

Table 5-1

Surface Soil Analytical Results
Boiler Plant No. 2, Building 2278, Parcels 23(7) and 226(7)
Fort McClellan, Calhoun County, Alabama

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Sample Location Sample Number Sample Date Sample Depth (Feet)					SI02-SS01 02-SS01A 19-May-98 0- 1					SI02-SS02 02-SS02A 19-May-98 0- 1					SI02-SS03 02-SS03A 19-May-98 0- 1				
Parameter	Units	BKG ^a	SSSL ^b	ESV ^b	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV
METALS																			
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	1.03E+04			YES	YES	9.00E+03			YES	YES	2.47E+03				YES
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	4.26E+00			YES		3.49E+00			YES		1.83E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	4.82E+01					6.44E+01					1.07E+02				
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	4.09E-01					6.78E-01					3.00E-01				
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	ND					ND					1.82E-01				
Calcium	mg/kg	1.72E+03	NA	NA	1.47E+03					1.22E+03					3.97E+02				
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	1.05E+01	J			YES	1.56E+01				YES	1.29E+01				YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	3.56E+00					4.67E+00					2.25E+01		YES		YES
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	3.77E+01		YES			2.11E+01		YES			7.82E+00				
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	1.57E+04			YES	YES	3.00E+04			YES	YES	1.39E+04			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	1.36E+02		YES		YES	1.56E+01					3.11E+01				
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	8.39E+02					1.44E+03		YES			2.04E+02				
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	4.09E+02			YES	YES	1.89E+02				YES	1.50E+03			YES	YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	3.35E-02					ND					2.89E-02	J			
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	5.24E+00	J				9.33E+00					5.89E+00				
Potassium	mg/kg	8.00E+02	NA	NA	3.35E+02					3.67E+02					1.18E+02				
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	9.82E-01		YES		YES	2.31E+00		YES		YES	9.65E-01		YES		YES
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	2.10E-01					ND					ND				
Sodium	mg/kg	6.34E+02	NA	NA	1.26E+02					2.56E+02					8.90E+01				
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	2.10E+01				YES	2.67E+01				YES	9.75E+00				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	1.78E+01	J				3.22E+01					1.29E+01				
VOLATILE ORGANIC COMPOUNDS																			
1,1,1-Trichloroethane	mg/kg	NA	1.55E+03	1.00E-01	5.50E-03					6.40E-03					1.90E-02				
1,1-Dichloroethene	mg/kg	NA	1.05E+00	1.00E-01	ND					ND					ND				
1,2-Dichloroethene	mg/kg	NA	7.00E-01	1.00E-01	ND					ND					6.20E-04	J			
1,2-Dichloropropane	mg/kg	NA	9.26E+00	7.00E+02	ND					ND					2.90E-03	J			
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	1.90E-02	J				4.60E-02					3.20E-02				
2-Hexanone	mg/kg	NA	3.11E+02	1.26E+01	ND					ND					1.20E-02	J			
Acetone	mg/kg	NA	7.76E+02	2.50E+00	2.10E-01					4.90E-01					2.30E-01				
Benzene	mg/kg	NA	2.17E+01	5.00E-02	1.00E-03	J				1.30E-03	J				1.20E-03	J			
Carbon disulfide	mg/kg	NA	7.77E+02	9.00E-02	ND					ND					ND				
Carbon tetrachloride	mg/kg	NA	4.83E+00	1.00E+03	7.80E-04	J				ND					ND				
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	3.80E-03	J				4.70E-03	J				9.00E-03				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	7.30E-03	B				9.30E-03	B				1.90E-02	B			
Tetrachloroethene	mg/kg	NA	1.21E+01	1.00E-02	1.80E-02				YES	2.10E-02				YES	6.10E-02				YES
Toluene	mg/kg	NA	1.55E+03	5.00E-02	7.40E-03					5.80E-03					8.00E-03				
Trichloroethene	mg/kg	NA	5.72E+01	1.00E-03	4.20E-03	J			YES	4.40E-03	J			YES	1.80E-02				YES
Xylene, Total	mg/kg	NA	1.55E+04	5.00E-02	1.70E-02					2.00E-02					3.90E-02				
SEMIVOLATILE ORGANIC COMPOUNDS																			
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	8.80E-02					1.89E-01				YES	ND				
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	ND					9.78E-02					ND				
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	ND					1.22E-01				YES	ND				
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	1.26E-01	B				ND					5.22E-02	B			

Table 5-1

Surface Soil Analytical Results
Boiler Plant No. 2, Building 2278, Parcels 23(7) and 226(7)
Fort McClellan, Calhoun County, Alabama

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Sample Location Sample Number Sample Date Sample Depth (Feet)					SI02-SS04 02-SS04 19-May-98 0-1					SI02-SS05 02-SS05 20-May-98 0-1					SI02-SS06 02-SS06 20-May-98 0-1				
Parameter	Units	BKG ^a	SSSL ^b	ESV ^b	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV	Result	Qual	>BKG	>SSSL	>ESV
METALS																			
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	8.00E+03			YES	YES	8.61E+03			YES	YES	1.08E+04			YES	YES
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	3.92E+00			YES		3.80E+00			YES		3.84E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	4.37E+01					4.52E+01					3.90E+01				
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	3.22E-01					2.94E-01					2.28E-01				
Cadmium	mg/kg	2.90E-01	6.25E+00	1.60E+00	ND					ND					ND				
Calcium	mg/kg	1.72E+03	NA	NA	6.55E+03		YES			1.16E+04		YES			8.03E+02				
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	8.52E+00				YES	7.67E+00				YES	1.03E+01				YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	3.12E+00					3.47E+00					2.39E+00				
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	1.77E+01		YES			2.52E+01		YES			1.52E+01		YES		
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	1.25E+04			YES	YES	1.05E+04			YES	YES	1.52E+04			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	5.30E+01		YES		YES	7.14E+01		YES		YES	3.58E+01				
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	2.39E+03		YES			2.63E+03		YES			3.58E+02				
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	4.57E+02			YES	YES	5.04E+02			YES	YES	3.69E+02			YES	YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	5.41E-02	J				8.19E-02	J	YES			2.82E-02	J			
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	4.16E+00					4.52E+00					4.12E+00				
Potassium	mg/kg	8.00E+02	NA	NA	4.05E+02					3.15E+02					2.71E+02				
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	8.61E-01		YES		YES	ND					ND				
Silver	mg/kg	3.60E-01	3.91E+01	2.00E+00	ND					ND					ND				
Sodium	mg/kg	6.34E+02	NA	NA	9.56E+01					1.03E+02					9.54E+01				
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	1.87E+01				YES	1.89E+01				YES	2.71E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	3.22E+01					1.58E+01					1.08E+01				
VOLATILE ORGANIC COMPOUNDS																			
1,1,1-Trichloroethane	mg/kg	NA	1.55E+03	1.00E-01	2.20E-02					5.50E-02					5.20E-02				
1,1-Dichloroethene	mg/kg	NA	1.05E+00	1.00E-01	5.60E-04	J				3.00E-03	J				2.50E-03	J			
1,2-Dichloroethene	mg/kg	NA	7.00E+01	1.00E-01	8.10E-04	J				2.00E-03	J				1.50E-03	J			
1,2-Dichloropropane	mg/kg	NA	9.26E+00	7.00E+02	3.00E-03	J				4.60E-03					5.00E-03				
2-Butanone	mg/kg	NA	4.66E+03	8.96E+01	1.00E-02	J				2.70E-02					2.10E-02	J			
2-Hexanone	mg/kg	NA	3.11E+02	1.26E+01	ND					ND					ND				
Acetone	mg/kg	NA	7.76E+02	2.50E+00	ND					2.20E-01					2.00E-01				
Benzene	mg/kg	NA	2.17E+01	5.00E-02	9.90E-04	J				1.40E-03	J				3.80E-03	J			
Carbon disulfide	mg/kg	NA	7.77E+02	9.00E-02	2.70E-03	J				6.70E-04	J				ND				
Carbon tetrachloride	mg/kg	NA	4.83E+00	1.00E+03	ND					ND					ND				
Ethylbenzene	mg/kg	NA	7.77E+02	5.00E-02	9.80E-03					6.60E-03					6.20E-03				
Methylene chloride	mg/kg	NA	8.41E+01	2.00E+00	2.00E-02	B				8.60E-02					7.80E-02				
Tetrachloroethene	mg/kg	NA	1.21E+01	1.00E-02	6.50E-02				YES	5.30E-02				YES	5.60E-02				YES
Toluene	mg/kg	NA	1.55E+03	5.00E-02	1.00E-02					1.40E-02					1.00E-02				
Trichloroethene	mg/kg	NA	5.72E+01	1.00E-03	2.10E-02				YES	2.60E-02				YES	2.30E-02				YES
Xylene, Total	mg/kg	NA	1.55E+04	5.00E-02	4.30E-02					2.80E-02					2.60E-02				
SEMIVOLATILE ORGANIC COMPOUNDS																			
Fluoranthene	mg/kg	2.03E+00	3.09E+02	1.00E-01	ND					ND					ND				
Phenanthrene	mg/kg	1.08E+00	2.32E+03	1.00E-01	ND					ND					ND				
Pyrene	mg/kg	1.63E+00	2.33E+02	1.00E-01	ND					ND					ND				
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	9.30E-01	7.31E-02	B				3.60E-02	B				3.30E-02	B			

Table 5-1

**Surface Soil Analytical Results
Boiler Plant No. 2, Building 2278, Parcels 23(7) and 226(7)
Fort McClellan, Calhoun County, Alabama**

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Analyses performed using U.S. Environmental Protection Agency (EPA) SW-846 analytical methods, including Update III methods where applicable.

- ^a Bkg - Background. Concentration listed is two times (2x) the arithmetic mean of background metals concentration given in Science Applications International Corporation (1998), *Final Background Metals Survey Report, Fort McClellan, Alabama*, July.
For SVOCs, value listed is the background screening criterion for soils adjacent to asphalt as given in IT Corporation (2000), *Final Human Health and Ecological Screening Values and PAH Background Summary Report, Fort McClellan, Calhoun County, Alabama*, July.
- ^b Residential human health site-specific screening level (SSSL) and ecological screening value (ESV) as given in IT Corporation (2000), *Final Human Health and Ecological Screening Values and PAH Background Summary Report, Fort McClellan, Calhoun County, Alabama*, July.
- B - Analyte detected in laboratory or field blank at concentration greater than the reporting limit (and greater than zero).
- J - Result is greater than method detection limit but less than or equal to reporting limit.
- mg/kg - Milligrams per kilogram.
- NA - Not available.
- ND - Not detected.
- Qual - Data validation qualifier.