

Table 5-2

Subsurface Soil Analytical Results
Autocraft Shop/Former DPDO and Former Motor Pool Area 2100 North of DPDO
Fort McClellan, Calhoun County, Alabama

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Sample Location Parcel Sample Number Sample Date Sample Depth (Feet)				FTA-100-GP02 100 REP CV0005 7-Oct-98 5-9				FTA-100-GP03 100 REP CV0006 7-Oct-98 5-7				FTA-100-GP04 100 REP CV0008 12-Oct-98 4-8				FTA-100-GP05 100 REP CV0009 7-Oct-98 1-4			
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	2.05E+04		YES	YES	1.87E+04		YES	YES	1.43E+04		YES	YES	1.56E+04		YES	YES
Arsenic	mg/kg	1.83E+01	4.26E-01	5.60E+00			YES	7.70E+00			YES	6.30E+00			YES	5.80E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	4.80E+01				3.56E+01				4.02E+01				4.83E+01			
Beryllium	mg/kg	8.60E-01	9.60E+00	1.10E+00		YES		1.00E+00		YES		7.10E-01				8.90E-01		YES	
Cadmium	mg/kg	2.20E-01	6.25E+00	ND				ND								ND			
Calcium	mg/kg	6.37E+02	NA	ND				ND				1.31E+03 J		YES		5.26E+04 J		YES	
Chromium	mg/kg	3.83E+01	2.32E+01	2.75E+01			YES	2.74E+01			YES	2.22E+01				2.04E+01			
Cobalt	mg/kg	1.75E+01	4.68E+02	7.80E+00				1.08E+01				1.16E+01				1.51E+01			
Copper	mg/kg	1.94E+01	3.13E+02	4.08E+01		YES		3.55E+01		YES		3.03E+01		YES		3.12E+01		YES	
Iron	mg/kg	4.48E+04	2.34E+03	3.60E+04			YES	4.06E+04			YES	3.23E+04			YES	2.90E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	2.21E+01				2.18E+01				1.59E+01				1.68E+01			
Magnesium	mg/kg	7.66E+02	NA	5.14E+03		YES		4.42E+03		YES		3.50E+03		YES		3.50E+04		YES	
Manganese	mg/kg	1.36E+03	3.63E+02	4.18E+01				7.47E+01				1.58E+02				5.13E+02			YES
Mercury	mg/kg	7.00E-02	2.33E+00	ND				ND				3.90E-02				ND			
Nickel	mg/kg	1.29E+01	1.54E+02	1.67E+01		YES		1.75E+01		YES		1.58E+01		YES		2.05E+01		YES	
Potassium	mg/kg	7.11E+02	NA	1.20E+03		YES		9.74E+02		YES		7.61E+02		YES		9.61E+02		YES	
Selenium	mg/kg	4.70E-01	3.91E+01	1.30E+00		YES		1.40E+00		YES		1.30E+00		YES		ND			
Sodium	mg/kg	7.02E+02	NA	ND				ND				ND				ND			
Thallium	mg/kg	1.40E+00	5.08E-01	ND				ND				ND				ND			
Vanadium	mg/kg	6.49E+01	5.31E-01	ND				7.80E+00 J				8.50E+00 J				1.16E+01 J			
Zinc	mg/kg	3.49E+01	2.34E+03	7.14E+01		YES		6.75E+01		YES		5.18E+01		YES		6.08E+01		YES	
PESTICIDES																			
4,4'-DDT	mg/kg	NA	1.79E+00	ND				ND				ND				ND			
Chlordane	mg/kg	NA	1.69E+00	ND				ND				ND				ND			
alpha-Chlordane	mg/kg	NA	NA	ND				ND				ND				ND			
gamma-Chlordane	mg/kg	NA	NA	ND				ND				ND				ND			
SEMIVOLATILE ORGANIC COMPOUNDS																			
Benzoic Acid	mg/kg	NA	NA	ND				ND				ND				ND			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	4.60E-02 J				ND				ND				ND			
VOLATILE ORGANIC COMPOUNDS																			
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				1.00E-02			
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				3.20E-03 J			
2-Butanone	mg/kg	NA	4.66E+03	ND				ND				ND				ND			
Acetone	mg/kg	NA	7.76E+02	ND				1.80E-02 B				1.80E-02 B				2.40E-02 B			
Benzene	mg/kg	NA	2.17E+01	ND				ND				ND				ND			
Carbon disulfide	mg/kg	NA	7.77E+02	ND				ND				ND				ND			
Ethylbenzene	mg/kg	NA	7.77E+02	ND				ND				ND				ND			
Methylene chloride	mg/kg	NA	8.41E+01	3.10E-03 B				2.40E-03 B				2.70E-03 B				3.40E-03 B			
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				2.30E-03 J				2.50E-03 J			
Toluene	mg/kg	NA	1.55E+03	ND				ND				ND				ND			
Xylene, Total	mg/kg	NA	1.55E+04	NA				ND				ND				ND			
n-Butylbenzene	mg/kg	NA	7.77E+01	ND				ND				ND				5.80E-03			

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Fort McClellan, Calhoun County, Alabama

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Sample Location Parcel Sample Number Sample Date Sample Depth (Feet)				FTA-100-GP06 100 REP CV0010 7-Oct-98 4 - 6.5				SI06-GWS06 100 REP 06-SS02B 4-May-98 3-4				SI06-GWS09 100 REP 06-SS03B 4-May-98 3-4				SI06-SS01 100 REP 06-SS01B 4-May-98 3-4			
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	1.71E+04		YES	YES	3.48E+03				6.52E+03				1.80E+04	YES	YES	
Arsenic	mg/kg	1.83E+01	4.26E-01	6.80E+00			YES	1.44E+00			YES	3.51E+00		YES		4.56E+00			YES
Barium	mg/kg	2.34E+02	5.47E+02	4.33E+01				3.83E+01				4.50E+01				1.12E+02			
Beryllium	mg/kg	8.60E-01	9.60E+00	1.20E+00		YES		4.06E-01				6.64E-01				1.08E+00		YES	
Cadmium	mg/kg	2.20E-01	6.25E+00	ND				ND				ND				4.49E-01		YES	
Calcium	mg/kg	6.37E+02	NA	ND				5.92E+02				5.96E+02				5.61E+02			
Chromium	mg/kg	3.83E+01	2.32E+01	2.50E+01			YES	7.31E+00				1.46E+01				1.23E+01			
Cobalt	mg/kg	1.75E+01	4.68E+02	1.05E+01				2.09E+00				1.35E+01				8.08E+00			
Copper	mg/kg	1.94E+01	3.13E+02	3.81E+01		YES		2.90E+00				1.35E+01				4.04E+01		YES	
Iron	mg/kg	4.48E+04	2.34E+03	4.17E+04			YES	7.31E+03			YES	2.02E+04		YES		4.04E+04			YES
Lead	mg/kg	3.85E+01	4.00E+02	1.58E+01				6.84E+00				1.12E+01				1.44E+01			
Magnesium	mg/kg	7.66E+02	NA	2.89E+03		YES		5.68E+02				9.34E+02		YES		8.42E+03		YES	
Manganese	mg/kg	1.36E+03	3.63E+02	8.40E+01				6.84E+01				3.71E+02		YES		2.24E+02			
Mercury	mg/kg	7.00E-02	2.33E+00	5.30E-02				2.55E-02				3.15E-02				3.82E-02			
Nickel	mg/kg	1.29E+01	1.54E+02	1.41E+01		YES		3.36E+00				9.45E+00				3.59E+01		YES	
Potassium	mg/kg	7.11E+02	NA	1.08E+03		YES		1.28E+02				3.82E+02				5.84E+02			
Selenium	mg/kg	4.70E-01	3.91E+01	1.60E+00		YES		ND				5.74E-01		YES		1.02E+00		YES	
Sodium	mg/kg	7.02E+02	NA	ND				2.09E+02				2.02E+02				2.13E+02			
Thallium	mg/kg	1.40E+00	5.08E-01	ND				ND				2.81E-01 B				ND			
Vanadium	mg/kg	6.49E+01	5.31E+01	ND				1.07E+01				1.57E+01				2.69E+01			
Zinc	mg/kg	3.49E+01	2.34E+03	5.54E+01		YES		9.16E+00				3.04E+01				1.32E+02		YES	
PESTICIDES																			
4,4'-DDT	mg/kg	NA	1.79E+00	ND				ND				6.94E-03				ND			
Chlordane	mg/kg	NA	1.69E+00	ND				ND				1.44E-02				ND			
alpha-Chlordane	mg/kg	NA	NA	ND				ND				7.50E-04				ND			
gamma-Chlordane	mg/kg	NA	NA	ND				ND				9.86E-04				ND			
SEMIVOLATILE ORGANIC COMPOUNDS																			
Benzoic Acid	mg/kg	NA	NA	ND				ND				1.60E-01 J				ND			
bis(2-Ethylhexyl)phthalate	mg/kg	NA	4.52E+01	ND				ND				ND				ND			
VOLATILE ORGANIC COMPOUNDS																			
1,2,4-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND			
1,3,5-Trimethylbenzene	mg/kg	NA	3.88E+02	ND				ND				ND				ND			
2-Butanone	mg/kg	NA	4.66E+03	ND				1.20E-02 J				2.10E-02 J				ND			
Acetone	mg/kg	NA	7.76E+02	1.60E-02 B				9.20E-02				2.70E-01				2.00E-02 J			
Benzene	mg/kg	NA	2.17E+01	ND				7.90E-04 J				ND				ND			
Carbon disulfide	mg/kg	NA	7.77E+02	ND				1.80E-03 J				1.50E-03 J				1.30E-03 J			
Ethylbenzene	mg/kg	NA	7.77E+02	ND				7.70E-04 J				ND				ND			
Methylene chloride	mg/kg	NA	8.41E+01	2.60E-03 B				ND				ND				ND			
Naphthalene	mg/kg	NA	1.55E+02	ND				ND				ND				ND			
Toluene	mg/kg	NA	1.55E+03	ND				2.70E-03 J				1.20E-03 J				5.60E-04 J			
Xylene, Total	mg/kg	NA	1.55E+04	ND				5.30E-03				1.80E-03 J				1.30E-03 J			
n-Butylbenzene	mg/kg	NA	7.77E+01	ND															

Table 5-2

**Subsurface Soil Analytical Results
Autocraft Shop/Former DPDO and Former Motor Pool Area 2100 North of DPDO
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.

^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 - 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.