



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

September 5, 2006

U-138-06

Subject: Sampling of Five Bexar Met Water Wells:

LS-2  
LS-3,  
LS-4,  
HS-2,  
HS-3,

Camp Stanley Storage Activity (CSSA) collected groundwater samples from the above wells (LS-2, LS-3, LS-4, HS-2, and HS-3) on 6/21/06. 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			
6/21/06	Tetrachloroethene (PCE)	1.71	5
	Trichloroethene (TCE)	0.58F	5
	<i>cis</i> -1,2-Dichloroethene (DCE)	<0.07 (non-detect)	70
Well LS-3			
6/21/06	PCE	0.92F	5
	TCE	0.34F	5
	DCE	<0.07 (non-detect)	70
Well LS-4			
6/21/06	PCE	0.09F	5
	TCE	<0.05 (non-detect)	5
	DCE	<0.07 (non-detect)	70
Well HS-2			
6/21/06	PCE	0.07F	5
	TCE	<0.05 (non-detect)	5
	DCE	<0.07 (non-detect)	70

Date Sampled	VOC Compound	Result (ppb)	MCL (ppb)
Well HS-3:			
6/21/06	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.

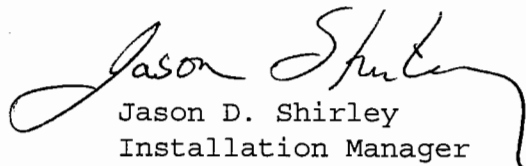
Based on the analytical data, low levels of the VOCs PCE and/or TCE were identified in water samples from wells LS-2, LS-3, LS-4, and HS-2. Results from the laboratory analysis are provided as an attachment for the event included in the summary tables above. The concentrations reported for these VOCs 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.

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 wells 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 Dist.  
Ms. Julie Burdey, Parsons  
Ms. Kimberly Vaughn, Parsons

## Data Anomalies

A data qualifier, M, was placed on the analytes dichlorodifluoromethane and naphthalene for 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 the above-mentioned analytes recovered below the acceptance criteria in one of the other samples from the same data package. Although the results are still considered usable, all above mentioned analyte 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 #: 060630BH-101862  
 Lab Name: APPL, Inc      Contract #: F41624-03-D-8613, TO 08  
 Field Sample ID: LS-2      Lab Sample ID: AX44017      Matrix: Water  
 % Solids: NA      Initial Calibration ID: H060630  
 Date Received: 24-Jun-06      Date Prepared: 01-Jul-06      Date Analyzed: 01-Jul-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	0.10	1		F
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		M <del>U</del>
Methylene chloride	0.51	2.0	0.51	1		U
Naphthalene	0.07	0.4	0.07	1		M <del>U</del>
TCE	0.05	1.0	0.58	1		F
Tetrachloroethene	0.06	1.4	1.71	1		
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

TL  
7/19/06

Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	97.3	69-139	
4-Bromofluorobenzene(S)	98.9	75-125	
Dibromofluoromethane(S)	97.6	75-125	
Toluene-D8(S)	100	75-125	

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

Comments: ARF: 50967

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ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 060630BH-101862  
 Lab Name: APPL, Inc      Contract #: F41624-03-D-8613, TO 08  
 Field Sample ID: LS-3      Lab Sample ID: AX44018      Matrix: Water  
 % Solids: NA      Initial Calibration ID: H060630  
 Date Received: 24-Jun-06      Date Prepared: 01-Jul-06      Date Analyzed: 01-Jul-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		M ✓
Methylene chloride	0.51	2.0	0.51	1		U
Naphthalene	0.07	0.4	0.07	1		M ✓
TCE	0.05	1.0	0.34	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

TC  
7/19/06

Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	97.2	69-139	
4-Bromofluorobenzene(S)	99.8	75-125	
Dibromofluoromethane(S)	94.5	75-125	
Toluene-D8(S)	100	75-125	

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

Comments:      ARF: 50967

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ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 060630BH-101862  
 Lab Name: APPL, Inc      Contract #: F41624-03-D-8613, TO 08  
 Field Sample ID: LS-4      Lab Sample ID: AX44019      Matrix: Water  
 % Solids: NA      Initial Calibration ID: H060630  
 Date Received: 24-Jun-06      Date Prepared: 01-Jul-06      Date Analyzed: 01-Jul-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		M <del>X</del>
Methylene chloride	0.51	2.0	0.51	1		U
Naphthalene	0.07	0.4	0.07	1		M <del>X</del>
TCE	0.05	1.0	0.05	1		U
Tetrachloroethene	0.06	1.4	0.09	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

*Tc*  
*7/19/06*

Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	96.5	69-139	
4-Bromofluorobenzene(S)	97.9	75-125	
Dibromofluoromethane(S)	96.5	75-125	
Toluene-D8(S)	101	75-125	

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

Comments: ARF: 50967

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ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 060630BH-101862  
 Lab Name: APPL, Inc      Contract #: F41624-03-D-8613, TO 08  
 Field Sample ID: HS-2      Lab Sample ID: AX44020      Matrix: Water  
 % Solids: NA      Initial Calibration ID: H060630  
 Date Received: 24-Jun-06      Date Prepared: 01-Jul-06      Date Analyzed: 01-Jul-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		M X
Methylene chloride	0.51	2.0	0.51	1		U
Naphthalene	0.07	0.4	0.07	1		M X
TCE	0.05	1.0	0.05	1		U
Tetrachloroethene	0.06	1.4	0.07	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

TC  
7/19/06

Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	96.6	69-139	
4-Bromofluorobenzene(S)	100	75-125	
Dibromofluoromethane(S)	97.1	75-125	
Toluene-D8(S)	104	75-125	

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

Comments:      ARF: 50967



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ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 060630BH-101862  
 Lab Name: APPL, Inc      Contract #: F41624-03-D-8613, TO 08  
 Field Sample ID: HS-3      Lab Sample ID: AX44021      Matrix: Water  
 % Solids: NA      Initial Calibration ID: H060630  
 Date Received: 24-Jun-06      Date Prepared: 01-Jul-06      Date Analyzed: 01-Jul-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		M <input checked="" type="checkbox"/>
Methylene chloride	0.51	2.0	0.51	1		U
Naphthalene	0.07	0.4	0.07	1		M <input checked="" type="checkbox"/>
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

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Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	91.9	69-139	
4-Bromofluorobenzene(S)	95.3	75-125	
Dibromofluoromethane(S)	95.8	75-125	
Toluene-D8(S)	102	75-125	

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

Comments: ARF: 50967