

Table 4.12. Detected VOCs and Metals in the Bexar Shale

	Sample ID		CS-MW6-BS		CS-MW6-BS		CS-MW7-CC		CS-MW9-CC		CS-MW9-CC		CS-MW10-CC		CS-MW10-CC		CS-MW10-CC																				
	Sample Date	Matrix	Sample Type	Beginning Depth	End Depth	Lab Sample ID	Results	Flag	Dilution	SQL	Results	Flag	Dilution	SQL	Results	Flag	Dilution	SQL																			
Sample Comparison Criteria (mg/kg)			APPL		TX-specific																																
Method	MDL	Lab RL	Median Conc.	GWP-Ind	SAI-Ind	Results	Flag	Dilution	SQL	Results	Flag	Dilution	SQL	Results	Flag	Dilution	SQL	Results	Flag	Dilution	SQL																
<b>D2216 (%)</b>																																					
Total Solids						91.				92.9				87.8				91.8			89.					78.9					87.9					92.4	
<b>SW6010B (MG/KG)</b>																																					
Barium	0.08	1.0	300	200	59000	6.59		1	1.	12.31		1	1.	1.66		1	1.	45.58		1	2.	8.72	J	1	1.	15.86		1	1.	14.6		1	1.	13.31		1	1.
Chromium	0.1	20	30	10	350000	11.8	F	1	20.	<b>57.3</b>		1	20.	1.9	F	1	20.	<b>31.8</b>	F	1	40.	19.6	F	1	20.	<b>47.7</b>		1	20.	<b>41.4</b>		1	20.	<b>52.6</b>		1	20.
Copper	0.19	2.0	15	130	74000	3.10		1	2.	7.48		1	2.	0.56	F	1	2.	14.88		1	2.	3.76		1	2.	8.01		1	2.	7.92		1	2.	7.24		1	2.
Nickel	0.12	2.0	10	200	12000	7.71		1	2.	<b>15.71</b>		1	2.	0.75	F	1	2.	<b>125.86</b>		1	2.	9.96	J	1	2.	<b>16.94</b>		1	2.	<b>15.88</b>		1	2.	<b>17.48</b>		1	2.
Zinc	0.63	5.0	30	3100	410000	8.16		1	5.	13.71		1	5.	4.18	F	1	5.	<b>183.20</b>		1	5.	9.18		1	5.	22.78		1	5.	20.99		1	5.	<b>35.70</b>		1	5.
<b>SW7060A (MG/KG)</b>																																					
Arsenic	0.04	0.5	5.9	1	200	2.37		1	0.5	2.54		1	0.5	0.04	J	1	0.5	0.08	J,U	1	0.5	<b>8.55</b>	J	5	2.5	3.27		5	2.5	3.76		5	2.5	5.1		5	2.5
<b>SW7131A (MG/KG)</b>																																					
Cadmium	0.01	0.1	0.1	0.5	1500	0.01	U	1	0.1	0.07	F	1	0.1	<b>0.13</b>	J	1	0.1	<b>0.1</b>	F	1	0.1	0.01	J	1	0.1	<b>0.12</b>		1	0.1	<b>0.11</b>		1	0.1	<b>0.36</b>		4	0.4
<b>SW7421 (MG/KG)</b>																																					
Lead	0.13	0.5	15	1.5	1000	2.47		1	0.5	2.51		1	0.5	1.08		1	0.5	0.58	F	1	0.5	2.75		1	0.5	3.68		1	0.5	4.22		1	0.5	2.38		1	0.5
<b>SW7471A (MG/KG)</b>																																					
Mercury	0.01	0.1	0.04	0.2	9.6	0.01	U	1	0.1	0.01	U	1	0.1	0.02	F	1	0.1	<b>0.04</b>	F	1	0.1	0.03	F	1	0.1	0.01	U	1	0.1	0.01	U	1	0.1	0.01	U	1	0.1
<b>SW8260 (MG/KG)</b>																																					
Bromobenzene	0.0003	0.002	-	200	11	0.0003	U	1	0.002	0.0003	U	1	0.002	0.0003	U	1	0.002	0.0006	U	1	0.004	0.0003	R	1	0.002	0.0011	F	1	0.002	-	-	-	-	0.0009	U	1	0.002
Dichlorobenzene, 1,4-	0.0007	0.002	-	7.5	2400	0.0007	U	1	0.002	0.0007	U	1	0.002	0.0007	U	1	0.002	0.0014	U	1	0.004	0.0007	R	1	0.002	0.0015	F	1	0.002	-	-	-	-	0.0008	U	1	0.002
Naphthalene	0.001	0.02	-	200	270	0.001	U	1	0.02	0.001	U	1	0.02	0.003	F	1	0.02	0.002	U	1	0.04	0.001	R	1	0.02	0.0038	F	1	0.02	-	-	-	-	0.001	U	1	0.02
Trichlorobenzene, 1,2,3-	0.0008	0.004	-	31	2000	0.0008	U	1	0.004	0.0008	U	1	0.004	0.0013	F	1	0.004	0.0016	U	1	0.008	0.0008	R	1	0.004	0.0023	F	1	0.004	-	-	-	-	0.001	U	1	0.004
Trichlorobenzene, 1,2,4-	0.0006	0.004	-	7	6100	0.0006	U	1	0.004	0.0006	U	1	0.004	0.0015	F	1	0.004	0.0012	U	1	0.008	0.0007	R	1	0.004	0.0023	F	1	0.004	-	-	-	-	0.001	U	1	0.004

**Abbreviations/Notes:**  
**Bolded and Highlighted samples indicate results greater than Texas-specific median background concentrations**  
 Boxed samples exceed RRS2 standards when median background concentrations < RRS2  
 a Background values from Revised Background Report, 2000  
 APPL APPL Laboratories  
 DL Dilution  
 FD1 Field Duplicate  
 GWP-Ind Soil MSC based upon groundwater protection  
 MDL Method Detection Limit  
 N1 Environmental Sample  
 - Not Available  
 RL Reporting Limit  
 SAI-Ind Industrial use MSC based on inhalation, ingestion, and dermal contact  
 SQL Sample Quantitation Limit

**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.  
 M - A matrix effect was present.  
 U - The analyte was analyzed for, but not detected. The associated numerical value is the MDL.  
 R- The data are unusable due to deficiencies in the ability to analyze the sample and meet QC criteria