



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

November 30, 2021

U-048-21

SUBJECT: Sampling of Water Wells LS-5, Located at 7579 Curres Creek Road and  
LS-6, Located at 7655 Curres Creek Road

[REDACTED]  
[REDACTED]  
Boerne, TX 78015

Dear [REDACTED]:

Camp Stanley Storage Activity (CSSA) collected groundwater samples from your wells (LS-5 and LS-6) on 9/1/21 and 10/27/21. 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 LS-5, serves 7655 & 7579 Curres Creek Road			
9/1/21	Tetrachloroethene (PCE)	1.24F*	5
	Trichloroethene (TCE)	4.04	5
	<i>cis</i> -1,2-Dichloroethene (DCE)	<0.07 (non-detect)	70
Well LS-6, serves 7655 Curres Creek Road			
9/1/21	Tetrachloroethene (PCE)	0.99F*	5
	Trichloroethene (TCE)	0.23F*	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. The "F" qualified value should be considered estimated.

Based on the analytical data, levels of the VOCs PCE and TCE were identified in the water samples from your wells LS-5 and LS-6 before granular activated carbon (GAC) filtration. Results from the laboratory analyses are provided as an attachment for the above sampling event. These levels are below the applicable MCLs and do not

affect usability of your wells. The concentrations reported in your wells LS-5 and LS-6 were above or approaching the MCL for VOCs in the past. Therefore, a filtration system was installed on each well.

Evoqua Water Technologies of Houston, Texas provides maintenance for the GAC filtration systems on your wells. The systems 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 continue to be responsible for all costs associated with operation and maintenance of these systems. CSSA will continue to send a representative every three weeks to exchange the five-micron pre- and post-filters in the system.

Evoqua exchanged the first carbon canister and performed other routine maintenance on your systems October 19, 2021. If you experience any problems with the systems, please let the installer or CSSA know immediately. Evoqua is very responsive and can make additional maintenance visits if needed.

On both 9/1/21 and 10/27/21, CSSA collected samples after the water from your wells LS-5 and LS-6 was processed through the GAC filter systems. These samples are representative of the water being delivered to you for daily use. A trace detection of *cis*-1,2-DCE was identified in the sample collected 9/1/21 after the second carbon canisters (A2) at well LS-6. Because this trace detection (0.16 ppb) is only slightly above the laboratory's method detection limit for *cis*-1,2-DCE (0.07 ppb), and also because no *cis*-1,2-DCE was detected in the sample from well LS-6 prior to entry into the GAC filtration system, the presence of *cis*-1,2-DCE at the reported value is uncertain and questionable. Therefore, follow up post-GAC (LS-6-A2) sampling was conducted on 10/27/21, and these results indicated no detectable PCE, TCE, or *cis*-1,2-DCE in the water being delivered for daily use. 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 on a 6-month basis to confirm the systems remain effective.

Date Sample	VOC compound	Result (ppb)	MCL (ppb)
LS-5-A2, serves 7655 & 7579 Curres Creek Road			
9/1/21	PCE	<0.06 (non-detect)	5
	TCE	<0.05 (non-detect)	5
	<i>cis</i> -1,2-DCE	<0.07 (non-detect)	70
LS-6-A2, serves 7655 Curres Creek Road			
9/1/21	PCE	<0.06 (non-detect)	5
	TCE	<0.05 (non-detect)	5
	<i>cis</i> -1,2-DCE	0.16F	70
LS-5-A2, serves 7655 & 7579 Curres Creek Road			
10/27/21	PCE	<0.06 (non-detect)	5
	TCE	<0.05 (non-detect)	5
	<i>cis</i> -1,2-DCE	<0.07 (non-detect)	70

Date Sample	VOC compound	Result (ppb)	MCL (ppb)
LS-6-A2, serves 7655 Curres Creek Road			
10/27/21	PCE	<0.06 (non-detect)	5
	TCE	<0.05 (non-detect)	5
	<i>cis</i> -1,2-DCE	<0.07 (non-detect)	70
LS-6-A2, field duplicate			
10/27/21	PCE	<0.06 (non-detect)	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. The "F" qualified value should be considered estimated.

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, your wells are scheduled to be sampled again in December 2021.

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 Gabriel Moreno-Fergusson, Environmental Program Manager, at (210) 295-7067.

Sincerely,



T. Glenn Moore  
Installation Manager

Enclosure

cc: Mr. Greg Lyssy, EPA Region 6  
Mr. Timothy Brown, TCEQ Central Office  
Mr. Jorge Salazar, 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 #: 210908AL-269244  
 Lab Name: APPL, Inc      Contract #: \*G012  
 Field Sample ID: LS-5\_090121\_N0858      Lab Sample ID: BA39807      Matrix: Water  
 % Solids: NA      Initial Calibration ID: 210907  
 Date Received: 03-Sep-21      Date Prepared: 08-Sep-21      Date Analyzed: 08-Sep-21  
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
CIS-1,2-DCE	0.07	1.2	0.07	1		U
TCE	0.05	1.0	4.04	1		
TETRACHLOROETHENE	0.06	1.4	1.24	1		F
VINYL CHLORIDE	0.08	1.1	0.08	1		U

  

Surrogate	Recovery	Control Limits	Qualifier
SURROGATE: 1,2-DICHLOROETHANE-	105	81-118	
SURROGATE: 4-BROMOFLUOROBENZ	95.4	85-114	
SURROGATE: DIBROMOFLUOROMETH	98.9	80-119	
SURROGATE: TOLUENE-D8 (S)	96.8	89-112	

  

Internal Std	Qualifier
1,4-DICHLOROBENZENE-D4 (IS)	
CHLOROBENZENE-D5 (IS)	
FLUOROBENZENE (IS)	

Comments:

ARF: 97401



AFCEE  
ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 210908AL-269244  
 Lab Name: APPL, Inc      Contract #: \*G012  
 Field Sample ID: LS-5-A2\_090121\_N0903      Lab Sample ID: BA39808      Matrix: Water  
 % Solids: NA      Initial Calibration ID: 210907  
 Date Received: 03-Sep-21      Date Prepared: 08-Sep-21      Date Analyzed: 08-Sep-21  
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
CIS-1,2-DCE	0.07	1.2	0.07	1		U
TCE	0.05	1.0	0.05	1		U
TETRACHLOROETHENE	0.06	1.4	0.06	1		U
VINYL CHLORIDE	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
SURROGATE: 1,2-DICHLOROETHANE-	107	81-118	
SURROGATE: 4-BROMOFLUOROBENZ	97.4	85-114	
SURROGATE: DIBROMOFLUOROMETH	100	80-119	
SURROGATE: TOLUENE-D8 (S)	96.1	89-112	

Internal Std	Qualifier
1,4-DICHLOROBENZENE-D4 (IS)	
CHLOROBENZENE-D5 (IS)	
FLUOROBENZENE (IS)	

Comments:

ARF: 97401

AFCEE  
ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 210908AL-269244  
 Lab Name: APPL, Inc      Contract #: \*G012  
 Field Sample ID: LS-6\_090121\_N0920      Lab Sample ID: BA39809      Matrix: Water  
 % Solids: NA      Initial Calibration ID: 210907  
 Date Received: 03-Sep-21      Date Prepared: 08-Sep-21      Date Analyzed: 08-Sep-21  
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
CIS-1,2-DCE	0.07	1.2	0.07	1		U
TCE	0.05	1.0	0.23	1		F
TETRACHLOROETHENE	0.06	1.4	0.99	1		F
VINYL CHLORIDE	0.08	1.1	0.08	1		U

  

Surrogate	Recovery	Control Limits	Qualifier
SURROGATE: 1,2-DICHLOROETHANE-	104	81-118	
SURROGATE: 4-BROMOFLUOROBENZ	93.3	85-114	
SURROGATE: DIBROMOFLUOROMETH	99.5	80-119	
SURROGATE: TOLUENE-D8 (S)	94.7	89-112	

  

Internal Std	Qualifier
1,4-DICHLOROBENZENE-D4 (IS)	
CHLOROBENZENE-D5 (IS)	
FLUOROBENZENE (IS)	

Comments:

ARF: 97401

AFCEE  
ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 210908AL-269244  
 Lab Name: APPL, Inc      Contract #: \*G012  
 Field Sample ID: LS-6-A2\_090121\_N0925      Lab Sample ID: BA39810      Matrix: Water  
 % Solids: NA      Initial Calibration ID: 210907  
 Date Received: 03-Sep-21      Date Prepared: 08-Sep-21      Date Analyzed: 08-Sep-21  
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
CIS-1,2-DCE	0.07	1.2	0.16	1		F
TCE	0.05	1.0	0.05	1		U
TETRACHLOROETHENE	0.06	1.4	0.06	1		U
VINYL CHLORIDE	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
SURROGATE: 1,2-DICHLOROETHANE-	105	81-118	
SURROGATE: 4-BROMOFLUOROBENZ	95.0	85-114	
SURROGATE: DIBROMOFLUOROMETH	101	80-119	
SURROGATE: TOLUENE-D8 (S)	93.7	89-112	

Internal Std	Qualifier
1,4-DICHLOROBENZENE-D4 (IS)	
CHLOROBENZENE-D5 (IS)	
FLUOROBENZENE (IS)	

Comments:

ARF: 97401

AFCEE FORM O-2

AFCEE  
ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 211103AM-269931  
 Lab Name: APPL, Inc      Contract #: \*G012  
 Field Sample ID: LS-5-A2\_102721\_N1320      Lab Sample ID: BA44453      Matrix: Water  
 % Solids: NA      Initial Calibration ID: 211029  
 Date Received: 28-Oct-21      Date Prepared: 03-Nov-21      Date Analyzed: 03-Nov-21  
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
CIS-1,2-DCE	0.07	1.2	0.07	1		U
TCE	0.05	1.0	0.05	1		U
TETRACHLOROETHENE	0.06	1.4	0.06	1		U
VINYL CHLORIDE	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
SURROGATE: 1,2-DICHLOROETHANE-	104	81-118	
SURROGATE: 4-BROMOFLUOROBENZE	101	85-114	
SURROGATE: DIBROMOFLUOROMETH	104	80-119	
SURROGATE: TOLUENE-D8 (S)	101	89-112	

Internal Std	Qualifier
1,4-DICHLOROBENZENE-D4 (IS)	
CHLOROBENZENE-D5 (IS)	
FLUOROBENZENE (IS)	

Comments:

ARF: 98004

AFCEE FORM O-2



AFCEE  
ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 211103AM-269931  
 Lab Name: APPL, Inc      Contract #: \*G012  
 Field Sample ID: LS-6-A2\_102721\_N1310      Lab Sample ID: BA44451      Matrix: Water  
 % Solids: NA      Initial Calibration ID: 211029  
 Date Received: 28-Oct-21      Date Prepared: 03-Nov-21      Date Analyzed: 03-Nov-21  
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
CIS-1,2-DCE	0.07	1.2	0.07	1		U
TCE	0.05	1.0	0.05	1		U
TETRACHLOROETHENE	0.06	1.4	0.06	1		U
VINYL CHLORIDE	0.08	1.1	0.08	1		U

Surrogate	Recovery	Control Limits	Qualifier
SURROGATE: 1,2-DICHLOROETHANE-	102	81-118	
SURROGATE: 4-BROMOFLUOROBENZE	95.2	85-114	
SURROGATE: DIBROMOFLUOROMETH	107	80-119	
SURROGATE: TOLUENE-D8 (S)	98.1	89-112	

Internal Std	Qualifier
1,4-DICHLOROBENZENE-D4 (IS)	
CHLOROBENZENE-D5 (IS)	
FLUOROBENZENE (IS)	

Comments:

ARF: 98004

AFCEE FORM O-2

AFCEE  
ORGANIC ANALYSES DATA SHEET 2  
RESULTS

Analytical Method: EPA 8260B      Preparatory Method: 5030B      AAB #: 211103AM-269931  
 Lab Name: APPL, Inc      Contract #: \*G012  
 Field Sample ID: LS-6-A2\_102721\_FD1310      Lab Sample ID: BA44452      Matrix: Water  
 % Solids: NA      Initial Calibration ID: 211029  
 Date Received: 28-Oct-21      Date Prepared: 03-Nov-21      Date Analyzed: 03-Nov-21  
 Concentration Units: ug/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
CIS-1,2-DCE	0.07	1.2	0.07	1		U
TCE	0.05	1.0	0.05	1		U
TETRACHLOROETHENE	0.06	1.4	0.06	1		U
VINYL CHLORIDE	0.08	1.1	0.08	1		U

  

Surrogate	Recovery	Control Limits	Qualifier
SURROGATE: 1,2-DICHLOROETHANE-	103	81-118	
SURROGATE: 4-BROMOFLUOROBENZE	98.8	85-114	
SURROGATE: DIBROMOFLUOROMETH	104	80-119	
SURROGATE: TOLUENE-D8 (S)	102	89-112	

  

Internal Std	Qualifier
1,4-DICHLOROBENZENE-D4 (IS)	
CHLOROBENZENE-D5 (IS)	
FLUOROBENZENE (IS)	

Comments:

ARF: 98004

AFCEE FORM O-2