

Table B4-1 Chemical Constituents Detected in Soil at SWMU B-4, March 1995  
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	RRS2- GWP <sup>c</sup> (Ind.)	RRS2- SAI <sup>c</sup> (Ind.)	B4-SB1 Depth (ft) Soil/Rock Type Date Collected	B4-SB1 Depth (ft) Soil/Rock Type Date Collected	B4-SB1A Depth (ft) Soil/Rock Type Date Collected	B4-SB1A Depth (ft) Soil/Rock Type Date Collected	B4-SB2 Depth (ft) Soil/Rock Type Date Collected	B4-SB2 Depth (ft) Soil/Rock Type Date Collected	B4-SB2 <sup>d</sup> Depth (ft) Soil/Rock Type Date Collected	B4-SB2 Depth (ft) Soil/Rock Type Date Collected	B4-SB3 Depth (ft) Soil/Rock Type Date Collected	B4-SB3 Depth (ft) Soil/Rock Type Date Collected	
<b>VOCs, SW8260 (ug/kg):</b>																
No analytes detected	--	--	--	--	--	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	
<b>SVOCs, SW8270 (ug/kg)<sup>e</sup>:</b>																
No analytes detected	--	--	--	--	--	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	
<b>Metals, SW6010 (mg/kg):</b>																
Cadmium	NA	0.25	2.0	0.50	410	1.3 U <sub>2</sub>	9.1 U <sub>2</sub>	1.1 U <sub>2</sub>	65	1.2 U <sub>2</sub>	0.33 U <sub>2</sub>	0.43 U <sub>2</sub>	0.60 U <sub>2</sub>	0.38 U <sub>2</sub>	0.46 U <sub>2</sub>	
Calcium	NA	25	--	--	--	177,000	113,000	211,000	217,000	202,000	249,000	270,000	197,000	269,000	233,000	
Chromium	NA	0.5	3.1	10	240,000	6.8	46	6.6	8.6	5.4	2.7	2.7	3.2 U <sub>2</sub>	3.1	3.6	
Copper	NA	0.5	6.9	130	74,000	6.3	760	3.8	120	4.3	1.5	1.5	3.9	3.0	4.3	
Iron	NA	2.5	--	--	--	7,800	52,200	8,900	10,900	6,300	3,400	3,800	5,300	3,300	3,900	
Lead <sup>e</sup>	NA	1.5	69.3	1.5	1,000	12	140	7.1	48	14	2.6	2.6	3.6 U <sub>2</sub>	2.1	2.9	
Magnesium	NA	25	--	--	--	3,600	2,200	2,100	4,200	2,400	2,300	2,500	3,900	2,700	1,900	
Manganese	NA	0.5	--	1,400	81,000	150	600	140	110	130	50	71	56	64	100	
Nickel	NA	0.5	29.9	200	12,000	5.1	74	5.8	58	4.9	3	4.2	4.5	3.4	5.4	
Potassium	NA	25	--	--	--	1,900	1,900	1,600	1,200	1,100	740	700	1,300	840	1,200	

Constituent	Soil Sample Analytical Results (Continued) <sup>a</sup>						
	B4-SB3 Depth (ft) Soil/Rock Type Date Collected	B4-SB4 Depth (ft) Soil/Rock Type Date Collected	B4-SB4 Depth (ft) Soil/Rock Type Date Collected	B4-SB4 Depth (ft) Soil/Rock Type Date Collected	B4-SB5 Depth (ft) Soil/Rock Type Date Collected	B4-SB5 Depth (ft) Soil/Rock Type Date Collected	B4-SB5 Depth (ft) Soil/Rock Type Date Collected
<b>VOCs, SW8260 (ug/kg):</b>							
No analytes detected	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>
<b>SVOCs, SW8270 (ug/kg):</b>							
No analytes detected	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>	-- U <sub>1</sub>
<b>Metals, SW6010 (mg/kg):</b>							
Cadmium	0.47 U <sub>2</sub>	0.97 U <sub>2</sub>	0.52 U <sub>2</sub>	0.53 U <sub>2</sub>	0.25 U <sub>1</sub>	0.64 U <sub>2</sub>	0.28 U <sub>2</sub>
Calcium	240,000	183,000	262,000	226,000	284,000	167,000	256,000
Chromium	3.4	7.3	3.2	4.6	2.6 U <sub>2</sub>	2.5 U <sub>2</sub>	2.2 U <sub>2</sub>
Copper	1.9	4.2	2.6	2.6	2	7.8	1.5
Iron	3,900	8,200	4,300	4,500	1,900	5,100	7,800
Lead <sup>e</sup>	3.2	8.5	2.4	3.5	1.8	3.6	1.7
Magnesium	2,600	1,300	2,300	2,700	2,500	6,500	10,000
Manganese	53	160	73	52	48	74	37
Nickel	4.4	5.8	4.2	5.6	1.3	9.7	4
Potassium	990	1,100	760	1,500	590	1,200	680

**Notes:**

- <sup>a</sup> All samples 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, June 1997*.
- <sup>c</sup> Industrial risk reduction standards for groundwater protection (GWP), soil-air ingestion (SAI), and groundwater (GW).
- <sup>d</sup> Duplicate sample.
- <sup>e</sup> The background concentration of lead in the Glen Rose limestone is greater 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.
- U<sub>2</sub> The sample contained less than five times the amount of the analyte in the corresponding method blank.

- Acronyms and Abbreviations
- MDL Method detection limit
  - mg/kg Milligram per kilogram
  - NA Not available
  - PQL Practical quantitation limit
  - RRS2 Risk reduction standard 2
  - SVOC Semivolatile organic compound
  - ug/kg Microgram per kilogram
  - VOC Volatile organic compound