

Table 5-4

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

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Parcel Sample Location Sample Number Sample Date					FTA-100-SW/SD01 100 REP CV2001 26-Jan-99					FTA-100-SW/SD02 100 REP CV2002 26-Jan-99					FTA-100-SW/SD03 100 REP CV2003 26-Jan-99				
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/L	5.26E+00	1.53E+01	8.70E-02	7.31E-02	B				6.09E-02	B				1.81E-01	J			YES
Antimony	mg/L	NA	5.84E-03	1.60E-01	ND					1.40E-03	J				ND				
Barium	mg/L	7.53E-02	1.10E+00	3.90E-03	3.64E-02	J			YES	3.71E-02	J			YES	3.18E-02	J			YES
Beryllium	mg/L	3.00E-04	1.75E-02	5.30E-04	1.20E-04	B				1.50E-04	B				1.20E-04	B			
Calcium	mg/L	2.52E+01	NA	1.16E+02	1.85E+01					1.88E+01					1.08E+01				
Chromium	mg/L	1.11E-02	4.08E-02	1.10E-02	ND					1.60E-03	J				ND				
Iron	mg/L	1.96E+01	4.70E+00	1.00E+00	6.03E-02	B				5.13E-02	B				1.93E-01				
Magnesium	mg/L	1.10E+01	NA	8.20E+01	3.34E+00	J				3.42E+00	J				1.81E+00	J			
Manganese	mg/L	5.65E-01	6.40E-01	8.00E-02	3.30E-03	J				3.30E-03	J				3.48E-02				
Mercury	mg/L	NA	4.25E-03	1.20E-05	ND					ND					ND				
Potassium	mg/L	2.56E+00	NA	5.30E+01	1.23E+00	B				1.35E+00	B				3.58E-01	B			
Selenium	mg/L	NA	7.82E-02	5.00E-03	ND					2.70E-03	J				ND				
Sodium	mg/L	3.44E+00	NA	6.80E+02	9.82E-01	J				1.02E+00	J				9.80E-01	J			
Vanadium	mg/L	1.52E-02	7.90E-02	1.90E-02	ND					2.80E-03	B				ND				
Zinc	mg/L	4.03E-02	4.65E+00	5.89E-02	ND					ND					ND				
SEMIVOLATILE ORGANIC COMPOUNDS																			
bis(2-Ethylhexyl)phthalate	mg/L	NA	5.17E-02	3.00E-04	ND					3.10E-03	B			YES	ND				
VOLATILE ORGANIC COMPOUNDS																			
1,2,4-Trimethylbenzene	mg/L	NA	3.11E-01	NA	ND					ND					ND				
Acetone	mg/L	NA	1.57E+00	7.80E+01	ND					ND					ND				
Methylene chloride	mg/L	NA	1.42E-01	1.93E+00	ND					ND					ND				
Toluene	mg/L	NA	2.32E+00	1.75E-01	ND					ND					ND				
Trichloroethene	mg/L	NA	8.80E-02	2.19E+01	5.60E-04	J				5.90E-04	J				ND				
WET CHEMISTRY																			
Biological Oxygen Demand	mg/L	NA	NA	NA	NR					NR					NR				

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

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Parcel Sample Location Sample Number Sample Date					FTA-145-SW/SD02 100 REP CY2002 27-Jan-99					SI06-SW01 100 REP 06-SW01 18-May-99					WS100-SW/SD01 100 REP WS2001 27-Jan-99				
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/L	5.26E+00	1.53E+01	8.70E-02	7.61E-02	B				4.50E-02					1.80E+00	J			YES
Antimony	mg/L	NA	5.84E-03	1.60E-01	ND					ND					ND				
Barium	mg/L	7.53E-02	1.10E+00	3.90E-03	3.00E-02	J			YES	5.89E-02				YES	3.83E-02	J			YES
Beryllium	mg/L	3.00E-04	1.75E-02	5.30E-04	ND					ND					ND				
Calcium	mg/L	2.52E+01	NA	1.16E+02	1.61E+01					3.25E+01	J	YES			1.30E+01				
Chromium	mg/L	1.11E-02	4.08E-02	1.10E-02	ND					ND					ND				
Iron	mg/L	1.96E+01	4.70E+00	1.00E+00	6.74E-02	J				1.67E-01					1.75E+00	J			YES
Magnesium	mg/L	1.10E+01	NA	8.20E+01	2.61E+00	J				4.05E+00					1.94E+00	J			
Manganese	mg/L	5.65E-01	6.40E-01	8.00E-02	3.70E-03	J				3.38E-02					1.75E-02				
Mercury	mg/L	NA	4.25E-03	1.20E-05	ND					ND					5.90E-05	J			YES
Potassium	mg/L	2.56E+00	NA	5.30E+01	8.46E-01	J				4.23E-01					ND				
Selenium	mg/L	NA	7.82E-02	5.00E-03	ND					ND					ND				
Sodium	mg/L	3.44E+00	NA	6.80E+02	9.04E-01	B				1.17E+00					1.19E+00	B			
Vanadium	mg/L	1.52E-02	7.90E-02	1.90E-02	ND					ND					ND				
Zinc	mg/L	4.03E-02	4.65E+00	5.89E-02	ND					ND					1.50E-02	J			
SEMIVOLATILE ORGANIC COMPOUNDS																			
bis(2-Ethylhexyl)phthalate	mg/L	NA	5.17E-02	3.00E-04	1.10E-03	J			YES	1.50E-03	B			YES	ND				
VOLATILE ORGANIC COMPOUNDS																			
1,2,4-Trimethylbenzene	mg/L	NA	3.11E-01	NA	ND										2.70E-04	J			
Acetone	mg/L	NA	1.57E+00	7.80E+01	ND					ND					5.70E-03	J			
Methylene chloride	mg/L	NA	1.42E-01	1.93E+00	ND					2.10E-03	B				1.20E-03	B			
Toluene	mg/L	NA	2.32E+00	1.75E-01	5.80E-04	J				ND					ND				
Trichloroethene	mg/L	NA	8.80E-02	2.19E+01	4.20E-04	J				ND					2.00E-04	J			
WET CHEMISTRY																			
Biological Oxygen Demand	mg/L	NA	NA	NA	NR					1.80E+00	J				NR				

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 Recreational site user 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/L - Milligrams per liter.

NA - Not available.

ND - Not detected.

NR - Analysis not requested.

Qual - Data validation qualifier.