

Table B3-3 Chemical Constituents Detected in Soil at SWMU B-3, February 1996  
Camp Stanley Storage Activity, Texas

Constituent	Soil Comparison Criteria						Soil Sample Analytical Results <sup>a</sup>																		
	Lab MDL	Lab PQL	Back-ground <sup>b</sup> Glen Rose	Back-ground <sup>b</sup> Tarrant	RRS2-GWP <sup>c</sup> (Ind.)	RRS2-SAI <sup>c</sup> (Ind.)	VEW-1 Depth (ft)	VEW-1 Soil/Rock Type	VEW-1 Date Collected	VEW-2 Depth (ft)	VEW-2 Soil/Rock Type	VEW-2 Date Collected	VEW-3 Depth (ft)	VEW-3 Soil/Rock Type	VEW-3 Date Collected	VEW-6 Depth (ft)	VEW-6 Soil/Rock Type	VEW-6 Date Collected	MPA Depth (ft)	MPA Soil/Rock Type	MPA Date Collected	MPB Depth (ft)	MPB Soil/Rock Type	MPB Date Collected	
<b>VOCs, SW8260A (ug/kg):</b>																									
Chlorobenzene	NA	4	--	--	10,000	450,000	2,000 U <sub>1</sub>	2,000	2,000 U <sub>1</sub>	20 U <sub>1</sub>	20 U <sub>1</sub>	200 U <sub>1</sub>	4 U <sub>1</sub>	2,000 U <sub>1</sub>	200 U <sub>1</sub>				200 U <sub>1</sub>	4 U <sub>1</sub>	2,900	200 U <sub>1</sub>			
cis-1,2-Dichloroethene	NA	4	--	--	7	2,500	27,800	5,000	9,200	20 U <sub>1</sub>	7.44	200 U <sub>1</sub>	4 U <sub>1</sub>	2,900	200 U <sub>1</sub>				200 U <sub>1</sub>	4 U <sub>1</sub>	2,900	200 U <sub>1</sub>			
Tetrachloroethene	NA	5	--	--	0.5	17	2,500 U <sub>1</sub>	25,000 U <sub>1</sub>	2,500 U <sub>1</sub>	25 U <sub>1</sub>	167	250 U <sub>1</sub>	5 U <sub>1</sub>	2,500 U <sub>1</sub>	250 U <sub>1</sub>				250 U <sub>1</sub>	5 U <sub>1</sub>	2,500 U <sub>1</sub>	250 U <sub>1</sub>			
Toluene	NA	3	--	--	100,000	2,400,000	1,500 U <sub>1</sub>	12,300	1,500 U <sub>1</sub>	15 U <sub>1</sub>	15 U <sub>1</sub>	150 U <sub>1</sub>	3 U <sub>1</sub>	1,500 U <sub>1</sub>	150 U <sub>1</sub>				150 U <sub>1</sub>	3 U <sub>1</sub>	1,500 U <sub>1</sub>	150 U <sub>1</sub>			
Trichloroethene	NA	2	--	--	0.5	6.6	1,000 U <sub>1</sub>	222,000	68,500	10 U <sub>1</sub>	2,143	370	16	16,800	220				370	16	16,800	220			
<b>Metals (mg/kg):</b>																									
Arsenic, SW7060A	NA	NA	4.3	25.6	5.0	200	1.4	--	1.4	1.8	15	--	--	1.7	0.8				--	--	1.7	0.8			
Barium, SW6010A	NA	NA	11.7	303.0	200	58,000	37	--	13	18	160	--	--	16	30				--	--	16	30			
Cadmium, SW7131	NA	0.1	2.0	2.6	0.5	410	1.2	--	0.3	0.1 U <sub>1</sub>	12	--	--	0.2	0.2				--	--	0.2	0.2			
Chromium, SW6010A	NA	NA	3.1	69.2	10	240,000	8.0	--	4.5	5.8	120	--	--	6.4	6.7				--	--	6.4	6.7			
Copper, SW6010A	NA	NA	6.9	28.9	130	74,000	45	--	6.6	8.0	580	--	--	6.7	7.3				--	--	6.7	7.3			
Lead <sup>d</sup> , SW7421	NA	NA	69.3	105	1.5	1,000	1,600	--	8.0	5.7	8,700	--	--	7.2	21				--	--	7.2	21			
Mercury, SW7471A	NA	0.1	0.05	0.05	0.2	9.6	0.1 U <sub>1</sub>	--	0.1 U <sub>1</sub>	0.1 U <sub>1</sub>	0.21	--	--	0.1 U <sub>1</sub>	0.1 U <sub>1</sub>				--	--	0.1 U <sub>1</sub>	0.1 U <sub>1</sub>			
Nickel, SW6010A	NA	NA	29.9	44.9	200	12,000	6.5	--	5.8	8.9	100	--	--	10	5.2				--	--	10	5.2			
Zinc, SW6010A	NA	NA	5.2	67.1	3,100	410,000	63	--	110	6.9	850	--	--	8.2	18				--	--	8.2	18			

Constituent	Soil Comparison Criteria						Soil Sample Analytical Results <sup>a</sup>					
	Lab MDL	Lab PQL	Back-ground <sup>b</sup> Glen Rose	Back-ground <sup>b</sup> Tarrant	RRS2-GWP <sup>c</sup> (Ind.)	RRS2-SAI <sup>c</sup> (Ind.)	MPC Depth (ft)	MPD Depth (ft)	MPD Depth (ft)	MPD Depth (ft)	MPE Depth (ft)	MPF Depth (ft)
<b>VOCs, SW8260A (mg/kg):</b>												
Chlorobenzene	NA	4	--	--	10,000	450,000	20 U <sub>1</sub>	200 U <sub>1</sub>	200 U <sub>1</sub>	2,000 U <sub>1</sub>	200 U <sub>1</sub>	220
cis-1,2-Dichloroethene	NA	4	--	--	7	2,500	20 U <sub>1</sub>	200 U <sub>1</sub>	200 U <sub>1</sub>	20,500	360	200 U <sub>1</sub>
Tetrachloroethene	NA	5	--	--	0.5	17	25 U <sub>1</sub>	250 U <sub>1</sub>	250 U <sub>1</sub>	2,500 U <sub>1</sub>	650	250 U <sub>1</sub>
Toluene	NA	3	--	--	100,000	2,400,000	15 U <sub>1</sub>	150 U <sub>1</sub>	150 U <sub>1</sub>	1,500 U <sub>1</sub>	150 U <sub>1</sub>	150 U <sub>1</sub>
Trichloroethene	NA	2	--	--	0.5	6.6	155	1,200	2,500	16,900	4,200	100 U <sub>1</sub>
<b>Metals (mg/kg):</b>												
Arsenic, SW7060A	NA	NA	4.3	25.6	5.0	200	1.8	--	6.7	--	--	1.5
Barium, SW6010A	NA	NA	11.7	303.0	200	58,000	39	--	93	--	--	43
Cadmium, SW7131	NA	0.1	2.0	2.6	0.5	410	0.7	--	11	--	--	0.9
Chromium, SW6010A	NA	NA	3.1	69.2	10	240,000	9.3	--	30	--	--	12
Copper, SW6010A	NA	NA	6.9	28.9	130	74,000	12	--	160	--	--	31
Lead <sup>d</sup> , SW7421	NA	NA	69.3	105	1.5	1,000	31	--	980	--	--	120
Mercury, SW7471A	NA	0.1	0.05	0.05	0.2	9.6	0.1 U <sub>1</sub>	--	0.1 U <sub>1</sub>	--	--	0.1 U <sub>1</sub>
Nickel, SW6010A	NA	NA	29.9	44.9	200	12,000	8.2	--	29	--	--	6.8
Zinc, SW6010A	NA	NA	5.2	67.1	3,100	410,000	21	--	4,200	--	--	140

Notes:

<sup>a</sup> All samples were analyzed by Chemron, Inc., San Antonio, Texas. All results reported on a wet-weight basis.

<sup>b</sup> Background values from Evaluation of Background Metals Concentrations in Soil Types at Camp Stanley Storage Activity.

<sup>c</sup> Industrial risk reduction standards for groundwater protection (GWP), soil-air ingestion (SAI), and groundwater (GW).

<sup>d</sup> Duplicate sample.

<sup>f</sup> The background concentration of lead is less than the groundwater protection (GWP) standard.

Sample concentrations are only highlighted if they also exceed the background concentration.

Concentrations exceeding RRS1 background levels are in bold type.

Concentrations exceeding RRS2 standards are highlighted.

CLP Data Qualifiers:

U<sub>1</sub> The analyte was analyzed for, but was not detected above the reported sample quantitation limit.