AAB #: 060404BM-98437
 Lab Name: APPL, Inc Contract #: F41624-03-D-8613, TO 08
 Field Sample ID: LS-2/LS-3-A1 Lab Sample ID: AX38092 Matrix: Water
 % Solids: NA Initial Calibration ID: M060330
 Date Received: 24-Mar-06 Date Prepared: 05-Apr-06 Date Analyzed: 05-Apr-06
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1-DCE	0.12	1.2	0.12	1		U
Bromodichloromethane	0.06	0.8	0.06	1		M
Bromoform	0.13	1.2	0.13	1		U
Chloroform	0.06	0.3	0.06	1		U
Cis-1,2-DCE	0.07	1.2	0.07	1		U
Dibromochloromethane	0.06	0.5	0.06	1		U
Dichlorodifluoromethane	0.11	1.0	0.11	1		U
Methylene chloride	0.51	2.0	0.51	1		U
Naphthalene	0.07	0.4	0.07	1		U
TCE	0.05	1.0	0.05	1		U
Tetrachloroethene	0.06	1.4	0.06	1		U
Toluene	0.06	1.1	0.06	1		U
Trans-1,2-DCE	0.08	0.6	0.08	1		U
Vinyl chloride	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	110	69-139	
4-Bromofluorobenzene(S)	97.6	75-125	
Dibromofluoromethane(S)	89.3	75-125	
Toluene-D8(S)	106	75-125	

Internal Std	Qualifier
1,4-Dichlorobenzene-D(IS)	
Chlorobenzene-D5(IS)	
Fluorobenzene(IS)	

Comments: ARF: 50099

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: EPA 8260B Preparatory Method: 5030B AAB #: 060404BM-98437
 Lab Name: APPL, Inc Contract #: F41624-03-D-8613, TO 08
 Field Sample ID: LS-2/LS-3-A2 Lab Sample ID: AX38093 Matrix: Water
 % Solids: NA Initial Calibration ID: M060330
 Date Received: 24-Mar-06 Date Prepared: 05-Apr-06 Date Analyzed: 05-Apr-06
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1-DCE	0.12	1.2	0.12	1		U
Bromodichloromethane	0.06	0.8	0.06	1		M ✓
Bromoform	0.13	1.2	0.13	1		U
Chloroform	0.06	0.3	0.06	1		U
Cis-1,2-DCE	0.07	1.2	0.07	1		U
Dibromochloromethane	0.06	0.5	0.06	1		U
Dichlorodifluoromethane	0.11	1.0	0.11	1		U
Methylene chloride	0.51	2.0	1.11	1		F
Naphthalene	0.07	0.4	0.07	1		U
TCE	0.05	1.0	0.05	1		U
Tetrachloroethene	0.06	1.4	0.06	1		U
Toluene	0.06	1.1	0.06	1		U
Trans-1,2-DCE	0.08	0.6	0.08	1		U
Vinyl chloride	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	113	69-139	
4-Bromofluorobenzene(S)	97.1	75-125	
Dibromofluoromethane(S)	91.5	75-125	
Toluene-D8(S)	101	75-125	

Internal Std	Qualifier
1,4-Dichlorobenzene-D(IS)	
Chlorobenzene-D5(IS)	
Fluorobenzene(IS)	

Comments: ARF: 50099

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ORGANIC ANALYSES DATA SHEET 2
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Analytical Method: EPA 8260B Preparatory Method: 5030B AAB #: 060404BM-98437
 Lab Name: APPL, Inc Contract #: F41624-03-D-8613, TO 08
 Field Sample ID: LS-4 Lab Sample ID: AX38094 Matrix: Water
 % Solids: NA Initial Calibration ID: M060330
 Date Received: 24-Mar-06 Date Prepared: 05-Apr-06 Date Analyzed: 05-Apr-06
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1-DCE	0.12	1.2	0.12	1		U
Bromodichloromethane	0.06	0.8	0.06	1		M U
Bromoform	0.13	1.2	0.13	1		U
Chloroform	0.06	0.3	0.06	1		U
Cis-1,2-DCE	0.07	1.2	0.07	1		U
Dibromochloromethane	0.06	0.5	0.06	1		U
Dichlorodifluoromethane	0.11	1.0	0.11	1		U
Methylene chloride	0.51	2.0	1.18	1		F
Naphthalene	0.07	0.4	0.07	1		U
TCE	0.05	1.0	0.05	1		U
Tetrachloroethene	0.06	1.4	0.06	1		U
Toluene	0.06	1.1	0.06	1		U
Trans-1,2-DCE	0.08	0.6	0.08	1		U
Vinyl chloride	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	111	69-139	
4-Bromofluorobenzene(S)	95.5	75-125	
Dibromofluoromethane(S)	90.1	75-125	
Toluene-D8(S)	103	75-125	

Internal Std	Qualifier
1,4-Dichlorobenzene-D(1S)	
Chlorobenzene-D5(1S)	
Fluorobenzene(1S)	

Comments: ARF: 50099

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ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: EPA 8260B Preparatory Method: 5030B AAB #: 060404BM-98437
 Lab Name: APPL, Inc Contract #: F41624-03-D-8613, TO 08
 Field Sample ID: HS-2 Lab Sample ID: AX38095 Matrix: Water
 % Solids: NA Initial Calibration ID: M060330
 Date Received: 24-Mar-06 Date Prepared: 05-Apr-06 Date Analyzed: 05-Apr-06
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1-DCE	0.12	1.2	0.12	1		U
Bromodichloromethane	0.06	0.8	0.06	1		M U
Bromoform	0.13	1.2	0.13	1		U
Chloroform	0.06	0.3	0.06	1		U
Cis-1,2-DCE	0.07	1.2	0.07	1		U
Dibromochloromethane	0.06	0.5	0.06	1		U
Dichlorodifluoromethane	0.11	1.0	0.11	1		U
Methylene chloride	0.51	2.0	1.15	1		F
Naphthalene	0.07	0.4	0.07	1		U
TCE	0.05	1.0	0.05	1		U
Tetrachloroethene	0.06	1.4	0.06	1		U
Toluene	0.06	1.1	0.06	1		U
Trans-1,2-DCE	0.08	0.6	0.08	1		U
Vinyl chloride	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	111	69-139	
4-Bromofluorobenzene(S)	96.9	75-125	
Dibromofluoromethane(S)	91.8	75-125	
Toluene-D8(S)	107	75-125	

Internal Std	Qualifier
1,4-Dichlorobenzene-D(IS)	
Chlorobenzene-D5(IS)	
Fluorobenzene(IS)	

Comments: ARF: 50099