

Table 5-1

Surface Soil Analytical Results
Impact Area Near Stump Dump, Parcel 135Q-X
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date Sample Depth (Feet)					HR-135Q HR-135Q-GP01 YR0005 04-Oct-00 0- 1					HR-135Q HR-135Q-GP02 YR0009 03-Oct-00 0- 1					HR-135Q HR-135Q-MW01 YR0001 03-Oct-00 0- 1					HR-135Q HR-135Q-MW02 YR0003 04-Oct-00 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	Result	Qual	>BKG	>SSSL	>ESV
METALS																								
Aluminum	mg/kg	1.63E+04	7.80E+03	5.00E+01	2.43E+04		YES	YES	YES	1.32E+04			YES	YES	2.00E+04		YES	YES	YES	2.09E+04		YES	YES	YES
Arsenic	mg/kg	1.37E+01	4.26E-01	1.00E+01	3.97E+00			YES		2.69E+00			YES		3.64E+00			YES		3.01E+00			YES	
Barium	mg/kg	1.24E+02	5.47E+02	1.65E+02	1.03E+02					1.48E+02		YES			1.16E+02					1.38E+02		YES		
Beryllium	mg/kg	8.00E-01	9.60E+00	1.10E+00	9.54E-01	J	YES			7.80E-01	J				6.22E-01	J				1.50E+00		YES		YES
Calcium	mg/kg	1.72E+03	NA	NA	2.37E+02					2.48E+02					5.91E+03		YES			3.01E+02				
Chromium	mg/kg	3.70E+01	2.32E+01	4.00E-01	2.05E+01				YES	1.10E+01				YES	1.87E+01				YES	1.55E+01				YES
Cobalt	mg/kg	1.52E+01	4.68E+02	2.00E+01	1.49E+01					8.17E+00					2.22E+01		YES		YES	1.80E+01		YES		
Copper	mg/kg	1.27E+01	3.13E+02	4.00E+01	1.06E+01	J				7.28E+00	J				1.33E+01	J	YES			1.01E+01	J			
Iron	mg/kg	3.42E+04	2.34E+03	2.00E+02	1.59E+04			YES	YES	1.03E+04			YES	YES	1.27E+04			YES	YES	1.30E+04			YES	YES
Lead	mg/kg	4.01E+01	4.00E+02	5.00E+01	2.13E+01					1.40E+01					1.65E+01					2.10E+01				
Magnesium	mg/kg	1.03E+03	NA	4.40E+05	1.00E+03	J				5.43E+02					1.28E+03		YES			1.02E+03				
Manganese	mg/kg	1.58E+03	3.63E+02	1.00E+02	1.18E+03			YES	YES	1.47E+03	J		YES	YES	1.19E+03	J		YES	YES	2.00E+03	J	YES	YES	YES
Mercury	mg/kg	8.00E-02	2.33E+00	1.00E-01	6.10E-02	J				3.50E-02	J				2.60E-02	J				3.10E-02	J			
Nickel	mg/kg	1.03E+01	1.54E+02	3.00E+01	1.77E+01		YES			1.33E+01		YES			1.68E+01		YES			1.64E+01		YES		
Potassium	mg/kg	8.00E+02	NA	NA	8.64E+02		YES			3.90E+02	J				1.11E+03		YES			1.09E+03		YES		
Selenium	mg/kg	4.80E-01	3.91E+01	8.10E-01	1.14E+00	B	YES		YES	ND					ND					6.51E-01	B	YES		
Sodium	mg/kg	6.34E+02	NA	NA	4.08E+01	J				4.29E+01	J				4.72E+01	J				4.09E+01	J			
Thallium	mg/kg	3.43E+00	5.08E-01	1.00E+00	ND					9.37E-01	J		YES		9.68E-01	J		YES		7.98E-01	J		YES	
Vanadium	mg/kg	5.88E+01	5.31E+01	2.00E+00	3.02E+01				YES	1.54E+01				YES	2.56E+01				YES	2.33E+01				YES
Zinc	mg/kg	4.06E+01	2.34E+03	5.00E+01	3.07E+01					2.76E+01					2.64E+01					2.94E+01				

Analyses performed using U.S. Environmental Protection Agency (EPA) SW-846 analytical methods.

^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.

^b Residential human health site-specific screening level (SSSL) 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 - Compound was positively identified; reported value is the estimated concentration.

mg/kg - Milligrams per kilogram.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.

Table 5-2

Subsurface Soil Analytical Results
Impact Area Near Stump Dump, Parcel 135Q-X
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date Sample Depth (Feet)				HR-135Q HR-135Q-GP01 YR0008 4-Oct-00 3 - 5				HR-135Q HR-135Q-GP02 YR0010 3-Oct-00 5 - 7				HR-135Q HR-135Q-MW01 YR0002 3-Oct-00 10 - 12				HR-135Q HR-135Q-MW02 YR0004 4-Oct-00 4 - 6			
Parameter	Units	BKG ^a	SSSL ^b	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS																			
Aluminum	mg/kg	1.36E+04	7.80E+03	1.08E+04			YES	1.12E+04			YES	2.31E+04		YES	YES	1.31E+04			YES
Antimony	mg/kg	1.31E+00	3.11E+00	ND				ND				ND				4.13E+00	J	YES	YES
Arsenic	mg/kg	1.83E+01	4.26E-01	2.97E+00			YES	2.33E+00			YES	5.54E+00			YES	3.49E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	8.20E+01				8.47E+01				7.85E+01				7.95E+01			
Beryllium	mg/kg	8.60E-01	9.60E+00	4.20E-01	J			4.50E-01	J			4.97E+00		YES		6.14E-01	J		
Calcium	mg/kg	6.37E+02	NA	9.28E+01	J			8.71E+01	J			2.72E+02				1.15E+02			
Chromium	mg/kg	3.83E+01	2.32E+01	2.01E+01				1.57E+01				1.90E+01				2.06E+01			
Cobalt	mg/kg	1.75E+01	4.68E+02	4.53E+00				2.51E+00				4.30E+01		YES		9.42E+00			
Copper	mg/kg	1.94E+01	3.13E+02	8.90E+00	J			6.63E+00	J			2.30E+02	J	YES		8.03E+00	J		
Iron	mg/kg	4.48E+04	2.34E+03	1.56E+04			YES	1.70E+04			YES	2.69E+04			YES	2.01E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	1.37E+01				6.86E+00				2.76E+01				1.01E+01			
Magnesium	mg/kg	7.66E+02	NA	4.67E+02				8.07E+02		YES		3.23E+03		YES		7.80E+02		YES	
Manganese	mg/kg	1.36E+03	3.63E+02	3.03E+02	J			5.10E+01	J			6.78E+02	J		YES	3.19E+02	J		
Mercury	mg/kg	7.00E-02	2.33E+00	2.70E-02	J			ND				3.50E-02	J			ND			
Nickel	mg/kg	1.29E+01	1.54E+02	1.10E+01				1.01E+01				5.46E+01		YES		1.19E+01			
Potassium	mg/kg	7.11E+02	NA	5.92E+02				1.54E+03		YES		4.25E+03		YES		1.28E+03		YES	
Selenium	mg/kg	4.70E-01	3.91E+01	6.40E-01	B	YES		ND				ND				9.01E-01	B	YES	
Silver	mg/kg	2.40E-01	3.91E+01	ND				ND				ND				5.07E-01	J	YES	
Sodium	mg/kg	7.02E+02	NA	2.60E+01	J			2.77E+01	J			4.90E+01	J			4.18E+01	J		
Thallium	mg/kg	1.40E+00	5.08E-01	ND				ND				1.83E+00	J	YES	YES	9.38E-01	J		YES
Vanadium	mg/kg	6.49E+01	5.31E+01	2.34E+01				2.02E+01				2.33E+01				2.67E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	1.52E+01				1.49E+01				6.02E+01		YES		1.68E+01			

Analyses performed using U.S. Environmental Protection Agency (EPA) SW-846 analytical methods.

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^b Residential human health site-specific screening level (SSSL) 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 - Compound was positively identified; reported value is the estimated concentration.

mg/kg - Milligrams per kilogram.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.

Table 5-3

Groundwater Analytical Results
Impact Area Near Stump Dump, Parcel 135Q-X
Fort McClellan, Calhoun County, Alabama

Parcel Sample Location Sample Number Sample Date				HR-135Q HR-135Q-MW01 YR3001 31-Oct-00				HR-135Q HR-135Q-MW02 YR3002 1-Nov-00			
Parameter	Units	BKG ^a	SSSL ^b	Result	Qual	>BKG	>SSSL	Result	Qual	>BKG	>SSSL
METALS											
Aluminum	mg/L	2.34E+00	1.56E+00	7.85E-01				2.01E-01	J		
Barium	mg/L	1.27E-01	1.10E-01	1.31E-02				6.92E-02			
Calcium	mg/L	5.65E+01	NA	5.12E-01	J			3.71E-01	J		
Iron	mg/L	7.04E+00	4.69E-01	7.89E-01			YES	5.02E-01	J		YES
Lead	mg/L	7.99E-03	1.50E-02	ND				1.45E-03	J		
Magnesium	mg/L	2.13E+01	NA	7.17E-01	J			4.59E-01	J		
Manganese	mg/L	5.81E-01	7.35E-02	2.58E-02				1.30E-01			YES
Potassium	mg/L	7.20E+00	NA	4.24E+00	J			3.05E+00	J		
Sodium	mg/L	1.48E+01	NA	9.29E-01	J			1.05E+00	J		
Zinc	mg/L	2.20E-01	4.69E-01	1.02E-01	J			1.04E-01	J		

Analyses performed using U.S. Environmental Protection Agency (EPA) SW-846 analytical methods.

^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.

^b Residential human health site-specific screening level (SSSL) 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 - Compound was positively identified; reported value is the estimated concentration.

mg/L - Milligrams per liter.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.