



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

2 July 2003

U - 079 - 03

Mr. Sonny Rayos
Texas Commission on Environmental Quality
Remediation Division
P.O. Box 13087
Austin, TX 78711-3087

Subject: Response to Texas Commission on Environmental Quality
(TCEQ) suggestions in the May 2003 approval letter for the
September 2002 Off-Post Quarterly Groundwater Monitoring
Report, Camp Stanley Storage Activity, Boerne, Texas

Dear Mr. Rayos:

The Camp Stanley Storage Activity (CSSA), Red River Army Depot, Tank-Automotive and Armaments Command, Army Material Command, U.S. Army, would like to clarify some questions raised in your May 7, 2003, letter approving the September 2002 Off-post Quarterly Groundwater Monitoring Report submitted for your review. In your response, you noted the following:

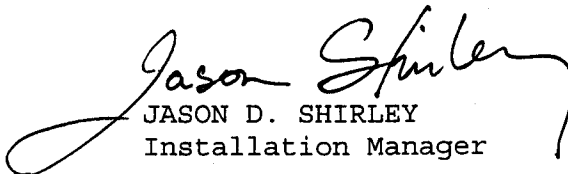
"The TCEQ, however, has one suggestion in resolving whether the methylene chloride is actual groundwater contamination or laboratory artifact. The TCEQ suggests the collection and analyses of a field blank and a laboratory blank samples."

In compliance with CSSA's Off-post Monitoring Response Plan and the AFCEE QAPP, CSSA's contractor collects and submits trip blanks for each cooler containing samples for volatiles analyses during quarterly monitoring events. Trip blanks were submitted for the September 2002 off-post sampling event. The trip blank data, however, was not included in the tables that were originally submitted to you with the September 2002 Off-post Groundwater Report. We have attached updated tables, which include the trip blank data for your review.

Additionally, the laboratory analyzed method blanks with each analytical batch from the September 2002 data. The laboratory and trip blanks were reviewed as part of the data validation process in accordance with the AFCEE QAPP by Parsons' chemists and the data packages were subsequently approved by AFCEE chemists. All blanks associated with the September 2002 sampling event were free of methylene chloride at or above the laboratory RL.

Should you have any other questions regarding your May 7, 2003, correspondence, please do not hesitate to contact me at (210) 295-7416.

Sincerely,


JASON D. SHIRLEY
Installation Manager

Attachment

cc: Mr. Greg Lyssy
EPA Region 6

Mr. Kent Grubb
U.S. Army, Army Medical Command, Fort Sam Houston, Staff Judge
Advocate

Ms. Teri DuPriest
Air Force Center for Environmental Excellence

Ms. Julie Burdey
Parsons

September 2002 Groundwater Monitoring, Detected Analytes Only with Trip Blank Results

Method Analyte	Sample ID			Sample Date			Sample Type			Lab Sample ID			Results			Flag			SQL			DL					
	Lab	MDL	MCL	Lab	RI	MCL	Lab	RI	MCL	Lab	RI	MCL	Lab	RI	MCL	Lab	RI	MCL	Lab	RI	MCL	Lab	RI	MCL	Lab	RI	MCL
SW8260 (ug/L) Bromodichloromethane Chloroform Chloromethane Dibromochloromethane Dichlorodifluoromethane Dichloroethene, cis-1,2- Dichloroethene, 4- (Cymene, p-) Isopropyltoluene, 4- (Cymene, p-) Methylene chloride Tetrachloroethene Trichloroethene	0.06	0.80	—	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1
	0.06	0.30	100	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1
	0.16	1.30	—	0.16	0.16	1	0.16	0.16	1	0.16	0.16	1	0.16	0.16	1	0.16	0.16	1	0.16	0.16	1	0.16	0.16	1	0.16	0.16	1
	0.06	0.50	—	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1
	0.11	1.00	—	0.11	0.11	1	0.11	0.11	1	0.11	0.11	1	0.11	0.11	1	0.11	0.11	1	0.11	0.11	1	0.11	0.11	1	0.11	0.11	1
	0.07	1.20	70	0.07	0.07	1	0.07	0.07	1	0.07	0.07	1	0.07	0.07	1	0.07	0.07	1	0.07	0.07	1	0.07	0.07	1	0.07	0.07	1
	0.05	1.20	—	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1
	0.51	1.00	—	0.51	0.51	1	0.51	0.51	1	0.51	0.51	1	0.51	0.51	1	0.51	0.51	1	0.51	0.51	1	0.51	0.51	1	0.51	0.51	1
	0.06	1.40	5	0.17	0.06	1	0.17	0.06	1	0.17	0.06	1	0.17	0.06	1	0.17	0.06	1	0.17	0.06	1	0.17	0.06	1	0.17	0.06	1
	0.05	1.00	5	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1
SW8260 (ug/L) Bromodichloromethane Chloroform Chloromethane Dibromochloromethane Dichlorodifluoromethane Dichloroethene, cis-1,2- Isopropyltoluene, 4- (Cymene, p-) Methylene chloride Tetrachloroethene Trichloroethene	0.06	0.80	—	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1
	0.06	0.30	100	0.17	0.06	1	0.17	0.06	1	0.17	0.06	1	0.17	0.06	1	0.17	0.06	1	0.17	0.06	1	0.17	0.06	1	0.17	0.06	1
	0.16	1.30	—	0.16	0.16	1	0.16	0.16	1	0.16	0.16	1	0.16	0.16	1	0.16	0.16	1	0.16	0.16	1	0.16	0.16	1	0.16	0.16	1
	0.06	0.50	—	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1
	0.11	1.00	—	0.11	0.11	1	0.11	0.11	1	0.11	0.11	1	0.11	0.11	1	0.11	0.11	1	0.11	0.11	1	0.11	0.11	1	0.11	0.11	1
	0.07	1.20	70	0.07	0.07	1	0.07	0.07	1	0.07	0.07	1	0.07	0.07	1	0.07	0.07	1	0.07	0.07	1	0.07	0.07	1	0.07	0.07	1
	0.05	1.20	—	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1
	0.51	1.00	—	0.51	0.51	1	0.51	0.51	1	0.51	0.51	1	0.51	0.51	1	0.51	0.51	1	0.51	0.51	1	0.51	0.51	1	0.51	0.51	1
	0.06	1.40	5	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1	0.06	0.06	1
	0.05	1.00	5	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1	0.05	0.05	1

Value > or = MCL
MCL > Value > or = RL
RL > Value >MDL

September 2002 Groundwater Monitoring, Detected Analytes Only with Trip Blank Results

Method Analyte	Sample ID			Sample Date			Sample Type			Lab Sample ID			
	Sample ID			Sample Date			Sample Type			Lab Sample ID			
	Lab	MDL	MCL	Lab	MDL	MCL	Lab	MDL	MCL	Lab	MDL	MCL	
SW8260 (ug/L) Bromodichloromethane Chloroform Chloromethane Dibromochloromethane Dichlorodifluoromethane Dichloroethene, cis-1,2- Isopropyltoluene, 4- (Cymene, P-) Methylene chloride Tetrachloroethene Trichloroethene	LS-7	9/16/2002	N	39354/D21170269	0.17 F	0.06	1	0.06 U	0.06	1	0.06 U	0.06	1
	LS-7-A2	9/16/2002	N	39354	0.06 R	0.06	1	0.06 U	0.06	1	0.06 U	0.06	1
	OFR-1	9/18/2002	N	39376	0.06 U	0.06	1	0.06 U	0.06	1	0.06 U	0.06	1
	OFR-2	9/18/2002	N	39376	0.16 R	0.16	1	0.16 U	0.16	1	0.16 U	0.16	1
	OFR-3	9/16/2002	N	39354/D21170269	0.06 U	0.06	1	0.06 U	0.06	1	0.06 U	0.06	1
	OFR-10	9/16/2002	N	D21170269	0.11 U	0.11	1	0.11 U	0.11	1	0.11 U	0.11	1
					0.07 U	0.07	1	0.07 U	0.07	1	0.07 U	0.07	1
					0.05 U	0.05	1	0.05 U	0.05	1	0.05 U	0.05	1
					0.51 U	0.51	1	0.51 U	0.51	1	0.51 U	0.51	1
					0.06	0.06	1	0.06 F	0.06	1	0.06 U	0.06	1

Method Analyte	Sample ID			Sample Date			Sample Type			Lab Sample ID			
	Sample ID			Sample Date			Sample Type			Lab Sample ID			
	Lab	MDL	MCL	Lab	MDL	MCL	Lab	MDL	MCL	Lab	MDL	MCL	
SW8260 (ug/L) Bromodichloromethane Chloroform Chloromethane Dibromochloromethane Dichlorodifluoromethane Dichloroethene, cis-1,2- Isopropyltoluene, 4- (Cymene, P-) Methylene chloride Tetrachloroethene Trichloroethene	LS-7	9/16/2002	N	39354/D21170269	0.17 F	0.06	1	0.06 U	0.06	1	0.06 U	0.06	1
	LS-7-A2	9/16/2002	N	39354	0.06 R	0.06	1	0.06 U	0.06	1	0.06 U	0.06	1
	OFR-1	9/18/2002	N	39376	0.06 U	0.06	1	0.06 U	0.06	1	0.06 U	0.06	1
	OFR-2	9/18/2002	N	39376	0.16 R	0.16	1	0.16 U	0.16	1	0.16 U	0.16	1
	OFR-3	9/16/2002	N	39354/D21170269	0.06 U	0.06	1	0.06 U	0.06	1	0.06 U	0.06	1
	OFR-10	9/16/2002	N	D21170269	0.11 U	0.11	1	0.11 U	0.11	1	0.11 U	0.11	1
					0.07 U	0.07	1	0.07 U	0.07	1	0.07 U	0.07	1
					0.05 U	0.05	1	0.05 U	0.05	1	0.05 U	0.05	1
					0.51 U	0.51	1	0.51 U	0.51	1	0.51 U	0.51	1
					0.06	0.06	1	0.06 F	0.06	1	0.06 U	0.06	1

Value > or = MCL
MCL > Value > or = RL
RL > Value > MDL

Tables present all laboratory results for analytes detected above the method detection limit. Results from all laboratory analysis are presented in Appendix B. All samples were analyzed by APPL Inc. unless otherwise noted. Referenced laboratory package number: APPL Inc.: D21170269, D21180253, ARF39354, ARF39366, ARF39376.

Lab
MDL
MCL
Results
Flag
SQL
DL

Data Qualifiers:
F - The analyte was positively identified but the associated numerical value is below the RL.
J - The analyte was positively identified, the quantitation is an estimation.
U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the MDL.
R - The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria.
M - Matrix Effect Present