Table 3-3

Subsurface Soil Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location					SAR-77-SS21					SAR-77-SS30					SAR-77-SS30				
Parcel					SAR-77					SAR-77					SAR-77				
Sample Number					HP0039					HP0049					HP0050				
Sample Date					25-Jul-00					25-Jul-00					25-Jul-00				
Sample Depth (Feet)					2- 2.5					1- 1.5					2- 2.5				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
HERBICIDES																			
MCPP	mg/kg	NA	NA	7.77E+00															
PESTICIDES																			
4,4'-DDT	mg/kg	NA	NA	1.79E+00															
METALS																			
Aluminum	mg/kg	2.46E+04	1.36E+04	7.80E+03															
Antimony	mg/kg	9.90E-01	1.31E+00	3.11E+00															
Arsenic	mg/kg	3.80E+01	1.83E+01	4.26E-01															
Barium	mg/kg	4.50E+03	2.34E+02	5.47E+02															
Beryllium	mg/kg	2.00E+00	8.60E-01	9.60E+00															
Calcium	mg/kg	3.65E+03	6.37E+02	NA															
Chromium	mg/kg	5.50E+01	3.83E+01	2.32E+01															
Cobalt	mg/kg	9.60E+01	1.75E+01	4.68E+02															
Copper	mg/kg	6.10E+01	1.94E+01	3.13E+02															
Iron	mg/kg	4.80E+04	4.48E+04	2.34E+03															
Lead	mg/kg	5.00E+02	3.85E+01	4.00E+02	2.22E+02			YES		8.59E+02		YES	YES	YES	1.39E+03		YES	YES	YES
Magnesium	mg/kg	5.94E+03	7.66E+02	NA															
Manganese	mg/kg	1.90E+04	1.36E+03	3.63E+02															
Mercury	mg/kg	1.20E-01	7.00E-02	2.33E+00															
Nickel	mg/kg	3.80E+01	1.29E+01	1.54E+02															
Potassium	mg/kg	6.15E+03	7.11E+02	NA															
Selenium	mg/kg	5.50E-01	4.70E-01	3.91E+01															
Silver	mg/kg	6.60E-01	2.40E-01	3.91E+01															
Sodium	mg/kg	6.43E+02	7.02E+02	NA															
Thallium	mg/kg	2.40E+01	1.40E+00	5.08E-01															
Vanadium	mg/kg	9.90E+01	6.49E+01	5.31E+01															
Zinc	mg/kg	8.90E+01	3.49E+01	2.34E+03															

Table 3-3

Subsurface Soil Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location					SAR-77-SS21					SAR-77-SS30					SAR-77-SS30				
Parcel					SAR-77					SAR-77					SAR-77				
Sample Number					HP0039					HP0049					HP0050				
Sample Date					25-Jul-00					25-Jul-00					25-Jul-00				
Sample Depth (Feet)					2- 2.5					1- 1.5					2- 2.5				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS																			
Acenaphthylene	mg/kg	NA	NA	4.63E+02															
Anthracene	mg/kg	NA	NA	2.33E+03															
Benzo(a)anthracene	mg/kg	NA	NA	8.51E-01															
Benzo(a)pyrene	mg/kg	NA	NA	8.51E-02															
Benzo(b)fluoranthene	mg/kg	NA	NA	8.51E-01															
Benzo(ghi)perylene	mg/kg	NA	NA	2.32E+02															
Benzo(k)fluoranthene	mg/kg	NA	NA	8.51E+00															
Chrysene	mg/kg	NA	NA	8.61E+01															
Dibenz(a,h)anthracene	mg/kg	NA	NA	8.61E-02															
Fluoranthene	mg/kg	NA	NA	3.09E+02															
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	8.51E-01															
Phenanthrene	mg/kg	NA	NA	2.32E+03															
Pyrene	mg/kg	NA	NA	2.33E+02															
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	4.52E+01															
n-Nitrosodiphenylamine	mg/kg	NA	NA	1.29E+02															
VOLATILE ORGANIC COMPOUNDS																			
Acetone	mg/kg	NA	NA	7.76E+02															
Cumene	mg/kg	NA	NA	7.77E+02															
Methylene chloride	mg/kg	NA	NA	8.41E+01															
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03															

Table 3-3

Subsurface Soil Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date Sample Depth (Feet)					SAR-77-SS43 SAR-77 HP0064 25-Jul-00 1- 1.5					SAR-78-SS02 SAR-78 HQ0003 26-Jul-00 1- 1.5					SAR-78-SS02 SAR-78 HQ0004 26-Jul-00 2- 2.5				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
HERBICIDES																			
MCPP	mg/kg	NA	NA	7.77E+00															
PESTICIDES																			
4,4'-DDT	mg/kg	NA	NA	1.79E+00															
METALS																			
Aluminum	mg/kg	2.46E+04	1.36E+04	7.80E+03						1.38E+04			YES	YES	9.38E+03				YES
Antimony	mg/kg	9.90E-01	1.31E+00	3.11E+00						ND					ND				
Arsenic	mg/kg	3.80E+01	1.83E+01	4.26E-01						3.40E+00				YES	3.00E+00				YES
Barium	mg/kg	4.50E+03	2.34E+02	5.47E+02						3.02E+01					3.23E+01				
Beryllium	mg/kg	2.00E+00	8.60E-01	9.60E+00						2.50E-01	J				2.60E-01	J			
Calcium	mg/kg	3.65E+03	6.37E+02	NA						6.01E+03		YES	YES		3.35E+03			YES	
Chromium	mg/kg	5.50E+01	3.83E+01	2.32E+01						2.09E+01	J				1.04E+01	J			
Cobalt	mg/kg	9.60E+01	1.75E+01	4.68E+02						1.70E+00	J				1.70E+00	J			
Copper	mg/kg	6.10E+01	1.94E+01	3.13E+02						5.60E+00					4.30E+00				
Iron	mg/kg	4.80E+04	4.48E+04	2.34E+03						1.82E+04				YES	1.27E+04				YES
Lead	mg/kg	5.00E+02	3.85E+01	4.00E+02	3.95E+02			YES		7.30E+00	J				6.80E+00	J			
Magnesium	mg/kg	5.94E+03	7.66E+02	NA						3.58E+03			YES		2.02E+03			YES	
Manganese	mg/kg	1.90E+04	1.36E+03	3.63E+02						8.98E+01	J				1.01E+02	J			
Mercury	mg/kg	1.20E-01	7.00E-02	2.33E+00						2.80E-02	J				2.50E-02	J			
Nickel	mg/kg	3.80E+01	1.29E+01	1.54E+02						6.90E+00					3.60E+00	J			
Potassium	mg/kg	6.15E+03	7.11E+02	NA						2.33E+02	J				2.12E+02	J			
Selenium	mg/kg	5.50E-01	4.70E-01	3.91E+01						ND					ND				
Silver	mg/kg	6.60E-01	2.40E-01	3.91E+01						ND					ND				
Sodium	mg/kg	6.43E+02	7.02E+02	NA						ND					ND				
Thallium	mg/kg	2.40E+01	1.40E+00	5.08E-01						ND					ND				
Vanadium	mg/kg	9.90E+01	6.49E+01	5.31E+01						2.62E+01					1.89E+01				
Zinc	mg/kg	8.90E+01	3.49E+01	2.34E+03						1.02E+01	J				8.80E+00	J			

Table 3-3

Subsurface Soil Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location					SAR-77-SS43					SAR-78-SS02					SAR-78-SS02				
Parcel					SAR-77					SAR-78					SAR-78				
Sample Number					HP0064					HQ0003					HQ0004				
Sample Date					25-Jul-00					26-Jul-00					26-Jul-00				
Sample Depth (Feet)					1- 1.5					1- 1.5					2- 2.5				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS																			
Acenaphthylene	mg/kg	NA	NA	4.63E+02						ND					ND				
Anthracene	mg/kg	NA	NA	2.33E+03						ND					ND				
Benzo(a)anthracene	mg/kg	NA	NA	8.51E-01						ND					ND				
Benzo(a)pyrene	mg/kg	NA	NA	8.51E-02						ND					ND				
Benzo(b)fluoranthene	mg/kg	NA	NA	8.51E-01						ND					ND				
Benzo(ghi)perylene	mg/kg	NA	NA	2.32E+02						ND					ND				
Benzo(k)fluoranthene	mg/kg	NA	NA	8.51E+00						ND					ND				
Chrysene	mg/kg	NA	NA	8.61E+01						ND					ND				
Dibenz(a,h)anthracene	mg/kg	NA	NA	8.61E-02						ND					ND				
Fluoranthene	mg/kg	NA	NA	3.09E+02						ND					ND				
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	8.51E-01						ND					ND				
Phenanthrene	mg/kg	NA	NA	2.32E+03						ND					ND				
Pyrene	mg/kg	NA	NA	2.33E+02						ND					ND				
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	4.52E+01						ND					ND				
n-Nitrosodiphenylamine	mg/kg	NA	NA	1.29E+02						ND					ND				
VOLATILE ORGANIC COMPOUNDS																			
Acetone	mg/kg	NA	NA	7.76E+02						ND					ND				
Cumene	mg/kg	NA	NA	7.77E+02						ND					ND				
Methylene chloride	mg/kg	NA	NA	8.41E+01						2.80E-03	B				3.00E-03	B			
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03						1.60E-03	J				1.50E-03	J			

Table 3-3

Subsurface Soil Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location					SAR-78-SS04					SAR-78-SS04					SAR-78-SS07				
Parcel					SAR-78					SAR-78					SAR-78				
Sample Number					HQ0007					HQ0008					HQ0012				
Sample Date					26-Jul-00					26-Jul-00					26-Jul-00				
Sample Depth (Feet)					1- 1.5					2- 2.5					1- 1.5				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
HERBICIDES																			
MCPP	mg/kg	NA	NA	7.77E+00															
PESTICIDES																			
4,4'-DDT	mg/kg	NA	NA	1.79E+00															
METALS																			
Aluminum	mg/kg	2.46E+04	1.36E+04	7.80E+03	8.11E+03				YES	1.12E+04				YES	6.42E+03				
Antimony	mg/kg	9.90E-01	1.31E+00	3.11E+00	ND					ND					8.20E-01	J			
Arsenic	mg/kg	3.80E+01	1.83E+01	4.26E-01	2.10E+00				YES	3.40E+00				YES	5.63E+01		YES	YES	YES
Barium	mg/kg	4.50E+03	2.34E+02	5.47E+02	8.16E+01					6.29E+01					8.13E+01				
Beryllium	mg/kg	2.00E+00	8.60E-01	9.60E+00	4.90E-01	J				4.60E-01	J				7.20E-01				
Calcium	mg/kg	3.65E+03	6.37E+02	NA	4.23E+03		YES	YES		5.69E+02					6.86E+02			YES	
Chromium	mg/kg	5.50E+01	3.83E+01	2.32E+01	7.30E+00	J				1.17E+01	J				1.32E+02	J	YES	YES	YES
Cobalt	mg/kg	9.60E+01	1.75E+01	4.68E+02	4.10E+00	J				2.70E+00	J				4.20E+00	J			
Copper	mg/kg	6.10E+01	1.94E+01	3.13E+02	3.60E+00					4.70E+00					2.60E+01			YES	
Iron	mg/kg	4.80E+04	4.48E+04	2.34E+03	8.50E+03				YES	1.40E+04				YES	1.67E+04				YES
Lead	mg/kg	5.00E+02	3.85E+01	4.00E+02	8.30E+00	J				7.60E+00	J				2.10E+02	J		YES	
Magnesium	mg/kg	5.94E+03	7.66E+02	NA	2.34E+03			YES		4.46E+02	J				2.98E+02	J			
Manganese	mg/kg	1.90E+04	1.36E+03	3.63E+02	4.38E+02	J			YES	2.81E+02	J				4.54E+02	J			YES
Mercury	mg/kg	1.20E-01	7.00E-02	2.33E+00	2.30E-02	J				3.40E-02	J				9.40E-02			YES	
Nickel	mg/kg	3.80E+01	1.29E+01	1.54E+02	4.70E+00					4.70E+00					4.70E+00				
Potassium	mg/kg	6.15E+03	7.11E+02	NA	1.89E+02	J				2.89E+02	J				4.16E+02	J			
Selenium	mg/kg	5.50E-01	4.70E-01	3.91E+01	ND					ND					ND				
Silver	mg/kg	6.60E-01	2.40E-01	3.91E+01	ND					ND					ND				
Sodium	mg/kg	6.43E+02	7.02E+02	NA	ND					ND					ND				
Thallium	mg/kg	2.40E+01	1.40E+00	5.08E-01	ND					ND					6.00E-01	J			YES
Vanadium	mg/kg	9.90E+01	6.49E+01	5.31E+01	1.22E+01					2.24E+01					1.35E+01				
Zinc	mg/kg	8.90E+01	3.49E+01	2.34E+03	9.90E+00	J				9.90E+00	J				2.30E+01	J			

Table 3-3

Subsurface Soil Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date Sample Depth (Feet)					SAR-78-SS04 SAR-78 HQ0007 26-Jul-00 1- 1.5					SAR-78-SS04 SAR-78 HQ0008 26-Jul-00 2- 2.5					SAR-78-SS07 SAR-78 HQ0012 26-Jul-00 1- 1.5				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS																			
Acenaphthylene	mg/kg	NA	NA	4.63E+02	ND					ND					ND				
Anthracene	mg/kg	NA	NA	2.33E+03	ND					ND					ND				
Benzo(a)anthracene	mg/kg	NA	NA	8.51E-01	ND					ND					ND				
Benzo(a)pyrene	mg/kg	NA	NA	8.51E-02	ND					ND					ND				
Benzo(b)fluoranthene	mg/kg	NA	NA	8.51E-01	ND					ND					ND				
Benzo(ghi)perylene	mg/kg	NA	NA	2.32E+02	ND					ND					ND				
Benzo(k)fluoranthene	mg/kg	NA	NA	8.51E+00	ND					ND					ND				
Chrysene	mg/kg	NA	NA	8.61E+01	ND					ND					ND				
Dibenz(a,h)anthracene	mg/kg	NA	NA	8.61E-02	ND					ND					ND				
Fluoranthene	mg/kg	NA	NA	3.09E+02	ND					ND					ND				
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	8.51E-01	ND					ND					ND				
Phenanthrene	mg/kg	NA	NA	2.32E+03	ND					ND					ND				
Pyrene	mg/kg	NA	NA	2.33E+02	ND					ND					ND				
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	4.52E+01	4.60E-02	J				ND					ND				
n-Nitrosodiphenylamine	mg/kg	NA	NA	1.29E+02	ND					ND					ND				
VOLATILE ORGANIC COMPOUNDS																			
Acetone	mg/kg	NA	NA	7.76E+02	ND					ND					1.40E-02	B			
Cumene	mg/kg	NA	NA	7.77E+02	ND					ND					ND				
Methylene chloride	mg/kg	NA	NA	8.41E+01	3.40E-03	B				2.70E-03	B				2.00E-03	B			
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03	2.00E-03	J				1.20E-03	J				3.80E-03	J			

Table 3-3

Subsurface Soil Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location					SAR-78-SS11					SAR-78-SS11					SAR-78-SS13				
Parcel					SAR-78					SAR-78					SAR-78				
Sample Number					HQ0018					HQ0019					HQ0023				
Sample Date					26-Jul-00					26-Jul-00					26-Jul-00				
Sample Depth (Feet)					1- 1.5					2- 2.5					1- 1.5				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
HERBICIDES																			
MCPP	mg/kg	NA	NA	7.77E+00															
PESTICIDES																			
4,4'-DDT	mg/kg	NA	NA	1.79E+00															
METALS																			
Aluminum	mg/kg	2.46E+04	1.36E+04	7.80E+03															
Antimony	mg/kg	9.90E-01	1.31E+00	3.11E+00															
Arsenic	mg/kg	3.80E+01	1.83E+01	4.26E-01															
Barium	mg/kg	4.50E+03	2.34E+02	5.47E+02															
Beryllium	mg/kg	2.00E+00	8.60E-01	9.60E+00															
Calcium	mg/kg	3.65E+03	6.37E+02	NA															
Chromium	mg/kg	5.50E+01	3.83E+01	2.32E+01															
Cobalt	mg/kg	9.60E+01	1.75E+01	4.68E+02															
Copper	mg/kg	6.10E+01	1.94E+01	3.13E+02															
Iron	mg/kg	4.80E+04	4.48E+04	2.34E+03															
Lead	mg/kg	5.00E+02	3.85E+01	4.00E+02	1.50E+02	J		YES		2.20E+02	J		YES		1.99E+02			YES	
Magnesium	mg/kg	5.94E+03	7.66E+02	NA															
Manganese	mg/kg	1.90E+04	1.36E+03	3.63E+02															
Mercury	mg/kg	1.20E-01	7.00E-02	2.33E+00															
Nickel	mg/kg	3.80E+01	1.29E+01	1.54E+02															
Potassium	mg/kg	6.15E+03	7.11E+02	NA															
Selenium	mg/kg	5.50E-01	4.70E-01	3.91E+01															
Silver	mg/kg	6.60E-01	2.40E-01	3.91E+01															
Sodium	mg/kg	6.43E+02	7.02E+02	NA															
Thallium	mg/kg	2.40E+01	1.40E+00	5.08E-01															
Vanadium	mg/kg	9.90E+01	6.49E+01	5.31E+01															
Zinc	mg/kg	8.90E+01	3.49E+01	2.34E+03															

Table 3-3

Subsurface Soil Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location					SAR-78-SS11					SAR-78-SS11					SAR-78-SS13				
Parcel					SAR-78					SAR-78					SAR-78				
Sample Number					HQ0018					HQ0019					HQ0023				
Sample Date					26-Jul-00					26-Jul-00					26-Jul-00				
Sample Depth (Feet)					1- 1.5					2- 2.5					1- 1.5				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS																			
Acenaphthylene	mg/kg	NA	NA	4.63E+02															
Anthracene	mg/kg	NA	NA	2.33E+03															
Benzo(a)anthracene	mg/kg	NA	NA	8.51E-01															
Benzo(a)pyrene	mg/kg	NA	NA	8.51E-02															
Benzo(b)fluoranthene	mg/kg	NA	NA	8.51E-01															
Benzo(ghi)perylene	mg/kg	NA	NA	2.32E+02															
Benzo(k)fluoranthene	mg/kg	NA	NA	8.51E+00															
Chrysene	mg/kg	NA	NA	8.61E+01															
Dibenz(a,h)anthracene	mg/kg	NA	NA	8.61E-02															
Fluoranthene	mg/kg	NA	NA	3.09E+02															
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	8.51E-01															
Phenanthrene	mg/kg	NA	NA	2.32E+03															
Pyrene	mg/kg	NA	NA	2.33E+02															
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	4.52E+01															
n-Nitrosodiphenylamine	mg/kg	NA	NA	1.29E+02															
VOLATILE ORGANIC COMPOUNDS																			
Acetone	mg/kg	NA	NA	7.76E+02															
Cumene	mg/kg	NA	NA	7.77E+02															
Methylene chloride	mg/kg	NA	NA	8.41E+01															
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03															

Table 3-3

Subsurface Soil Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location					SAR-78-SS13					SAR-78-SS21					SAR-78-SS25				
Parcel					SAR-78					SAR-78					SAR-78				
Sample Number					HQ0024					HQ0033					HQ0042				
Sample Date					26-Jul-00					27-Jul-00					27-Jul-00				
Sample Depth (Feet)					2- 2.5					2 - 3					2 - 3				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
HERBICIDES																			
MCPP	mg/kg	NA	NA	7.77E+00															
PESTICIDES																			
4,4'-DDT	mg/kg	NA	NA	1.79E+00															
METALS																			
Aluminum	mg/kg	2.46E+04	1.36E+04	7.80E+03															
Antimony	mg/kg	9.90E-01	1.31E+00	3.11E+00															
Arsenic	mg/kg	3.80E+01	1.83E+01	4.26E-01															
Barium	mg/kg	4.50E+03	2.34E+02	5.47E+02															
Beryllium	mg/kg	2.00E+00	8.60E-01	9.60E+00															
Calcium	mg/kg	3.65E+03	6.37E+02	NA															
Chromium	mg/kg	5.50E+01	3.83E+01	2.32E+01															
Cobalt	mg/kg	9.60E+01	1.75E+01	4.68E+02															
Copper	mg/kg	6.10E+01	1.94E+01	3.13E+02															
Iron	mg/kg	4.80E+04	4.48E+04	2.34E+03															
Lead	mg/kg	5.00E+02	3.85E+01	4.00E+02	2.32E+02			YES		1.85E+03		YES	YES	YES	3.11E+04		YES	YES	YES
Magnesium	mg/kg	5.94E+03	7.66E+02	NA															
Manganese	mg/kg	1.90E+04	1.36E+03	3.63E+02															
Mercury	mg/kg	1.20E-01	7.00E-02	2.33E+00															
Nickel	mg/kg	3.80E+01	1.29E+01	1.54E+02															
Potassium	mg/kg	6.15E+03	7.11E+02	NA															
Selenium	mg/kg	5.50E-01	4.70E-01	3.91E+01															
Silver	mg/kg	6.60E-01	2.40E-01	3.91E+01															
Sodium	mg/kg	6.43E+02	7.02E+02	NA															
Thallium	mg/kg	2.40E+01	1.40E+00	5.08E-01															
Vanadium	mg/kg	9.90E+01	6.49E+01	5.31E+01															
Zinc	mg/kg	8.90E+01	3.49E+01	2.34E+03															

Table 3-3

Subsurface Soil Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location					SAR-78-SS13					SAR-78-SS21					SAR-78-SS25				
Parcel					SAR-78					SAR-78					SAR-78				
Sample Number					HQ0024					HQ0033					HQ0042				
Sample Date					26-Jul-00					27-Jul-00					27-Jul-00				
Sample Depth (Feet)					2- 2.5					2 - 3					2 - 3				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS																			
Acenaphthylene	mg/kg	NA	NA	4.63E+02															
Anthracene	mg/kg	NA	NA	2.33E+03															
Benzo(a)anthracene	mg/kg	NA	NA	8.51E-01															
Benzo(a)pyrene	mg/kg	NA	NA	8.51E-02															
Benzo(b)fluoranthene	mg/kg	NA	NA	8.51E-01															
Benzo(ghi)perylene	mg/kg	NA	NA	2.32E+02															
Benzo(k)fluoranthene	mg/kg	NA	NA	8.51E+00															
Chrysene	mg/kg	NA	NA	8.61E+01															
Dibenz(a,h)anthracene	mg/kg	NA	NA	8.61E-02															
Fluoranthene	mg/kg	NA	NA	3.09E+02															
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	8.51E-01															
Phenanthrene	mg/kg	NA	NA	2.32E+03															
Pyrene	mg/kg	NA	NA	2.33E+02															
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	4.52E+01															
n-Nitrosodiphenylamine	mg/kg	NA	NA	1.29E+02															
VOLATILE ORGANIC COMPOUNDS																			
Acetone	mg/kg	NA	NA	7.76E+02															
Cumene	mg/kg	NA	NA	7.77E+02															
Methylene chloride	mg/kg	NA	NA	8.41E+01															
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03															

Table 3-3

Subsurface Soil Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location					SAR-78-SS25					SAR-78-SS26					SAR-78-SS26				
Parcel					SAR-78					SAR-78					SAR-78				
Sample Number					HQ0043					HQ0045					HQ0046				
Sample Date					27-Jul-00					27-Jul-00					27-Jul-00				
Sample Depth (Feet)					4 - 5					2 - 3					4 - 5				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
HERBICIDES																			
MCPP	mg/kg	NA	NA	7.77E+00															
PESTICIDES																			
4,4'-DDT	mg/kg	NA	NA	1.79E+00															
METALS																			
Aluminum	mg/kg	2.46E+04	1.36E+04	7.80E+03															
Antimony	mg/kg	9.90E-01	1.31E+00	3.11E+00															
Arsenic	mg/kg	3.80E+01	1.83E+01	4.26E-01															
Barium	mg/kg	4.50E+03	2.34E+02	5.47E+02															
Beryllium	mg/kg	2.00E+00	8.60E-01	9.60E+00															
Calcium	mg/kg	3.65E+03	6.37E+02	NA															
Chromium	mg/kg	5.50E+01	3.83E+01	2.32E+01															
Cobalt	mg/kg	9.60E+01	1.75E+01	4.68E+02															
Copper	mg/kg	6.10E+01	1.94E+01	3.13E+02															
Iron	mg/kg	4.80E+04	4.48E+04	2.34E+03															
Lead	mg/kg	5.00E+02	3.85E+01	4.00E+02	6.04E+02		YES	YES	YES	6.50E+00					6.40E+00				
Magnesium	mg/kg	5.94E+03	7.66E+02	NA															
Manganese	mg/kg	1.90E+04	1.36E+03	3.63E+02															
Mercury	mg/kg	1.20E-01	7.00E-02	2.33E+00															
Nickel	mg/kg	3.80E+01	1.29E+01	1.54E+02															
Potassium	mg/kg	6.15E+03	7.11E+02	NA															
Selenium	mg/kg	5.50E-01	4.70E-01	3.91E+01															
Silver	mg/kg	6.60E-01	2.40E-01	3.91E+01															
Sodium	mg/kg	6.43E+02	7.02E+02	NA															
Thallium	mg/kg	2.40E+01	1.40E+00	5.08E-01															
Vanadium	mg/kg	9.90E+01	6.49E+01	5.31E+01															
Zinc	mg/kg	8.90E+01	3.49E+01	2.34E+03															

Table 3-3

Subsurface Soil Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location					SAR-78-SS25					SAR-78-SS26					SAR-78-SS26				
Parcel					SAR-78					SAR-78					SAR-78				
Sample Number					HQ0043					HQ0045					HQ0046				
Sample Date					27-Jul-00					27-Jul-00					27-Jul-00				
Sample Depth (Feet)					4 - 5					2 - 3					4 - 5				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS																			
Acenaphthylene	mg/kg	NA	NA	4.63E+02															
Anthracene	mg/kg	NA	NA	2.33E+03															
Benzo(a)anthracene	mg/kg	NA	NA	8.51E-01															
Benzo(a)pyrene	mg/kg	NA	NA	8.51E-02															
Benzo(b)fluoranthene	mg/kg	NA	NA	8.51E-01															
Benzo(ghi)perylene	mg/kg	NA	NA	2.32E+02															
Benzo(k)fluoranthene	mg/kg	NA	NA	8.51E+00															
Chrysene	mg/kg	NA	NA	8.61E+01															
Dibenz(a,h)anthracene	mg/kg	NA	NA	8.61E-02															
Fluoranthene	mg/kg	NA	NA	3.09E+02															
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	8.51E-01															
Phenanthrene	mg/kg	NA	NA	2.32E+03															
Pyrene	mg/kg	NA	NA	2.33E+02															
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	4.52E+01															
n-Nitrosodiphenylamine	mg/kg	NA	NA	1.29E+02															
VOLATILE ORGANIC COMPOUNDS																			
Acetone	mg/kg	NA	NA	7.76E+02															
Cumene	mg/kg	NA	NA	7.77E+02															
Methylene chloride	mg/kg	NA	NA	8.41E+01															
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03															

Table 3-3

Subsurface Soil Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location					SAR-78-SS34					SAR-78-SS35					SAR-85-SS34				
Parcel					SAR-78					SAR-78					SAR-85				
Sample Number					HQ0057					HQ0062					HS0051				
Sample Date					1-Aug-00					1-Aug-00					1-Aug-00				
Sample Depth (Feet)					2 - 3					2 - 3					2 - 3				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
HERBICIDES																			
MCPP	mg/kg	NA	NA	7.77E+00															
PESTICIDES																			
4,4'-DDT	mg/kg	NA	NA	1.79E+00															
METALS																			
Aluminum	mg/kg	2.46E+04	1.36E+04	7.80E+03															
Antimony	mg/kg	9.90E-01	1.31E+00	3.11E+00															
Arsenic	mg/kg	3.80E+01	1.83E+01	4.26E-01															
Barium	mg/kg	4.50E+03	2.34E+02	5.47E+02															
Beryllium	mg/kg	2.00E+00	8.60E-01	9.60E+00															
Calcium	mg/kg	3.65E+03	6.37E+02	NA															
Chromium	mg/kg	5.50E+01	3.83E+01	2.32E+01															
Cobalt	mg/kg	9.60E+01	1.75E+01	4.68E+02															
Copper	mg/kg	6.10E+01	1.94E+01	3.13E+02															
Iron	mg/kg	4.80E+04	4.48E+04	2.34E+03															
Lead	mg/kg	5.00E+02	3.85E+01	4.00E+02	3.96E+02			YES		4.31E+04		YES	YES	YES	2.65E+02			YES	
Magnesium	mg/kg	5.94E+03	7.66E+02	NA															
Manganese	mg/kg	1.90E+04	1.36E+03	3.63E+02															
Mercury	mg/kg	1.20E-01	7.00E-02	2.33E+00															
Nickel	mg/kg	3.80E+01	1.29E+01	1.54E+02															
Potassium	mg/kg	6.15E+03	7.11E+02	NA															
Selenium	mg/kg	5.50E-01	4.70E-01	3.91E+01															
Silver	mg/kg	6.60E-01	2.40E-01	3.91E+01															
Sodium	mg/kg	6.43E+02	7.02E+02	NA															
Thallium	mg/kg	2.40E+01	1.40E+00	5.08E-01															
Vanadium	mg/kg	9.90E+01	6.49E+01	5.31E+01															
Zinc	mg/kg	8.90E+01	3.49E+01	2.34E+03															

Table 3-3

Subsurface Soil Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location					SAR-78-SS34					SAR-78-SS35					SAR-85-SS34				
Parcel					SAR-78					SAR-78					SAR-85				
Sample Number					HQ0057					HQ0062					HS0051				
Sample Date					1-Aug-00					1-Aug-00					1-Aug-00				
Sample Depth (Feet)					2 - 3					2 - 3					2 - 3				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS																			
Acenaphthylene	mg/kg	NA	NA	4.63E+02															
Anthracene	mg/kg	NA	NA	2.33E+03															
Benzo(a)anthracene	mg/kg	NA	NA	8.51E-01															
Benzo(a)pyrene	mg/kg	NA	NA	8.51E-02															
Benzo(b)fluoranthene	mg/kg	NA	NA	8.51E-01															
Benzo(ghi)perylene	mg/kg	NA	NA	2.32E+02															
Benzo(k)fluoranthene	mg/kg	NA	NA	8.51E+00															
Chrysene	mg/kg	NA	NA	8.61E+01															
Dibenz(a,h)anthracene	mg/kg	NA	NA	8.61E-02															
Fluoranthene	mg/kg	NA	NA	3.09E+02															
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	8.51E-01															
Phenanthrene	mg/kg	NA	NA	2.32E+03															
Pyrene	mg/kg	NA	NA	2.33E+02															
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	4.52E+01															
n-Nitrosodiphenylamine	mg/kg	NA	NA	1.29E+02															
VOLATILE ORGANIC COMPOUNDS																			
Acetone	mg/kg	NA	NA	7.76E+02															
Cumene	mg/kg	NA	NA	7.77E+02															
Methylene chloride	mg/kg	NA	NA	8.41E+01															
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03															

Table 3-3

Subsurface Soil Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date Sample Depth (Feet)					SAR-85-SS34 SAR-85 HS0052 1-Aug-00 4 - 5					SAR-85-SS35 SAR-85 HS0056 1-Aug-00 2 - 3					SAR-85-SS37 SAR-85 HS0067 2-Aug-00 2 - 3				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
HERBICIDES																			
MCPP	mg/kg	NA	NA	7.77E+00															
PESTICIDES																			
4,4'-DDT	mg/kg	NA	NA	1.79E+00															
METALS																			
Aluminum	mg/kg	2.46E+04	1.36E+04	7.80E+03															
Antimony	mg/kg	9.90E-01	1.31E+00	3.11E+00															
Arsenic	mg/kg	3.80E+01	1.83E+01	4.26E-01															
Barium	mg/kg	4.50E+03	2.34E+02	5.47E+02															
Beryllium	mg/kg	2.00E+00	8.60E-01	9.60E+00															
Calcium	mg/kg	3.65E+03	6.37E+02	NA															
Chromium	mg/kg	5.50E+01	3.83E+01	2.32E+01															
Cobalt	mg/kg	9.60E+01	1.75E+01	4.68E+02															
Copper	mg/kg	6.10E+01	1.94E+01	3.13E+02															
Iron	mg/kg	4.80E+04	4.48E+04	2.34E+03															
Lead	mg/kg	5.00E+02	3.85E+01	4.00E+02	8.90E+00					3.10E+01					2.77E+03		YES	YES	YES
Magnesium	mg/kg	5.94E+03	7.66E+02	NA															
Manganese	mg/kg	1.90E+04	1.36E+03	3.63E+02															
Mercury	mg/kg	1.20E-01	7.00E-02	2.33E+00															
Nickel	mg/kg	3.80E+01	1.29E+01	1.54E+02															
Potassium	mg/kg	6.15E+03	7.11E+02	NA															
Selenium	mg/kg	5.50E-01	4.70E-01	3.91E+01															
Silver	mg/kg	6.60E-01	2.40E-01	3.91E+01															
Sodium	mg/kg	6.43E+02	7.02E+02	NA															
Thallium	mg/kg	2.40E+01	1.40E+00	5.08E-01															
Vanadium	mg/kg	9.90E+01	6.49E+01	5.31E+01															
Zinc	mg/kg	8.90E+01	3.49E+01	2.34E+03															

Table 3-3

Subsurface Soil Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location					SAR-85-SS34					SAR-85-SS35					SAR-85-SS37				
Parcel					SAR-85					SAR-85					SAR-85				
Sample Number					HS0052					HS0056					HS0067				
Sample Date					1-Aug-00					1-Aug-00					2-Aug-00				
Sample Depth (Feet)					4 - 5					2 - 3					2 - 3				
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
SEMIVOLATILE ORGANIC COMPOUNDS																			
Acenaphthylene	mg/kg	NA	NA	4.63E+02															
Anthracene	mg/kg	NA	NA	2.33E+03															
Benzo(a)anthracene	mg/kg	NA	NA	8.51E-01															
Benzo(a)pyrene	mg/kg	NA	NA	8.51E-02															
Benzo(b)fluoranthene	mg/kg	NA	NA	8.51E-01															
Benzo(ghi)perylene	mg/kg	NA	NA	2.32E+02															
Benzo(k)fluoranthene	mg/kg	NA	NA	8.51E+00															
Chrysene	mg/kg	NA	NA	8.61E+01															
Dibenz(a,h)anthracene	mg/kg	NA	NA	8.61E-02															
Fluoranthene	mg/kg	NA	NA	3.09E+02															
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	8.51E-01															
Phenanthrene	mg/kg	NA	NA	2.32E+03															
Pyrene	mg/kg	NA	NA	2.33E+02															
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	4.52E+01															
n-Nitrosodiphenylamine	mg/kg	NA	NA	1.29E+02															
VOLATILE ORGANIC COMPOUNDS																			
Acetone	mg/kg	NA	NA	7.76E+02															
Cumene	mg/kg	NA	NA	7.77E+02															
Methylene chloride	mg/kg	NA	NA	8.41E+01															
Trichlorofluoromethane	mg/kg	NA	NA	2.33E+03															

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

[a] UBR - Upper background range as given in Science Applications International Corporation (SAIC), 1998, *Final Background Metals Survey Report, Fort McClellan, Alabama*, July.

[b] BKG - Background. Concentration listed is two times (2x) the arithmetic mean of background metals concentration given in SAIC, 1998.

[c] Residential human health site-specific screening level (SSSL) as given in IT, 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 an estimated concentration.

mg/kg - Milligrams per kilogram.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						HR-78Q-SW/SD01						HR-80Q-SW/SD02					
Parcel						SAR-78						HR-80Q					
Sample Number						HQQ1001						QB1002					
Sample Date						26-Sep-01						27-Aug-01					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
HERBICIDES																	
2,4-DB	mg/kg	NA	NA	8.43E+03	NA	ND											
MCPP	mg/kg	NA	NA	1.04E+03	NA	ND											
PESTICIDES																	
4,4'-DDD	mg/kg	NA	NA	2.35E+02	3.30E-03	ND											
alpha-BHC	mg/kg	NA	NA	1.17E+01	6.00E-03	ND											
gamma-Chlordane	mg/kg	NA	NA	1.35E+02	1.70E-03	1.20E-03	J										
METALS																	
Aluminum	mg/kg	1.74E+04	8.59E+03	1.15E+06	NA	2.39E+03						3.67E+03	J				
Antimony	mg/kg	1.20E+00	7.30E-01	4.22E+02	1.20E+01	ND						ND					
Arsenic	mg/kg	2.00E+01	1.13E+01	5.58E+01	7.24E+00	1.67E+00						2.65E+00					
Barium	mg/kg	2.72E+02	9.89E+01	8.36E+04	NA	2.39E+01						6.70E+01	J				
Beryllium	mg/kg	1.20E+00	9.70E-01	1.50E+02	NA	2.53E-01	J					5.29E-01	B				
Calcium	mg/kg	2.81E+03	1.11E+03	NA	NA	1.41E+02						2.48E+02					
Chromium	mg/kg	6.30E+01	3.12E+01	2.79E+03	5.23E+01	2.11E+00	B					5.33E+00					
Cobalt	mg/kg	2.20E+01	1.10E+01	6.72E+04	5.00E+01	8.48E-01	B					3.69E+00					
Copper	mg/kg	5.90E+01	1.71E+01	4.74E+04	1.87E+01	2.19E+02		YES	YES		YES	2.51E+01			YES		YES
Iron	mg/kg	5.75E+04	3.53E+04	3.59E+05	NA	9.39E+03						1.94E+04					
Lead	mg/kg	1.10E+02	3.78E+01	4.00E+02	3.02E+01	1.58E+03		YES	YES	YES	YES	2.32E+01					
Magnesium	mg/kg	3.27E+03	9.06E+02	NA	NA	9.46E+01	J					1.48E+02					
Manganese	mg/kg	2.05E+03	7.12E+02	4.38E+04	NA	8.70E+01						1.75E+02	J				
Mercury	mg/kg	2.80E-01	1.10E-01	2.99E+02	1.30E-01	ND						ND					
Nickel	mg/kg	3.30E+01	1.30E+01	1.76E+04	1.59E+01	1.16E+00	J					2.11E+00	J				
Potassium	mg/kg	4.81E+03	1.01E+03	NA	NA	3.86E+02	B					7.71E+02					
Silver	mg/kg	1.10E+00	3.20E-01	6.07E+03	2.00E+00	ND						6.00E-01	J		YES		
Sodium	mg/kg	7.38E+02	6.92E+02	NA	NA	ND						ND					
Thallium	mg/kg	2.20E-01	1.30E-01	7.78E+01	NA	ND						ND					
Vanadium	mg/kg	6.70E+01	4.09E+01	4.83E+03	NA	4.67E+00						7.27E+00					
Zinc	mg/kg	1.11E+02	5.27E+01	3.44E+05	1.24E+02	3.02E+01						1.40E+01					
NITROAROMATICS																	
2,4-Dinitrotoluene	mg/kg	NA	NA	1.09E+02	7.51E-02	ND						ND					
SEMIVOLATILE ORGANIC COMPOUNDS																	
Di-n-butyl phthalate	mg/kg	NA	NA	1.14E+05	1.11E-01	ND											
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	5.41E+03	1.82E-01	ND											
TOTAL ORGANIC CARBON																	
Total Organic Carbon	mg/kg	NA	NA	NA	NA	9.73E+01						6.01E+01					

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						HR-78Q-SW/SD01						HR-80Q-SW/SD02					
Parcel						SAR-78						HR-80Q					
Sample Number						HQQ1001						QB1002					
Sample Date						26-Sep-01						27-Aug-01					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																	
2-Butanone	mg/kg	NA	NA	6.23E+05	1.37E-01	ND											
Acetone	mg/kg	NA	NA	1.03E+05	4.53E-01	1.90E-02	J										
Bromoform	mg/kg	NA	NA	9.21E+03	9.96E-01	ND											
Methylene chloride	mg/kg	NA	NA	9.84E+03	1.26E+00	ND											
Toluene	mg/kg	NA	NA	2.11E+05	6.70E-01	ND											
Trichlorofluoromethane	mg/kg	NA	NA	3.06E+05	3.07E-03	ND											
p-Cymene	mg/kg	NA	NA	2.08E+05	NA	ND											

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						HR-80Q-SW/SD02						HR-80Q-SW/SD03					
Parcel						HR-80Q						HR-80Q					
Sample Number						QB1011						QB1003					
Sample Date						4-Feb-02						28-Aug-01					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
HERBICIDES																	
2,4-DB	mg/kg	NA	NA	8.43E+03	NA	ND											
MCPP	mg/kg	NA	NA	1.04E+03	NA	9.20E-01	J										
PESTICIDES																	
4,4'-DDD	mg/kg	NA	NA	2.35E+02	3.30E-03	ND											
alpha-BHC	mg/kg	NA	NA	1.17E+01	6.00E-03	ND											
gamma-Chlordane	mg/kg	NA	NA	1.35E+02	1.70E-03	ND											
METALS																	
Aluminum	mg/kg	1.74E+04	8.59E+03	1.15E+06	NA	2.54E+03	J					5.58E+03	J				
Antimony	mg/kg	1.20E+00	7.30E-01	4.22E+02	1.20E+01	ND						ND					
Arsenic	mg/kg	2.00E+01	1.13E+01	5.58E+01	7.24E+00	1.38E+00	J					2.14E+00					
Barium	mg/kg	2.72E+02	9.89E+01	8.36E+04	NA	3.41E+01	J					1.98E+02	J		YES		
Beryllium	mg/kg	1.20E+00	9.70E-01	1.50E+02	NA	ND						9.15E-01	B				
Calcium	mg/kg	2.81E+03	1.11E+03	NA	NA	9.33E+01	J					1.90E+02					
Chromium	mg/kg	6.30E+01	3.12E+01	2.79E+03	5.23E+01	2.69E+00	J					1.27E+01					
Cobalt	mg/kg	2.20E+01	1.10E+01	6.72E+04	5.00E+01	1.67E+00	J					2.80E+01	J	YES	YES		
Copper	mg/kg	5.90E+01	1.71E+01	4.74E+04	1.87E+01	1.17E+01						1.55E+01					
Iron	mg/kg	5.75E+04	3.53E+04	3.59E+05	NA	8.01E+03						3.62E+04			YES		
Lead	mg/kg	1.10E+02	3.78E+01	4.00E+02	3.02E+01	1.83E+01						1.16E+01					
Magnesium	mg/kg	3.27E+03	9.06E+02	NA	NA	1.08E+02	J					1.81E+02					
Manganese	mg/kg	2.05E+03	7.12E+02	4.38E+04	NA	8.92E+01	J					1.51E+03	J		YES		
Mercury	mg/kg	2.80E-01	1.10E-01	2.99E+02	1.30E-01	ND						ND					
Nickel	mg/kg	3.30E+01	1.30E+01	1.76E+04	1.59E+01	1.42E+00	J					2.81E+00	J				
Potassium	mg/kg	4.81E+03	1.01E+03	NA	NA	8.82E+02	J					8.50E+02					
Silver	mg/kg	1.10E+00	3.20E-01	6.07E+03	2.00E+00	ND						1.11E+00	J	YES	YES		
Sodium	mg/kg	7.38E+02	6.92E+02	NA	NA	4.12E+01	J					ND					
Thallium	mg/kg	2.20E-01	1.30E-01	7.78E+01	NA	ND						1.14E+00	J	YES	YES		
Vanadium	mg/kg	6.70E+01	4.09E+01	4.83E+03	NA	5.27E+00						1.05E+01					
Zinc	mg/kg	1.11E+02	5.27E+01	3.44E+05	1.24E+02	9.30E+00	J					1.15E+01					
NITROAROMATICS																	
2,4-Dinitrotoluene	mg/kg	NA	NA	1.09E+02	7.51E-02	ND						1.40E-01	J				YES
SEMIVOLATILE ORGANIC COMPOUNDS																	
Di-n-butyl phthalate	mg/kg	NA	NA	1.14E+05	1.11E-01	ND											
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	5.41E+03	1.82E-01	ND											
TOTAL ORGANIC CARBON																	
Total Organic Carbon	mg/kg	NA	NA	NA	NA	4.07E+01						6.43E+01					

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						HR-80Q-SW/SD02						HR-80Q-SW/SD03					
Parcel						HR-80Q						HR-80Q					
Sample Number						QB1011						QB1003					
Sample Date						4-Feb-02						28-Aug-01					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																	
2-Butanone	mg/kg	NA	NA	6.23E+05	1.37E-01	ND											
Acetone	mg/kg	NA	NA	1.03E+05	4.53E-01	2.50E-02	J										
Bromoform	mg/kg	NA	NA	9.21E+03	9.96E-01	ND											
Methylene chloride	mg/kg	NA	NA	9.84E+03	1.26E+00	2.10E-03	B										
Toluene	mg/kg	NA	NA	2.11E+05	6.70E-01	ND											
Trichlorofluoromethane	mg/kg	NA	NA	3.06E+05	3.07E-03	ND											
p-Cymene	mg/kg	NA	NA	2.08E+05	NA	ND											

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						HR-80Q-SW/SD03						HR-80Q-SW/SD04					
Parcel						HR-80Q						HR-80Q					
Sample Number						QB1012						QB1005					
Sample Date						4-Feb-02						27-Aug-01					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
HERBICIDES																	
2,4-DB	mg/kg	NA	NA	8.43E+03	NA	ND											
MCPP	mg/kg	NA	NA	1.04E+03	NA	ND											
PESTICIDES																	
4,4'-DDD	mg/kg	NA	NA	2.35E+02	3.30E-03	ND											
alpha-BHC	mg/kg	NA	NA	1.17E+01	6.00E-03	ND											
gamma-Chlordane	mg/kg	NA	NA	1.35E+02	1.70E-03	ND											
METALS																	
Aluminum	mg/kg	1.74E+04	8.59E+03	1.15E+06	NA	1.88E+03	J					3.31E+03	J				
Antimony	mg/kg	1.20E+00	7.30E-01	4.22E+02	1.20E+01	ND						ND					
Arsenic	mg/kg	2.00E+01	1.13E+01	5.58E+01	7.24E+00	1.25E+00	J					1.63E+00					
Barium	mg/kg	2.72E+02	9.89E+01	8.36E+04	NA	7.65E+01	J					8.13E+01	J				
Beryllium	mg/kg	1.20E+00	9.70E-01	1.50E+02	NA	4.53E-01	J					2.89E-01	B				
Calcium	mg/kg	2.81E+03	1.11E+03	NA	NA	4.41E+01	J					1.55E+02					
Chromium	mg/kg	6.30E+01	3.12E+01	2.79E+03	5.23E+01	1.45E+00	J					5.52E+00					
Cobalt	mg/kg	2.20E+01	1.10E+01	6.72E+04	5.00E+01	1.49E+01			YES			3.33E+00					
Copper	mg/kg	5.90E+01	1.71E+01	4.74E+04	1.87E+01	9.24E+00						6.15E+01		YES	YES		YES
Iron	mg/kg	5.75E+04	3.53E+04	3.59E+05	NA	9.14E+03						8.54E+03					
Lead	mg/kg	1.10E+02	3.78E+01	4.00E+02	3.02E+01	2.30E+01						5.05E+02		YES	YES	YES	YES
Magnesium	mg/kg	3.27E+03	9.06E+02	NA	NA	6.79E+01	J					1.34E+02					
Manganese	mg/kg	2.05E+03	7.12E+02	4.38E+04	NA	4.35E+02	J					5.03E+02	J				
Mercury	mg/kg	2.80E-01	1.10E-01	2.99E+02	1.30E-01	ND						ND					
Nickel	mg/kg	3.30E+01	1.30E+01	1.76E+04	1.59E+01	2.33E+00	J					1.52E+00	J				
Potassium	mg/kg	4.81E+03	1.01E+03	NA	NA	5.73E+02	J					3.90E+02	J				
Silver	mg/kg	1.10E+00	3.20E-01	6.07E+03	2.00E+00	ND						ND					
Sodium	mg/kg	7.38E+02	6.92E+02	NA	NA	3.74E+01	J					ND					
Thallium	mg/kg	2.20E-01	1.30E-01	7.78E+01	NA	ND						ND					
Vanadium	mg/kg	6.70E+01	4.09E+01	4.83E+03	NA	5.08E+00						6.96E+00					
Zinc	mg/kg	1.11E+02	5.27E+01	3.44E+05	1.24E+02	8.14E+00	J					1.35E+01					
NITROAROMATICS																	
2,4-Dinitrotoluene	mg/kg	NA	NA	1.09E+02	7.51E-02	ND						ND					
SEMIVOLATILE ORGANIC COMPOUNDS																	
Di-n-butyl phthalate	mg/kg	NA	NA	1.14E+05	1.11E-01	ND											
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	5.41E+03	1.82E-01	ND											
TOTAL ORGANIC CARBON																	
Total Organic Carbon	mg/kg	NA	NA	NA	NA	3.21E+01						7.30E+01					

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						HR-80Q-SW/SD03						HR-80Q-SW/SD04					
Parcel						HR-80Q						HR-80Q					
Sample Number						QB1012						QB1005					
Sample Date						4-Feb-02						27-Aug-01					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																	
2-Butanone	mg/kg	NA	NA	6.23E+05	1.37E-01	6.50E-03	J										
Acetone	mg/kg	NA	NA	1.03E+05	4.53E-01	7.00E-02	J										
Bromoform	mg/kg	NA	NA	9.21E+03	9.96E-01	ND											
Methylene chloride	mg/kg	NA	NA	9.84E+03	1.26E+00	ND											
Toluene	mg/kg	NA	NA	2.11E+05	6.70E-01	ND											
Trichlorofluoromethane	mg/kg	NA	NA	3.06E+05	3.07E-03	ND											
p-Cymene	mg/kg	NA	NA	2.08E+05	NA	ND											

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						HR-80Q-SW/SD04						HR-80Q-SW/SD06					
Parcel						HR-80Q						HR-80Q					
Sample Number						QB1010						QB1007					
Sample Date						30-Jan-02						27-Sep-01					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
HERBICIDES																	
2,4-DB	mg/kg	NA	NA	8.43E+03	NA	ND											
MCPP	mg/kg	NA	NA	1.04E+03	NA	ND											
PESTICIDES																	
4,4'-DDD	mg/kg	NA	NA	2.35E+02	3.30E-03	ND											
alpha-BHC	mg/kg	NA	NA	1.17E+01	6.00E-03	ND											
gamma-Chlordane	mg/kg	NA	NA	1.35E+02	1.70E-03	ND											
METALS																	
Aluminum	mg/kg	1.74E+04	8.59E+03	1.15E+06	NA	2.23E+03						3.64E+03					
Antimony	mg/kg	1.20E+00	7.30E-01	4.22E+02	1.20E+01	5.26E+00	J	YES	YES			ND					
Arsenic	mg/kg	2.00E+01	1.13E+01	5.58E+01	7.24E+00	2.55E+00						1.48E+00					
Barium	mg/kg	2.72E+02	9.89E+01	8.36E+04	NA	4.38E+02		YES	YES			4.47E+01					
Beryllium	mg/kg	1.20E+00	9.70E-01	1.50E+02	NA	7.08E-01	J					3.02E-01	B				
Calcium	mg/kg	2.81E+03	1.11E+03	NA	NA	1.00E+02	J					4.48E+01	B				
Chromium	mg/kg	6.30E+01	3.12E+01	2.79E+03	5.23E+01	2.64E+00						2.96E+00					
Cobalt	mg/kg	2.20E+01	1.10E+01	6.72E+04	5.00E+01	1.63E+01			YES			2.81E+00	B				
Copper	mg/kg	5.90E+01	1.71E+01	4.74E+04	1.87E+01	4.36E+01			YES		YES	7.58E+00					
Iron	mg/kg	5.75E+04	3.53E+04	3.59E+05	NA	1.67E+04						1.25E+04					
Lead	mg/kg	1.10E+02	3.78E+01	4.00E+02	3.02E+01	1.65E+02		YES	YES		YES	1.79E+01					
Magnesium	mg/kg	3.27E+03	9.06E+02	NA	NA	8.60E+01	J					1.43E+02					
Manganese	mg/kg	2.05E+03	7.12E+02	4.38E+04	NA	1.58E+03			YES			1.87E+02					
Mercury	mg/kg	2.80E-01	1.10E-01	2.99E+02	1.30E-01	ND						ND					
Nickel	mg/kg	3.30E+01	1.30E+01	1.76E+04	1.59E+01	3.23E+00						1.54E+00	J				
Potassium	mg/kg	4.81E+03	1.01E+03	NA	NA	5.77E+02	J					8.00E+02					
Silver	mg/kg	1.10E+00	3.20E-01	6.07E+03	2.00E+00	ND						ND					
Sodium	mg/kg	7.38E+02	6.92E+02	NA	NA	4.87E+01	J					ND					
Thallium	mg/kg	2.20E-01	1.30E-01	7.78E+01	NA	ND						ND					
Vanadium	mg/kg	6.70E+01	4.09E+01	4.83E+03	NA	1.28E+01						5.35E+00					
Zinc	mg/kg	1.11E+02	5.27E+01	3.44E+05	1.24E+02	1.79E+01						5.69E+00					
NITROAROMATICS																	
2,4-Dinitrotoluene	mg/kg	NA	NA	1.09E+02	7.51E-02	ND						ND					
SEMIVOLATILE ORGANIC COMPOUNDS																	
Di-n-butyl phthalate	mg/kg	NA	NA	1.14E+05	1.11E-01	ND											
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	5.41E+03	1.82E-01	ND											
TOTAL ORGANIC CARBON																	
Total Organic Carbon	mg/kg	NA	NA	NA	NA	3.16E+01						5.90E+01					

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						HR-80Q-SW/SD04						HR-80Q-SW/SD06					
Parcel						HR-80Q						HR-80Q					
Sample Number						QB1010						QB1007					
Sample Date						30-Jan-02						27-Sep-01					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																	
2-Butanone	mg/kg	NA	NA	6.23E+05	1.37E-01	ND											
Acetone	mg/kg	NA	NA	1.03E+05	4.53E-01	4.50E-02	J										
Bromoform	mg/kg	NA	NA	9.21E+03	9.96E-01	ND											
Methylene chloride	mg/kg	NA	NA	9.84E+03	1.26E+00	4.30E-03	B										
Toluene	mg/kg	NA	NA	2.11E+05	6.70E-01	ND											
Trichlorofluoromethane	mg/kg	NA	NA	3.06E+05	3.07E-03	ND											
p-Cymene	mg/kg	NA	NA	2.08E+05	NA	ND											

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						HR-80Q-SW/SD06						HR-80Q-SW/SD07					
Parcel						HR-80Q						HR-80Q					
Sample Number						QB1014						QB1008					
Sample Date						5-Feb-02						27-Aug-01					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
HERBICIDES																	
2,4-DB	mg/kg	NA	NA	8.43E+03	NA	ND											
MCPP	mg/kg	NA	NA	1.04E+03	NA	ND											
PESTICIDES																	
4,4'-DDD	mg/kg	NA	NA	2.35E+02	3.30E-03	ND											
alpha-BHC	mg/kg	NA	NA	1.17E+01	6.00E-03	ND											
gamma-Chlordane	mg/kg	NA	NA	1.35E+02	1.70E-03	ND											
METALS																	
Aluminum	mg/kg	1.74E+04	8.59E+03	1.15E+06	NA	3.75E+03	J					4.35E+03	J				
Antimony	mg/kg	1.20E+00	7.30E-01	4.22E+02	1.20E+01	ND						ND					
Arsenic	mg/kg	2.00E+01	1.13E+01	5.58E+01	7.24E+00	3.29E+00						4.64E+00					
Barium	mg/kg	2.72E+02	9.89E+01	8.36E+04	NA	3.52E+01	J					1.03E+02	J		YES		
Beryllium	mg/kg	1.20E+00	9.70E-01	1.50E+02	NA	7.62E-01	J					1.05E+00	B		YES		
Calcium	mg/kg	2.81E+03	1.11E+03	NA	NA	7.97E+01	J					1.93E+02					
Chromium	mg/kg	6.30E+01	3.12E+01	2.79E+03	5.23E+01	1.64E+01						1.36E+01					
Cobalt	mg/kg	2.20E+01	1.10E+01	6.72E+04	5.00E+01	2.90E+00						1.82E+01			YES		
Copper	mg/kg	5.90E+01	1.71E+01	4.74E+04	1.87E+01	5.77E+00						8.98E+00					
Iron	mg/kg	5.75E+04	3.53E+04	3.59E+05	NA	2.34E+04						3.54E+04			YES		
Lead	mg/kg	1.10E+02	3.78E+01	4.00E+02	3.02E+01	8.75E+00						1.90E+01					
Magnesium	mg/kg	3.27E+03	9.06E+02	NA	NA	1.10E+02	J					1.76E+02					
Manganese	mg/kg	2.05E+03	7.12E+02	4.38E+04	NA	1.75E+02	J					6.25E+02	J				
Mercury	mg/kg	2.80E-01	1.10E-01	2.99E+02	1.30E-01	ND						ND					
Nickel	mg/kg	3.30E+01	1.30E+01	1.76E+04	1.59E+01	2.92E+00						4.06E+00					
Potassium	mg/kg	4.81E+03	1.01E+03	NA	NA	9.11E+02	J					1.03E+03			YES		
Silver	mg/kg	1.10E+00	3.20E-01	6.07E+03	2.00E+00	ND						1.16E+00	J	YES	YES		
Sodium	mg/kg	7.38E+02	6.92E+02	NA	NA	4.18E+01	J					ND					
Thallium	mg/kg	2.20E-01	1.30E-01	7.78E+01	NA	ND						ND					
Vanadium	mg/kg	6.70E+01	4.09E+01	4.83E+03	NA	1.60E+01						1.95E+01					
Zinc	mg/kg	1.11E+02	5.27E+01	3.44E+05	1.24E+02	1.02E+01	J					9.62E+00					
NITROAROMATICS																	
2,4-Dinitrotoluene	mg/kg	NA	NA	1.09E+02	7.51E-02	ND						ND					
SEMIVOLATILE ORGANIC COMPOUNDS																	
Di-n-butyl phthalate	mg/kg	NA	NA	1.14E+05	1.11E-01	ND											
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	5.41E+03	1.82E-01	ND											
TOTAL ORGANIC CARBON																	
Total Organic Carbon	mg/kg	NA	NA	NA	NA	2.35E+01						2.77E+01					

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						HR-80Q-SW/SD06						HR-80Q-SW/SD07					
Parcel						HR-80Q						HR-80Q					
Sample Number						QB1014						QB1008					
Sample Date						5-Feb-02						27-Aug-01					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																	
2-Butanone	mg/kg	NA	NA	6.23E+05	1.37E-01	ND											
Acetone	mg/kg	NA	NA	1.03E+05	4.53E-01	5.70E-02	J										
Bromoform	mg/kg	NA	NA	9.21E+03	9.96E-01	ND											
Methylene chloride	mg/kg	NA	NA	9.84E+03	1.26E+00	2.20E-03	B										
Toluene	mg/kg	NA	NA	2.11E+05	6.70E-01	ND											
Trichlorofluoromethane	mg/kg	NA	NA	3.06E+05	3.07E-03	ND											
p-Cymene	mg/kg	NA	NA	2.08E+05	NA	ND											

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						HR-80Q-SW/SD07						HR-85Q-SW/SD01					
Parcel						HR-80Q						SAR-85					
Sample Number						QB1009						HSS1001					
Sample Date						5-Feb-02						25-Sep-01					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
HERBICIDES																	
2,4-DB	mg/kg	NA	NA	8.43E+03	NA	ND						2.20E-02	J				
MCPP	mg/kg	NA	NA	1.04E+03	NA	ND						ND					
PESTICIDES																	
4,4'-DDD	mg/kg	NA	NA	2.35E+02	3.30E-03	ND						ND					
alpha-BHC	mg/kg	NA	NA	1.17E+01	6.00E-03	ND						3.20E-04	J				
gamma-Chlordane	mg/kg	NA	NA	1.35E+02	1.70E-03	ND						6.70E-04	J				
METALS																	
Aluminum	mg/kg	1.74E+04	8.59E+03	1.15E+06	NA	3.47E+03	J					2.17E+03					
Antimony	mg/kg	1.20E+00	7.30E-01	4.22E+02	1.20E+01	ND						7.29E+00	J	YES	YES		
Arsenic	mg/kg	2.00E+01	1.13E+01	5.58E+01	7.24E+00	2.26E+00						2.12E+00					
Barium	mg/kg	2.72E+02	9.89E+01	8.36E+04	NA	4.58E+01	J					1.39E+02			YES		
Beryllium	mg/kg	1.20E+00	9.70E-01	1.50E+02	NA	7.89E-01	J					2.69E-01	J				
Calcium	mg/kg	2.81E+03	1.11E+03	NA	NA	1.29E+02						1.63E+02					
Chromium	mg/kg	6.30E+01	3.12E+01	2.79E+03	5.23E+01	5.64E+00						5.68E+00					
Cobalt	mg/kg	2.20E+01	1.10E+01	6.72E+04	5.00E+01	6.56E+00						5.22E+00					
Copper	mg/kg	5.90E+01	1.71E+01	4.74E+04	1.87E+01	1.03E+01						8.89E+01		YES	YES		YES
Iron	mg/kg	5.75E+04	3.53E+04	3.59E+05	NA	1.75E+04						7.66E+03					
Lead	mg/kg	1.10E+02	3.78E+01	4.00E+02	3.02E+01	3.87E+01			YES		YES	4.41E+02		YES	YES	YES	YES
Magnesium	mg/kg	3.27E+03	9.06E+02	NA	NA	1.56E+02						1.14E+02	J				
Manganese	mg/kg	2.05E+03	7.12E+02	4.38E+04	NA	2.44E+02	J					6.90E+02					
Mercury	mg/kg	2.80E-01	1.10E-01	2.99E+02	1.30E-01	ND						ND					
Nickel	mg/kg	3.30E+01	1.30E+01	1.76E+04	1.59E+01	1.82E+00	J					ND					
Potassium	mg/kg	4.81E+03	1.01E+03	NA	NA	1.18E+03	J		YES			4.68E+02	B				
Silver	mg/kg	1.10E+00	3.20E-01	6.07E+03	2.00E+00	ND						ND					
Sodium	mg/kg	7.38E+02	6.92E+02	NA	NA	4.13E+01	J					ND					
Thallium	mg/kg	2.20E-01	1.30E-01	7.78E+01	NA	ND						ND					
Vanadium	mg/kg	6.70E+01	4.09E+01	4.83E+03	NA	9.57E+00						8.81E+00					
Zinc	mg/kg	1.11E+02	5.27E+01	3.44E+05	1.24E+02	1.03E+01	J					6.14E+00					
NITROAROMATICS																	
2,4-Dinitrotoluene	mg/kg	NA	NA	1.09E+02	7.51E-02	ND						ND					
SEMIVOLATILE ORGANIC COMPOUNDS																	
Di-n-butyl phthalate	mg/kg	NA	NA	1.14E+05	1.11E-01	ND						ND					
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	5.41E+03	1.82E-01	ND						ND					
TOTAL ORGANIC CARBON																	
Total Organic Carbon	mg/kg	NA	NA	NA	NA	5.94E+01						1.16E+02					

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						HR-80Q-SW/SD07						HR-85Q-SW/SD01					
Parcel						HR-80Q						SAR-85					
Sample Number						QB1009						HSS1001					
Sample Date						5-Feb-02						25-Sep-01					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																	
2-Butanone	mg/kg	NA	NA	6.23E+05	1.37E-01	ND						ND					
Acetone	mg/kg	NA	NA	1.03E+05	4.53E-01	5.80E-02	J					ND					
Bromoform	mg/kg	NA	NA	9.21E+03	9.96E-01	ND						3.10E-03	B				
Methylene chloride	mg/kg	NA	NA	9.84E+03	1.26E+00	2.10E-03	B					ND					
Toluene	mg/kg	NA	NA	2.11E+05	6.70E-01	ND						ND					
Trichlorofluoromethane	mg/kg	NA	NA	3.06E+05	3.07E-03	ND						ND					
p-Cymene	mg/kg	NA	NA	2.08E+05	NA	ND						ND					

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						HR-85Q-SW/SD02						SAR-77-SW/SD15					
Parcel						SAR-85						SAR-77					
Sample Number						HSS1002						HP1001					
Sample Date						30-Aug-01						9-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
HERBICIDES																	
2,4-DB	mg/kg	NA	NA	8.43E+03	NA	ND											
MCPP	mg/kg	NA	NA	1.04E+03	NA	ND											
PESTICIDES																	
4,4'-DDD	mg/kg	NA	NA	2.35E+02	3.30E-03	ND						ND					
alpha-BHC	mg/kg	NA	NA	1.17E+01	6.00E-03	ND						ND					
gamma-Chlordane	mg/kg	NA	NA	1.35E+02	1.70E-03	ND											
METALS																	
Aluminum	mg/kg	1.74E+04	8.59E+03	1.15E+06	NA	2.43E+03											
Antimony	mg/kg	1.20E+00	7.30E-01	4.22E+02	1.20E+01	ND											
Arsenic	mg/kg	2.00E+01	1.13E+01	5.58E+01	7.24E+00	3.16E+00											
Barium	mg/kg	2.72E+02	9.89E+01	8.36E+04	NA	2.65E+01											
Beryllium	mg/kg	1.20E+00	9.70E-01	1.50E+02	NA	5.97E-01	B										
Calcium	mg/kg	2.81E+03	1.11E+03	NA	NA	3.30E+02											
Chromium	mg/kg	6.30E+01	3.12E+01	2.79E+03	5.23E+01	5.65E+00											
Cobalt	mg/kg	2.20E+01	1.10E+01	6.72E+04	5.00E+01	3.01E+00	B										
Copper	mg/kg	5.90E+01	1.71E+01	4.74E+04	1.87E+01	1.47E+01											
Iron	mg/kg	5.75E+04	3.53E+04	3.59E+05	NA	2.16E+04											
Lead	mg/kg	1.10E+02	3.78E+01	4.00E+02	3.02E+01	1.77E+02		YES	YES		YES	2.41E+02		YES	YES		YES
Magnesium	mg/kg	3.27E+03	9.06E+02	NA	NA	1.16E+02	J										
Manganese	mg/kg	2.05E+03	7.12E+02	4.38E+04	NA	7.83E+01											
Mercury	mg/kg	2.80E-01	1.10E-01	2.99E+02	1.30E-01	ND											
Nickel	mg/kg	3.30E+01	1.30E+01	1.76E+04	1.59E+01	3.17E+00											
Potassium	mg/kg	4.81E+03	1.01E+03	NA	NA	4.83E+02	B										
Silver	mg/kg	1.10E+00	3.20E-01	6.07E+03	2.00E+00	1.60E+00	B	YES	YES								
Sodium	mg/kg	7.38E+02	6.92E+02	NA	NA	ND											
Thallium	mg/kg	2.20E-01	1.30E-01	7.78E+01	NA	ND											
Vanadium	mg/kg	6.70E+01	4.09E+01	4.83E+03	NA	7.59E+00											
Zinc	mg/kg	1.11E+02	5.27E+01	3.44E+05	1.24E+02	3.89E+01											
NITROAROMATICS																	
2,4-Dinitrotoluene	mg/kg	NA	NA	1.09E+02	7.51E-02	ND											
SEMIVOLATILE ORGANIC COMPOUNDS																	
Di-n-butyl phthalate	mg/kg	NA	NA	1.14E+05	1.11E-01	ND						ND					
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	5.41E+03	1.82E-01	ND						ND					
TOTAL ORGANIC CARBON																	
Total Organic Carbon	mg/kg	NA	NA	NA	NA	4.20E+01						2.69E+03					

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						HR-85Q-SW/SD02						SAR-77-SW/SD15					
Parcel						SAR-85						SAR-77					
Sample Number						HSS1002						HP1001					
Sample Date						30-Aug-01						9-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																	
2-Butanone	mg/kg	NA	NA	6.23E+05	1.37E-01	ND						ND					
Acetone	mg/kg	NA	NA	1.03E+05	4.53E-01	6.40E-03	B					8.60E-03	B				
Bromoform	mg/kg	NA	NA	9.21E+03	9.96E-01	ND						ND					
Methylene chloride	mg/kg	NA	NA	9.84E+03	1.26E+00	ND						3.30E-03	B				
Toluene	mg/kg	NA	NA	2.11E+05	6.70E-01	ND						ND					
Trichlorofluoromethane	mg/kg	NA	NA	3.06E+05	3.07E-03	ND						4.70E-03	J				YES
p-Cymene	mg/kg	NA	NA	2.08E+05	NA	ND						ND					

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-77-SW/SD16						SAR-77-SW/SD17					
Parcel						SAR-77						SAR-77					
Sample Number						HP1002						HP1003					
Sample Date						9-Aug-00						10-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
HERBICIDES																	
2,4-DB	mg/kg	NA	NA	8.43E+03	NA												
MCPP	mg/kg	NA	NA	1.04E+03	NA												
PESTICIDES																	
4,4'-DDD	mg/kg	NA	NA	2.35E+02	3.30E-03												
alpha-BHC	mg/kg	NA	NA	1.17E+01	6.00E-03												
gamma-Chlordane	mg/kg	NA	NA	1.35E+02	1.70E-03												
METALS																	
Aluminum	mg/kg	1.74E+04	8.59E+03	1.15E+06	NA												
Antimony	mg/kg	1.20E+00	7.30E-01	4.22E+02	1.20E+01												
Arsenic	mg/kg	2.00E+01	1.13E+01	5.58E+01	7.24E+00												
Barium	mg/kg	2.72E+02	9.89E+01	8.36E+04	NA												
Beryllium	mg/kg	1.20E+00	9.70E-01	1.50E+02	NA												
Calcium	mg/kg	2.81E+03	1.11E+03	NA	NA												
Chromium	mg/kg	6.30E+01	3.12E+01	2.79E+03	5.23E+01												
Cobalt	mg/kg	2.20E+01	1.10E+01	6.72E+04	5.00E+01												
Copper	mg/kg	5.90E+01	1.71E+01	4.74E+04	1.87E+01												
Iron	mg/kg	5.75E+04	3.53E+04	3.59E+05	NA												
Lead	mg/kg	1.10E+02	3.78E+01	4.00E+02	3.02E+01	3.06E+02		YES	YES		YES	1.99E+02		YES	YES		YES
Magnesium	mg/kg	3.27E+03	9.06E+02	NA	NA												
Manganese	mg/kg	2.05E+03	7.12E+02	4.38E+04	NA												
Mercury	mg/kg	2.80E-01	1.10E-01	2.99E+02	1.30E-01												
Nickel	mg/kg	3.30E+01	1.30E+01	1.76E+04	1.59E+01												
Potassium	mg/kg	4.81E+03	1.01E+03	NA	NA												
Silver	mg/kg	1.10E+00	3.20E-01	6.07E+03	2.00E+00												
Sodium	mg/kg	7.38E+02	6.92E+02	NA	NA												
Thallium	mg/kg	2.20E-01	1.30E-01	7.78E+01	NA												
Vanadium	mg/kg	6.70E+01	4.09E+01	4.83E+03	NA												
Zinc	mg/kg	1.11E+02	5.27E+01	3.44E+05	1.24E+02												
NITROAROMATICS																	
2,4-Dinitrotoluene	mg/kg	NA	NA	1.09E+02	7.51E-02												
SEMIVOLATILE ORGANIC COMPOUNDS																	
Di-n-butyl phthalate	mg/kg	NA	NA	1.14E+05	1.11E-01												
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	5.41E+03	1.82E-01												
TOTAL ORGANIC CARBON																	
Total Organic Carbon	mg/kg	NA	NA	NA	NA	4.05E+03						7.55E+02					

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-77-SW/SD16						SAR-77-SW/SD17					
Parcel						SAR-77						SAR-77					
Sample Number						HP1002						HP1003					
Sample Date						9-Aug-00						10-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																	
2-Butanone	mg/kg	NA	NA	6.23E+05	1.37E-01												
Acetone	mg/kg	NA	NA	1.03E+05	4.53E-01												
Bromoform	mg/kg	NA	NA	9.21E+03	9.96E-01												
Methylene chloride	mg/kg	NA	NA	9.84E+03	1.26E+00												
Toluene	mg/kg	NA	NA	2.11E+05	6.70E-01												
Trichlorofluoromethane	mg/kg	NA	NA	3.06E+05	3.07E-03												
p-Cymene	mg/kg	NA	NA	2.08E+05	NA												

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-77-SW/SD18						SAR-77-SW/SD19					
Parcel						SAR-77						SAR-77					
Sample Number						HP1004						HP1005					
Sample Date						10-Aug-00						10-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
HERBICIDES																	
2,4-DB	mg/kg	NA	NA	8.43E+03	NA												
MCPP	mg/kg	NA	NA	1.04E+03	NA												
PESTICIDES																	
4,4'-DDD	mg/kg	NA	NA	2.35E+02	3.30E-03	ND											
alpha-BHC	mg/kg	NA	NA	1.17E+01	6.00E-03	ND											
gamma-Chlordane	mg/kg	NA	NA	1.35E+02	1.70E-03												
METALS																	
Aluminum	mg/kg	1.74E+04	8.59E+03	1.15E+06	NA												
Antimony	mg/kg	1.20E+00	7.30E-01	4.22E+02	1.20E+01												
Arsenic	mg/kg	2.00E+01	1.13E+01	5.58E+01	7.24E+00												
Barium	mg/kg	2.72E+02	9.89E+01	8.36E+04	NA												
Beryllium	mg/kg	1.20E+00	9.70E-01	1.50E+02	NA												
Calcium	mg/kg	2.81E+03	1.11E+03	NA	NA												
Chromium	mg/kg	6.30E+01	3.12E+01	2.79E+03	5.23E+01												
Cobalt	mg/kg	2.20E+01	1.10E+01	6.72E+04	5.00E+01												
Copper	mg/kg	5.90E+01	1.71E+01	4.74E+04	1.87E+01												
Iron	mg/kg	5.75E+04	3.53E+04	3.59E+05	NA												
Lead	mg/kg	1.10E+02	3.78E+01	4.00E+02	3.02E+01	5.70E+00						1.92E+02		YES	YES		YES
Magnesium	mg/kg	3.27E+03	9.06E+02	NA	NA												
Manganese	mg/kg	2.05E+03	7.12E+02	4.38E+04	NA												
Mercury	mg/kg	2.80E-01	1.10E-01	2.99E+02	1.30E-01												
Nickel	mg/kg	3.30E+01	1.30E+01	1.76E+04	1.59E+01												
Potassium	mg/kg	4.81E+03	1.01E+03	NA	NA												
Silver	mg/kg	1.10E+00	3.20E-01	6.07E+03	2.00E+00												
Sodium	mg/kg	7.38E+02	6.92E+02	NA	NA												
Thallium	mg/kg	2.20E-01	1.30E-01	7.78E+01	NA												
Vanadium	mg/kg	6.70E+01	4.09E+01	4.83E+03	NA												
Zinc	mg/kg	1.11E+02	5.27E+01	3.44E+05	1.24E+02												
NITROAROMATICS																	
2,4-Dinitrotoluene	mg/kg	NA	NA	1.09E+02	7.51E-02												
SEMIVOLATILE ORGANIC COMPOUNDS																	
Di-n-butyl phthalate	mg/kg	NA	NA	1.14E+05	1.11E-01	ND											
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	5.41E+03	1.82E-01	ND											
TOTAL ORGANIC CARBON																	
Total Organic Carbon	mg/kg	NA	NA	NA	NA	1.71E+04						4.28E+03					

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-77-SW/SD18						SAR-77-SW/SD19					
Parcel						SAR-77						SAR-77					
Sample Number						HP1004						HP1005					
Sample Date						10-Aug-00						10-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																	
2-Butanone	mg/kg	NA	NA	6.23E+05	1.37E-01	ND											
Acetone	mg/kg	NA	NA	1.03E+05	4.53E-01	1.30E-02	B										
Bromoform	mg/kg	NA	NA	9.21E+03	9.96E-01	ND											
Methylene chloride	mg/kg	NA	NA	9.84E+03	1.26E+00	3.30E-03	B										
Toluene	mg/kg	NA	NA	2.11E+05	6.70E-01	ND											
Trichlorofluoromethane	mg/kg	NA	NA	3.06E+05	3.07E-03	3.00E-03	J										
p-Cymene	mg/kg	NA	NA	2.08E+05	NA	ND											

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-77-SW/SD20						SAR-77-SW/SD21					
Parcel						SAR-77						SAR-77					
Sample Number						HP1006						HP1007					
Sample Date						10-Aug-00						10-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
HERBICIDES																	
2,4-DB	mg/kg	NA	NA	8.43E+03	NA												
MCPP	mg/kg	NA	NA	1.04E+03	NA												
PESTICIDES																	
4,4'-DDD	mg/kg	NA	NA	2.35E+02	3.30E-03	ND						ND					
alpha-BHC	mg/kg	NA	NA	1.17E+01	6.00E-03	ND						ND					
gamma-Chlordane	mg/kg	NA	NA	1.35E+02	1.70E-03												
METALS																	
Aluminum	mg/kg	1.74E+04	8.59E+03	1.15E+06	NA												
Antimony	mg/kg	1.20E+00	7.30E-01	4.22E+02	1.20E+01												
Arsenic	mg/kg	2.00E+01	1.13E+01	5.58E+01	7.24E+00												
Barium	mg/kg	2.72E+02	9.89E+01	8.36E+04	NA												
Beryllium	mg/kg	1.20E+00	9.70E-01	1.50E+02	NA												
Calcium	mg/kg	2.81E+03	1.11E+03	NA	NA												
Chromium	mg/kg	6.30E+01	3.12E+01	2.79E+03	5.23E+01												
Cobalt	mg/kg	2.20E+01	1.10E+01	6.72E+04	5.00E+01												
Copper	mg/kg	5.90E+01	1.71E+01	4.74E+04	1.87E+01												
Iron	mg/kg	5.75E+04	3.53E+04	3.59E+05	NA												
Lead	mg/kg	1.10E+02	3.78E+01	4.00E+02	3.02E+01	8.80E+01			YES		YES	3.25E+01					YES
Magnesium	mg/kg	3.27E+03	9.06E+02	NA	NA												
Manganese	mg/kg	2.05E+03	7.12E+02	4.38E+04	NA												
Mercury	mg/kg	2.80E-01	1.10E-01	2.99E+02	1.30E-01												
Nickel	mg/kg	3.30E+01	1.30E+01	1.76E+04	1.59E+01												
Potassium	mg/kg	4.81E+03	1.01E+03	NA	NA												
Silver	mg/kg	1.10E+00	3.20E-01	6.07E+03	2.00E+00												
Sodium	mg/kg	7.38E+02	6.92E+02	NA	NA												
Thallium	mg/kg	2.20E-01	1.30E-01	7.78E+01	NA												
Vanadium	mg/kg	6.70E+01	4.09E+01	4.83E+03	NA												
Zinc	mg/kg	1.11E+02	5.27E+01	3.44E+05	1.24E+02												
NITROAROMATICS																	
2,4-Dinitrotoluene	mg/kg	NA	NA	1.09E+02	7.51E-02												
SEMIVOLATILE ORGANIC COMPOUNDS																	
Di-n-butyl phthalate	mg/kg	NA	NA	1.14E+05	1.11E-01	ND						ND					
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	5.41E+03	1.82E-01	5.00E-02	J					ND					
TOTAL ORGANIC CARBON																	
Total Organic Carbon	mg/kg	NA	NA	NA	NA	1.59E+03						1.60E+04					

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date Sample Depth (Feet)						SAR-77-SW/SD20 SAR-77 HP1006 10-Aug-00 0- .5						SAR-77-SW/SD21 SAR-77 HP1007 10-Aug-00 0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																	
2-Butanone	mg/kg	NA	NA	6.23E+05	1.37E-01	ND						ND					
Acetone	mg/kg	NA	NA	1.03E+05	4.53E-01	1.10E-02	B					5.40E-02	B				
Bromoform	mg/kg	NA	NA	9.21E+03	9.96E-01	ND						ND					
Methylene chloride	mg/kg	NA	NA	9.84E+03	1.26E+00	2.70E-03	B					3.90E-03	B				
Toluene	mg/kg	NA	NA	2.11E+05	6.70E-01	ND						ND					
Trichlorofluoromethane	mg/kg	NA	NA	3.06E+05	3.07E-03	ND						3.90E-03	J				YES
p-Cymene	mg/kg	NA	NA	2.08E+05	NA	ND						3.70E-02					

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-77-SW/SD22						SAR-77-SW/SD23					
Parcel						SAR-77						SAR-77					
Sample Number						HP1008						HP1009					
Sample Date						10-Aug-00						10-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
HERBICIDES																	
2,4-DB	mg/kg	NA	NA	8.43E+03	NA												
MCPP	mg/kg	NA	NA	1.04E+03	NA												
PESTICIDES																	
4,4'-DDD	mg/kg	NA	NA	2.35E+02	3.30E-03	ND											
alpha-BHC	mg/kg	NA	NA	1.17E+01	6.00E-03	ND											
gamma-Chlordane	mg/kg	NA	NA	1.35E+02	1.70E-03												
METALS																	
Aluminum	mg/kg	1.74E+04	8.59E+03	1.15E+06	NA												
Antimony	mg/kg	1.20E+00	7.30E-01	4.22E+02	1.20E+01												
Arsenic	mg/kg	2.00E+01	1.13E+01	5.58E+01	7.24E+00												
Barium	mg/kg	2.72E+02	9.89E+01	8.36E+04	NA												
Beryllium	mg/kg	1.20E+00	9.70E-01	1.50E+02	NA												
Calcium	mg/kg	2.81E+03	1.11E+03	NA	NA												
Chromium	mg/kg	6.30E+01	3.12E+01	2.79E+03	5.23E+01												
Cobalt	mg/kg	2.20E+01	1.10E+01	6.72E+04	5.00E+01												
Copper	mg/kg	5.90E+01	1.71E+01	4.74E+04	1.87E+01												
Iron	mg/kg	5.75E+04	3.53E+04	3.59E+05	NA												
Lead	mg/kg	1.10E+02	3.78E+01	4.00E+02	3.02E+01	6.14E+02		YES	YES	YES	YES	1.79E+02		YES	YES		YES
Magnesium	mg/kg	3.27E+03	9.06E+02	NA	NA												
Manganese	mg/kg	2.05E+03	7.12E+02	4.38E+04	NA												
Mercury	mg/kg	2.80E-01	1.10E-01	2.99E+02	1.30E-01												
Nickel	mg/kg	3.30E+01	1.30E+01	1.76E+04	1.59E+01												
Potassium	mg/kg	4.81E+03	1.01E+03	NA	NA												
Silver	mg/kg	1.10E+00	3.20E-01	6.07E+03	2.00E+00												
Sodium	mg/kg	7.38E+02	6.92E+02	NA	NA												
Thallium	mg/kg	2.20E-01	1.30E-01	7.78E+01	NA												
Vanadium	mg/kg	6.70E+01	4.09E+01	4.83E+03	NA												
Zinc	mg/kg	1.11E+02	5.27E+01	3.44E+05	1.24E+02												
NITROAROMATICS																	
2,4-Dinitrotoluene	mg/kg	NA	NA	1.09E+02	7.51E-02												
SEMIVOLATILE ORGANIC COMPOUNDS																	
Di-n-butyl phthalate	mg/kg	NA	NA	1.14E+05	1.11E-01	ND											
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	5.41E+03	1.82E-01	ND											
TOTAL ORGANIC CARBON																	
Total Organic Carbon	mg/kg	NA	NA	NA	NA	8.52E+03						2.83E+03					

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-77-SW/SD22						SAR-77-SW/SD23					
Parcel						SAR-77						SAR-77					
Sample Number						HP1008						HP1009					
Sample Date						10-Aug-00						10-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																	
2-Butanone	mg/kg	NA	NA	6.23E+05	1.37E-01	8.20E-02											
Acetone	mg/kg	NA	NA	1.03E+05	4.53E-01	2.30E-01											
Bromoform	mg/kg	NA	NA	9.21E+03	9.96E-01	ND											
Methylene chloride	mg/kg	NA	NA	9.84E+03	1.26E+00	5.00E-03	B										
Toluene	mg/kg	NA	NA	2.11E+05	6.70E-01	1.30E-02											
Trichlorofluoromethane	mg/kg	NA	NA	3.06E+05	3.07E-03	1.70E-03	J										
p-Cymene	mg/kg	NA	NA	2.08E+05	NA	1.70E-03	J										

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-77-SW/SD24						SAR-77-SW/SD25					
Parcel						SAR-77						SAR-77					
Sample Number						HP1010						HP1011					
Sample Date						10-Aug-00						10-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
HERBICIDES																	
2,4-DB	mg/kg	NA	NA	8.43E+03	NA												
MCPP	mg/kg	NA	NA	1.04E+03	NA												
PESTICIDES																	
4,4'-DDD	mg/kg	NA	NA	2.35E+02	3.30E-03												
alpha-BHC	mg/kg	NA	NA	1.17E+01	6.00E-03												
gamma-Chlordane	mg/kg	NA	NA	1.35E+02	1.70E-03												
METALS																	
Aluminum	mg/kg	1.74E+04	8.59E+03	1.15E+06	NA												
Antimony	mg/kg	1.20E+00	7.30E-01	4.22E+02	1.20E+01												
Arsenic	mg/kg	2.00E+01	1.13E+01	5.58E+01	7.24E+00												
Barium	mg/kg	2.72E+02	9.89E+01	8.36E+04	NA												
Beryllium	mg/kg	1.20E+00	9.70E-01	1.50E+02	NA												
Calcium	mg/kg	2.81E+03	1.11E+03	NA	NA												
Chromium	mg/kg	6.30E+01	3.12E+01	2.79E+03	5.23E+01												
Cobalt	mg/kg	2.20E+01	1.10E+01	6.72E+04	5.00E+01												
Copper	mg/kg	5.90E+01	1.71E+01	4.74E+04	1.87E+01												
Iron	mg/kg	5.75E+04	3.53E+04	3.59E+05	NA												
Lead	mg/kg	1.10E+02	3.78E+01	4.00E+02	3.02E+01	1.45E+03		YES	YES	YES	YES	3.40E+02		YES	YES		YES
Magnesium	mg/kg	3.27E+03	9.06E+02	NA	NA												
Manganese	mg/kg	2.05E+03	7.12E+02	4.38E+04	NA												
Mercury	mg/kg	2.80E-01	1.10E-01	2.99E+02	1.30E-01												
Nickel	mg/kg	3.30E+01	1.30E+01	1.76E+04	1.59E+01												
Potassium	mg/kg	4.81E+03	1.01E+03	NA	NA												
Silver	mg/kg	1.10E+00	3.20E-01	6.07E+03	2.00E+00												
Sodium	mg/kg	7.38E+02	6.92E+02	NA	NA												
Thallium	mg/kg	2.20E-01	1.30E-01	7.78E+01	NA												
Vanadium	mg/kg	6.70E+01	4.09E+01	4.83E+03	NA												
Zinc	mg/kg	1.11E+02	5.27E+01	3.44E+05	1.24E+02												
NITROAROMATICS																	
2,4-Dinitrotoluene	mg/kg	NA	NA	1.09E+02	7.51E-02												
SEMIVOLATILE ORGANIC COMPOUNDS																	
Di-n-butyl phthalate	mg/kg	NA	NA	1.14E+05	1.11E-01												
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	5.41E+03	1.82E-01												
TOTAL ORGANIC CARBON																	
Total Organic Carbon	mg/kg	NA	NA	NA	NA	3.58E+03						2.77E+04					

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-77-SW/SD24						SAR-77-SW/SD25					
Parcel						SAR-77						SAR-77					
Sample Number						HP1010						HP1011					
Sample Date						10-Aug-00						10-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																	
2-Butanone	mg/kg	NA	NA	6.23E+05	1.37E-01												
Acetone	mg/kg	NA	NA	1.03E+05	4.53E-01												
Bromoform	mg/kg	NA	NA	9.21E+03	9.96E-01												
Methylene chloride	mg/kg	NA	NA	9.84E+03	1.26E+00												
Toluene	mg/kg	NA	NA	2.11E+05	6.70E-01												
Trichlorofluoromethane	mg/kg	NA	NA	3.06E+05	3.07E-03												
p-Cymene	mg/kg	NA	NA	2.08E+05	NA												

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-78-SW/SD10						SAR-78-SW/SD11					
Parcel						SAR-78						SAR-78					
Sample Number						HQ1001						HQ1002					
Sample Date						9-Aug-00						9-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
HERBICIDES																	
2,4-DB	mg/kg	NA	NA	8.43E+03	NA												
MCPP	mg/kg	NA	NA	1.04E+03	NA												
PESTICIDES																	
4,4'-DDD	mg/kg	NA	NA	2.35E+02	3.30E-03	1.40E-03	J					ND					
alpha-BHC	mg/kg	NA	NA	1.17E+01	6.00E-03	ND						ND					
gamma-Chlordane	mg/kg	NA	NA	1.35E+02	1.70E-03												
METALS																	
Aluminum	mg/kg	1.74E+04	8.59E+03	1.15E+06	NA	4.25E+03						4.73E+03					
Antimony	mg/kg	1.20E+00	7.30E-01	4.22E+02	1.20E+01	1.91E+01		YES	YES		YES	ND					
Arsenic	mg/kg	2.00E+01	1.13E+01	5.58E+01	7.24E+00	4.70E+00						3.20E+00					
Barium	mg/kg	2.72E+02	9.89E+01	8.36E+04	NA	1.62E+01	J					3.01E+01					
Beryllium	mg/kg	1.20E+00	9.70E-01	1.50E+02	NA	4.20E-01	J					4.50E-01	J				
Calcium	mg/kg	2.81E+03	1.11E+03	NA	NA	9.50E+01	J					1.39E+02	J				
Chromium	mg/kg	6.30E+01	3.12E+01	2.79E+03	5.23E+01	1.35E+01						8.90E+00					
Cobalt	mg/kg	2.20E+01	1.10E+01	6.72E+04	5.00E+01	2.30E+00	J					2.10E+00	J				
Copper	mg/kg	5.90E+01	1.71E+01	4.74E+04	1.87E+01	7.38E+02		YES	YES		YES	9.60E+00					
Iron	mg/kg	5.75E+04	3.53E+04	3.59E+05	NA	2.21E+04						1.56E+04					
Lead	mg/kg	1.10E+02	3.78E+01	4.00E+02	3.02E+01	1.55E+03		YES	YES	YES	YES	7.90E+00					
Magnesium	mg/kg	3.27E+03	9.06E+02	NA	NA	9.07E+01	J					1.40E+02	J				
Manganese	mg/kg	2.05E+03	7.12E+02	4.38E+04	NA	2.21E+02	J					5.70E+01	J				
Mercury	mg/kg	2.80E-01	1.10E-01	2.99E+02	1.30E-01	1.20E-02	B					2.10E-02	B				
Nickel	mg/kg	3.30E+01	1.30E+01	1.76E+04	1.59E+01	2.40E+00	J					2.70E+00	J				
Potassium	mg/kg	4.81E+03	1.01E+03	NA	NA	4.21E+02	J					5.53E+02					
Silver	mg/kg	1.10E+00	3.20E-01	6.07E+03	2.00E+00	ND						ND					
Sodium	mg/kg	7.38E+02	6.92E+02	NA	NA	ND						ND					
Thallium	mg/kg	2.20E-01	1.30E-01	7.78E+01	NA	ND						ND					
Vanadium	mg/kg	6.70E+01	4.09E+01	4.83E+03	NA	2.09E+01						1.39E+01					
Zinc	mg/kg	1.11E+02	5.27E+01	3.44E+05	1.24E+02	6.76E+01	J		YES			8.80E+00	J				
NITROAROMATICS																	
2,4-Dinitrotoluene	mg/kg	NA	NA	1.09E+02	7.51E-02												
SEMIVOLATILE ORGANIC COMPOUNDS																	
Di-n-butyl phthalate	mg/kg	NA	NA	1.14E+05	1.11E-01	8.80E-02	J					ND					
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	5.41E+03	1.82E-01	4.60E-02	J					ND					
TOTAL ORGANIC CARBON																	
Total Organic Carbon	mg/kg	NA	NA	NA	NA	6.93E+03	J					1.15E+04	J				

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-78-SW/SD10						SAR-78-SW/SD11					
Parcel						SAR-78						SAR-78					
Sample Number						HQ1001						HQ1002					
Sample Date						9-Aug-00						9-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																	
2-Butanone	mg/kg	NA	NA	6.23E+05	1.37E-01	ND						ND					
Acetone	mg/kg	NA	NA	1.03E+05	4.53E-01	ND						4.90E-02	B				
Bromoform	mg/kg	NA	NA	9.21E+03	9.96E-01	ND						ND					
Methylene chloride	mg/kg	NA	NA	9.84E+03	1.26E+00	2.80E-03	B					3.00E-03	B				
Toluene	mg/kg	NA	NA	2.11E+05	6.70E-01	ND						ND					
Trichlorofluoromethane	mg/kg	NA	NA	3.06E+05	3.07E-03	3.20E-03	J				YES	4.30E-03	J				YES
p-Cymene	mg/kg	NA	NA	2.08E+05	NA	ND						ND					

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-78-SW/SD12						SAR-78-SW/SD13					
Parcel						SAR-78						SAR-78					
Sample Number						HQ1003						HQ1004					
Sample Date						9-Aug-00						9-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
HERBICIDES																	
2,4-DB	mg/kg	NA	NA	8.43E+03	NA												
MCPP	mg/kg	NA	NA	1.04E+03	NA												
PESTICIDES																	
4,4'-DDD	mg/kg	NA	NA	2.35E+02	3.30E-03												
alpha-BHC	mg/kg	NA	NA	1.17E+01	6.00E-03												
gamma-Chlordane	mg/kg	NA	NA	1.35E+02	1.70E-03												
METALS																	
Aluminum	mg/kg	1.74E+04	8.59E+03	1.15E+06	NA												
Antimony	mg/kg	1.20E+00	7.30E-01	4.22E+02	1.20E+01												
Arsenic	mg/kg	2.00E+01	1.13E+01	5.58E+01	7.24E+00												
Barium	mg/kg	2.72E+02	9.89E+01	8.36E+04	NA												
Beryllium	mg/kg	1.20E+00	9.70E-01	1.50E+02	NA												
Calcium	mg/kg	2.81E+03	1.11E+03	NA	NA												
Chromium	mg/kg	6.30E+01	3.12E+01	2.79E+03	5.23E+01												
Cobalt	mg/kg	2.20E+01	1.10E+01	6.72E+04	5.00E+01												
Copper	mg/kg	5.90E+01	1.71E+01	4.74E+04	1.87E+01												
Iron	mg/kg	5.75E+04	3.53E+04	3.59E+05	NA												
Lead	mg/kg	1.10E+02	3.78E+01	4.00E+02	3.02E+01	3.28E+03		YES	YES	YES	YES	1.07E+03		YES	YES	YES	YES
Magnesium	mg/kg	3.27E+03	9.06E+02	NA	NA												
Manganese	mg/kg	2.05E+03	7.12E+02	4.38E+04	NA												
Mercury	mg/kg	2.80E-01	1.10E-01	2.99E+02	1.30E-01												
Nickel	mg/kg	3.30E+01	1.30E+01	1.76E+04	1.59E+01												
Potassium	mg/kg	4.81E+03	1.01E+03	NA	NA												
Silver	mg/kg	1.10E+00	3.20E-01	6.07E+03	2.00E+00												
Sodium	mg/kg	7.38E+02	6.92E+02	NA	NA												
Thallium	mg/kg	2.20E-01	1.30E-01	7.78E+01	NA												
Vanadium	mg/kg	6.70E+01	4.09E+01	4.83E+03	NA												
Zinc	mg/kg	1.11E+02	5.27E+01	3.44E+05	1.24E+02												
NITROAROMATICS																	
2,4-Dinitrotoluene	mg/kg	NA	NA	1.09E+02	7.51E-02												
SEMIVOLATILE ORGANIC COMPOUNDS																	
Di-n-butyl phthalate	mg/kg	NA	NA	1.14E+05	1.11E-01												
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	5.41E+03	1.82E-01												
TOTAL ORGANIC CARBON																	
Total Organic Carbon	mg/kg	NA	NA	NA	NA	1.19E+03	J					2.52E+03	J				

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-78-SW/SD12						SAR-78-SW/SD13					
Parcel						SAR-78						SAR-78					
Sample Number						HQ1003						HQ1004					
Sample Date						9-Aug-00						9-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																	
2-Butanone	mg/kg	NA	NA	6.23E+05	1.37E-01												
Acetone	mg/kg	NA	NA	1.03E+05	4.53E-01												
Bromoform	mg/kg	NA	NA	9.21E+03	9.96E-01												
Methylene chloride	mg/kg	NA	NA	9.84E+03	1.26E+00												
Toluene	mg/kg	NA	NA	2.11E+05	6.70E-01												
Trichlorofluoromethane	mg/kg	NA	NA	3.06E+05	3.07E-03												
p-Cymene	mg/kg	NA	NA	2.08E+05	NA												

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-78-SW/SD14						SAR-85-SW/SD01					
Parcel						SAR-78						SAR-85					
Sample Number						HQ1005						HS1001					
Sample Date						9-Aug-00						7-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
HERBICIDES																	
2,4-DB	mg/kg	NA	NA	8.43E+03	NA												
MCPP	mg/kg	NA	NA	1.04E+03	NA												
PESTICIDES																	
4,4'-DDD	mg/kg	NA	NA	2.35E+02	3.30E-03	ND						3.10E-03	J				
alpha-BHC	mg/kg	NA	NA	1.17E+01	6.00E-03	ND						ND					
gamma-Chlordane	mg/kg	NA	NA	1.35E+02	1.70E-03												
METALS																	
Aluminum	mg/kg	1.74E+04	8.59E+03	1.15E+06	NA	2.26E+03						1.69E+03					
Antimony	mg/kg	1.20E+00	7.30E-01	4.22E+02	1.20E+01	1.00E+00	J		YES			2.60E+00	J	YES	YES		
Arsenic	mg/kg	2.00E+01	1.13E+01	5.58E+01	7.24E+00	3.30E+00						3.00E+00					
Barium	mg/kg	2.72E+02	9.89E+01	8.36E+04	NA	8.90E+01						2.07E+01	J				
Beryllium	mg/kg	1.20E+00	9.70E-01	1.50E+02	NA	4.10E-01	J					4.10E-01	B				
Calcium	mg/kg	2.81E+03	1.11E+03	NA	NA	9.63E+01	J					1.77E+02	J				
Chromium	mg/kg	6.30E+01	3.12E+01	2.79E+03	5.23E+01	1.06E+01						6.30E+00					
Cobalt	mg/kg	2.20E+01	1.10E+01	6.72E+04	5.00E+01	4.10E+00	J					2.10E+00	J				
Copper	mg/kg	5.90E+01	1.71E+01	4.74E+04	1.87E+01	5.59E+01			YES		YES	5.98E+01		YES	YES		YES
Iron	mg/kg	5.75E+04	3.53E+04	3.59E+05	NA	1.81E+04						1.23E+04					
Lead	mg/kg	1.10E+02	3.78E+01	4.00E+02	3.02E+01	2.11E+02		YES	YES		YES	3.57E+02		YES	YES		YES
Magnesium	mg/kg	3.27E+03	9.06E+02	NA	NA	9.99E+01	J					9.51E+01	J				
Manganese	mg/kg	2.05E+03	7.12E+02	4.38E+04	NA	6.27E+02	J					1.06E+02	J				
Mercury	mg/kg	2.80E-01	1.10E-01	2.99E+02	1.30E-01	ND						ND					
Nickel	mg/kg	3.30E+01	1.30E+01	1.76E+04	1.59E+01	2.50E+00	J					2.70E+00	J				
Potassium	mg/kg	4.81E+03	1.01E+03	NA	NA	7.22E+02						3.48E+02	J				
Silver	mg/kg	1.10E+00	3.20E-01	6.07E+03	2.00E+00	ND						ND					
Sodium	mg/kg	7.38E+02	6.92E+02	NA	NA	ND						ND					
Thallium	mg/kg	2.20E-01	1.30E-01	7.78E+01	NA	6.30E-01	J	YES	YES			ND					
Vanadium	mg/kg	6.70E+01	4.09E+01	4.83E+03	NA	1.21E+01						8.00E+00					
Zinc	mg/kg	1.11E+02	5.27E+01	3.44E+05	1.24E+02	1.21E+01	J					2.72E+01	J				
NITROAROMATICS																	
2,4-Dinitrotoluene	mg/kg	NA	NA	1.09E+02	7.51E-02												
SEMIVOLATILE ORGANIC COMPOUNDS																	
Di-n-butyl phthalate	mg/kg	NA	NA	1.14E+05	1.11E-01	ND						ND					
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	5.41E+03	1.82E-01	ND						ND					
TOTAL ORGANIC CARBON																	
Total Organic Carbon	mg/kg	NA	NA	NA	NA	2.84E+03	J					9.92E+03	J				

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-78-SW/SD14						SAR-85-SW/SD01					
Parcel						SAR-78						SAR-85					
Sample Number						HQ1005						HS1001					
Sample Date						9-Aug-00						7-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																	
2-Butanone	mg/kg	NA	NA	6.23E+05	1.37E-01	ND						ND					
Acetone	mg/kg	NA	NA	1.03E+05	4.53E-01	ND						ND					
Bromoform	mg/kg	NA	NA	9.21E+03	9.96E-01	ND						ND					
Methylene chloride	mg/kg	NA	NA	9.84E+03	1.26E+00	5.00E-03	B					2.00E-03	B				
Toluene	mg/kg	NA	NA	2.11E+05	6.70E-01	ND						2.70E-03	J				
Trichlorofluoromethane	mg/kg	NA	NA	3.06E+05	3.07E-03	2.00E-03	J					ND					
p-Cymene	mg/kg	NA	NA	2.08E+05	NA	ND						4.50E-03	J				

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-85-SW/SD02						SAR-85-SW/SD03					
Parcel						SAR-85						SAR-85					
Sample Number						HS1002						HS1003					
Sample Date						7-Aug-00						7-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
HERBICIDES																	
2,4-DB	mg/kg	NA	NA	8.43E+03	NA												
MCPP	mg/kg	NA	NA	1.04E+03	NA												
PESTICIDES																	
4,4'-DDD	mg/kg	NA	NA	2.35E+02	3.30E-03	ND											
alpha-BHC	mg/kg	NA	NA	1.17E+01	6.00E-03	ND											
gamma-Chlordane	mg/kg	NA	NA	1.35E+02	1.70E-03												
METALS																	
Aluminum	mg/kg	1.74E+04	8.59E+03	1.15E+06	NA	2.45E+03											
Antimony	mg/kg	1.20E+00	7.30E-01	4.22E+02	1.20E+01	4.00E+00	J	YES	YES								
Arsenic	mg/kg	2.00E+01	1.13E+01	5.58E+01	7.24E+00	3.10E+00											
Barium	mg/kg	2.72E+02	9.89E+01	8.36E+04	NA	1.37E+01	J										
Beryllium	mg/kg	1.20E+00	9.70E-01	1.50E+02	NA	6.00E-01	J										
Calcium	mg/kg	2.81E+03	1.11E+03	NA	NA	6.11E+01	J										
Chromium	mg/kg	6.30E+01	3.12E+01	2.79E+03	5.23E+01	6.40E+00											
Cobalt	mg/kg	2.20E+01	1.10E+01	6.72E+04	5.00E+01	3.10E+00	J										
Copper	mg/kg	5.90E+01	1.71E+01	4.74E+04	1.87E+01	1.61E+02		YES	YES		YES						
Iron	mg/kg	5.75E+04	3.53E+04	3.59E+05	NA	2.64E+04											
Lead	mg/kg	1.10E+02	3.78E+01	4.00E+02	3.02E+01	3.39E+02		YES	YES		YES	1.17E+03		YES	YES	YES	YES
Magnesium	mg/kg	3.27E+03	9.06E+02	NA	NA	1.17E+02	J										
Manganese	mg/kg	2.05E+03	7.12E+02	4.38E+04	NA	1.33E+02	J										
Mercury	mg/kg	2.80E-01	1.10E-01	2.99E+02	1.30E-01	1.70E-02	J										
Nickel	mg/kg	3.30E+01	1.30E+01	1.76E+04	1.59E+01	3.60E+00	J										
Potassium	mg/kg	4.81E+03	1.01E+03	NA	NA	6.45E+02											
Silver	mg/kg	1.10E+00	3.20E-01	6.07E+03	2.00E+00	ND											
Sodium	mg/kg	7.38E+02	6.92E+02	NA	NA	ND											
Thallium	mg/kg	2.20E-01	1.30E-01	7.78E+01	NA	ND											
Vanadium	mg/kg	6.70E+01	4.09E+01	4.83E+03	NA	1.54E+01											
Zinc	mg/kg	1.11E+02	5.27E+01	3.44E+05	1.24E+02	2.41E+01	J										
NITROAROMATICS																	
2,4-Dinitrotoluene	mg/kg	NA	NA	1.09E+02	7.51E-02												
SEMIVOLATILE ORGANIC COMPOUNDS																	
Di-n-butyl phthalate	mg/kg	NA	NA	1.14E+05	1.11E-01	ND											
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	5.41E+03	1.82E-01	ND											
TOTAL ORGANIC CARBON																	
Total Organic Carbon	mg/kg	NA	NA	NA	NA	2.90E+03	J					1.17E+04	J				

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-85-SW/SD02						SAR-85-SW/SD03					
Parcel						SAR-85						SAR-85					
Sample Number						HS1002						HS1003					
Sample Date						7-Aug-00						7-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																	
2-Butanone	mg/kg	NA	NA	6.23E+05	1.37E-01	ND											
Acetone	mg/kg	NA	NA	1.03E+05	4.53E-01	7.40E-02	B										
Bromoform	mg/kg	NA	NA	9.21E+03	9.96E-01	ND											
Methylene chloride	mg/kg	NA	NA	9.84E+03	1.26E+00	2.00E-03	B										
Toluene	mg/kg	NA	NA	2.11E+05	6.70E-01	ND											
Trichlorofluoromethane	mg/kg	NA	NA	3.06E+05	3.07E-03	ND											
p-Cymene	mg/kg	NA	NA	2.08E+05	NA	ND											

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-85-SW/SD04						SAR-85-SW/SD05					
Parcel						SAR-85						SAR-85					
Sample Number						HS1004						HS1005					
Sample Date						8-Aug-00						8-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
HERBICIDES																	
2,4-DB	mg/kg	NA	NA	8.43E+03	NA												
MCPP	mg/kg	NA	NA	1.04E+03	NA												
PESTICIDES																	
4,4'-DDD	mg/kg	NA	NA	2.35E+02	3.30E-03	ND											
alpha-BHC	mg/kg	NA	NA	1.17E+01	6.00E-03	ND											
gamma-Chlordane	mg/kg	NA	NA	1.35E+02	1.70E-03												
METALS																	
Aluminum	mg/kg	1.74E+04	8.59E+03	1.15E+06	NA	1.94E+03											
Antimony	mg/kg	1.20E+00	7.30E-01	4.22E+02	1.20E+01	3.50E+00	J	YES	YES								
Arsenic	mg/kg	2.00E+01	1.13E+01	5.58E+01	7.24E+00	6.20E+00											
Barium	mg/kg	2.72E+02	9.89E+01	8.36E+04	NA	2.19E+01	J										
Beryllium	mg/kg	1.20E+00	9.70E-01	1.50E+02	NA	4.90E-01	B										
Calcium	mg/kg	2.81E+03	1.11E+03	NA	NA	2.01E+02	J										
Chromium	mg/kg	6.30E+01	3.12E+01	2.79E+03	5.23E+01	4.40E+00											
Cobalt	mg/kg	2.20E+01	1.10E+01	6.72E+04	5.00E+01	2.90E+00	J										
Copper	mg/kg	5.90E+01	1.71E+01	4.74E+04	1.87E+01	1.56E+01											
Iron	mg/kg	5.75E+04	3.53E+04	3.59E+05	NA	2.17E+04											
Lead	mg/kg	1.10E+02	3.78E+01	4.00E+02	3.02E+01	4.48E+02		YES	YES	YES	YES	8.42E+02		YES	YES	YES	YES
Magnesium	mg/kg	3.27E+03	9.06E+02	NA	NA	8.49E+01	J										
Manganese	mg/kg	2.05E+03	7.12E+02	4.38E+04	NA	1.31E+02	J										
Mercury	mg/kg	2.80E-01	1.10E-01	2.99E+02	1.30E-01	ND											
Nickel	mg/kg	3.30E+01	1.30E+01	1.76E+04	1.59E+01	3.90E+00	J										
Potassium	mg/kg	4.81E+03	1.01E+03	NA	NA	4.05E+02	J										
Silver	mg/kg	1.10E+00	3.20E-01	6.07E+03	2.00E+00	ND											
Sodium	mg/kg	7.38E+02	6.92E+02	NA	NA	ND											
Thallium	mg/kg	2.20E-01	1.30E-01	7.78E+01	NA	ND											
Vanadium	mg/kg	6.70E+01	4.09E+01	4.83E+03	NA	1.36E+01											
Zinc	mg/kg	1.11E+02	5.27E+01	3.44E+05	1.24E+02	2.62E+01	J										
NITROAROMATICS																	
2,4-Dinitrotoluene	mg/kg	NA	NA	1.09E+02	7.51E-02												
SEMIVOLATILE ORGANIC COMPOUNDS																	
Di-n-butyl phthalate	mg/kg	NA	NA	1.14E+05	1.11E-01	ND											
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	5.41E+03	1.82E-01	ND											
TOTAL ORGANIC CARBON																	
Total Organic Carbon	mg/kg	NA	NA	NA	NA	8.17E+03	J					1.66E+03	J				

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-85-SW/SD04						SAR-85-SW/SD05					
Parcel						SAR-85						SAR-85					
Sample Number						HS1004						HS1005					
Sample Date						8-Aug-00						8-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																	
2-Butanone	mg/kg	NA	NA	6.23E+05	1.37E-01	ND											
Acetone	mg/kg	NA	NA	1.03E+05	4.53E-01	ND											
Bromoform	mg/kg	NA	NA	9.21E+03	9.96E-01	ND											
Methylene chloride	mg/kg	NA	NA	9.84E+03	1.26E+00	2.10E-03	B										
Toluene	mg/kg	NA	NA	2.11E+05	6.70E-01	ND											
Trichlorofluoromethane	mg/kg	NA	NA	3.06E+05	3.07E-03	ND											
p-Cymene	mg/kg	NA	NA	2.08E+05	NA	ND											

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-85-SW/SD06						SAR-85-SW/SD07					
Parcel						SAR-85						SAR-85					
Sample Number						HS1006						HS1007					
Sample Date						8-Aug-00						8-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
HERBICIDES																	
2,4-DB	mg/kg	NA	NA	8.43E+03	NA												
MCPP	mg/kg	NA	NA	1.04E+03	NA												
PESTICIDES																	
4,4'-DDD	mg/kg	NA	NA	2.35E+02	3.30E-03												
alpha-BHC	mg/kg	NA	NA	1.17E+01	6.00E-03												
gamma-Chlordane	mg/kg	NA	NA	1.35E+02	1.70E-03												
METALS																	
Aluminum	mg/kg	1.74E+04	8.59E+03	1.15E+06	NA												
Antimony	mg/kg	1.20E+00	7.30E-01	4.22E+02	1.20E+01												
Arsenic	mg/kg	2.00E+01	1.13E+01	5.58E+01	7.24E+00												
Barium	mg/kg	2.72E+02	9.89E+01	8.36E+04	NA												
Beryllium	mg/kg	1.20E+00	9.70E-01	1.50E+02	NA												
Calcium	mg/kg	2.81E+03	1.11E+03	NA	NA												
Chromium	mg/kg	6.30E+01	3.12E+01	2.79E+03	5.23E+01												
Cobalt	mg/kg	2.20E+01	1.10E+01	6.72E+04	5.00E+01												
Copper	mg/kg	5.90E+01	1.71E+01	4.74E+04	1.87E+01												
Iron	mg/kg	5.75E+04	3.53E+04	3.59E+05	NA												
Lead	mg/kg	1.10E+02	3.78E+01	4.00E+02	3.02E+01	1.28E+03		YES	YES	YES	YES	7.60E+02		YES	YES	YES	YES
Magnesium	mg/kg	3.27E+03	9.06E+02	NA	NA												
Manganese	mg/kg	2.05E+03	7.12E+02	4.38E+04	NA												
Mercury	mg/kg	2.80E-01	1.10E-01	2.99E+02	1.30E-01												
Nickel	mg/kg	3.30E+01	1.30E+01	1.76E+04	1.59E+01												
Potassium	mg/kg	4.81E+03	1.01E+03	NA	NA												
Silver	mg/kg	1.10E+00	3.20E-01	6.07E+03	2.00E+00												
Sodium	mg/kg	7.38E+02	6.92E+02	NA	NA												
Thallium	mg/kg	2.20E-01	1.30E-01	7.78E+01	NA												
Vanadium	mg/kg	6.70E+01	4.09E+01	4.83E+03	NA												
Zinc	mg/kg	1.11E+02	5.27E+01	3.44E+05	1.24E+02												
NITROAROMATICS																	
2,4-Dinitrotoluene	mg/kg	NA	NA	1.09E+02	7.51E-02												
SEMIVOLATILE ORGANIC COMPOUNDS																	
Di-n-butyl phthalate	mg/kg	NA	NA	1.14E+05	1.11E-01												
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	5.41E+03	1.82E-01												
TOTAL ORGANIC CARBON																	
Total Organic Carbon	mg/kg	NA	NA	NA		4.27E+04	J					4.09E+03	J				

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-85-SW/SD06						SAR-85-SW/SD07					
Parcel						SAR-85						SAR-85					
Sample Number						HS1006						HS1007					
Sample Date						8-Aug-00						8-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																	
2-Butanone	mg/kg	NA	NA	6.23E+05	1.37E-01												
Acetone	mg/kg	NA	NA	1.03E+05	4.53E-01												
Bromoform	mg/kg	NA	NA	9.21E+03	9.96E-01												
Methylene chloride	mg/kg	NA	NA	9.84E+03	1.26E+00												
Toluene	mg/kg	NA	NA	2.11E+05	6.70E-01												
Trichlorofluoromethane	mg/kg	NA	NA	3.06E+05	3.07E-03												
p-Cymene	mg/kg	NA	NA	2.08E+05	NA												

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-85-SW/SD08						SAR-85-SW/SD09					
Parcel						SAR-85						SAR-85					
Sample Number						HS1008						HS1009					
Sample Date						9-Aug-00						8-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
HERBICIDES																	
2,4-DB	mg/kg	NA	NA	8.43E+03	NA												
MCPP	mg/kg	NA	NA	1.04E+03	NA												
PESTICIDES																	
4,4'-DDD	mg/kg	NA	NA	2.35E+02	3.30E-03	ND						ND					
alpha-BHC	mg/kg	NA	NA	1.17E+01	6.00E-03	ND						ND					
gamma-Chlordane	mg/kg	NA	NA	1.35E+02	1.70E-03												
METALS																	
Aluminum	mg/kg	1.74E+04	8.59E+03	1.15E+06	NA	1.97E+03						3.50E+03					
Antimony	mg/kg	1.20E+00	7.30E-01	4.22E+02	1.20E+01	6.20E+00	J	YES	YES			ND					
Arsenic	mg/kg	2.00E+01	1.13E+01	5.58E+01	7.24E+00	3.00E+00						5.00E+00					
Barium	mg/kg	2.72E+02	9.89E+01	8.36E+04	NA	9.30E+00	J					2.86E+01					
Beryllium	mg/kg	1.20E+00	9.70E-01	1.50E+02	NA	4.00E-01	B					5.30E-01	J				
Calcium	mg/kg	2.81E+03	1.11E+03	NA	NA	6.28E+01	J					4.11E+01	J				
Chromium	mg/kg	6.30E+01	3.12E+01	2.79E+03	5.23E+01	5.20E+00						7.30E+00					
Cobalt	mg/kg	2.20E+01	1.10E+01	6.72E+04	5.00E+01	1.00E+00	J					2.70E+00	J				
Copper	mg/kg	5.90E+01	1.71E+01	4.74E+04	1.87E+01	1.79E+02		YES	YES		YES	7.50E+00					
Iron	mg/kg	5.75E+04	3.53E+04	3.59E+05	NA	1.37E+04						3.07E+04					
Lead	mg/kg	1.10E+02	3.78E+01	4.00E+02	3.02E+01	7.29E+02		YES	YES	YES	YES	1.11E+02		YES	YES		YES
Magnesium	mg/kg	3.27E+03	9.06E+02	NA	NA	1.42E+02	J					9.37E+01	J				
Manganese	mg/kg	2.05E+03	7.12E+02	4.38E+04	NA	1.09E+02	J					1.54E+02	J				
Mercury	mg/kg	2.80E-01	1.10E-01	2.99E+02	1.30E-01	ND						1.00E-02	J				
Nickel	mg/kg	3.30E+01	1.30E+01	1.76E+04	1.59E+01	1.90E+00	J					2.20E+00	J				
Potassium	mg/kg	4.81E+03	1.01E+03	NA	NA	5.76E+02	J					1.08E+03			YES		
Silver	mg/kg	1.10E+00	3.20E-01	6.07E+03	2.00E+00	ND						ND					
Sodium	mg/kg	7.38E+02	6.92E+02	NA	NA	ND						ND					
Thallium	mg/kg	2.20E-01	1.30E-01	7.78E+01	NA	ND						ND					
Vanadium	mg/kg	6.70E+01	4.09E+01	4.83E+03	NA	1.00E+01						1.20E+01					
Zinc	mg/kg	1.11E+02	5.27E+01	3.44E+05	1.24E+02	1.21E+01	J					7.20E+00	J				
NITROAROMATICS																	
2,4-Dinitrotoluene	mg/kg	NA	NA	1.09E+02	7.51E-02												
SEMIVOLATILE ORGANIC COMPOUNDS																	
Di-n-butyl phthalate	mg/kg	NA	NA	1.14E+05	1.11E-01	ND						ND					
bis(2-Ethylhexyl)phthalate	mg/kg	NA	NA	5.41E+03	1.82E-01	ND						ND					
TOTAL ORGANIC CARBON																	
Total Organic Carbon	mg/kg	NA	NA	NA		2.44E+03	J					9.06E+03	J				

Table 3-4

Sediment Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						SAR-85-SW/SD08						SAR-85-SW/SD09					
Parcel						SAR-85						SAR-85					
Sample Number						HS1008						HS1009					
Sample Date						9-Aug-00						8-Aug-00					
Sample Depth (Feet)						0- .5						0- .5					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
VOLATILE ORGANIC COMPOUNDS																	
2-Butanone	mg/kg	NA	NA	6.23E+05	1.37E-01	ND						ND					
Acetone	mg/kg	NA	NA	1.03E+05	4.53E-01	ND						1.10E-02	B				
Bromoform	mg/kg	NA	NA	9.21E+03	9.96E-01	ND						ND					
Methylene chloride	mg/kg	NA	NA	9.84E+03	1.26E+00	2.90E-03	B					1.50E-03	B				
Toluene	mg/kg	NA	NA	2.11E+05	6.70E-01	ND						ND					
Trichlorofluoromethane	mg/kg	NA	NA	3.06E+05	3.07E-03	ND						ND					
p-Cymene	mg/kg	NA	NA	2.08E+05	NA	ND						ND					

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

[a] UBR - Upper background range as given in Science Applications International Corporation (SAIC), 1998, *Final Background Metals Survey Report, Fort McClellan, Alabama*, July.
[b] BKG - Background. Concentration listed is two times (2x) the arithmetic mean of background metals concentration given in SAIC, 1998.
[c] Recreational site user 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,*
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 an estimated concentration.
mg/kg - Milligrams per kilogram.
NA - Not available.
ND - Not detected.
Qual - Data validation qualifier.

Table 3-5

Surface Water Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						HR-78Q-SW/SD01						HR-80Q-SW/SD02					
Parcel						SAR-78						HR-80Q					
Sample Number						HQQ2001						QB2002					
Sample Date						26-Sep-01						27-Aug-01					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
PESTICIDES																	
4,4'-DDE	mg/L	NA	NA	1.04E-03	1.05E-02	2.90E-04											
METALS																	
Aluminum	mg/L	4.78E+01	5.26E+00	1.53E+01	8.70E-02	ND						1.06E-01	B				YES
Arsenic	mg/L	1.10E-02	2.17E-03	7.30E-04	1.90E-01	ND						ND					
Barium	mg/L	2.00E-01	7.54E-02	1.10E+00	3.90E-03	2.04E-02					YES	2.92E-02					YES
Beryllium	mg/L	3.20E-03	3.90E-04	1.75E-02	5.30E-04	ND						1.51E-03	B		YES		YES
Calcium	mg/L	6.41E+01	2.52E+01	NA	1.16E+02	8.53E-01	B					8.05E-01	J				
Cobalt	mg/L	NA	NA	9.31E-01	3.00E-03	ND						ND					
Copper	mg/L	7.20E-02	1.27E-02	6.23E-01	6.54E-03	7.28E-02		YES	YES		YES	ND					
Iron	mg/L	2.32E+02	1.96E+01	4.70E+00	1.00E+00	1.77E-01	J					2.28E-01					
Lead	mg/L	4.70E-02	8.67E-03	1.50E-02	1.32E-03	4.97E-02		YES	YES	YES	YES	ND					
Magnesium	mg/L	2.44E+01	1.10E+01	NA	8.20E+01	5.65E-01	B					5.58E-01	J				
Manganese	mg/L	6.06E+00	5.65E-01	6.40E-01	8.00E-02	1.43E-02						1.66E-02					
Mercury	mg/L	NA	NA	4.25E-03	1.20E-05	ND						ND					
Potassium	mg/L	7.12E+00	2.56E+00	NA	5.30E+01	ND						2.58E+00	J		YES		
Selenium	mg/L	NA	NA	7.82E-02	5.00E-03	1.93E-03	B					ND					
Silver	mg/L	NA	NA	7.90E-02	1.20E-05	6.12E-03	B				YES	ND					
Sodium	mg/L	1.52E+01	3.44E+00	NA	6.80E+02	1.00E+00	B					1.24E+00					
Thallium	mg/L	4.20E-03	2.49E-03	1.02E-03	4.00E-03	ND						ND					
Vanadium	mg/L	3.60E-02	1.52E-02	7.90E-02	1.90E-02	ND						ND					
Zinc	mg/L	1.82E-01	4.04E-02	4.65E+00	5.89E-02	1.70E-02	J					ND					
NITROAROMATICS																	
2-Nitrotoluene	mg/L	NA	NA	1.43E-01	NA	ND						2.50E-04	J				
VOLATILE ORGANIC COMPOUNDS																	
Acetone	mg/L	NA	NA	1.57E+00	7.80E+01	ND											
Methylene chloride	mg/L	NA	NA	1.42E-01	1.93E+00	4.00E-04	B										

Table 3-5

Surface Water Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						HR-80Q-SW/SD02						HR-80Q-SW/SD03					
Parcel						HR-80Q						HR-80Q					
Sample Number						QB2011						QB2003					
Sample Date						4-Feb-02						28-Aug-01					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
PESTICIDES																	
4,4'-DDE	mg/L	NA	NA	1.04E-03	1.05E-02	ND											
METALS																	
Aluminum	mg/L	4.78E+01	5.26E+00	1.53E+01	8.70E-02	ND						8.00E-02	B				
Arsenic	mg/L	1.10E-02	2.17E-03	7.30E-04	1.90E-01	ND						ND					
Barium	mg/L	2.00E-01	7.54E-02	1.10E+00	3.90E-03	2.64E-02					YES	2.86E-02					YES
Beryllium	mg/L	3.20E-03	3.90E-04	1.75E-02	5.30E-04	ND						ND					
Calcium	mg/L	6.41E+01	2.52E+01	NA	1.16E+02	4.54E-01	J					4.65E-01	B				
Cobalt	mg/L	NA	NA	9.31E-01	3.00E-03	ND						ND					
Copper	mg/L	7.20E-02	1.27E-02	6.23E-01	6.54E-03	ND						ND					
Iron	mg/L	2.32E+02	1.96E+01	4.70E+00	1.00E+00	4.80E-02	J					1.82E-01	J				
Lead	mg/L	4.70E-02	8.67E-03	1.50E-02	1.32E-03	ND						ND					
Magnesium	mg/L	2.44E+01	1.10E+01	NA	8.20E+01	4.67E-01	J					3.34E-01	J				
Manganese	mg/L	6.06E+00	5.65E-01	6.40E-01	8.00E-02	5.06E-03	J					2.03E-02					
Mercury	mg/L	NA	NA	4.25E-03	1.20E-05	ND						ND					
Potassium	mg/L	7.12E+00	2.56E+00	NA	5.30E+01	1.61E+00	J					2.67E+00	J		YES		
Selenium	mg/L	NA	NA	7.82E-02	5.00E-03	ND						ND					
Silver	mg/L	NA	NA	7.90E-02	1.20E-05	ND						ND					
Sodium	mg/L	1.52E+01	3.44E+00	NA	6.80E+02	1.03E+00						1.15E+00					
Thallium	mg/L	4.20E-03	2.49E-03	1.02E-03	4.00E-03	ND						ND					
Vanadium	mg/L	3.60E-02	1.52E-02	7.90E-02	1.90E-02	ND						ND					
Zinc	mg/L	1.82E-01	4.04E-02	4.65E+00	5.89E-02	ND						ND					
NITROAROMATICS																	
2-Nitrotoluene	mg/L	NA	NA	1.43E-01	NA	ND						ND					
VOLATILE ORGANIC COMPOUNDS																	
Acetone	mg/L	NA	NA	1.57E+00	7.80E+01	ND											
Methylene chloride	mg/L	NA	NA	1.42E-01	1.93E+00	ND											

Table 3-5

Surface Water Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date						HR-80Q-SW/SD03 HR-80Q QB2012 4-Feb-02						HR-80Q-SW/SD04 HR-80Q QB2005 27-Aug-01					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
PESTICIDES																	
4,4'-DDE	mg/L	NA	NA	1.04E-03	1.05E-02	ND											
METALS																	
Aluminum	mg/L	4.78E+01	5.26E+00	1.53E+01	8.70E-02	ND						2.34E-01	B				YES
Arsenic	mg/L	1.10E-02	2.17E-03	7.30E-04	1.90E-01	1.84E-03	J			YES		ND					
Barium	mg/L	2.00E-01	7.54E-02	1.10E+00	3.90E-03	2.59E-02					YES	2.76E-02					YES
Beryllium	mg/L	3.20E-03	3.90E-04	1.75E-02	5.30E-04	ND						ND					
Calcium	mg/L	6.41E+01	2.52E+01	NA	1.16E+02	3.37E-01	J					7.03E-01	B				
Cobalt	mg/L	NA	NA	9.31E-01	3.00E-03	ND						ND					
Copper	mg/L	7.20E-02	1.27E-02	6.23E-01	6.54E-03	ND						5.00E-03	J				
Iron	mg/L	2.32E+02	1.96E+01	4.70E+00	1.00E+00	4.41E-02	J					5.79E-01					
Lead	mg/L	4.70E-02	8.67E-03	1.50E-02	1.32E-03	ND						1.47E-02			YES		YES
Magnesium	mg/L	2.44E+01	1.10E+01	NA	8.20E+01	4.21E-01	J					4.75E-01	J				
Manganese	mg/L	6.06E+00	5.65E-01	6.40E-01	8.00E-02	5.25E-03	J					2.73E-02					
Mercury	mg/L	NA	NA	4.25E-03	1.20E-05	ND						ND					
Potassium	mg/L	7.12E+00	2.56E+00	NA	5.30E+01	1.60E+00	J					2.95E+00	J		YES		
Selenium	mg/L	NA	NA	7.82E-02	5.00E-03	ND						ND					
Silver	mg/L	NA	NA	7.90E-02	1.20E-05	ND						ND					
Sodium	mg/L	1.52E+01	3.44E+00	NA	6.80E+02	1.03E+00						1.10E+00					
Thallium	mg/L	4.20E-03	2.49E-03	1.02E-03	4.00E-03	ND						ND					
Vanadium	mg/L	3.60E-02	1.52E-02	7.90E-02	1.90E-02	ND						ND					
Zinc	mg/L	1.82E-01	4.04E-02	4.65E+00	5.89E-02	ND						ND					
NITROAROMATICS																	
2-Nitrotoluene	mg/L	NA	NA	1.43E-01	NA	ND						ND					
VOLATILE ORGANIC COMPOUNDS																	
Acetone	mg/L	NA	NA	1.57E+00	7.80E+01	ND											
Methylene chloride	mg/L	NA	NA	1.42E-01	1.93E+00	ND											

Table 3-5

Surface Water Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date						HR-80Q-SW/SD04 HR-80Q QB2010 30-Jan-02						HR-80Q-SW/SD06 HR-80Q QB2007 27-Sep-01					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
PESTICIDES																	
4,4'-DDE	mg/L	NA	NA	1.04E-03	1.05E-02	ND											
METALS																	
Aluminum	mg/L	4.78E+01	5.26E+00	1.53E+01	8.70E-02	ND						7.26E-02	J				
Arsenic	mg/L	1.10E-02	2.17E-03	7.30E-04	1.90E-01	ND						ND					
Barium	mg/L	2.00E-01	7.54E-02	1.10E+00	3.90E-03	2.96E-02					YES	4.18E-02					YES
Beryllium	mg/L	3.20E-03	3.90E-04	1.75E-02	5.30E-04	ND						ND					
Calcium	mg/L	6.41E+01	2.52E+01	NA	1.16E+02	4.61E-01	J					4.50E-01	J				
Cobalt	mg/L	NA	NA	9.31E-01	3.00E-03	ND						ND					
Copper	mg/L	7.20E-02	1.27E-02	6.23E-01	6.54E-03	ND						ND					
Iron	mg/L	2.32E+02	1.96E+01	4.70E+00	1.00E+00	7.93E-02	J					4.67E-02	J				
Lead	mg/L	4.70E-02	8.67E-03	1.50E-02	1.32E-03	1.89E-03	J				YES	ND					
Magnesium	mg/L	2.44E+01	1.10E+01	NA	8.20E+01	4.81E-01	J					4.13E-01	J				
Manganese	mg/L	6.06E+00	5.65E-01	6.40E-01	8.00E-02	8.94E-03	J					2.55E-02					
Mercury	mg/L	NA	NA	4.25E-03	1.20E-05	ND						ND					
Potassium	mg/L	7.12E+00	2.56E+00	NA	5.30E+01	2.63E+00	J		YES			ND					
Selenium	mg/L	NA	NA	7.82E-02	5.00E-03	ND						1.90E-03	J				
Silver	mg/L	NA	NA	7.90E-02	1.20E-05	ND						ND					
Sodium	mg/L	1.52E+01	3.44E+00	NA	6.80E+02	1.11E+00						9.71E-01	J				
Thallium	mg/L	4.20E-03	2.49E-03	1.02E-03	4.00E-03	ND						ND					
Vanadium	mg/L	3.60E-02	1.52E-02	7.90E-02	1.90E-02	ND						ND					
Zinc	mg/L	1.82E-01	4.04E-02	4.65E+00	5.89E-02	ND						ND					
NITROAROMATICS																	
2-Nitrotoluene	mg/L	NA	NA	1.43E-01	NA	ND						ND					
VOLATILE ORGANIC COMPOUNDS																	
Acetone	mg/L	NA	NA	1.57E+00	7.80E+01	ND											
Methylene chloride	mg/L	NA	NA	1.42E-01	1.93E+00	3.40E-04	B										

Table 3-5

Surface Water Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						HR-80Q-SW/SD06						HR-80Q-SW/SD07					
Parcel						HR-80Q						HR-80Q					
Sample Number						QB2014						QB2008					
Sample Date						5-Feb-02						27-Aug-01					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
PESTICIDES																	
4,4'-DDE	mg/L	NA	NA	1.04E-03	1.05E-02	ND											
METALS																	
Aluminum	mg/L	4.78E+01	5.26E+00	1.53E+01	8.70E-02	ND						1.33E-01	B				YES
Arsenic	mg/L	1.10E-02	2.17E-03	7.30E-04	1.90E-01	ND						ND					
Barium	mg/L	2.00E-01	7.54E-02	1.10E+00	3.90E-03	2.18E-02					YES	2.76E-02					YES
Beryllium	mg/L	3.20E-03	3.90E-04	1.75E-02	5.30E-04	ND						ND					
Calcium	mg/L	6.41E+01	2.52E+01	NA	1.16E+02	2.41E-01	J					3.76E-01	B				
Cobalt	mg/L	NA	NA	9.31E-01	3.00E-03	ND						ND					
Copper	mg/L	7.20E-02	1.27E-02	6.23E-01	6.54E-03	ND						ND					
Iron	mg/L	2.32E+02	1.96E+01	4.70E+00	1.00E+00	4.38E-02	J					3.33E-01					
Lead	mg/L	4.70E-02	8.67E-03	1.50E-02	1.32E-03	ND						ND					
Magnesium	mg/L	2.44E+01	1.10E+01	NA	8.20E+01	3.30E-01	J					2.44E-01	J				
Manganese	mg/L	6.06E+00	5.65E-01	6.40E-01	8.00E-02	5.44E-03	J					3.95E-02					
Mercury	mg/L	NA	NA	4.25E-03	1.20E-05	ND						ND					
Potassium	mg/L	7.12E+00	2.56E+00	NA	5.30E+01	1.22E+00	J					ND					
Selenium	mg/L	NA	NA	7.82E-02	5.00E-03	ND						ND					
Silver	mg/L	NA	NA	7.90E-02	1.20E-05	ND						ND					
Sodium	mg/L	1.52E+01	3.44E+00	NA	6.80E+02	1.03E+00						9.54E-01	J				
Thallium	mg/L	4.20E-03	2.49E-03	1.02E-03	4.00E-03	7.11E-03	J	YES	YES	YES	YES	ND					
Vanadium	mg/L	3.60E-02	1.52E-02	7.90E-02	1.90E-02	ND						ND					
Zinc	mg/L	1.82E-01	4.04E-02	4.65E+00	5.89E-02	ND						ND					
NITROAROMATICS																	
2-Nitrotoluene	mg/L	NA	NA	1.43E-01	NA	ND						ND					
VOLATILE ORGANIC COMPOUNDS																	
Acetone	mg/L	NA	NA	1.57E+00	7.80E+01	ND											
Methylene chloride	mg/L	NA	NA	1.42E-01	1.93E+00	ND											

Table 3-5

Surface Water Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location						HR-80Q-SW/SD07						HR-85Q-SW/SD01					
Parcel						HR-80Q						SAR-85					
Sample Number						QB2009						HSS2001					
Sample Date						5-Feb-02						25-Sep-01					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
PESTICIDES																	
4,4'-DDE	mg/L	NA	NA	1.04E-03	1.05E-02	ND						ND					
METALS																	
Aluminum	mg/L	4.78E+01	5.26E+00	1.53E+01	8.70E-02	5.11E-02	J					4.77E-02	J				
Arsenic	mg/L	1.10E-02	2.17E-03	7.30E-04	1.90E-01	ND						ND					
Barium	mg/L	2.00E-01	7.54E-02	1.10E+00	3.90E-03	2.68E-02					YES	2.56E-02					YES
Beryllium	mg/L	3.20E-03	3.90E-04	1.75E-02	5.30E-04	ND						ND					
Calcium	mg/L	6.41E+01	2.52E+01	NA	1.16E+02	2.80E-01	J					9.67E-01	B				
Cobalt	mg/L	NA	NA	9.31E-01	3.00E-03	ND						ND					
Copper	mg/L	7.20E-02	1.27E-02	6.23E-01	6.54E-03	ND						8.15E-02		YES	YES		YES
Iron	mg/L	2.32E+02	1.96E+01	4.70E+00	1.00E+00	4.19E-02	J					4.54E-01					
Lead	mg/L	4.70E-02	8.67E-03	1.50E-02	1.32E-03	ND						5.05E-02		YES	YES	YES	YES
Magnesium	mg/L	2.44E+01	1.10E+01	NA	8.20E+01	3.35E-01	J					5.57E-01	B				
Manganese	mg/L	6.06E+00	5.65E-01	6.40E-01	8.00E-02	5.25E-03	J					3.06E-02					
Mercury	mg/L	NA	NA	4.25E-03	1.20E-05	ND						ND					
Potassium	mg/L	7.12E+00	2.56E+00	NA	5.30E+01	1.42E+00	J					ND					
Selenium	mg/L	NA	NA	7.82E-02	5.00E-03	2.71E-03	J					ND					
Silver	mg/L	NA	NA	7.90E-02	1.20E-05	ND						ND					
Sodium	mg/L	1.52E+01	3.44E+00	NA	6.80E+02	1.05E+00						1.01E+00	B				
Thallium	mg/L	4.20E-03	2.49E-03	1.02E-03	4.00E-03	ND						ND					
Vanadium	mg/L	3.60E-02	1.52E-02	7.90E-02	1.90E-02	ND						ND					
Zinc	mg/L	1.82E-01	4.04E-02	4.65E+00	5.89E-02	ND						2.22E-02					
NITROAROMATICS																	
2-Nitrotoluene	mg/L	NA	NA	1.43E-01	NA	ND											
VOLATILE ORGANIC COMPOUNDS																	
Acetone	mg/L	NA	NA	1.57E+00	7.80E+01	ND						ND					
Methylene chloride	mg/L	NA	NA	1.42E-01	1.93E+00	ND						3.20E-04	B				

Table 3-5

Surface Water Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date						HR-85Q-SW/SD02 SAR-85 HSS2002 30-Aug-01						SAR-77-SW/SD15 SAR-77 HP2001 9-Aug-00					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
PESTICIDES																	
4,4'-DDE	mg/L	NA	NA	1.04E-03	1.05E-02	ND						ND					
METALS																	
Aluminum	mg/L	4.78E+01	5.26E+00	1.53E+01	8.70E-02	1.19E-01	J				YES	8.32E-02	B				
Arsenic	mg/L	1.10E-02	2.17E-03	7.30E-04	1.90E-01	ND						ND					
Barium	mg/L	2.00E-01	7.54E-02	1.10E+00	3.90E-03	2.50E-02					YES	1.75E-02	J				YES
Beryllium	mg/L	3.20E-03	3.90E-04	1.75E-02	5.30E-04	ND						ND					
Calcium	mg/L	6.41E+01	2.52E+01	NA	1.16E+02	3.78E+00						5.99E-01	J				
Cobalt	mg/L	NA	NA	9.31E-01	3.00E-03	9.11E-03	J				YES	3.00E-03	J				YES
Copper	mg/L	7.20E-02	1.27E-02	6.23E-01	6.54E-03	4.07E-03	J					2.03E-02	J		YES		YES
Iron	mg/L	2.32E+02	1.96E+01	4.70E+00	1.00E+00	2.19E+00					YES	1.32E-01					
Lead	mg/L	4.70E-02	8.67E-03	1.50E-02	1.32E-03	2.36E-02			YES	YES	YES	1.29E-02			YES		YES
Magnesium	mg/L	2.44E+01	1.10E+01	NA	8.20E+01	2.14E+00						3.91E-01	J				
Manganese	mg/L	6.06E+00	5.65E-01	6.40E-01	8.00E-02	8.01E-02					YES	4.30E-03	J				
Mercury	mg/L	NA	NA	4.25E-03	1.20E-05	ND						7.10E-05	B				YES
Potassium	mg/L	7.12E+00	2.56E+00	NA	5.30E+01	2.44E+00	J					1.96E+00	J				
Selenium	mg/L	NA	NA	7.82E-02	5.00E-03	ND						ND					
Silver	mg/L	NA	NA	7.90E-02	1.20E-05	ND						ND					
Sodium	mg/L	1.52E+01	3.44E+00	NA	6.80E+02	7.22E+02		YES	YES		YES	1.19E+00	J				
Thallium	mg/L	4.20E-03	2.49E-03	1.02E-03	4.00E-03	ND						ND					
Vanadium	mg/L	3.60E-02	1.52E-02	7.90E-02	1.90E-02	ND						ND					
Zinc	mg/L	1.82E-01	4.04E-02	4.65E+00	5.89E-02	8.09E-03	J					6.00E-03	J				
NITROAROMATICS																	
2-Nitrotoluene	mg/L	NA	NA	1.43E-01	NA												
VOLATILE ORGANIC COMPOUNDS																	
Acetone	mg/L	NA	NA	1.57E+00	7.80E+01	ND						1.20E-03	B				
Methylene chloride	mg/L	NA	NA	1.42E-01	1.93E+00	ND						ND					

Table 3-5

Surface Water Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date						SAR-77-SW/SD16 SAR-77 HP2002 9-Aug-00						SAR-77-SW/SD19 SAR-77 HP2005 10-Aug-00					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
PESTICIDES																	
4,4'-DDE	mg/L	NA	NA	1.04E-03	1.05E-02												
METALS																	
Aluminum	mg/L	4.78E+01	5.26E+00	1.53E+01	8.70E-02												
Arsenic	mg/L	1.10E-02	2.17E-03	7.30E-04	1.90E-01												
Barium	mg/L	2.00E-01	7.54E-02	1.10E+00	3.90E-03												
Beryllium	mg/L	3.20E-03	3.90E-04	1.75E-02	5.30E-04												
Calcium	mg/L	6.41E+01	2.52E+01	NA	1.16E+02												
Cobalt	mg/L	NA	NA	9.31E-01	3.00E-03												
Copper	mg/L	7.20E-02	1.27E-02	6.23E-01	6.54E-03												
Iron	mg/L	2.32E+02	1.96E+01	4.70E+00	1.00E+00												
Lead	mg/L	4.70E-02	8.67E-03	1.50E-02	1.32E-03	1.76E-02			YES	YES	YES	ND					
Magnesium	mg/L	2.44E+01	1.10E+01	NA	8.20E+01												
Manganese	mg/L	6.06E+00	5.65E-01	6.40E-01	8.00E-02												
Mercury	mg/L	NA	NA	4.25E-03	1.20E-05												
Potassium	mg/L	7.12E+00	2.56E+00	NA	5.30E+01												
Selenium	mg/L	NA	NA	7.82E-02	5.00E-03												
Silver	mg/L	NA	NA	7.90E-02	1.20E-05												
Sodium	mg/L	1.52E+01	3.44E+00	NA	6.80E+02												
Thallium	mg/L	4.20E-03	2.49E-03	1.02E-03	4.00E-03												
Vanadium	mg/L	3.60E-02	1.52E-02	7.90E-02	1.90E-02												
Zinc	mg/L	1.82E-01	4.04E-02	4.65E+00	5.89E-02												
NITROAROMATICS																	
2-Nitrotoluene	mg/L	NA	NA	1.43E-01	NA												
VOLATILE ORGANIC COMPOUNDS																	
Acetone	mg/L	NA	NA	1.57E+00	7.80E+01												
Methylene chloride	mg/L	NA	NA	1.42E-01	1.93E+00												

Table 3-5

Surface Water Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date						SAR-77-SW/SD20 SAR-77 HP2006 10-Aug-00						SAR-77-SW/SD22 SAR-77 HP2008 10-Aug-00					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
PESTICIDES																	
4,4'-DDE	mg/L	NA	NA	1.04E-03	1.05E-02	ND						ND					
METALS																	
Aluminum	mg/L	4.78E+01	5.26E+00	1.53E+01	8.70E-02	1.25E-01	B				YES	2.08E-01	B				YES
Arsenic	mg/L	1.10E-02	2.17E-03	7.30E-04	1.90E-01	ND						ND					
Barium	mg/L	2.00E-01	7.54E-02	1.10E+00	3.90E-03	2.35E-02	J				YES	2.30E-02	J				YES
Beryllium	mg/L	3.20E-03	3.90E-04	1.75E-02	5.30E-04	ND						ND					
Calcium	mg/L	6.41E+01	2.52E+01	NA	1.16E+02	5.96E-01	J					3.14E-01	J				
Cobalt	mg/L	NA	NA	9.31E-01	3.00E-03	ND						ND					
Copper	mg/L	7.20E-02	1.27E-02	6.23E-01	6.54E-03	ND						ND					
Iron	mg/L	2.32E+02	1.96E+01	4.70E+00	1.00E+00	2.75E-01						1.21E-01					
Lead	mg/L	4.70E-02	8.67E-03	1.50E-02	1.32E-03	ND						5.30E-03					YES
Magnesium	mg/L	2.44E+01	1.10E+01	NA	8.20E+01	4.48E-01	J					2.51E-01	B				
Manganese	mg/L	6.06E+00	5.65E-01	6.40E-01	8.00E-02	1.45E-02	J					1.30E-02	J				
Mercury	mg/L	NA	NA	4.25E-03	1.20E-05	6.70E-05	B				YES	7.30E-05	B				YES
Potassium	mg/L	7.12E+00	2.56E+00	NA	5.30E+01	2.06E+00	J					1.98E+00	J				
Selenium	mg/L	NA	NA	7.82E-02	5.00E-03	ND						ND					
Silver	mg/L	NA	NA	7.90E-02	1.20E-05	ND						ND					
Sodium	mg/L	1.52E+01	3.44E+00	NA	6.80E+02	1.13E+00	J					1.20E+00	J				
Thallium	mg/L	4.20E-03	2.49E-03	1.02E-03	4.00E-03	ND						ND					
Vanadium	mg/L	3.60E-02	1.52E-02	7.90E-02	1.90E-02	ND						ND					
Zinc	mg/L	1.82E-01	4.04E-02	4.65E+00	5.89E-02	ND						4.00E-03	J				
NITROAROMATICS																	
2-Nitrotoluene	mg/L	NA	NA	1.43E-01	NA												
VOLATILE ORGANIC COMPOUNDS																	
Acetone	mg/L	NA	NA	1.57E+00	7.80E+01	8.20E-04	B					ND					
Methylene chloride	mg/L	NA	NA	1.42E-01	1.93E+00	ND						ND					

Table 3-5

Surface Water Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date						SAR-77-SW/SD23 SAR-77 HP2009 10-Aug-00						SAR-77-SW/SD25 SAR-77 HP2011 10-Aug-00					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
PESTICIDES																	
4,4'-DDE	mg/L	NA	NA	1.04E-03	1.05E-02												
METALS																	
Aluminum	mg/L	4.78E+01	5.26E+00	1.53E+01	8.70E-02												
Arsenic	mg/L	1.10E-02	2.17E-03	7.30E-04	1.90E-01												
Barium	mg/L	2.00E-01	7.54E-02	1.10E+00	3.90E-03												
Beryllium	mg/L	3.20E-03	3.90E-04	1.75E-02	5.30E-04												
Calcium	mg/L	6.41E+01	2.52E+01	NA	1.16E+02												
Cobalt	mg/L	NA	NA	9.31E-01	3.00E-03												
Copper	mg/L	7.20E-02	1.27E-02	6.23E-01	6.54E-03												
Iron	mg/L	2.32E+02	1.96E+01	4.70E+00	1.00E+00												
Lead	mg/L	4.70E-02	8.67E-03	1.50E-02	1.32E-03	3.06E-01		YES	YES	YES	YES	1.92E-02			YES	YES	YES
Magnesium	mg/L	2.44E+01	1.10E+01	NA	8.20E+01												
Manganese	mg/L	6.06E+00	5.65E-01	6.40E-01	8.00E-02												
Mercury	mg/L	NA	NA	4.25E-03	1.20E-05												
Potassium	mg/L	7.12E+00	2.56E+00	NA	5.30E+01												
Selenium	mg/L	NA	NA	7.82E-02	5.00E-03												
Silver	mg/L	NA	NA	7.90E-02	1.20E-05												
Sodium	mg/L	1.52E+01	3.44E+00	NA	6.80E+02												
Thallium	mg/L	4.20E-03	2.49E-03	1.02E-03	4.00E-03												
Vanadium	mg/L	3.60E-02	1.52E-02	7.90E-02	1.90E-02												
Zinc	mg/L	1.82E-01	4.04E-02	4.65E+00	5.89E-02												
NITROAROMATICS																	
2-Nitrotoluene	mg/L	NA	NA	1.43E-01	NA												
VOLATILE ORGANIC COMPOUNDS																	
Acetone	mg/L	NA	NA	1.57E+00	7.80E+01												
Methylene chloride	mg/L	NA	NA	1.42E-01	1.93E+00												

Table 3-5

Surface Water Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date						SAR-78-SW/SD10 SAR-78 HQ2001 9-Aug-00						SAR-78-SW/SD12 SAR-78 HQ2003 9-Aug-00					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
PESTICIDES																	
4,4'-DDE	mg/L	NA	NA	1.04E-03	1.05E-02	ND											
METALS																	
Aluminum	mg/L	4.78E+01	5.26E+00	1.53E+01	8.70E-02	8.11E-02	B										
Arsenic	mg/L	1.10E-02	2.17E-03	7.30E-04	1.90E-01	ND											
Barium	mg/L	2.00E-01	7.54E-02	1.10E+00	3.90E-03	1.66E-02	J				YES						
Beryllium	mg/L	3.20E-03	3.90E-04	1.75E-02	5.30E-04	ND											
Calcium	mg/L	6.41E+01	2.52E+01	NA	1.16E+02	5.71E-01	J										
Cobalt	mg/L	NA	NA	9.31E-01	3.00E-03	2.70E-03	J										
Copper	mg/L	7.20E-02	1.27E-02	6.23E-01	6.54E-03	1.29E-01		YES	YES		YES						
Iron	mg/L	2.32E+02	1.96E+01	4.70E+00	1.00E+00	1.51E-01											
Lead	mg/L	4.70E-02	8.67E-03	1.50E-02	1.32E-03	1.22E-01		YES	YES	YES	YES	9.81E-02		YES	YES	YES	YES
Magnesium	mg/L	2.44E+01	1.10E+01	NA	8.20E+01	3.51E-01	B										
Manganese	mg/L	6.06E+00	5.65E-01	6.40E-01	8.00E-02	9.40E-03	J										
Mercury	mg/L	NA	NA	4.25E-03	1.20E-05	ND											
Potassium	mg/L	7.12E+00	2.56E+00	NA	5.30E+01	1.89E+00	J										
Selenium	mg/L	NA	NA	7.82E-02	5.00E-03	ND											
Silver	mg/L	NA	NA	7.90E-02	1.20E-05	ND											
Sodium	mg/L	1.52E+01	3.44E+00	NA	6.80E+02	2.13E+00	J										
Thallium	mg/L	4.20E-03	2.49E-03	1.02E-03	4.00E-03	7.50E-03	J	YES	YES	YES	YES						
Vanadium	mg/L	3.60E-02	1.52E-02	7.90E-02	1.90E-02	ND											
Zinc	mg/L	1.82E-01	4.04E-02	4.65E+00	5.89E-02	3.03E-02	J										
NITROAROMATICS																	
2-Nitrotoluene	mg/L	NA	NA	1.43E-01	NA												
VOLATILE ORGANIC COMPOUNDS																	
Acetone	mg/L	NA	NA	1.57E+00	7.80E+01	ND											
Methylene chloride	mg/L	NA	NA	1.42E-01	1.93E+00	ND											

Table 3-5

Surface Water Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date						SAR-78-SW/SD13 SAR-78 HQ2004 9-Aug-00						SAR-78-SW/SD14 SAR-78 HQ2005 9-Aug-00					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
PESTICIDES																	
4,4'-DDE	mg/L	NA	NA	1.04E-03	1.05E-02							ND					
METALS																	
Aluminum	mg/L	4.78E+01	5.26E+00	1.53E+01	8.70E-02							1.18E-01	B				YES
Arsenic	mg/L	1.10E-02	2.17E-03	7.30E-04	1.90E-01							ND					
Barium	mg/L	2.00E-01	7.54E-02	1.10E+00	3.90E-03							1.39E-02	J				YES
Beryllium	mg/L	3.20E-03	3.90E-04	1.75E-02	5.30E-04							ND					
Calcium	mg/L	6.41E+01	2.52E+01	NA	1.16E+02							4.17E-01	B				
Cobalt	mg/L	NA	NA	9.31E-01	3.00E-03							2.60E-03	J				
Copper	mg/L	7.20E-02	1.27E-02	6.23E-01	6.54E-03							1.12E-02	J				YES
Iron	mg/L	2.32E+02	1.96E+01	4.70E+00	1.00E+00							1.93E-01					
Lead	mg/L	4.70E-02	8.67E-03	1.50E-02	1.32E-03	2.56E-02			YES	YES	YES	1.12E-02			YES		YES
Magnesium	mg/L	2.44E+01	1.10E+01	NA	8.20E+01							2.92E-01	B				
Manganese	mg/L	6.06E+00	5.65E-01	6.40E-01	8.00E-02							6.30E-03	J				
Mercury	mg/L	NA	NA	4.25E-03	1.20E-05							ND					
Potassium	mg/L	7.12E+00	2.56E+00	NA	5.30E+01							1.84E+00	J				
Selenium	mg/L	NA	NA	7.82E-02	5.00E-03							ND					
Silver	mg/L	NA	NA	7.90E-02	1.20E-05							ND					
Sodium	mg/L	1.52E+01	3.44E+00	NA	6.80E+02							1.13E+00	J				
Thallium	mg/L	4.20E-03	2.49E-03	1.02E-03	4.00E-03							ND					
Vanadium	mg/L	3.60E-02	1.52E-02	7.90E-02	1.90E-02							ND					
Zinc	mg/L	1.82E-01	4.04E-02	4.65E+00	5.89E-02							4.00E-03	J				
NITROAROMATICS																	
2-Nitrotoluene	mg/L	NA	NA	1.43E-01	NA												
VOLATILE ORGANIC COMPOUNDS																	
Acetone	mg/L	NA	NA	1.57E+00	7.80E+01							1.20E-03	B				
Methylene chloride	mg/L	NA	NA	1.42E-01	1.93E+00							ND					

Table 3-5

Surface Water Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date						SAR-85-SW/SD01 SAR-85 HS2001 7-Aug-00						SAR-85-SW/SD02 SAR-85 HS2002 7-Aug-00					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
PESTICIDES																	
4,4'-DDE	mg/L	NA	NA	1.04E-03	1.05E-02	ND						ND					
METALS																	
Aluminum	mg/L	4.78E+01	5.26E+00	1.53E+01	8.70E-02	1.11E-01	B				YES	1.00E-01	B				YES
Arsenic	mg/L	1.10E-02	2.17E-03	7.30E-04	1.90E-01	ND						ND					
Barium	mg/L	2.00E-01	7.54E-02	1.10E+00	3.90E-03	1.89E-02	J				YES	1.78E-02	J				YES
Beryllium	mg/L	3.20E-03	3.90E-04	1.75E-02	5.30E-04	ND						ND					
Calcium	mg/L	6.41E+01	2.52E+01	NA	1.16E+02	1.57E+00	J					9.26E-01	J				
Cobalt	mg/L	NA	NA	9.31E-01	3.00E-03	ND						ND					
Copper	mg/L	7.20E-02	1.27E-02	6.23E-01	6.54E-03	4.64E-02	J		YES		YES	6.32E-02	J		YES		YES
Iron	mg/L	2.32E+02	1.96E+01	4.70E+00	1.00E+00	4.12E-01						3.63E-01					
Lead	mg/L	4.70E-02	8.67E-03	1.50E-02	1.32E-03	5.51E-02		YES	YES	YES	YES	6.53E-02		YES	YES	YES	YES
Magnesium	mg/L	2.44E+01	1.10E+01	NA	8.20E+01	8.84E-01	J					4.98E-01	J				
Manganese	mg/L	6.06E+00	5.65E-01	6.40E-01	8.00E-02	1.45E-02	J					1.35E-02	J				
Mercury	mg/L	NA	NA	4.25E-03	1.20E-05	6.70E-05	B				YES	6.20E-05	B				YES
Potassium	mg/L	7.12E+00	2.56E+00	NA	5.30E+01	1.37E+00	J					1.43E+00	J				
Selenium	mg/L	NA	NA	7.82E-02	5.00E-03	ND						ND					
Silver	mg/L	NA	NA	7.90E-02	1.20E-05	ND						ND					
Sodium	mg/L	1.52E+01	3.44E+00	NA	6.80E+02	1.01E+00	J					1.07E+00	J				
Thallium	mg/L	4.20E-03	2.49E-03	1.02E-03	4.00E-03	ND						ND					
Vanadium	mg/L	3.60E-02	1.52E-02	7.90E-02	1.90E-02	ND						ND					
Zinc	mg/L	1.82E-01	4.04E-02	4.65E+00	5.89E-02	1.42E-02	J					1.64E-02	J				
NITROAROMATICS																	
2-Nitrotoluene	mg/L	NA	NA	1.43E-01	NA												
VOLATILE ORGANIC COMPOUNDS																	
Acetone	mg/L	NA	NA	1.57E+00	7.80E+01	1.30E-03	B					1.20E-03	B				
Methylene chloride	mg/L	NA	NA	1.42E-01	1.93E+00	ND						ND					

Table 3-5

Surface Water Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date						SAR-85-SW/SD03 SAR-85 HS2003 7-Aug-00						SAR-85-SW/SD04 SAR-85 HS2004 8-Aug-00					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
PESTICIDES																	
4,4'-DDE	mg/L	NA	NA	1.04E-03	1.05E-02							ND					
METALS																	
Aluminum	mg/L	4.78E+01	5.26E+00	1.53E+01	8.70E-02							2.41E-01					YES
Arsenic	mg/L	1.10E-02	2.17E-03	7.30E-04	1.90E-01							ND					
Barium	mg/L	2.00E-01	7.54E-02	1.10E+00	3.90E-03							2.46E-02	J				YES
Beryllium	mg/L	3.20E-03	3.90E-04	1.75E-02	5.30E-04							ND					
Calcium	mg/L	6.41E+01	2.52E+01	NA	1.16E+02							6.25E+00	J				
Cobalt	mg/L	NA	NA	9.31E-01	3.00E-03							ND					
Copper	mg/L	7.20E-02	1.27E-02	6.23E-01	6.54E-03							ND					
Iron	mg/L	2.32E+02	1.96E+01	4.70E+00	1.00E+00							1.95E+00					YES
Lead	mg/L	4.70E-02	8.67E-03	1.50E-02	1.32E-03	1.15E+00		YES	YES	YES	YES	3.59E-02			YES	YES	YES
Magnesium	mg/L	2.44E+01	1.10E+01	NA	8.20E+01							3.75E+00	J				
Manganese	mg/L	6.06E+00	5.65E-01	6.40E-01	8.00E-02							6.58E-02					
Mercury	mg/L	NA	NA	4.25E-03	1.20E-05							6.80E-05	B				YES
Potassium	mg/L	7.12E+00	2.56E+00	NA	5.30E+01							1.02E+00	J				
Selenium	mg/L	NA	NA	7.82E-02	5.00E-03							ND					
Silver	mg/L	NA	NA	7.90E-02	1.20E-05							ND					
Sodium	mg/L	1.52E+01	3.44E+00	NA	6.80E+02							7.73E-01	J				
Thallium	mg/L	4.20E-03	2.49E-03	1.02E-03	4.00E-03							ND					
Vanadium	mg/L	3.60E-02	1.52E-02	7.90E-02	1.90E-02							ND					
Zinc	mg/L	1.82E-01	4.04E-02	4.65E+00	5.89E-02							3.70E-03	J				
NITROAROMATICS																	
2-Nitrotoluene	mg/L	NA	NA	1.43E-01	NA												
VOLATILE ORGANIC COMPOUNDS																	
Acetone	mg/L	NA	NA	1.57E+00	7.80E+01							1.40E-03	B				
Methylene chloride	mg/L	NA	NA	1.42E-01	1.93E+00							ND					

Table 3-5

Surface Water Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date						SAR-85-SW/SD05 SAR-85 HS2005 8-Aug-00						SAR-85-SW/SD06 SAR-85 HS2006 8-Aug-00					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
PESTICIDES																	
4,4'-DDE	mg/L	NA	NA	1.04E-03	1.05E-02												
METALS																	
Aluminum	mg/L	4.78E+01	5.26E+00	1.53E+01	8.70E-02												
Arsenic	mg/L	1.10E-02	2.17E-03	7.30E-04	1.90E-01												
Barium	mg/L	2.00E-01	7.54E-02	1.10E+00	3.90E-03												
Beryllium	mg/L	3.20E-03	3.90E-04	1.75E-02	5.30E-04												
Calcium	mg/L	6.41E+01	2.52E+01	NA	1.16E+02												
Cobalt	mg/L	NA	NA	9.31E-01	3.00E-03												
Copper	mg/L	7.20E-02	1.27E-02	6.23E-01	6.54E-03												
Iron	mg/L	2.32E+02	1.96E+01	4.70E+00	1.00E+00												
Lead	mg/L	4.70E-02	8.67E-03	1.50E-02	1.32E-03	1.60E+00		YES	YES	YES	YES	9.05E-01		YES	YES	YES	YES
Magnesium	mg/L	2.44E+01	1.10E+01	NA	8.20E+01												
Manganese	mg/L	6.06E+00	5.65E-01	6.40E-01	8.00E-02												
Mercury	mg/L	NA	NA	4.25E-03	1.20E-05												
Potassium	mg/L	7.12E+00	2.56E+00	NA	5.30E+01												
Selenium	mg/L	NA	NA	7.82E-02	5.00E-03												
Silver	mg/L	NA	NA	7.90E-02	1.20E-05												
Sodium	mg/L	1.52E+01	3.44E+00	NA	6.80E+02												
Thallium	mg/L	4.20E-03	2.49E-03	1.02E-03	4.00E-03												
Vanadium	mg/L	3.60E-02	1.52E-02	7.90E-02	1.90E-02												
Zinc	mg/L	1.82E-01	4.04E-02	4.65E+00	5.89E-02												
NITROAROMATICS																	
2-Nitrotoluene	mg/L	NA	NA	1.43E-01	NA												
VOLATILE ORGANIC COMPOUNDS																	
Acetone	mg/L	NA	NA	1.57E+00	7.80E+01												
Methylene chloride	mg/L	NA	NA	1.42E-01	1.93E+00												

Table 3-5

Surface Water Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date						SAR-85-SW/SD07 SAR-85 HS2007 8-Aug-00						SAR-85-SW/SD08 SAR-85 HS2008 8-Aug-00					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV	Result	Qual	>UBR	>BKG	>SSSL	>ESV
PESTICIDES																	
4,4'-DDE	mg/L	NA	NA	1.04E-03	1.05E-02							ND					
METALS																	
Aluminum	mg/L	4.78E+01	5.26E+00	1.53E+01	8.70E-02							8.84E-02	B				YES
Arsenic	mg/L	1.10E-02	2.17E-03	7.30E-04	1.90E-01							ND					
Barium	mg/L	2.00E-01	7.54E-02	1.10E+00	3.90E-03							1.40E-02	J				YES
Beryllium	mg/L	3.20E-03	3.90E-04	1.75E-02	5.30E-04							ND					
Calcium	mg/L	6.41E+01	2.52E+01	NA	1.16E+02							8.18E-01	J				
Cobalt	mg/L	NA	NA	9.31E-01	3.00E-03							ND					
Copper	mg/L	7.20E-02	1.27E-02	6.23E-01	6.54E-03							9.81E-02	J	YES	YES		YES
Iron	mg/L	2.32E+02	1.96E+01	4.70E+00	1.00E+00							4.56E-01					
Lead	mg/L	4.70E-02	8.67E-03	1.50E-02	1.32E-03	1.57E+00		YES	YES	YES	YES	8.75E-02		YES	YES	YES	YES
Magnesium	mg/L	2.44E+01	1.10E+01	NA	8.20E+01							4.19E-01	J				
Manganese	mg/L	6.06E+00	5.65E-01	6.40E-01	8.00E-02							2.83E-02					
Mercury	mg/L	NA	NA	4.25E-03	1.20E-05							6.60E-05	B				YES
Potassium	mg/L	7.12E+00	2.56E+00	NA	5.30E+01							1.55E+00	J				
Selenium	mg/L	NA	NA	7.82E-02	5.00E-03							ND					
Silver	mg/L	NA	NA	7.90E-02	1.20E-05							ND					
Sodium	mg/L	1.52E+01	3.44E+00	NA	6.80E+02							1.02E+00	J				
Thallium	mg/L	4.20E-03	2.49E-03	1.02E-03	4.00E-03							ND					
Vanadium	mg/L	3.60E-02	1.52E-02	7.90E-02	1.90E-02							ND					
Zinc	mg/L	1.82E-01	4.04E-02	4.65E+00	5.89E-02							2.09E-02					
NITROAROMATICS																	
2-Nitrotoluene	mg/L	NA	NA	1.43E-01	NA												
VOLATILE ORGANIC COMPOUNDS																	
Acetone	mg/L	NA	NA	1.57E+00	7.80E+01							1.10E-03	B				
Methylene chloride	mg/L	NA	NA	1.42E-01	1.93E+00							ND					

Table 3-5

Surface Water Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date						SAR-85-SW/SD09 SAR-85 HS2009 8-Aug-00					
Parameter	Units	UBR[a]	BKG[b]	SSSL[c]	ESV[c]	Result	Qual	>UBR	>BKG	>SSSL	>ESV
PESTICIDES											
4,4'-DDE	mg/L	NA	NA	1.04E-03	1.05E-02	ND					
METALS											
Aluminum	mg/L	4.78E+01	5.26E+00	1.53E+01	8.70E-02	5.23E-01					YES
Arsenic	mg/L	1.10E-02	2.17E-03	7.30E-04	1.90E-01	ND					
Barium	mg/L	2.00E-01	7.54E-02	1.10E+00	3.90E-03	3.86E-02	J				YES
Beryllium	mg/L	3.20E-03	3.90E-04	1.75E-02	5.30E-04	ND					
Calcium	mg/L	6.41E+01	2.52E+01	NA	1.16E+02	4.59E-01	J				
Cobalt	mg/L	NA	NA	9.31E-01	3.00E-03	4.70E-03	J				YES
Copper	mg/L	7.20E-02	1.27E-02	6.23E-01	6.54E-03	9.00E-03	B				YES
Iron	mg/L	2.32E+02	1.96E+01	4.70E+00	1.00E+00	5.23E+00				YES	YES
Lead	mg/L	4.70E-02	8.67E-03	1.50E-02	1.32E-03	2.65E-02			YES	YES	YES
Magnesium	mg/L	2.44E+01	1.10E+01	NA	8.20E+01	3.38E-01	J				
Manganese	mg/L	6.06E+00	5.65E-01	6.40E-01	8.00E-02	1.79E-01					YES
Mercury	mg/L	NA	NA	4.25E-03	1.20E-05	7.40E-05	B				YES
Potassium	mg/L	7.12E+00	2.56E+00	NA	5.30E+01	1.30E+00	J				
Selenium	mg/L	NA	NA	7.82E-02	5.00E-03	ND					
Silver	mg/L	NA	NA	7.90E-02	1.20E-05	ND					
Sodium	mg/L	1.52E+01	3.44E+00	NA	6.80E+02	9.70E-01	J				
Thallium	mg/L	4.20E-03	2.49E-03	1.02E-03	4.00E-03	ND					
Vanadium	mg/L	3.60E-02	1.52E-02	7.90E-02	1.90E-02	2.00E-03	J				
Zinc	mg/L	1.82E-01	4.04E-02	4.65E+00	5.89E-02	8.00E-03	J				
NITROAROMATICS											
2-Nitrotoluene	mg/L	NA	NA	1.43E-01	NA						
VOLATILE ORGANIC COMPOUNDS											
Acetone	mg/L	NA	NA	1.57E+00	7.80E+01	2.10E-03	B				
Methylene chloride	mg/L	NA	NA	1.42E-01	1.93E+00	ND					

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

[a] UBR - Upper background range as given in Science Applications International Corporation (SAIC), 1998, *Final Background Metals Survey Report, Fort McClellan, Alabama*, July.

[b] BKG - Background. Concentration listed is two times (2x) the arithmetic mean of background metals concentration given in SAIC, 1998.

[c] Recreational site user 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,*

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 an estimated concentration.

mg/L - Milligrams per liter.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.

Table 3-6

Groundwater Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date					HR-77Q-MW01 SAR-77 HPP3001 7-Nov-01					HR-77Q-MW02 SAR-77 HPP3002 13-Nov-01					HR-77Q-MW03 SAR-77 HPP3004 5-Nov-01				
Parameter	Units	UBR [a]	BKG [b]	SSSL [c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
METALS																			
Aluminum	mg/L	9.60E+00	2.34E+00	1.56E+00	5.96E-01					9.00E-02	J				7.70E-02	J			
Arsenic	mg/L	2.24E-01	1.78E-02	4.40E-05	ND					ND					ND				
Barium	mg/L	4.01E-01	1.27E-01	1.10E-01	1.81E-02					3.07E-02					9.38E-03	J			
Calcium	mg/L	4.52E+02	5.65E+01	NA	1.71E+00					5.59E+00					1.35E+00				
Chromium	mg/L	NA	NA	4.69E-03	ND					8.97E-03	B			YES	ND				
Cobalt	mg/L	2.50E-02	2.34E-02	9.39E-02	ND					ND					ND				
Copper	mg/L	2.35E-01	2.55E-02	6.26E-02	ND					ND					ND				
Iron	mg/L	2.58E+01	7.04E+00	4.69E-01	1.67E-01	J				8.01E-02	J				1.64E-01	J			
Lead	mg/L	2.70E-02	8.00E-03	1.50E-02	ND					ND					ND				
Magnesium	mg/L	1.49E+02	2.13E+01	NA	8.14E-01	J				1.21E+00					4.13E-01	J			
Manganese	mg/L	5.82E+00	5.81E-01	7.35E-02	2.35E-02	J				2.98E-02	J				3.45E-02	J			
Potassium	mg/L	6.85E+01	7.20E+00	NA	2.48E+00	J				5.09E+00					2.11E+00	J			
Selenium	mg/L	NA	NA	7.82E-03	ND					ND					ND				
Sodium	mg/L	6.47E+01	1.48E+01	NA	1.33E+00					1.98E+00					9.93E-01	J			
Thallium	mg/L	5.30E-03	1.46E-03	1.01E-04	ND					3.80E-03	B		YES	YES	ND				
Vanadium	mg/L	1.10E-02	1.70E-02	1.10E-02	ND					5.07E-03	B				ND				
Zinc	mg/L	1.16E+00	2.20E-01	4.69E-01	ND					ND					ND				
NITROAROMATICS																			
2,4-Dinitrotoluene	mg/L	NA	NA	9.70E-05	ND					ND					ND				
2-Amino-4,6-dinitrotoluene	mg/L	NA	NA	9.30E-05	3.20E-04	J			YES	ND					ND				
2-Nitrotoluene	mg/L	NA	NA	1.53E-02	2.60E-04	J				5.30E-04					1.70E-03				
4-Amino-2,6-dinitrotoluene	mg/L	NA	NA	9.30E-05	ND					3.30E-04	J			YES	ND				
VOLATILE ORGANIC COMPOUNDS																			
2-Butanone	mg/L	NA	NA	7.14E-01	ND					ND					ND				
Acetone	mg/L	NA	NA	1.56E-01	ND					ND					ND				
Bromodichloromethane	mg/L	NA	NA	1.08E-03	ND					ND					ND				
Chloroform	mg/L	NA	NA	1.15E-03	ND					2.70E-04	J				ND				
Dibromochloromethane	mg/L	NA	NA	7.91E-04	ND					ND					ND				
Methylene chloride	mg/L	NA	NA	7.85E-03	ND					5.90E-04	B				ND				

Table 3-6

Groundwater Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date					HR-77Q-MW04 SAR-77 HPP3005 6-Nov-01					HR-78Q-MW01 SAR-78 HQQ3001 7-Nov-01					HR-78Q-MW02 SAR-78 HQQ3002 10-Nov-01				
Parameter	Units	UBR [a]	BKG [b]	SSSL [c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
METALS																			
Aluminum	mg/L	9.60E+00	2.34E+00	1.56E+00	3.83E+00			YES	YES	1.01E-01	B				2.31E+00				YES
Arsenic	mg/L	2.24E-01	1.78E-02	4.40E-05	ND					1.80E-03	J			YES	2.31E-03	B			YES
Barium	mg/L	4.01E-01	1.27E-01	1.10E-01	7.63E-02					1.41E-02					3.69E-02				
Calcium	mg/L	4.52E+02	5.65E+01	NA	4.95E+00					9.69E-01	J				2.89E+00				
Chromium	mg/L	NA	NA	4.69E-03	ND					ND					ND				
Cobalt	mg/L	2.50E-02	2.34E-02	9.39E-02	ND					ND					ND				
Copper	mg/L	2.35E-01	2.55E-02	6.26E-02	7.86E-03	J				ND					1.22E-02	B			
Iron	mg/L	2.58E+01	7.04E+00	4.69E-01	1.15E+00				YES	2.15E-01	J				1.15E+00				YES
Lead	mg/L	2.70E-02	8.00E-03	1.50E-02	ND					ND					3.40E-03	J			
Magnesium	mg/L	1.49E+02	2.13E+01	NA	1.44E+00					4.63E-01	J				1.23E+00				
Manganese	mg/L	5.82E+00	5.81E-01	7.35E-02	1.35E-01				YES	1.47E-01				YES	6.58E-02	J			
Potassium	mg/L	6.85E+01	7.20E+00	NA	1.36E+01			YES		1.11E+00	J				1.60E+00	J			
Selenium	mg/L	NA	NA	7.82E-03	ND					4.31E-03	B				3.21E-03	J			
Sodium	mg/L	6.47E+01	1.48E+01	NA	2.47E+00					1.13E+00					3.24E+00				
Thallium	mg/L	5.30E-03	1.46E-03	1.01E-04	ND					ND					ND				
Vanadium	mg/L	1.10E-02	1.70E-02	1.10E-02	ND					ND					ND				
Zinc	mg/L	1.16E+00	2.20E-01	4.69E-01	5.00E-02	J				ND					ND				
NITROAROMATICS																			
2,4-Dinitrotoluene	mg/L	NA	NA	9.70E-05	ND					ND					ND				
2-Amino-4,6-dinitrotoluene	mg/L	NA	NA	9.30E-05	ND					ND					ND				
2-Nitrotoluene	mg/L	NA	NA	1.53E-02	ND					ND					ND				
4-Amino-2,6-dinitrotoluene	mg/L	NA	NA	9.30E-05	2.10E-04	J			YES	ND					ND				
VOLATILE ORGANIC COMPOUNDS																			
2-Butanone	mg/L	NA	NA	7.14E-01	2.70E-03	B				ND					ND				
Acetone	mg/L	NA	NA	1.56E-01	4.10E-03	B				ND					ND				
Bromodichloromethane	mg/L	NA	NA	1.08E-03	2.50E-04	J				ND					ND				
Chloroform	mg/L	NA	NA	1.15E-03	4.30E-04	J				ND					ND				
Dibromochloromethane	mg/L	NA	NA	7.91E-04	2.20E-04	J				ND					ND				
Methylene chloride	mg/L	NA	NA	7.85E-03	ND					ND					ND				

Table 3-6

Groundwater Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location					HR-78Q-MW03					HR-80Q-MW02					HR-80Q-MW03				
Parcel					SAR-78					HR-80Q					HR-80Q				
Sample Number					HQQ3004					QB3002					QB3003				
Sample Date					8-Nov-01					7-Aug-01					7-Aug-01				
Parameter	Units	UBR [a]	BKG [b]	SSSL [c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
METALS																			
Aluminum	mg/L	9.60E+00	2.34E+00	1.56E+00	1.34E-01	B				ND					6.90E-02	B			
Arsenic	mg/L	2.24E-01	1.78E-02	4.40E-05	ND					ND					ND				
Barium	mg/L	4.01E-01	1.27E-01	1.10E-01	3.35E-02					1.14E-01				YES	6.72E-02				
Calcium	mg/L	4.52E+02	5.65E+01	NA	1.69E+00					2.27E+00					3.42E+00				
Chromium	mg/L	NA	NA	4.69E-03	ND					ND					ND				
Cobalt	mg/L	2.50E-02	2.34E-02	9.39E-02	ND					2.29E-02	B				ND				
Copper	mg/L	2.35E-01	2.55E-02	6.26E-02	ND					4.22E-03	B				ND				
Iron	mg/L	2.58E+01	7.04E+00	4.69E-01	9.22E-01	J			YES	1.27E-01	B				8.79E-02	B			
Lead	mg/L	2.70E-02	8.00E-03	1.50E-02	ND					1.47E-03	J				ND				
Magnesium	mg/L	1.49E+02	2.13E+01	NA	7.70E-01	J				1.15E+00					1.20E+00				
Manganese	mg/L	5.82E+00	5.81E-01	7.35E-02	8.50E-01			YES	YES	2.43E+00			YES	YES	4.08E-01				YES
Potassium	mg/L	6.85E+01	7.20E+00	NA	2.11E+00	J				4.98E+00	J				8.72E+00			YES	
Selenium	mg/L	NA	NA	7.82E-03	3.04E-03	B				8.00E-03	B			YES	ND				
Sodium	mg/L	6.47E+01	1.48E+01	NA	1.38E+00					2.17E+00					1.81E+00				
Thallium	mg/L	5.30E-03	1.46E-03	1.01E-04	ND					ND					ND				
Vanadium	mg/L	1.10E-02	1.70E-02	1.10E-02	ND					ND					ND				
Zinc	mg/L	1.16E+00	2.20E-01	4.69E-01	ND					ND					ND				
NITROAROMATICS																			
2,4-Dinitrotoluene	mg/L	NA	NA	9.70E-05	ND					ND					ND				
2-Amino-4,6-dinitrotoluene	mg/L	NA	NA	9.30E-05	ND					ND					ND				
2-Nitrotoluene	mg/L	NA	NA	1.53E-02	ND					ND					ND				
4-Amino-2,6-dinitrotoluene	mg/L	NA	NA	9.30E-05	ND					ND					ND				
VOLATILE ORGANIC COMPOUNDS																			
2-Butanone	mg/L	NA	NA	7.14E-01	ND														
Acetone	mg/L	NA	NA	1.56E-01	ND														
Bromodichloromethane	mg/L	NA	NA	1.08E-03	ND														
Chloroform	mg/L	NA	NA	1.15E-03	ND														
Dibromochloromethane	mg/L	NA	NA	7.91E-04	ND														
Methylene chloride	mg/L	NA	NA	7.85E-03	ND														

Table 3-6

Groundwater Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location					HR-80Q-MW04					HR-80Q-MW05					HR-80Q-MW06				
Parcel					HR-80Q					HR-80Q					HR-80Q				
Sample Number					QB3005					QB3006					QB3007				
Sample Date					2-Aug-01					8-Aug-01					1-Aug-01				
Parameter	Units	UBR [a]	BKG [b]	SSSL [c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
METALS																			
Aluminum	mg/L	9.60E+00	2.34E+00	1.56E+00	4.19E-01					1.90E-01	B				ND				
Arsenic	mg/L	2.24E-01	1.78E-02	4.40E-05	ND					ND					ND				
Barium	mg/L	4.01E-01	1.27E-01	1.10E-01	1.41E-02					7.59E-02					6.96E-03	B			
Calcium	mg/L	4.52E+02	5.65E+01	NA	2.53E+00					1.21E+00					1.36E+00				
Chromium	mg/L	NA	NA	4.69E-03	ND					ND					ND				
Cobalt	mg/L	2.50E-02	2.34E-02	9.39E-02	ND					ND					ND				
Copper	mg/L	2.35E-01	2.55E-02	6.26E-02	ND					ND					ND				
Iron	mg/L	2.58E+01	7.04E+00	4.69E-01	7.70E-02	B				1.03E+01			YES	YES	ND				
Lead	mg/L	2.70E-02	8.00E-03	1.50E-02	1.41E-03	J				ND					ND				
Magnesium	mg/L	1.49E+02	2.13E+01	NA	3.45E-01	J				5.47E-01	B				1.63E-01	J			
Manganese	mg/L	5.82E+00	5.81E-01	7.35E-02	7.32E-02					6.33E-01			YES	YES	6.10E-02				
Potassium	mg/L	6.85E+01	7.20E+00	NA	2.61E+00	J				2.30E+00	J				2.51E+00	J			
Selenium	mg/L	NA	NA	7.82E-03	ND					ND					ND				
Sodium	mg/L	6.47E+01	1.48E+01	NA	7.03E-01	J				2.41E+00					3.34E+00				
Thallium	mg/L	5.30E-03	1.46E-03	1.01E-04	ND					ND					ND				
Vanadium	mg/L	1.10E-02	1.70E-02	1.10E-02	ND					ND					ND				
Zinc	mg/L	1.16E+00	2.20E-01	4.69E-01	ND					1.56E-02	B				ND				
NITROAROMATICS																			
2,4-Dinitrotoluene	mg/L	NA	NA	9.70E-05	ND					ND					ND				
2-Amino-4,6-dinitrotoluene	mg/L	NA	NA	9.30E-05	ND					ND					ND				
2-Nitrotoluene	mg/L	NA	NA	1.53E-02	ND					ND					ND				
4-Amino-2,6-dinitrotoluene	mg/L	NA	NA	9.30E-05	ND					ND					6.10E-04				YES
VOLATILE ORGANIC COMPOUNDS																			
2-Butanone	mg/L	NA	NA	7.14E-01															
Acetone	mg/L	NA	NA	1.56E-01															
Bromodichloromethane	mg/L	NA	NA	1.08E-03															
Chloroform	mg/L	NA	NA	1.15E-03															
Dibromochloromethane	mg/L	NA	NA	7.91E-04															
Methylene chloride	mg/L	NA	NA	7.85E-03															

Table 3-6

Groundwater Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date					HR-85Q-MW01 SAR-85 HSS3001 8-Nov-01					HR-85Q-MW02 SAR-85 HSS3002 1-Nov-01				
Parameter	Units	UBR [a]	BKG [b]	SSSL [c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
METALS														
Aluminum	mg/L	9.60E+00	2.34E+00	1.56E+00	1.95E+00				YES	1.30E+00	J			
Arsenic	mg/L	2.24E-01	1.78E-02	4.40E-05	ND					ND				
Barium	mg/L	4.01E-01	1.27E-01	1.10E-01	1.39E-01			YES	YES	4.60E-02				
Calcium	mg/L	4.52E+02	5.65E+01	NA	7.24E-01	B				4.45E+00				
Chromium	mg/L	NA	NA	4.69E-03	ND					ND				
Cobalt	mg/L	2.50E-02	2.34E-02	9.39E-02	1.54E-02	B				1.76E-02	J			
Copper	mg/L	2.35E-01	2.55E-02	6.26E-02	3.65E-02			YES		ND				
Iron	mg/L	2.58E+01	7.04E+00	4.69E-01	1.54E+00				YES	6.06E-01	J			YES
Lead	mg/L	2.70E-02	8.00E-03	1.50E-02	3.07E-03	J				ND				
Magnesium	mg/L	1.49E+02	2.13E+01	NA	1.50E+00					1.16E+00				
Manganese	mg/L	5.82E+00	5.81E-01	7.35E-02	1.26E+00			YES	YES	2.95E-02	J			
Potassium	mg/L	6.85E+01	7.20E+00	NA	5.26E+00					4.38E+00	J			
Selenium	mg/L	NA	NA	7.82E-03	3.15E-03	B				ND				
Sodium	mg/L	6.47E+01	1.48E+01	NA	1.37E+00					2.78E+00				
Thallium	mg/L	5.30E-03	1.46E-03	1.01E-04	ND					ND				
Vanadium	mg/L	1.10E-02	1.70E-02	1.10E-02	6.42E-03	J				ND				
Zinc	mg/L	1.16E+00	2.20E-01	4.69E-01	ND					ND				
NITROAROMATICS														
2,4-Dinitrotoluene	mg/L	NA	NA	9.70E-05	2.00E-04	J			YES	ND				
2-Amino-4,6-dinitrotoluene	mg/L	NA	NA	9.30E-05	ND					ND				
2-Nitrotoluene	mg/L	NA	NA	1.53E-02	ND					ND				
4-Amino-2,6-dinitrotoluene	mg/L	NA	NA	9.30E-05	2.00E-03	J			YES	ND				
VOLATILE ORGANIC COMPOUNDS														
2-Butanone	mg/L	NA	NA	7.14E-01	ND					ND				
Acetone	mg/L	NA	NA	1.56E-01	3.60E-03	B				ND				
Bromodichloromethane	mg/L	NA	NA	1.08E-03	ND					ND				
Chloroform	mg/L	NA	NA	1.15E-03	ND					ND				
Dibromochloromethane	mg/L	NA	NA	7.91E-04	ND					ND				
Methylene chloride	mg/L	NA	NA	7.85E-03	ND					ND				

Table 3-6

Groundwater Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date					HR-85Q-MW03 SAR-85 HSS3004 6-Nov-01					HR-85Q-MW05 SAR-85 HSS3006 2-Nov-01				
Parameter	Units	UBR [a]	BKG [b]	SSSL [c]	Result	Qual	>UBR	>BKG	>SSSL	Result	Qual	>UBR	>BKG	>SSSL
METALS														
Aluminum	mg/L	9.60E+00	2.34E+00	1.56E+00	4.66E+00			YES	YES	5.99E-01				
Arsenic	mg/L	2.24E-01	1.78E-02	4.40E-05	ND					ND				
Barium	mg/L	4.01E-01	1.27E-01	1.10E-01	7.43E-02					5.52E-02				
Calcium	mg/L	4.52E+02	5.65E+01	NA	1.73E+00					1.83E+00				
Chromium	mg/L	NA	NA	4.69E-03	ND					ND				
Cobalt	mg/L	2.50E-02	2.34E-02	9.39E-02	1.25E-02	J				ND				
Copper	mg/L	2.35E-01	2.55E-02	6.26E-02	ND					ND				
Iron	mg/L	2.58E+01	7.04E+00	4.69E-01	4.91E+00				YES	6.34E+00				YES
Lead	mg/L	2.70E-02	8.00E-03	1.50E-02	1.51E-03	J				ND				
Magnesium	mg/L	1.49E+02	2.13E+01	NA	9.05E-01	J				1.05E+00				
Manganese	mg/L	5.82E+00	5.81E-01	7.35E-02	5.43E-01				YES	1.53E-01				YES
Potassium	mg/L	6.85E+01	7.20E+00	NA	1.64E+00	J				1.57E+00	J			
Selenium	mg/L	NA	NA	7.82E-03	ND					ND				
Sodium	mg/L	6.47E+01	1.48E+01	NA	9.92E-01	J				8.67E-01	J			
Thallium	mg/L	5.30E-03	1.46E-03	1.01E-04	ND					ND				
Vanadium	mg/L	1.10E-02	1.70E-02	1.10E-02	ND					ND				
Zinc	mg/L	1.16E+00	2.20E-01	4.69E-01	ND					ND				
NITROAROMATICS														
2,4-Dinitrotoluene	mg/L	NA	NA	9.70E-05	ND					ND				
2-Amino-4,6-dinitrotoluene	mg/L	NA	NA	9.30E-05	ND					ND				
2-Nitrotoluene	mg/L	NA	NA	1.53E-02	ND					ND				
4-Amino-2,6-dinitrotoluene	mg/L	NA	NA	9.30E-05	ND					ND				
VOLATILE ORGANIC COMPOUNDS														
2-Butanone	mg/L	NA	NA	7.14E-01	ND					ND				
Acetone	mg/L	NA	NA	1.56E-01	ND					ND				
Bromodichloromethane	mg/L	NA	NA	1.08E-03	ND					ND				
Chloroform	mg/L	NA	NA	1.15E-03	ND					ND				
Dibromochloromethane	mg/L	NA	NA	7.91E-04	ND					ND				
Methylene chloride	mg/L	NA	NA	7.85E-03	ND					ND				

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

[a] UBR - Upper background range as given in Science Applications International Corporation (SAIC), 1998, *Final Background Metals Survey Report, Fort McClellan, Alabama*, July.

[b] BKG - Background. Concentration listed is two times (2x) the arithmetic mean of background metals concentration given in SAIC, 1998.

[c] 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 an estimated concentration.

mg/L - Milligrams per liter.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.

Table 3-7

Seep Sample Analytical Results
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location Parcel Sample Number Sample Date						SAR-85-SEEP01 SAR-85 HS3001 8-Mar-01					
Parameter	**Units**	**UBR[a]**	**BKG[b]**	**SSSL[c]**	**ESV[c]**	**Result**	**Qual**	**>UBR**	**>BKG**	**>SSSL**	**>ESV**
METALS											
Aluminum	mg/L	4.78E+01	5.26E+00	1.53E+01	8.70E-02	1.49E-01	J				YES
Barium	mg/L	2.00E-01	7.54E-02	1.10E+00	3.90E-03	2.08E-02					YES
Calcium	mg/L	6.41E+01	2.52E+01	NA	1.16E+02	2.82E+00					
Iron	mg/L	2.32E+02	1.96E+01	4.70E+00	1.00E+00	1.99E-01	J				
Magnesium	mg/L	2.44E+01	1.10E+01	NA	8.20E+01	1.51E+00					
Manganese	mg/L	6.06E+00	5.65E-01	6.40E-01	8.00E-02	1.15E-02					
Sodium	mg/L	1.52E+01	3.44E+00	NA	6.80E+02	8.59E-01	J				

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

[a] UBR - Upper background range as given in Science Applications International Corporation (SAIC), 1998, *Final Background Metals Survey Report, Fort McClellan, Alabama*, July.

[b] BKG - Background. Concentration listed is two times (2x) the arithmetic mean of background metals concentration given in SAIC, 1998.

[c] Recreational site user 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 - Compound was positively identified; reported value is an estimated concentration.

mg/L - Milligrams per liter.

NA - Not available.

ND - Not detected.

Qual - Data validation qualifier.

Table 3-8

Groundwater and Surface Water Field Parameters
Bains Gap Road Ranges, Parcels 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Sample Location	Sample Media	Sample Date	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Temperature (°C)	Turbidity (NTU)	pH (SU)
HR-77Q-MW01	GW	7-Nov-01	0.029	6.3	295	19.9	4	5.39
HR-77Q-MW02	GW	13-Nov-01	0.03	1.92	418	17.31	7.8	4.94
HR-77Q-MW03	GW	5-Nov-01	0.038	0.11	278	20.2	1	5.12
HR-77Q-MW04	GW	6-Nov-01	0.116	4.36	176	16.49	999	5.59
HR-78Q-MW01	GW	7-Nov-01	0.021	4.93	230	21.9	8.9	5.21
HR-78Q-MW02	GW	10-Nov-01	0.034	2.28	406	16.9	172	5.16
HR-78Q-MW03	GW	8-Nov-01	0.055	0.37	195	20	9.2	5.35
HR-78Q-SW/SD01	SW	26-Sep-01	0.026	9.78	145	15.2	0	5.85
HR-80Q-MW02	GW	7-Aug-01	0.064	3.17	145	23.94	3.4	5.79
HR-80Q-MW03	GW	7-Aug-01	0.075	3.3	145	24.12	5.1	6.12
HR-80Q-MW04	GW	2-Aug-01	0.034	11.13	233	29.63	9.6	5.68
HR-80Q-MW05	GW	8-Aug-01	0.056	13.2	-18	24.92	9.8	6.22
HR-80Q-MW06	GW	1-Aug-01	0.04	10.93	248	26.53	7.3	5.53
HR-80Q-SW/SD02	SW	27-Aug-01	0.023	6.55	135	22.4	10	6.95
HR-80Q-SW/SD02	SW	4-Feb-02	0.027	11.1	123	9.82	0.1	5.49
HR-80Q-SW/SD03	SW	28-Aug-01	0.025	7.17	120	20.2	4	5.57
HR-80Q-SW/SD03	SW	4-Feb-02	0.024	12.22	174	10.83	0.1	5.56
HR-80Q-SW/SD04	SW	27-Aug-01	0.037	7.77	120	22.8	10	6.8
HR-80Q-SW/SD04	SW	30-Jan-02	0.023	10.19	265	12.45	0.7	5.19
HR-80Q-SW/SD06	SW	27-Sep-01	0.049	3.25	65	17.4	1	5.18
HR-80Q-SW/SD06	SW	5-Feb-02	0.042	11.81	262	6.84	0	4.56
HR-80Q-SW/SD07	SW	27-Aug-01	0.02	2.61	155	23	10	6.97
HR-80Q-SW/SD07	SW	5-Feb-02	0.024	11.55	232	9.01	2.1	5.19
HR-85Q-MW01	GW	8-Nov-01	0.08	0.037	180	15.03	193	5.99
HR-85Q-MW02	GW	1-Nov-01	0.056	3.42	409	24.5	40	5.62
HR-85Q-MW03	GW	6-Nov-01	0.053	NR	82	19.84	38.8	5.5
HR-85Q-MW05	GW	2-Nov-01	0.048	NR	130	22.3	4.4	5.3
HR-85Q-SW/SD01	SW	25-Sep-01	0.067	10.7	140	14.8	0	5.94
HR-85Q-SW/SD02	SW	30-Aug-01	0.055	6.44	65	21.7	0	5.82
HR-85Q-SW/SD02	SW	1-Nov-01	0.055	6.44	62	19.8	0	5.11

GW - Groundwater.
mg/L - Milligrams per liter.
mS/cm - Millisiemens per centimeter.
mV - Millivolts.
NTU - Nephelometric turbidity units.
ORP - Oxidation-reduction potential.
SU - Standard units.
SW - Surface Water.
NR - not recorded.

Table 3-9

Monitoring Well Construction Summary
Bains Gap Road Ranges, Parcel 80Q, 77Q, 78Q, and 85Q
Fort McClellan, Calhoun County, Alabama

Well Location	Northing	Easting	Ground Elevation (ft amsl)	TOC Elevation (ft amsl)	Well Depth (ft bgs)	Screen Length (ft)	Screen Interval (ft bgs)	Well Material
HR-77Q-MW01	1168961.11	680694.32	948.73	950.71	53.3	20	33.3 - 53.3	2" ID Sch. 40 PVC
HR-77Q-MW02	1168937.58	680701.72	951.07	953.31	98	20	78 - 98	4" ID Sch. 40 PVC
HR-77Q-MW03	1169459.76	680544.44	932.55	934.67	25	15	10 - 25	2" ID Sch. 40 PVC
HR-77Q-MW04	1168917.00	680049.53	941.66	943.72	27	15	12 - 27	2" ID Sch. 40 PVC
HR-78Q-MW01	1169324.11	679799.25	927.79	929.52	37.8	15	22.8 - 37.8	2" ID Sch. 40 PVC
HR-78Q-MW02	1169311.09	679793.63	926.21	928.38	95	20	75 - 95	4" ID Sch. 40 PVC
HR-78Q-MW03	1169377.82	679374.17	905.61	907.71	14	10	4 - 14	2" ID Sch. 40 PVC
HR-80Q-MW01	1169171.10	681924.19	1004.29	1006.28	6.9	5	1.9 - 6.9	2" ID Sch. 40 PVC
HR-80Q-MW02	1168987.93	681902.43	995.96	998.03	18	10	8 - 18	2" ID Sch. 40 PVC
HR-80Q-MW03	1168961.59	681793.72	990.20	992.29	18	10	8 - 18	2" ID Sch. 40 PVC
HR-80Q-MW04	1168715.50	681686.53	990.13	992.19	25	10	15 - 25	2" ID Sch. 40 PVC
HR-80Q-MW05	1168913.66	681521.41	978.81	980.52	14	10	4 - 14	2" ID Sch. 40 PVC
HR-80Q-MW06	1168560.44	681683.18	1008.33	1010.50	30	10	20 - 30	2" ID Sch. 40 PVC
HR-85Q-MW01	1168968.43	678235.30	878.67	880.69	55	20	35 - 55	2" ID Sch. 40 PVC
HR-85Q-MW02	1168972.89	678244.91	879.20	881.32	100	20	80 - 100	4" ID Sch. 40 PVC
HR-85Q-MW03	1169153.40	678902.80	892.95	895.16	15	10	5 - 15	2" ID Sch. 40 PVC
HR-85Q-MW05	1169116.13	678657.45	887.20	889.12	13	10	3 - 13	2" ID Sch. 40 PVC

Permanent wells installed using hollow-stem auger.

Horizontal coordinates referenced to the U.S. State Plane Coordinate System, Alabama East Zone, North American Datum of 1983 (NAD83).

Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).

2" ID Sch. 40 PVC - 2-inch inside diameter, Schedule 40, polyvinyl chloride.

amsl - Above mean sea level.

bgs - Below ground surface.

ft - Feet.

Table 3-10

Summary of BGR Range Safety Fan - XRF Investigation Data
Fort McClellan, Calhoun County, Alabama

(Page 1 of 2)

Sample Location	XRF Result (mg/kg)	
	Lead	Qual
BGR-XRF01	46.4	J
BGR-XRF02	52.3	J
BGR-XRF03	47.3	J
BGR-XRF04	272	
BGR-XRF05	390	
BGR-XRF06	59	J
BGR-XRF07	45.4	J
BGR-XRF08	60.7	J
BGR-XRF09	77.4	J
BGR-XRF10	22.6	U
BGR-XRF11	30.3	U
BGR-XRF12	45.8	J
BGR-XRF13	80	J
BGR-XRF14	46.7	U
BGR-XRF15	47	J
BGR-XRF16	46.8	U
BGR-XRF17	35.6	U
BGR-XRF18	24.7	U
BGR-XRF19	76.9	J
BGR-XRF20	42.1	U
BGR-XRF21	61.1	J
BGR-XRF22	37.6	U
BGR-XRF23	79	J
BGR-XRF24	57.3	J
BGR-XRF25	49.9	U
BGR-XRF26	49.8	J
BGR-XRF27	66.3	J
BGR-XRF28	42.2	U
BGR-XRF29	32.4	U
BGR-XRF30	37.7	U
BGR-XRF31	73.9	J
BGR-XRF32	73.8	J
BGR-XRF33	29.8	U

Table 3-10

Summary of BGR Range Safety Fan - XRF Investigation Data
Fort McClellan, Calhoun County, Alabama

(Page 2 of 2)

Sample Location	XRF Result (mg/kg)	
	Lead	Qual
BGR-XRF34	23.8	U
BGR-XRF35	30.6	U
BGR-XRF36	50.6	J
BGR-XRF37	79.3	J
BGR-XRF38	54.5	J
BGR-XRF39	55.6	J
BGR-XRF40	29.1	U

[1]Other metals were reported only when quantified by the XRF. Empty cell represents no XRF detection for that sample.

Boldface type indicates a sample aliquot was prepared by air drying, crushing, and sieving. The prepared aliquot was analyzed using XRF before shipment to fixed-base laboratory for confirmation analysis. The XRF results shown represent the prepared aliquot.

XRF - x-ray fluorescence.
mg/kg - milligram per kilogram.
BGR - Bains Gap Road ranges - Range 21, Range 22, and Range 27.
STD - standard deviation.
Qual - data qualifier.
U - Lead result was less than 3x the STD of the measurement and is considered not detected.
J - Lead result was less than 10x the STD of the measurement and is considered estimated.

Table 3-11

Comparison of XRF Investigation Data and Confirmation Data
BGR Safety Fan Investigation
Fort McClellan, Calhoun County, Alabama

Sample Location	XRF Result (mg/kg)		Confirmation Result (mg/kg)
	Lead	Qual	
BGR-XRF04[a]	272		433
BGR-XRF10	22.6	U	15.8
BGR-XRF34	23.8	U	37.7
BGR-XRF39	55.6	J	54.8

These sample aliquots were prepared by air drying, crushing, and sieving. The prepared aliquot was analyzed using XRF before shipment to fixed-base laboratory for confirmation analysis. The XRF results shown represent the prepared aliquot. Confirmation analysis was performed by EMAX Laboratory using EPA Method 6010B.

[a] BGR-XRF04 was analyzed by the XRF in duplicate. The duplicate result was 258 mg/kg with a STD of 18. This same location was sent as a field duplicate sample for confirmation analysis. The field duplicate result was 419 mg/kg.

BGR - Bains Gap Road ranges - Range 21, Range 22, and Range 27.
IMR - Iron Mountain Road ranges - Range 19, Range 12, and Range 13.
mg/kg - milligram per kilogram.
Qual - data qualifier.
STD - standard deviation.
XRF - x-ray fluorescence.
U - Lead result was less than 3x the STD of the measurement and is considered not detected.
J - Lead result was less than 10x the STD of the measurement and is considered estimated.

Table 4-1

Statistical Summary of Lead Data From Safety Fans and Background Data
Fort McClellan, Calhoun County, Alabama

Constituent	Background Threshold Value [a] (mg/kg)	Range of Site-Wide Background (mg/kg)	95% UCL Site-Wide Background (mg/kg)	95% UTL Site-Wide Background (mg/kg)	Ecological Screening Value [b] (mg/kg)	Maximum Detected BGR Safety Fan Conc. [c] (mg/kg)	Minimum Detected BGR Safety Fan Conc. (mg/kg)	Mean Detected BGR Safety Fan Conc. [c] (mg/kg)
Lead	40.1	2.89 - 82.8	50.7	63.8	50	80	22.6	50.03

Notes:

[a] Background threshold value is 2-times the arithmetic mean background concentration as reported in "Final Background Metals Survey Report, Ft. McClellan, Alabama" (SAIC, 1998).

[b] Ecological screening values are presented in "Human Health and Ecological Screening Values and PAH Background Summary Report" (IT Corp., 2000).

[c] XRF results for BGR-XRF04 and BGR-XRF05 were not included in the statistical analysis of the data because they were determined to be representative of the inpact zones for Range 24-Upper and Range 21, and not representative of the range safety fans.

Table 4-2

Groundwater Elevations and Monitoring Well Screening Intervals Ranges at Bains Gap Road, Parcels 77Q, 78Q, 80Q and 85Q Fort McClellan, Calhoun County, Alabama

Well Location	Date	Depth to Water (ft BTOC)	Top of Casing Elevation (ft amsl)	Ground Elevation (ft amsl)	Groundwater Elevation (ft amsl)	Screen Interval (ft bgs)	Screen Interval (ft amsl)
HR-77Q-MW01	8-Jan-02	5.8	950.71	948.73	944.91	33.3 - 53.3	915.43 - 895.43
HR-77Q-MW02	8-Jan-02	2.28	953.31	951.07	951.03	78.0 - 98.0	873.07 - 853.07
HR-77Q-MW03	8-Jan-02	6.83	934.67	932.55	927.84	10.0 - 25.0	922.55 - 907.55
HR-77Q-MW04	8-Jan-02	19.05	943.72	941.66	924.67	12.0 - 27.0	929.66 - 914.66
HR-78Q-MW01	8-Jan-02	17.29	929.52	927.79	912.23	22.8 - 37.8	904.99 - 889.99
HR-78Q-MW02	8-Jan-02	14.98	928.38	926.21	913.4	75.0 - 95.0	851.21 - 831.21
HR-78Q-MW03	8-Jan-02	6.72	907.71	905.61	900.99	4.0 - 14.0	901.61 - 891.61
HR-80Q-MW01	9-Jan-02	7.45	1006.28	1004.29	998.83	1.9 - 6.9	1002.4 - 997.39
HR-80Q-MW02	8-Jan-02	7.9	998.03	995.96	990.13	8.0 - 18.0	987.96 - 977.96
HR-80Q-MW03	8-Jan-02	4.14	992.29	990.2	988.15	8.0 - 18.0	982.20 - 972.20
HR-80Q-MW04	8-Jan-02	9.88	992.19	990.13	982.31	15.0 - 25.0	975.13 - 965.13
HR-80Q-MW05	8-Jan-02	4.75	980.52	978.81	975.77	4.0 - 14.0	974.81 - 964.81
HR-80Q-MW06	8-Jan-02	14.9	1010.5	1008.33	995.6	20.0 - 30.0	988.33 - 978.33
HR-85Q-MW01	8-Jan-02	8.17	880.69	878.67	872.52	35.0 - 55.0	843.67 - 823.67
HR-85Q-MW02	8-Jan-02	8.85	881.32	879.2	872.47	80.0 - 100	799.20 - 779.20
HR-85Q-MW03	8-Jan-02	NA	895.16	892.95	NA	5.0 - 15.0	887.95 - 877.95
HR-85Q-MW05	8-Jan-02	27.11	889.12	887.2	862.01	3.0 - 13.0	884.20 - 874.20

Elevations referenced to the North American Vertical Datum of 1988 (NAVD88).

amsl - Above mean sea level
bgs - below ground surface
BTOC - Below top of casing
ft - Feet
NA - Not available

Table 4-3

Feeding Guilds and Potential Exposure Pathways for Terrrestrial Ecosystems at the BGR Ranges Fort McClellan, Calhoun County, Alabama

Trophic Level	Feeding Guild	Exposure Pathways
1	Primary Producers	Direct uptake from soil
2	Terrestrial Invertebrates	Ingestion of soil Direct contact with soil
	Herbivorous Birds	Ingestion of soil Ingestion of surface water Ingestion of terrestrial plants
	Herbivorous Mammals	Ingestion of soil Ingestion of surface water Ingestion of terrestrial plants
3	Omnivorous Birds	Ingestion of soil Ingestion of surface water Ingestion of terrestrial plants Ingestion of terrestrial invertebrates
	Omnivorous Mammals	Ingestion of soil Ingestion of surface water Ingestion of terrestrial plants Ingestion of terrestrial invertebrates Ingestion of prey
	Invertivorous Birds	Ingestion of soil Ingestion of surface water Ingestion of terrestrial invertebrates
	Invertivorous Mammals	Ingestion of soil Ingestion of surface water Ingestion of terrestrial invertebrates
4	Carnivorous Birds (raptors)	Ingestion of soil Ingestion of surface water Ingestion of prey
	Carnivorous Mammals	Ingestion of soil Ingestion of surface water Ingestion of prey

Table 4-4

Feeding Guilds and Potential Exposure Pathways for Freshwater Stream Ecosystems at the BGR Ranges Fort McClellan, Calhoun County, Alabama

Trophic Level	Feeding Guild	Exposure Pathways
1	Primary Producers	Direct uptake from surface water Direct uptake from sediment
2	Benthic Invertebrates	Ingestion of sediment Direct contact with sediment
	Herbivorous Waterfowl	Ingestion of sediment Ingestion of surface water Ingestion of aquatic plants
	Herbivorous Mammals	Ingestion of sediment Ingestion of surface water Ingestion of aquatic plants
	Forage Fish	Ingestion of plankton Ingestion of aquatic plants and algae Absorption through gills
3	Omnivorous Mammals	Ingestion of sediment Ingestion of surface water Ingestion of aquatic plants Ingestion of benthic invertebrates
	Omnivorous Waterfowl	Ingestion of sediment Ingestion of surface water Ingestion of aquatic plants Ingestion of benthic invertebrates
	Invertivorous Waterfowl	Ingestion of sediment Ingestion of surface water Ingestion of benthic invertebrates
4	Piscivorous Mammals	Ingestion of sediment Ingestion of surface water Ingestion of fish
	Piscivorous Birds	Ingestion of sediment Ingestion of surface water Ingestion of fish

Table 4-5

Constituents of Potential Ecological Concern in Surface Soil[a] at Range 21 (Parcel 77Q) Fort McClellan, Calhoun County, Alabama

(Page 1 of 2)

Constituents	Background Threshold Value [b] (mg/kg)	Ecological Screening Value [c] (mg/kg)	Maximum Detected Conc. (mg/kg)	Minimum Detected Conc. (mg/kg)	Mean Detected Conc. (mg/kg)	Frequency of Detection	Maximum Hazard Quotient	Mean Hazard Quotient	Constituent Of Potential Ecological Concern
Metals									
Aluminum	1.63E+04	5.00E+01	1.09E+04	3.62E+03	7.36E+03	9 / 9	218.00	147.16	3
Antimony	1.99E+00	3.50E+00	2.34E+02	6.40E-01	3.14E+01	3 / 9	66.86	8.97	**YES**
Arsenic	1.37E+01	1.00E+01	3.65E+01	2.21E+00	9.20E+00	9 / 9	3.65	0.92	**YES**
Barium	1.24E+02	1.65E+02	1.27E+02	3.60E+01	6.85E+01	9 / 9	0.77	0.42	1
Beryllium	8.00E-01	1.10E+00	8.10E-01	2.67E-01	5.13E-01	8 / 8	0.74	0.47	1
Calcium	1.72E+03	NA	9.01E+03	4.61E+01	1.53E+03	9 / 9	ND	ND	2
Chromium	3.70E+01	4.00E-01	2.72E+01	5.92E+00	1.33E+01	8 / 8	68.00	33.26	3
Cobalt	1.52E+01	2.00E+01	6.30E+00	1.70E+00	3.84E+00	8 / 8	0.32	0.19	1,3
Copper	1.27E+01	4.00E+01	2.89E+04	1.04E+01	4.16E+03	9 / 9	722.50	103.97	**YES**
Iron	3.42E+04	2.00E+02	2.20E+04	1.11E+04	1.58E+04	9 / 9	110.00	78.83	3
Lead	4.01E+01	5.00E+01	3.07E+04	1.42E+01	1.64E+03	55 / 55	614.00	32.82	**YES**
Magnesium	1.03E+03	4.40E+05	4.87E+03	1.23E+02	8.51E+02	9 / 9	0.0111	0.0019	1,2
Manganese	1.58E+03	1.00E+02	4.98E+02	9.48E+01	3.70E+02	9 / 9	4.98	3.70	3
Mercury	8.00E-02	1.00E-01	4.50E-02	2.50E-02	4.01E-02	7 / 9	0.45	0.40	1,3
Nickel	1.03E+01	3.00E+01	6.30E+00	1.79E+00	4.79E+00	8 / 8	0.21	0.16	1,3
Potassium	8.00E+02	NA	8.41E+02	2.03E+02	5.03E+02	8 / 8	ND	ND	2
Selenium	4.80E-01	8.10E-01	9.00E-01	9.00E-01	4.27E-01	1 / 9	1.11	0.53	**YES**
Silver	3.60E-01	2.00E+00	1.10E+00	1.10E+00	6.38E-01	1 / 8	0.55	0.32	1
Sodium	6.34E+02	NA	1.30E+02	4.18E+01	2.17E+02	2 / 9	ND	ND	2,3
Thallium	3.43E+00	1.00E+00	8.20E-01	6.50E-01	7.47E-01	2 / 9	0.82	0.75	1,3
Vanadium	5.88E+01	2.00E+00	2.17E+01	5.86E+00	1.56E+01	9 / 9	10.85	7.80	3
Zinc	4.06E+01	5.00E+01	1.97E+03	1.49E+01	3.10E+02	9 / 9	39.40	6.21	**YES**
Chlorinated Pesticides									
2,4-DB	NA	1.00E-01	6.90E-02	6.90E-02	1.85E-02	1 / 2	0.69	0.19	1
Dichloroprop	NA	1.00E-01	1.20E-02	1.20E-02	9.50E-03	1 / 2	0.12	0.10	1
4,4'-DDE	NA	2.50E-03	3.30E-03	3.30E-03	2.85E-03	1 / 2	1.32	1.14	**YES**
alpha-Chlordane	NA	1.00E-01	8.90E-04	8.90E-04	1.05E-03	1 / 2	0.009	0.010	1
Methoxychlor	NA	1.99E-02	1.50E-02	1.50E-02	1.35E-02	1 / 2	0.75	0.68	1

Table 4-5

Constituents of Potential Ecological Concern in Surface Soil[a] at Range 21 (Parcel 77Q) Fort McClellan, Calhoun County, Alabama

Constituents	Background Threshold Value [b] (mg/kg)	Ecological Screening Value [c] (mg/kg)	Maximum Detected Conc. (mg/kg)	Minimum Detected Conc. (mg/kg)	Mean Detected Conc. (mg/kg)	Frequency of Detection	Maximum Hazard Quotient	Mean Hazard Quotient	Constituent Of Potential Ecological Concern
Semivolatile Organic Compounds									
2,4-Dinitrotoluene	NA	1.28E+00	2.40E-01	1.30E-02	1.40E-01	4 / 9	0.19	0.11	1
Acenaphthylene	NA	6.82E+02	5.50E-02	5.50E-02	1.76E-01	1 / 9	0.0001	0.0003	1
Anthracene	NA	1.00E-01	7.40E-02	2.10E-02	1.60E-01	2 / 9	0.74	1.60	1
Benzo(a)anthracene	NA	5.21E+00	2.80E-01	7.00E-02	1.88E-01	2 / 9	0.054	0.036	1
Benzo(a)pyrene	NA	1.00E-01	2.10E-01	6.30E-03	1.61E-01	3 / 9	2.10	1.61	**YES**
Benzo(b)fluoranthene	NA	5.98E+01	2.70E-01	1.10E-02	1.63E-01	4 / 9	0.0045	0.0027	1
Benzo(ghi)perylene	NA	1.19E+02	1.30E-01	4.80E-02	1.69E-01	2 / 9	0.0011	0.0014	1
Benzo(k)fluoranthene	NA	1.48E+02	2.90E-01	1.10E-02	1.79E-01	3 / 9	0.0020	0.0012	1
bis(2-Ethylhexyl)phthalate	NA	9.26E-01	7.10E-02	7.10E-02	1.76E-01	1 / 8	0.08	0.19	1
Butyl benzyl phthalate	NA	2.39E-01	1.00E-01	1.00E-01	1.81E-01	1 / 9	0.42	0.76	1
Chrysene	NA	4.73E+00	3.30E-01	4.00E-02	1.70E-01	4 / 9	0.070	0.036	1
Dibenz(a,h)anthracene	NA	1.84E+01	5.20E-02	1.70E-02	1.57E-01	2 / 9	0.0028	0.0085	1
Di-n-butyl phthalate	NA	2.00E+02	3.00E-01	4.60E-02	1.69E-01	4 / 9	0.0015	0.0008	1
Fluoranthene	NA	1.00E-01	3.30E-01	1.00E-01	1.97E-01	2 / 9	3.30	1.97	**YES**
Indeno(1,2,3-cd)pyrene	NA	1.09E+02	1.50E-01	5.40E-02	1.72E-01	2 / 9	0.0014	0.0016	1
n-Nitrosodiphenylamine	NA	2.00E+01	4.20E-01	2.00E-02	1.72E-01	5 / 9	0.021	0.009	1
Phenanthrene	NA	1.00E-01	2.90E-02	1.40E-02	1.54E-01	2 / 9	0.29	1.54	1
Pyrene	NA	1.00E-01	3.50E-01	9.90E-02	1.99E-01	2 / 9	3.50	1.99	**YES**
Volatile Organic Compounds									
2-Butanone	NA	8.96E+01	1.20E-02	1.20E-02	1.14E-02	1 / 9	0.00013	0.00013	1
Acetone	NA	2.50E+00	1.20E-01	1.90E-02	2.60E-02	2 / 8	0.048	0.010	1
Cumene	NA	NA	9.60E-04	5.80E-04	2.61E-03	2 / 9	ND	ND	4
Toluene	NA	5.00E-02	2.10E-03	2.10E-03	2.75E-03	1 / 9	0.042	0.055	1
Trichlorofluoromethane	NA	1.00E-01	1.10E-02	1.20E-03	3.79E-03	8 / 9	0.11	0.04	1

[a] Surface soil at Parcel 77 is defined as the interval from 0 to 0.5 feet below ground surface.

[b] Background threshold value is 2-times the arithmetic mean background concentration as reported in "Final Background Metals Survey Report, Ft. McClellan, Alabama" (SAIC, 1998).

[c] Ecological screening values are presented in "Human Health and Ecological Screening Values and PAH Background Summary Report" (IT Corp., 2000).

NA - Not Available

Rationale for inclusion / exclusion as COPEC:

1 - Maximum detected concentration is less than ecological screening value (ESV).

2 - Essential macronutrient, only toxic at extremely high concentrations (i.e. 10-times naturally-occurring background concentration).

3 - Maximum detected concentration is less than background threshold value.

4 - No ESV available; however, maximum detected concentration is similar to concentrations of other VOAs which are below their respective ESVs.

Table 4-6

Constituents of Potential Ecological Concern in Surface Soil[a] at Range 22 (Parcel 78Q) Fort McClellan, Calhoun County, Alabama

Constituents	Background Threshold Value [b] (mg/kg)	Ecological Screening Value [c] (mg/kg)	Maximum Detected Conc. (mg/kg)	Minimum Detected Conc. (mg/kg)	Mean Detected Conc. (mg/kg)	Frequency of Detection	Maximum Hazard Quotient	Mean Hazard Quotient	Constituent Of Potential Ecological Concern
Metals									
Aluminum	1.63E+04	5.00E+01	8.62E+03	2.20E+03	5.61E+03	8 / 8	172.40	112.20	3
Antimony	1.99E+00	3.50E+00	3.35E+02	1.50E+00	4.44E+01	4 / 8	95.71	12.69	**YES**
Arsenic	1.37E+01	1.00E+01	1.16E+01	2.80E+00	4.69E+00	8 / 8	1.16	0.47	3
Barium	1.24E+02	1.65E+02	1.41E+02	2.46E+01	6.13E+01	8 / 8	0.85	0.37	1
Beryllium	8.00E-01	1.10E+00	1.30E+00	2.00E-01	4.86E-01	7 / 7	1.18	0.44	**YES**
Cadmium	2.90E-01	1.60E+00	2.10E-01	9.60E-02	2.48E-01	2 / 8	0.13	0.16	1,3
Calcium	1.72E+03	NA	1.04E+05	9.99E+01	3.35E+04	8 / 8	ND	ND	2
Chromium	3.70E+01	4.00E-01	1.61E+01	7.50E+00	1.12E+01	7 / 7	40.25	28.04	3
Cobalt	1.52E+01	2.00E+01	5.80E+00	1.90E+00	2.80E+00	7 / 7	0.29	0.14	1,3
Copper	1.27E+01	4.00E+01	2.62E+03	6.60E+00	3.69E+02	8 / 8	65.50	9.22	**YES**
Iron	3.42E+04	2.00E+02	2.01E+04	6.81E+03	1.20E+04	8 / 8	100.50	60.15	3
Lead	4.01E+01	5.00E+01	1.14E+05	9.50E+00	1.26E+04	37 / 37	2280.00	252.33	**YES**
Magnesium	1.03E+03	4.40E+05	6.42E+04	1.70E+02	2.04E+04	8 / 8	0.15	0.05	1,2
Manganese	1.58E+03	1.00E+02	1.17E+03	9.29E+01	3.50E+02	8 / 8	11.70	3.50	3
Mercury	8.00E-02	1.00E-01	6.80E-02	1.70E-02	2.95E-02	5 / 8	0.68	0.30	1,3
Nickel	1.03E+01	3.00E+01	7.60E+00	3.10E+00	4.38E+00	8 / 8	0.25	0.15	1,3
Potassium	8.00E+02	NA	5.58E+02	1.96E+02	3.33E+02	8 / 8	ND	ND	2,3
Sodium	6.34E+02	NA	6.06E+01	4.70E+01	1.92E+02	3 / 8	ND	ND	2,3
Thallium	3.43E+00	1.00E+00	1.40E+00	6.99E-01	6.56E-01	2 / 8	1.40	0.66	3
Vanadium	5.88E+01	2.00E+00	2.51E+01	8.00E+00	1.36E+01	8 / 8	12.55	6.82	3
Zinc	4.06E+01	5.00E+01	4.44E+02	1.15E+01	7.21E+01	8 / 8	8.88	1.44	**YES**
Chlorinated Herbicides									
2,4-DB	NA	1.00E-01	4.70E-02	4.70E-02	4.70E-02	1 / 1	0.47	0.47	1
Chlorinated Pesticides									
4,4'-DDT	NA	2.50E-03	3.20E-03	3.20E-03	3.20E-03	1 / 1	1.28	1.28	**YES**
alpha-Chlordane	NA	1.00E-01	7.60E-04	7.60E-04	7.60E-04	1 / 1	0.008	0.008	1

Table 4-6

Constituents of Potential Ecological Concern in Surface Soil[a] at Range 22 (Parcel 78Q) Fort McClellan, Calhoun County, Alabama

Constituents	Background Threshold Value [b] (mg/kg)	Ecological Screening Value [c] (mg/kg)	Maximum Detected Conc. (mg/kg)	Minimum Detected Conc. (mg/kg)	Mean Detected Conc. (mg/kg)	Frequency of Detection	Maximum Hazard Quotient	Mean Hazard Quotient	Constituent Of Potential Ecological Concern
Semivolatile Organic Compounds									
2,4-Dinitrotoluene	NA	1.28E+00	7.10E-02	2.30E-02	1.11E-01	4 / 8	0.055	0.087	1
Acenaphthylene	NA	6.82E+02	3.40E-02	3.40E-02	1.64E-01	1 / 8	0.00005	0.00024	1
Anthracene	NA	1.00E-01	3.70E-02	2.10E-02	1.45E-01	2 / 8	0.37	1.45	1
Benzo(a)anthracene	NA	5.21E+00	9.50E-02	3.30E-02	1.54E-01	2 / 8	0.018	0.030	1
Benzo(a)pyrene	NA	1.00E-01	9.20E-02	3.70E-02	1.54E-01	2 / 8	0.92	1.54	1
Benzo(b)fluoranthene	NA	5.98E+01	1.80E-01	6.10E-02	1.68E-01	2 / 8	0.0030	0.0028	1
Benzo(ghi)perylene	NA	1.19E+02	9.20E-02	3.90E-02	1.55E-01	2 / 8	0.0008	0.0013	1
Benzo(k)fluoranthene	NA	1.48E+02	1.50E-01	4.50E-02	1.63E-01	2 / 8	0.0010	0.0011	1
bis(2-Ethylhexyl)phthalate	NA	9.26E-01	1.70E-01	4.90E-02	1.43E-01	4 / 8	0.18	0.15	1
Chrysene	NA	4.73E+00	1.20E-01	5.00E-02	1.59E-01	2 / 8	0.025	0.034	1
Dibenz(a,h)anthracene	NA	1.84E+01	4.40E-02	2.50E-02	1.47E-01	2 / 8	0.0024	0.0080	1
Di-n-butyl phthalate	NA	2.00E+02	3.10E-01	6.40E-02	1.70E-01	3 / 8	0.0016	0.0008	1
Fluoranthene	NA	1.00E-01	1.10E-01	4.20E-02	1.57E-01	2 / 8	1.10	1.57	**YES**
Indeno(1,2,3-cd)pyrene	NA	1.09E+02	8.10E-02	3.50E-02	1.53E-01	2 / 8	0.0007	0.0014	1
n-Nitrosodiphenylamine	NA	2.00E+01	2.60E-01	1.10E-01	1.77E-01	3 / 8	0.0130	0.0088	1
Phenanthrene	NA	1.00E-01	2.40E-02	2.40E-02	1.63E-01	1 / 8	0.24	1.63	1
Pyrene	NA	1.00E-01	1.50E-01	4.70E-02	1.63E-01	2 / 8	1.50	1.63	**YES**
Volatile Organic Compounds									
2-Butanone	NA	8.96E+01	1.50E-02	1.50E-02	1.13E-02	1 / 8	0.00017	0.00013	1
Acetone	NA	2.50E+00	3.00E-01	4.30E-02	5.84E-02	3 / 8	0.120	0.023	1
Chloroethane	NA	1.00E-01	1.20E-02	1.20E-02	6.13E-03	1 / 8	0.120	0.061	1
Chloromethane	NA	1.00E-01	7.00E-03	7.00E-03	5.50E-03	1 / 8	0.070	0.055	1
Trichlorofluoromethane	NA	1.00E-01	4.00E-03	1.60E-03	2.59E-03	7 / 7	0.040	0.026	1

[a] Surface soil at Parcel 78 is defined as the interval from 0 to 0.5 feet below ground surface.

[b] Background threshold value is 2-times the arithmetic mean background concentration as reported in "Final Background Metals Survey Report, Ft. McClellan, Alabama" (SAIC, 1998).

[c] Ecological screening values are presented in "Human Health and Ecological Screening Values and PAH Background Summary Report" (IT Corp., 2000).

NA - Not Available

Rationale for inclusion / exclusion as COPEC:

1 - Maximum detected concentration is less than ecological screening value (ESV).

2 - Essential macronutrient, only toxic at extremely high concentrations (i.e. 10-times naturally-occurring background concentration).

3 - Maximum detected concentration is less than background threshold value.

4 - No ESV available; however, maximum detected concentration is similar to concentrations of other VOAs which are below their respective ESVs.

Table 4-7

Constituents of Potential Ecological Concern in Surface Soil[a] at Range 24 Upper (Parcel 80Q) Fort McClellan, Calhoun County, Alabama

Constituents	Background Threshold Value [b] (mg/kg)	Ecological Screening Value [c] (mg/kg)	Maximum Detected Conc. (mg/kg)	Minimum Detected Conc. (mg/kg)	Mean Detected Conc. (mg/kg)	Frequency of Detection	Maximum Hazard Quotient	Mean Hazard Quotient	Constituent Of Potential Ecological Concern
Metals									
Aluminum	1.63E+04	5.00E+01	2.72E+04	2.11E+03	9.12E+03	38 / 38	544.00	182.39	**YES**
Antimony	1.99E+00	3.50E+00	2.69E+01	4.90E-01	7.89E+00	13 / 38	7.69	2.25	**YES**
Arsenic	1.37E+01	1.00E+01	1.10E+01	5.01E-01	3.82E+00	37 / 37	1.10	0.38	3
Barium	1.24E+02	1.65E+02	2.11E+02	4.90E+00	7.58E+01	38 / 38	1.28	0.46	**YES**
Beryllium	8.00E-01	1.10E+00	3.63E+00	2.10E-01	7.63E-01	22 / 32	3.30	0.69	**YES**
Cadmium	2.90E-01	1.60E+00	1.30E+00	1.30E+00	6.20E-01	1 / 38	0.81	0.39	1
Calcium	1.72E+03	NA	9.52E+03	3.43E+01	6.80E+02	35 / 36	ND	ND	2
Chromium	3.70E+01	4.00E-01	3.74E+01	1.59E+00	9.36E+00	38 / 38	93.50	23.39	**YES**
Cobalt	1.52E+01	2.00E+01	1.78E+01	4.31E-01	4.07E+00	36 / 38	0.89	0.20	1
Copper	1.27E+01	4.00E+01	8.59E+04	2.30E+00	2.48E+03	38 / 38	2147.50	61.88	**YES**
Iron	3.42E+04	2.00E+02	7.52E+04	1.63E+03	1.84E+04	38 / 38	376.00	92.01	**YES**
Lead	4.01E+01	5.00E+01	8.13E+03	3.90E+00	5.14E+02	38 / 38	162.60	10.27	**YES**
Magnesium	1.03E+03	4.40E+05	1.62E+03	3.28E+01	4.00E+02	38 / 38	0.0037	0.0009	1,2
Manganese	1.58E+03	1.00E+02	1.92E+03	9.30E+00	3.21E+02	38 / 38	19.20	3.21	**YES**
Mercury	8.00E-02	1.00E-01	1.01E-01	2.50E-02	5.89E-02	20 / 38	1.01	0.59	**YES**
Nickel	1.03E+01	3.00E+01	1.87E+01	1.56E+00	4.62E+00	28 / 32	0.62	0.15	1
Potassium	8.00E+02	NA	2.27E+03	9.76E+01	7.18E+02	36 / 37	ND	ND	2
Selenium	4.80E-01	8.10E-01	1.18E+00	5.61E-01	7.54E-01	10 / 38	1.46	0.93	**YES**
Silver	3.60E-01	2.00E+00	2.42E+00	1.13E+00	2.74E+00	5 / 38	1.21	1.37	**YES**
Sodium	6.34E+02	NA	6.18E+02	4.78E+01	1.52E+02	24 / 35	ND	ND	2,3
Vanadium	5.88E+01	2.00E+00	3.56E+01	3.14E+00	1.55E+01	38 / 38	17.80	7.73	3
Zinc	4.06E+01	5.00E+01	9.67E+03	5.37E+00	2.78E+02	38 / 38	193.40	5.56	**YES**
Chlorinated Herbicides									
2,4-DB	NA	1.00E-01	2.50E-02	1.80E-02	1.95E-02	2 / 5	0.25	0.20	1
MCPP	NA	1.00E-01	5.80E+00	1.20E+00	2.28E+00	3 / 5	58.00	22.80	**YES**

Table 4-7

Constituents of Potential Ecological Concern in Surface Soil[a] at Range 24 Upper (Parcel 80Q) Fort McClellan, Calhoun County, Alabama

Constituents	Background Threshold Value [b] (mg/kg)	Ecological Screening Value [c] (mg/kg)	Maximum Detected Conc. (mg/kg)	Minimum Detected Conc. (mg/kg)	Mean Detected Conc. (mg/kg)	Frequency of Detection	Maximum Hazard Quotient	Mean Hazard Quotient	Constituent Of Potential Ecological Concern
Chlorinated Pesticides									
4,4'-DDD	NA	2.50E-03	2.40E-03	2.40E-03	3.10E-03	1 / 5	0.96	1.24	1
4,4'-DDT	NA	2.50E-03	1.90E-03	1.90E-03	3.00E-03	1 / 5	0.76	1.20	1
Aldrin	NA	2.50E-03	6.20E-03	6.20E-03	2.56E-03	1 / 5	2.48	1.02	**YES**
alpha-BHC	NA	2.50E-03	8.90E-03	1.10E-03	3.07E-03	2 / 5	3.56	1.23	**YES**
Endosulfan II	NA	1.19E-01	9.30E-04	9.30E-04	2.81E-03	1 / 5	0.008	0.024	1
Endrin	NA	1.00E-03	6.00E-03	6.00E-03	3.82E-03	1 / 5	6.00	3.82	**YES**
Endrin aldehyde	NA	1.05E-02	2.00E-03	2.00E-03	3.02E-03	1 / 5	0.19	0.29	1
gamma-Chlordane	NA	1.00E-01	1.60E-02	9.30E-04	4.08E-03	3 / 5	0.16	0.04	1
Nitroaromatics									
Nitrobenzene	NA	1.31E+00	9.50E-02	9.50E-02	1.59E-01	1 / 21	0.073	0.122	1
Volatile Organic Compounds									
2-Butanone	NA	8.96E+01	7.40E-03	7.40E-03	1.67E-02	1 / 5	0.0001	0.0002	1
Acetone	NA	2.50E+00	2.10E-01	4.90E-02	1.11E-01	5 / 5	0.084	0.044	1
Methylene chloride	NA	2.00E+00	8.50E-03	8.50E-03	7.00E-03	1 / 2	0.0043	0.0035	1
p-Cymene	NA	NA	2.00E-02	2.00E-02	6.17E-03	1 / 5	ND	ND	4

[a] Surface soil at Parcel 80 is defined as the interval from 0 to 0.5 feet below ground surface.

[b] Background threshold value is 2-times the arithmetic mean background concentration as reported in "Final Background Metals Survey Report, Ft. McClellan, Alabama" (SAIC, 1998).

[c] Ecological screening values are presented in "Human Health and Ecological Screening Values and PAH Background Summary Report" (IT Corp., 2000).

NA - Not Available

Rationale for inclusion / exclusion as COPEC:

1 - Maximum detected concentration is less than ecological screening value (ESV).

2 - Essential macronutrient, only toxic at extremely high concentrations (i.e. 10-times naturally-occurring background concentration).

3 - Maximum detected concentration is less than background threshold value.

4 - No ESV available; however, maximum detected concentration is similar to concentrations of other VOAs which are below their respective ESVs.

Table 4-8

Constituents of Potential Ecological Concern in Surface Soil[a] at Range 27 (Parcel 85Q) Fort McClellan, Calhoun County, Alabama

Constituents	Background Threshold Value [b] (mg/kg)	Ecological Screening Value [c] (mg/kg)	Maximum Detected Conc. (mg/kg)	Minimum Detected Conc. (mg/kg)	Mean Detected Conc. (mg/kg)	Frequency of Detection	Maximum Hazard Quotient	Mean Hazard Quotient	Constituent Of Potential Ecological Concern
Metals									
Aluminum	1.63E+04	5.00E+01	1.48E+04	3.08E+03	5.87E+03	10 / 10	296.00	117.30	3
Antimony	1.99E+00	3.50E+00	1.85E+02	7.20E-01	2.44E+01	6 / 10	52.86	6.97	**YES**
Arsenic	1.37E+01	1.00E+01	7.13E+01	2.10E+00	1.08E+01	10 / 10	7.13	1.08	**YES**
Barium	1.24E+02	1.65E+02	1.55E+02	4.81E+01	9.88E+01	10 / 10	0.94	0.60	1
Beryllium	8.00E-01	1.10E+00	1.31E+00	3.80E-01	6.42E-01	9 / 10	1.19	0.58	**YES**
Calcium	1.72E+03	NA	1.21E+03	3.00E+02	8.28E+02	8 / 8	ND	ND	2,3
Chromium	3.70E+01	4.00E-01	3.17E+01	4.70E+00	1.13E+01	9 / 9	79.25	28.17	3
Cobalt	1.52E+01	2.00E+01	7.30E+00	1.30E+00	3.61E+00	10 / 10	0.37	0.18	1,3
Copper	1.27E+01	4.00E+01	3.34E+04	5.60E+00	3.39E+03	10 / 10	835.00	84.74	**YES**
Iron	3.42E+04	2.00E+02	3.19E+04	5.32E+03	1.16E+04	10 / 10	159.50	57.98	3
Lead	4.01E+01	5.00E+01	2.80E+04	1.47E+01	2.14E+03	40 / 40	560.00	42.81	**YES**
Magnesium	1.03E+03	4.40E+05	2.15E+03	1.34E+02	4.95E+02	10 / 10	0.0049	0.0011	1,2
Manganese	1.58E+03	1.00E+02	1.81E+03	4.90E+01	5.12E+02	10 / 10	18.10	5.12	**YES**
Mercury	8.00E-02	1.00E-01	4.60E-02	1.10E-02	3.12E-02	8 / 10	0.46	0.31	1,3
Nickel	1.03E+01	3.00E+01	1.30E+01	2.20E+00	5.55E+00	10 / 10	0.43	0.18	1
Potassium	8.00E+02	NA	4.63E+03	1.11E+02	9.05E+02	9 / 9	ND	ND	2
Selenium	4.80E-01	8.10E-01	2.85E+00	6.54E-01	6.32E-01	3 / 10	3.52	0.78	**YES**
Silver	3.60E-01	2.00E+00	2.74E+00	2.74E+00	8.60E-01	1 / 10	1.37	0.43	**YES**
Sodium	6.34E+02	NA	5.83E+01	4.89E+01	2.40E+02	2 / 9	ND	ND	2,3
Thallium	3.43E+00	1.00E+00	6.60E-01	5.10E-01	7.91E-01	3 / 7	0.66	0.79	1,3
Vanadium	5.88E+01	2.00E+00	4.16E+01	2.30E+00	1.35E+01	10 / 10	20.80	6.75	3
Zinc	4.06E+01	5.00E+01	2.90E+03	1.36E+01	3.20E+02	10 / 10	58.00	6.39	**YES**
Chlorinated Herbicides									
2,4-DB	NA	1.00E-01	6.10E-02	6.10E-02	3.65E-02	1 / 2	0.61	0.37	1
Dichloroprop	NA	1.00E-01	1.00E-02	1.00E-02	8.00E-03	1 / 2	0.100	0.080	1
Dinoseb	NA	1.00E-01	7.10E-03	7.10E-03	6.55E-03	1 / 2	0.071	0.066	1

Table 4-8

Constituents of Potential Ecological Concern in Surface Soil[a] at Range 27 (Parcel 85Q) Fort McClellan, Calhoun County, Alabama

Constituents	Background Threshold Value [b] (mg/kg)	Ecological Screening Value [c] (mg/kg)	Maximum Detected Conc. (mg/kg)	Minimum Detected Conc. (mg/kg)	Mean Detected Conc. (mg/kg)	Frequency of Detection	Maximum Hazard Quotient	Mean Hazard Quotient	Constituent Of Potential Ecological Concern
Nitroaromatics									
2,4-Dinitrotoluene	NA	1.28E+00	3.30E-01	3.10E-01	2.22E-01	2 / 10	0.26	0.17	1
Semivolatile Organic Compounds									
bis(2-Ethylhexyl)phthalate	NA	9.26E-01	9.20E-02	4.40E-02	1.58E-01	3 / 10	0.10	0.17	1
Butyl benzyl phthalate	NA	2.39E-01	3.50E-01	3.90E-02	1.96E-01	2 / 10	1.46	0.82	YES
Diethyl phthalate	NA	1.00E+02	8.50E-02	8.50E-02	1.85E-01	1 / 10	0.0009	0.0018	1
Di-n-butyl phthalate	NA	2.00E+02	4.20E-01	3.10E-01	2.31E-01	2 / 10	0.0021	0.0012	1
n-Nitrosodiphenylamine	NA	2.00E+01	9.80E-01	9.40E-01	3.50E-01	2 / 10	0.049	0.017	1
Volatile Organic Compounds									
1,1,1-Trichloroethane	NA	1.00E-01	1.10E-03	5.80E-04	2.38E-03	2 / 10	0.011	0.024	1
2-Butanone	NA	8.96E+01	4.80E-02	6.60E-03	1.51E-02	3 / 10	0.0005	0.0002	1
Acetone	NA	2.50E+00	3.80E-01	9.30E-02	1.15E-01	5 / 8	0.15	0.05	1
Naphthalene	NA	1.00E-01	1.20E-03	1.20E-03	3.27E-03	1 / 10	0.012	0.033	1
p-Cymene	NA	NA	6.40E-03	6.40E-03	3.26E-03	1 / 10	ND	ND	4
Trichlorofluoromethane	NA	1.00E-01	6.30E-03	9.20E-04	3.25E-03	7 / 10	0.063	0.033	1

[a] Surface soil at Parcel 85 is defined as the interval from 0 to 0.5 feet below ground surface.

[b] Background threshold value is 2-times the arithmetic mean background concentration as reported in "Final Background Metals Survey Report, Ft. McClellan, Alabama" (SAIC, 1998).

[c] Ecological screening values are presented in "Human Health and Ecological Screening Values and PAH Background Summary Report" (IT Corp., 2000).

NA - Not Available

Rationale for inclusion / exclusion as COPEC:

1 - Maximum detected concentration is less than ecological screening value (ESV).

2 - Essential macronutrient, only toxic at extremely high concentrations (i.e. 10-times naturally-occurring background concentration).

3 - Maximum detected concentration is less than background threshold value.

4 - No ESV available; however, maximum detected concentration is similar to concentrations of other VOAs which are below their respective ESVs.

Table 4-9

Constituents of Potential Ecological Concern in Surface Water at the Bains Gap Road Ranges Fort McClellan, Calhoun County, Alabama

Constituents	Background Threshold Value [a] (mg/L)	Ecological Screening Value [b] (mg/L)	Maximum Detected Conc. (mg/L)	Minimum Detected Conc. (mg/L)	Mean Detected Conc. (mg/L)	Frequency of Detection	Maximum Hazard Quotient	Mean Hazard Quotient	Constituent Of Potential Ecological Concern
Metals									
Aluminum	5.26E+00	8.70E-02	5.23E-01	4.77E-02	1.42E-01	7 / 12	6.01	1.63	3
Arsenic	2.17E-03	1.90E-01	1.84E-03	1.84E-03	4.87E-03	1 / 24	0.010	0.026	1,3
Barium	7.54E-02	3.90E-03	4.18E-02	1.39E-02	2.44E-02	24 / 24	10.72	6.26	3
Calcium	2.52E+01	1.16E+02	6.25E+00	2.41E-01	1.21E+00	18 / 18	0.054	0.010	1,2,3
Cobalt	NA	3.00E-03	9.11E-03	2.60E-03	1.26E-02	5 / 24	3.04	4.20	**YES**
Copper	1.27E-02	6.54E-03	1.29E-01	4.07E-03	2.91E-02	10 / 23	19.72	4.45	**YES**
Iron	1.96E+01	1.00E+00	5.23E+00	4.19E-02	5.80E-01	24 / 24	5.23	0.58	3
Lead	8.67E-03	1.32E-03	1.60E+00	1.89E-03	1.85E-01	23 / 34	1212.12	140.41	**YES**
Magnesium	1.10E+01	8.20E+01	3.75E+00	2.44E-01	7.60E-01	19 / 19	0.046	0.009	1,2,3
Manganese	5.65E-01	8.00E-02	1.79E-01	4.30E-03	2.68E-02	24 / 24	2.24	0.34	3
Potassium	2.56E+00	5.30E+01	2.95E+00	1.02E+00	2.00E+00	19 / 24	0.056	0.038	1,2
Selenium	NA	5.00E-03	2.71E-03	1.90E-03	3.68E-03	2 / 23	0.54	0.74	1
Sodium	3.44E+00	6.80E+02	7.22E+02	7.73E-01	3.39E+01	22 / 22	1.06	0.05	2
Thallium	2.49E-03	4.00E-03	7.50E-03	7.11E-03	5.19E-03	2 / 24	1.88	1.30	**YES**
Vanadium	1.52E-02	1.90E-02	2.00E-03	2.00E-03	1.34E-02	1 / 24	0.11	0.71	1,3
Zinc	4.04E-02	5.89E-02	3.03E-02	3.70E-03	1.98E-02	12 / 24	0.51	0.34	1,3
Chlorinated Pesticides									
4,4'-DDE	NA	1.05E-02	2.90E-04	2.90E-04	6.89E-05	1 / 19	0.028	0.007	1
Explosives									
2-Nitrotoluene	NA	NA	2.50E-04	2.50E-04	2.04E-04	1 / 13	ND	ND	4

[a] Background threshold value is 2-times the arithmetic mean background concentration as reported in "Final Background Metals Survey Report, Ft. McClellan, Alabama" (SAIC, 1998).

[b] Ecological screening values are presented in "Human Health and Ecological Screening Values and PAH Background Summary Report" (IT Corp., 2000).

NA - Not Available ND - Not Determined

Rationale for inclusion / exclusion as COPEC:

1 - Maximum detected concentration is less than ecological screening value (ESV).

2 - Essential macronutrient, only toxic at extremely high concentrations (i.e. 10-times naturally-occurring background concentration).

3 - Maximum detected concentration is less than background threshold value.

4 - No ESV available, maximum detected concentration is less than ESV for similar compounds.

Table 4-10

Constituents of Potential Ecological Concern in Sediment at the Bains Gap Road Ranges Fort McClellan, Calhoun County, Alabama

Constituents	Background Threshold Value [a] (mg/kg)	Ecological Screening Value [b] (mg/kg)	Maximum Detected Conc. (mg/kg)	Minimum Detected Conc. (mg/kg)	Mean Detected Conc. (mg/kg)	Frequency of Detection	Maximum Hazard Quotient	Mean Hazard Quotient	Constituent Of Potential Ecological Concern
Metals									
Aluminum	8.59E+03	NA	5.58E+03	1.69E+03	3.06E+03	21 / 21	ND	ND	3
Antimony	7.30E-01	1.20E+01	1.91E+01	1.00E+00	6.05E+00	8 / 21	1.59	0.50	**YES**
Arsenic	1.13E+01	7.24E+00	6.20E+00	1.25E+00	2.94E+00	21 / 21	0.86	0.41	1,3
Barium	9.89E+01	NA	4.38E+02	9.30E+00	7.35E+01	21 / 21	ND	ND	**YES**
Beryllium	9.70E-01	NA	7.89E-01	2.53E-01	5.29E-01	11 / 12	ND	ND	3
Calcium	1.11E+03	NA	3.30E+02	4.11E+01	1.37E+02	20 / 20	ND	ND	2,3
Chromium	3.12E+01	5.23E+01	1.64E+01	1.45E+00	7.14E+00	20 / 20	0.31	0.14	1,3
Cobalt	1.10E+01	5.00E+01	2.80E+01	1.00E+00	6.73E+00	18 / 18	0.56	0.13	1
Copper	1.71E+01	1.87E+01	7.38E+02	5.77E+00	8.33E+01	21 / 21	39.47	4.45	**YES**
Iron	3.53E+04	NA	3.62E+04	7.66E+03	1.84E+04	21 / 21	ND	ND	**YES**
Lead	3.78E+01	3.02E+01	3.28E+03	5.70E+00	4.96E+02	38 / 38	108.61	16.41	**YES**
Magnesium	9.06E+02	NA	1.81E+02	6.79E+01	1.19E+02	21 / 21	ND	ND	2,3
Manganese	7.12E+02	NA	1.58E+03	5.70E+01	3.77E+02	21 / 21	ND	ND	**YES**
Mercury	1.10E-01	1.30E-01	1.70E-02	1.00E-02	4.97E-02	2 / 19	0.13	0.38	1,3
Nickel	1.30E+01	1.59E+01	4.06E+00	1.16E+00	2.44E+00	20 / 21	0.26	0.15	1,3
Potassium	1.01E+03	NA	1.18E+03	3.48E+02	7.06E+02	18 / 18	ND	ND	2
Silver	3.20E-01	2.00E+00	1.16E+00	6.00E-01	8.41E-01	3 / 20	0.58	0.42	1
Sodium	6.92E+02	NA	4.87E+01	3.74E+01	1.52E+02	5 / 21	ND	ND	2,3
Thallium	1.30E-01	NA	1.14E+00	6.30E-01	1.03E+00	2 / 21	ND	ND	**YES**
Vanadium	4.09E+01	NA	2.09E+01	4.67E+00	1.07E+01	21 / 21	ND	ND	3
Zinc	5.27E+01	1.24E+02	6.76E+01	5.69E+00	1.77E+01	21 / 21	0.55	0.14	1
Chlorinated Herbicides									
2,4-DB	NA	NA	2.20E-02	2.20E-02	1.41E-02	1 / 8	ND	ND	4
MCPP	NA	NA	9.20E-01	9.20E-01	1.23E+00	1 / 8	ND	ND	4
4,4'-DDD	NA	3.30E-03	3.10E-03	1.40E-03	2.83E-03	2 / 21	0.94	0.86	1
alpha-BHC	NA	6.00E-03	3.20E-04	3.20E-04	2.38E-03	1 / 21	0.05	0.40	1
gamma-Chlordane	NA	1.70E-03	1.20E-03	6.70E-04	1.21E-03	2 / 8	0.71	0.71	1

Table 4-10

Constituents of Potential Ecological Concern in Sediment at the Bains Gap Road Ranges Fort McClellan, Calhoun County, Alabama

Constituents	Background Threshold Value [a] (mg/kg)	Ecological Screening Value [b] (mg/kg)	Maximum Detected Conc. (mg/kg)	Minimum Detected Conc. (mg/kg)	Mean Detected Conc. (mg/kg)	Frequency of Detection	Maximum Hazard Quotient	Mean Hazard Quotient	Constituent Of Potential Ecological Concern
Explosives									
2,4-Dinitrotoluene	NA	7.51E-02	1.40E-01	1.40E-01	2.00E-01	1 / 27	1.86	2.67	**YES**
Semivolatile Organic Compounds									
bis(2-Ethylhexyl)phthalate	NA	1.82E-01	5.00E-02	4.60E-02	2.81E-01	2 / 21	0.27	1.54	1
Di-n-butyl phthalate	NA	1.11E-01	8.80E-02	8.80E-02	2.90E-01	1 / 21	0.79	2.61	1
Volatile Organic Compounds									
2-Butanone	NA	1.37E-01	8.20E-02	6.50E-03	1.53E-02	2 / 21	0.60	0.11	1
Acetone	NA	4.53E-01	2.30E-01	1.90E-02	4.45E-02	7 / 13	0.51	0.10	1
p-Cymene	NA	NA	3.70E-02	1.70E-03	4.70E-03	3 / 21	ND	ND	4
Toluene	NA	6.70E-01	1.30E-02	2.70E-03	3.51E-03	2 / 21	0.02	0.01	1
Trichlorofluoromethane	NA	3.07E-03	4.70E-03	1.70E-03	4.07E-03	7 / 21	1.53	1.32	**YES**

[a] Background threshold value is 2-times the arithmetic mean background concentration as reported in "Final Background Metals Survey Report, Ft. McClellan, Alabama" (SAIC, 1998).

[b] Ecological screening values are presented in "Human Health and Ecological Screening Values and PAH Background Summary Report" (IT Corp., 2000).

NA - Not Available

Rationale for inclusion / exclusion as COPEC:

1 - Maximum detected concentration is less than ecological screening value (ESV).

2 - Essential macronutrient, only toxic at extremely high concentrations (i.e. 10-times naturally-occurring background concentration).

3 - Maximum detected concentration is less than background threshold value.

4 - No ESV available, maximum detected concentration is less than ESV for similar compounds.

Table 4-11

Constituents of Potential Ecological Concern in Groundwater at the Bains Gap Road Ranges
Fort McClellan, Calhoun County, Alabama

Constituents	Background Threshold Value [a] (mg/L)	Ecological Screening Value [b] (mg/L)	Maximum Detected Conc. (mg/L)	Minimum Detected Conc. (mg/L)	Mean Detected Conc. (mg/L)	Frequency of Detection	Maximum Hazard Quotient	Mean Hazard Quotient	Constituent Of Potential Ecological Concern
Metals									
Aluminum	2.34E+00	8.70E-02	4.66E+00	7.70E-02	1.34E+00	10 / 12	53.56	15.36	**YES**
Arsenic	1.78E-02	1.90E-01	1.80E-03	1.80E-03	4.79E-03	1 / 15	0.009	0.025	1,3
Barium	1.27E-01	3.90E-03	1.39E-01	9.38E-03	5.36E-02	15 / 15	35.64	13.76	**YES**
Calcium	5.65E+01	1.16E+02	5.59E+00	9.69E-01	2.53E+00	15 / 15	0.048	0.022	1,2,3
Cobalt	2.34E-02	3.00E-03	1.76E-02	1.25E-02	1.07E-02	2 / 14	5.87	3.57	3
Copper	2.55E-02	6.54E-03	3.65E-02	7.86E-03	1.17E-02	2 / 14	5.58	1.80	**YES**
Iron	7.04E+00	1.00E+00	1.03E+01	8.01E-02	2.13E+00	12 / 13	10.30	2.13	**YES**
Lead	8.00E-03	1.32E-03	3.40E-03	1.41E-03	4.12E-03	5 / 16	2.58	3.12	3
Magnesium	2.13E+01	8.20E+01	1.50E+00	1.63E-01	9.21E-01	15 / 15	0.018	0.011	1,2,3
Manganese	5.81E-01	8.00E-02	2.43E+00	2.35E-02	4.30E-01	16 / 16	30.38	5.37	**YES**
Potassium	7.20E+00	5.30E+01	1.36E+01	1.11E+00	3.88E+00	16 / 16	0.26	0.07	1,2,3
Selenium	NA	5.00E-03	3.21E-03	3.21E-03	4.85E-03	1 / 12	0.64	0.97	1
Sodium	1.48E+01	6.80E+02	3.34E+00	7.03E-01	1.81E+00	16 / 16	0.0049	0.0027	1,2,3
Vanadium	1.70E-02	1.90E-02	6.42E-03	6.42E-03	8.09E-03	1 / 15	0.34	0.43	1,3
Zinc	2.20E-01	5.89E-02	5.00E-02	5.00E-02	3.93E-02	1 / 15	0.85	0.67	1,3
Volatile Organic Compounds									
Bromodichloromethane	NA	1.10E+01	2.50E-04	2.50E-04	4.77E-04	1 / 11	0.000023	0.000043	1
Chloroform	NA	2.89E-01	4.30E-04	2.70E-04	4.73E-04	2 / 11	0.0015	0.0016	1
Dibromochloromethane	NA	6.40E+00	2.20E-04	2.20E-04	4.75E-04	1 / 11	0.00003	0.00007	1

Table 4-11

Constituents of Potential Ecological Concern in Groundwater at the Bains Gap Road Ranges
Fort McClellan, Calhoun County, Alabama

Constituents	Background Threshold Value [a] (mg/L)	Ecological Screening Value [b] (mg/L)	Maximum Detected Conc. (mg/L)	Minimum Detected Conc. (mg/L)	Mean Detected Conc. (mg/L)	Frequency of Detection	Maximum Hazard Quotient	Mean Hazard Quotient	Constituent Of Potential Ecological Concern
Explosives									
2,4-Dinitrotoluene	NA	3.10E-01	2.00E-04	2.00E-04	2.00E-04	1 / 16	0.00065	0.00065	1
2-Amino-4,6-dinitrotoluene	NA	2.00E-02	3.20E-04	3.20E-04	2.08E-04	1 / 16	0.0160	0.0104	1
2-Nitrotoluene	NA	NA	1.70E-03	2.60E-04	3.18E-04	3 / 16	ND	ND	4
4-Amino-2,6-dinitrotoluene	NA	NA	2.00E-03	2.10E-04	3.47E-04	4 / 16	ND	ND	4

mg/L = Milligrams per liter

[a] Background threshold value is 2-times the arithmetic mean background concentration as reported in "Final Background Metals Survey Report, Ft. McClellan, Alabama" (SAIC, 1998).

[b] Ecological screening values are presented in "Human Health and Ecological Screening Values and PAH Background Summary Report" (IT Corp., 2000).

NA - Not Available ND - Not Determined

Rationale for inclusion / exclusion as COPEC:

1 - Maximum detected concentration is less than ecological screening value (ESV).

2 - Essential macronutrient, only toxic at extremely high concentrations (i.e. 10-times naturally-occurring background concentration).

3 - Maximum detected concentration is less than background threshold value.

4 - No ESV available; however, maximum detected concentration is similar to concentrations of other nitroaromatic compounds which are below their respective ESVs.

Table 4-12

Summary of COPECs at Bains Gap Road Ranges
Fort McClellan, Calhoun County, Alabama

COPECs	Range 21 Surface Soil	Range 22 Surface Soil	Range 24-Upper Surface Soil	Range 27 Surface Soil	Cane Creek & Tributaries Surface Water	Cane Creek & Tributaries Sediment	BGR Ranges Groundwater
aluminumn			O				O
antimony	X	X	X	X		X	
arsenic	O			O			
barium			O			O	O
beryllium		O	O	O			
chromium			O				
cobalt					O		
copper	X	X	X	X	X	X	O
iron			O			O	O
lead	X	X	X	X	X	X	
manganese			O	O		O	O
mercury			O				
selenium	O		O	O			
silver			O	O			
thallium					O	O	
zinc	X	X	X	X			
benzo(a)pyrene	O						
fluoranthene	O	O					
pyrene	O	O					
butylbenzyl phthalate				O			
4,4'-DDE	O						
4,4'-DDT		O					
MCPP			O				
aldrin			O				
alpha-BHC			O				
endrin			O				
2,4-dinitrotoluene						O	
trichlorofluoromethane						O	

O - HQ > 1.0; however, additional lines of evidence indicate that this constituent is not a COPEC
X - Constituent identified as a COPEC