



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

June 4, 2004

U-079-04

Subject: Sampling of Water Well RFR-11

Camp Stanley Storage Activity (CSSA) collected groundwater samples from your well (RFR-11) on 3/04/04. 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 below:

Date Sampled	VOC compound	Result (ppb)	MCL (ppb)
Well RFR-11,			
3/04/04	Tetrachloroethene (PCE)	0.99F	5
	Trichloroethene (TCE)	1.25	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 your well. Results from the laboratory analysis are provided as an attachment for the above sampling events. The concentrations reported for these VOCs were above the MCL in the past. Therefore, a filtration system was installed on your well.

As reported previously, the filtration system was installed in October 2001, by Carbonair Environmental Systems of San Marcos, Texas. The system will remain in operation for the foreseeable future or until significant reductions in contamination levels are seen in the water in your well before it enters the filtration system. As we discussed at the time of installation, CSSA will be responsible for all costs associated with operation and maintenance of this system. CSSA will send a representative on a monthly basis to exchange the five-micron pre-and post-filters in the system.



Carbonair performed maintenance on the system in February 2004. Maintenance will be scheduled approximately every six months. Carbonair will exchange the first carbon canister and perform other routine maintenance operations at each six month visit. If you experience any problems with the system, please let the installer or CSSA know immediately. Carbonair is very responsive and can make additional maintenance visits if needed.

On 3/04/04, CSSA collected a sample from your well after the water was processed through the granular activated carbon (GAC) filter system. Based on the analytical data, no VOCs related to CSSA's groundwater investigation were identified, demonstrating that the GAC system is working effectively. 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 2004.

Date Sampled	VOC compound	Result (ppb)	MCL (ppb)
Well RFR-11 POST GAC:			
3/04/04 A2 POST GAC	PCE	<0.06 (non-detect)	5
	TCE	<0.05 (non-detect)	5
	DCE	<0.07 (non-detect)	70
3/04/04 A2 POST GAC Field Duplicate	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.

In addition, a laboratory quality assurance flag was placed on the analyte 1,1-dichloroethene (1,1-DCE) for results from your wells. The laboratory is required to follow certain quality assurance procedures, including matrix spike and matrix spike duplicate analyses. The matrix spike analysis had 1,1-DCE approximately 3% below the lower acceptance criteria of 75% in another well from the same data package. The matrix spike duplicate met the required quality assurance criteria. However, in accordance with the CSSA QAPP, the results for 1,1-DCE were flagged "M" for all samples in this sample data package. All data for the March 2004 off-post groundwater monitoring event is considered usable. The "M" flag applied for 1,1-DCE (0.12M ppb) does not affect usability of your wells, after GAC treatment.

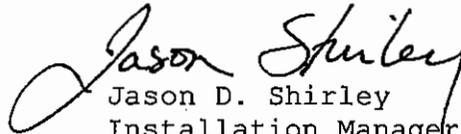
As part of the ongoing CSSA environmental program, we are continuing to investigate and cleanup VOC source areas on the installation and to track these compounds in groundwater on- and off-post. As part of this effort, we may contact you in the future to schedule another sampling event for the wells 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. We regret that your well has 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 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. Henry Karnei, 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 #: 040310AN-73556
 Lab Name: APPL, Inc Contract #: F41624-03-D-8613, TO 08
 Field Sample ID: RFR-11 Lab Sample ID: AP66477 Matrix: Water
 % Solids: NA Initial Calibration ID: N040309
 Date Received: 05-Mar-04 Date Prepared: 10-Mar-04 Date Analyzed: 10-Mar-04
 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	0.51	1		U
Naphthalene	0.07	0.4	0.07	1		U
TCE	0.05	1.0	1.25	1		U
Tetrachloroethene	0.06	1.4	0.99	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

MR 3/25/04

Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	101	69-139	
4-Bromofluorobenzene(S)	104	75-125	
Dibromofluoromethane(S)	99.9	75-125	
Toluene-D8(S)	101	75-125	

Internal Std	Qualifier
1,4-Dichlorobenzene-D1(S)	
Chlorobenzene-D5(IS)	
Fluorobenzene(IS)	

Comments: ARF: 43889

See comment on page 43. MR 3/25/04

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: EPA 8260B Preparatory Method: 5030B AAB #: 040310AN-73556
 Lab Name: APPL, Inc Contract #: F41624-03-D-8613, TO 08
 Field Sample ID: RFR-11-A2 Lab Sample ID: AP66479 Matrix: Water
 % Solids: NA Initial Calibration ID: N040309
 Date Received: 05-Mar-04 Date Prepared: 10-Mar-04 Date Analyzed: 10-Mar-04
 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	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

UAP 3/25/04

Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	94.1	69-139	
4-Bromofluorobenzene(S)	106	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: 43889

See comment on page 43. UAP 3/25/04

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method: EPA 8260B Preparatory Method: 5030B AAB #: 040310AN-73556
 Lab Name: APPL, Inc Contract #: F41624-03-D-8613, TO 08
 Field Sample ID: RFR-11-A2 DUP Lab Sample ID: AP66478 Matrix: Water
 % Solids: NA Initial Calibration ID: N040309
 Date Received: 05-Mar-04 Date Prepared: 10-Mar-04 Date Analyzed: 10-Mar-04
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1-DCE	0.12	1.2	0.12	1		M ✓
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	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

*ADP
3/25/04*

Surrogate	Recovery	Control Limits	Qualifier
1,2-DCA-D4(S)	99.1	69-139	
4-Bromofluorobenzene(S)	106	75-125	
Dibromofluoromethane(S)	101	75-125	
Toluene-D8(S)	103	75-125	

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

Comments: ARF: 43889 *Field Duplicate of sample RFR-11-A2. See comment on page 43 for "M" flag explanation.* *ADP 3/25/04*