Chemical Constituents Detected in Soil at SWMU B-2, March 1995
Camp Stanley Storage Activity, Texas

Constituent	Lab MDL	Lab PQL	Soil Comparison Criteria: Background[b] Glen Rose	Soil Comparison Criteria: Background[b] Soils	Soil Comparison Criteria: RRS2-GWP[c] (Ind.)	Soil Comparison Criteria: RRS2-SAI[c] (Ind.)	Sample ID	B2-SB1	B2-SB1[d]	B2-SB1	B2-SB1	B2-SB2	B2-SB2	B2-SB2	B2-SB3	B2-SB3	B2-SB3
							Depth (ft)	0.4-0.8	0.4-0.8	10.5-11.0	29.0-29.5	0.5-1.0	6.0-9.0	29.0-29.5	4.0-6.0	11.0-11.5	29.0-30.0
							Soil/Rock Type	Soils	Soils	Glen Rose	Glen Rose	Soils	Glen Rose	Glen Rose	Glen Rose	Glen Rose	Glen Rose
							Date Collected	3/2/1995	3/2/1995	3/2/1995	3/2/1995	3/3/1995	3/3/1995	3/3/1995	3/3/1995	3/3/1995	3/6/1995
								Soil Sample Analytical Results[a]									
VOCs, SW8260 (ug/kg):																	
Toluene	NA	0.003	--	--	100,000	2.4E+06		0.003 U1	0.003 U1	0.003 U1	0.003 U1	0.003 U1	0.003 U1	0.003 U1	0.003 U1	0.003 U1	**0.006**
SVOCs, SW8270 (ug/kg)[e]:																	
Butylbenzylphthalate	NA	1,000	--	--	2.E+06	2E+08		**1,040**	1,000 U1	1,000 U1	1,000 U1	1,000 U1	1,000 U1	1,000 U1	1,000 U1	1,000 U1	1,000 U1
Di-n-butylphthalate	NA	1,000	--	--	1.E+06	1E+08		**6,200**	**4,200**	**7,010**	**5,300**	1,000 U1	1,000 U1	1,000 U1	1,000 U1	1,000 U1	1,000 U1
Metals, SW6010 (mg/kg):																	
Cadmium	NA	0.25	0.1	3.0	0.50	410		1.1 U2	1.4 U2	0.47 U2	0.54 U2	2.3 U2	0.91 U2	0.48 U2	0.63 U2	0.99 U2	0.8 U2
Calcium	NA	25	--	--	--	--		205,000	204,000	278,000	262,000	79,100	176,000	286,000	267,000	134,000	296,000
Chromium	NA	0.5	8.1	40.2	10	240,000		6.7	8.4	2.1 U2	2.3 U2	14	3.7	1.9 U2	2.8 U2	4.4	2.3 U2
Copper	NA	0.5	13.1	23.2	130	74,000		3.0	4.0	1.7	1.7	8.1	2.2	1.3	1.7	3.6	4.5
Iron	NA	2.5	--	--	--	--		6,800	9,100	2,700	3,100	14,000	5,500	2,800	3,300	6,100	4,700
Lead[f]	NA	1.5	5.5	84.5	1.5	1,000		6.4	7.9	1.5 U1	2.0	18	2.5	1.5 U1	1.5 U1	3.8	3.3
Magnesium	NA	25	--	--	--	--		1,100	1,500	3,000	3,000	2,300	65,500	2,900	2,800	64,000	6,200
Manganese	NA	0.5	--	--	1,400	81,000		110	140	56	45	250	100	3.9	61	84	64
Nickel	NA	0.5	6.8	35.5	200	12,000		3.8	5.1	2.3	4.4	8.3	2.1	7	2	2	4.5
Potassium	NA	25	--	--	--	--		840	1,400	560	640	2,700	1,800	790	1,100	2,300	1,330

Sample ID	B2-SB4	B2-SB4	B2-SB4	B2-SB4[d]	B2-SB5	B2-SB5	B2-SB5
Depth (ft)	1.8-3.0	10.0-11.0	29.0-30.0	29.0-30.0	0.0-1.7	9.0-10.0	29.0-30.0
Soil/Rock Type	Glen Rose	Glen Rose	Glen Rose	Glen Rose	Soils	Glen Rose	Glen Rose
Date Collected	3/6/1995	3/6/1995	3/6/1995	3/6/1995	3/6/1995	3/6/1995	3/6/1995
	Soil Sample Analytical Results (Continued)[a]						
VOCs, SW8260 (ug/k							
Toluene	0.003 U1	0.003 U1	0.003 U1	**0.006**	0.003 U1	0.003 U1	**0.01**
SVOCs, SW8270 (ug/							
Butylbenzylphthalate	1,000 U1	1,000 U1	1,000 U1	1,000 U1	1,000 U1	1,000 U1	1,000 U1
Di-n-butylphthalate	1,000 U1	1,000 U1	1,000 U1	1,000 U1	1,000 U1	1,000 U1	1,000 U1
Metals, SW6010 (mg/							
Cadmium	1.9 U2	0.74 U2	1.5 U2	1.3 U2	0.78 U2	0.54 U2	1 U2
Calcium	87,800	264,000	254,000	252,000	299,000	315,000	221,000
Chromium	**12**	3.4	2.7 U2	1.3 U2	3.7	2.2 U2	3.7
Copper	7.6	2.0	3.3	1.9	2.2	1.5	3.6
Iron	14,200	4,400	10,900	10,800	3,900	2,800	7,000
Lead[f]	**16**	2.9	3.1	2.4	3.5	1.5 U1	4.7
Magnesium	1,800	38,000	3,300	3,900	1,500	27,400	5,400
Manganese	290	87	59	62	56	76	60
Nickel	**8.0**	3.2	5.3	3.3	2.6	2.2	4.4
Potassium	2,100	1,600	1,300	430	940	650	1,800

Abbreviations and Notes:

[a] All samples were analyzed by Chemron Inc., San Antonio, Texas. All results reported on a wet-weight basis.

[b] Background values from *Revised Evaluation of Background Metals Concentrations in Soil Types at Camp Stanley Storage Activity, February 2002.*

[c] Industrial risk reduction standards for groundwater protection (GWP), soil-air ingestion (SAI), and groundwater (GW)

[d] Duplicate sample

[e] Sixteen semivolatile analytes were not detected, but the results were rejected due to deficiencies in quality control criteria. The presence or absence of the analytes cannot be verified.

[f] The background concentration of lead is greater than the groundwater protection (GWP) standard.

Highlighted sample concentrations exceed RRS1 Standards.

GWP Groundwater protection standard
MDL Method detection limit
mg/kg Milligram per kilogram
NA Not available
PQL Practical quantitation limit
SAI Soil air ingestion standard
SVOC Semivolatile organic compound
ug/kg Microgram per kilogram
VOC Volatile organic compound

Acronyms and Abbreviations

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