



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

February 23, 2004

U-031-04

RE: Sampling of Five Water Wells:  
LS-1,  
LS-2,  
LS-3,  
LS-4,  
HS-2,

Camp Stanley Storage Activity (CSSA) collected groundwater samples from the above wells during December 2003 as set out in the summary tables below. 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 detected VOC compounds compared to maximum contaminant levels (MCLs) allowed in drinking water by the U.S. EPA under the Safe Drinking Water Act is provided below:

Date Sampled	VOC compound	Result (ppb)	MCL (ppb)
Well HS-2,			
12/03/03	Tetrachloroethene (PCE)	0.12F	5
	Trichloroethene (TCE)	<0.05 (non-detect)	5
	<i>cis</i> -1,2-Dichloroethene (DCE)	<0.07 (non-detect)	70
Well LS-1,			
12/03/03	PCE	0.31F	5
	TCE	<0.05 (non-detect)	5
	<i>cis</i> -1,2-DCE	<0.07 (non-detect)	70
Well LS-2,			
12/03/03	PCE	1.58	5
	TCE	0.44F	5
	<i>cis</i> -1,2-DCE	<0.07 (non-detect)	70
Well LS-3,			
12/03/03	PCE	1.02F	5
	TCE	0.11F	5
	<i>cis</i> -1,2-DCE	<0.07 (non-detect)	70
Well LS-4,			
12/03/03	PCE	0.12F	5
	TCE	<0.05 (non-detect)	5
	<i>cis</i> -1,2-DCE	<0.07 (non-detect)	70

Date Sampled	VOC compound	Result (ppb)	MCL (ppb)
Well S-4,			
12/03/03 Field Duplicate	PCE	0.12F	5
	TCE	<0.05 (non-detect)	5
	<i>cis</i> -1,2-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 all of the wells. Results from the laboratory analysis are provided as an attachment for the events set out in the summary tables above. Although these VOCs are not naturally occurring, they are below the MCL and as such, do not prevent usability of your wells, as you are aware.

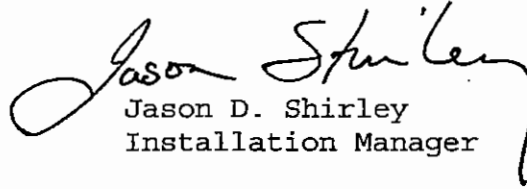
Based on previous results, a granular activated carbon (GAC) filtration system was installed at wells LS-2 and LS-3 by Carbonair Environmental Systems of San Marcos, Texas. CSSA will be responsible for all costs associated with operation and maintenance of this system.

In the past, CSSA has collected a water sample from your well after being processed through the GAC filter system. Analyses of these samples found levels of VOCs below the drinking water criteria demonstrating that the GAC system is working effectively. CSSA collected a confirmation sample in September 2003 to confirm the system remains effective. Results were provided previously. The next post-GAC sampling event is scheduled for March 2004.

As part of the ongoing CSSA environmental program, we are continuing to investigate and cleanup VOC source areas on the installation and 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 one or more of the wells listed above. When arrangements with the contractors are complete, we will contact you with a proposed sampling date and time. Once we have arranged a date with you, CSSA will attempt to provide at least 72 hours notice prior to proposed sampling events.

Again, we would like to thank you for your cooperation. If you have any questions concerning this letter, please contact me at 295-7416.

Sincerely,

  
Jason D. Shirley  
Installation Manager

Attachments

cc: Mr. Greg Lyssy, EPA Region 6  
Mr. Sonny Rayos, TCEQ Central Office  
Mr. Tom Haberle, TCEQ Region 13  
Ms. Abigail Power, TCEQ Region 13  
Ms. Kyle Cunningham, San Antonio Metropolitan Health Dist.  
Ms. Julie Burdey, Parsons

AFCEE  
ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 031209AM-71134  
 Lab Name: APPL, Inc      Contract #: F41624-03-D-8613, TO 08  
 Field Sample ID: HS-2      Lab Sample ID: AP62252      Matrix: Water  
 % Solids: NA      Initial Calibration ID: M031208  
 Date Received: 05-Dec-03      Date Prepared: 09-Dec-03      Date Analyzed: 09-Dec-03  
 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	1.0	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	0.12	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)	92.4	69-139	
4-Bromofluorobenzene(S)	99.8	75-125	
Dibromofluoromethane(S)	97.5	75-125	
Toluene-D8(S)	99.8	75-125	

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

Comments:      ARF: 43286

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ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 031209AM-71134  
 Lab Name: APPL, Inc      Contract #: F41624-03-D-8613, TO 08  
 Field Sample ID: LS-1      Lab Sample ID: AP62258      Matrix: Water  
 % Solids: NA      Initial Calibration ID: M031208  
 Date Received: 05-Dec-03      Date Prepared: 09-Dec-03      Date Analyzed: 09-Dec-03  
 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	1.0	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	0.31	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)	95.3	69-139	
4-Bromofluorobenzene(S)	96.6	75-125	
Dibromofluoromethane(S)	98.1	75-125	
Toluene-D8(S)	99.0	75-125	

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

Comments:      ARF: 43286

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ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 031209AM-71134  
 Lab Name: APPL, Inc      Contract #: F41624-03-D-8613, TO 08  
 Field Sample ID: LS-2      Lab Sample ID: AP62259      Matrix: Water  
 % Solids: NA      Initial Calibration ID: M031208  
 Date Received: 05-Dec-03      Date Prepared: 09-Dec-03      Date Analyzed: 09-Dec-03  
 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	1.0	0.51	1		U
Naphthalene	0.07	0.4	0.07	1		U
TCE	0.05	1.0	0.44	1		F
Tetrachloroethene	0.06	1.4	1.58	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

Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	94.8	69-139	
4-Bromofluorobenzene(S)	98.5	75-125	
Dibromofluoromethane(S)	98.7	75-125	
Toluene-D8(S)	99.7	75-125	

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

Comments:      ARF: 43286

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ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 031209AM-71134  
 Lab Name: APPL, Inc      Contract #: F41624-03-D-8613, TO 08  
 Field Sample ID: LS-3      Lab Sample ID: AP62260      Matrix: Water  
 % Solids: NA      Initial Calibration ID: M031208  
 Date Received: 05-Dec-03      Date Prepared: 09-Dec-03      Date Analyzed: 09-Dec-03  
 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	1.0	0.51	1		U
Naphthalene	0.07	0.4	0.07	1		U
TCE	0.05	1.0	0.11	1		F
Tetrachloroethene	0.06	1.4	1.02	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)	94.3	69-139	
4-Bromofluorobenzene(S)	96.0	75-125	
Dibromofluoromethane(S)	96.4	75-125	
Toluene-D8(S)	97.3	75-125	

Internal Std	Qualifier
1,4-Dichlorobenzene-D1S)	
Chlorobenzene-D5(IS)	
Fluorobenzene(IS)	

Comments:      ARF: 43286

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ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 031209AM-71134  
 Lab Name: APPL, Inc      Contract #: F41624-03-D-8613, TO 08  
 Field Sample ID: LS-4      Lab Sample ID: AP62262      Matrix: Water  
 % Solids: NA      Initial Calibration ID: M031208  
 Date Received: 05-Dec-03      Date Prepared: 09-Dec-03      Date Analyzed: 09-Dec-03  
 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	1.0	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	0.12	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)	96.0	69-139	
4-Bromofluorobenzene(S)	98.3	75-125	
Dibromofluoromethane(S)	98.1	75-125	
Toluene-D8(S)	99.7	75-125	

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

Comments:      ARF: 43286



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ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 031209AM-71134  
 Lab Name: APPL, Inc      Contract #: F41624-03-D-8613, TO 08  
 Field Sample ID: LS-4 (DUP)      Lab Sample ID: AP62261      Matrix: Water  
 % Solids: NA      Initial Calibration ID: M031208  
 Date Received: 05-Dec-03      Date Prepared: 09-Dec-03      Date Analyzed: 09-Dec-03  
 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	1.0	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	0.12	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)	95.1	69-139	
4-Bromofluorobenzene(S)	97.4	75-125	
Dibromofluoromethane(S)	97.6	75-125	
Toluene-D8(S)	98.4	75-125	

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

Comments:      ARF: 43286