APPENDIX F

SUMMARY OF VALIDATED ANALYTICAL DATA

Summary of Validated Surface and Depositional Soil Data
Lower Range 24 (Parcel 81Q)
Fort McClellan, Alabama

Report Date: 03/20/02

	Location Code:	HR-81Q-DEP01			HR-81Q-DEP02			HR-81Q-DEP02			HR-81Q-GP01		
	Associated Site:	HR-81Q			HR-81Q			HR-81Q			HR-81Q		
	Sample No:	QD0014			QD0015			QD0016			QD0011R		
	Sample Date:	27-AUG-01			27-AUG-01			27-AUG-01			09-AUG-01		
User Test Group	*Sample Depth:*	0 - .5			0 - .5			0 - .5			0 - 1		
Lab Method													
Parameter	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
EXPLOSIVES													
SW8330													
1,3,5-Trinitrobenzene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
1,3-Dinitrobenzene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
2,4,6-Trinitrotoluene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
2,4-Dinitrotoluene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
2,6-Dinitrotoluene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
2-Amino-4,6-dinitrotoluene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
2-Nitrotoluene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
3-Nitrotoluene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
4-Amino-2,6-dinitrotoluene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
HMX	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
Nitrobenzene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
RDX	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
Tetryl	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
p-Nitrotoluene	mg/kg	.4	U	U	.4	U	U	.4	U	U	.4	U	U
METALS													
SW6010B													
Aluminum	mg/kg	7210			4600			4380			11000		
Antimony	mg/kg	10.5	U	UJ	11.1	U	UJ	11.1	U	UJ	11.1	U	U
Arsenic	mg/kg	4.39			2.72			3.06			2.22		
Barium	mg/kg	75.5			51.8			48.2			34.2		
Beryllium	mg/kg	.816	J	B	.784	J	B	.578	J	B	.208	J	J
Cadmium	mg/kg	.527	U	U	.556	U	U	.554	U	U	.554	U	U
Calcium	mg/kg	502			344			259			164		
Chromium	mg/kg	15			7.25			6.13			7.82		
Cobalt	mg/kg	5.65			4.4			3.77			2.03	J	J
Copper	mg/kg	29.8			6.98			4.87			3.71		
Iron	mg/kg	25100			20800			15800			10500		
Lead	mg/kg	10.1			4.76			4.69			5.52		
Magnesium	mg/kg	489			369			249			414		
Manganese	mg/kg	410		J	196		J	200		J	31.6		

Summary of Validated Surface and Depositional Soil Data
Lower Range 24 (Parcel 81Q)
Fort McClellan, Alabama

Report Date: 03/20/02

	Location Code:	HR-81Q-GP01			HR-81Q-GP02			HR-81Q-GP03			HR-81Q-MW01		
	Associated Site:	HR-81Q			HR-81Q			HR-81Q			HR-81Q		
	Sample No:	QD0013R			QD0003			QD0005			QD0007		
	Sample Date:	09-AUG-01			28-JUN-01			19-JUN-01			19-JUN-01		
User Test Group	*Sample Depth:*	0 - 1			0 - 1			0 - 2			0 - 1		
Lab Method													
Parameter	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
EXPLOSIVES													
SW8330													
1,3,5-Trinitrobenzene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
1,3-Dinitrobenzene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
2,4,6-Trinitrotoluene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
2,4-Dinitrotoluene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
2,6-Dinitrotoluene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
2-Amino-4,6-dinitrotoluene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
2-Nitrotoluene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
3-Nitrotoluene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
4-Amino-2,6-dinitrotoluene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
HMX	mg/kg	.4	U	U	.4	U	U	0.50	U	U	0.50	U	U
Nitrobenzene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
RDX	mg/kg	.4	U	U	.4	U	U	0.50	U	U	0.50	U	U
Tetryl	mg/kg	.4	U	U	.4	U	U	0.65	U	U	0.65	U	U
p-Nitrotoluene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
METALS													
SW6010B													
Aluminum	mg/kg	11100			8770			6770			5260		
Antimony	mg/kg	11	U	U	11.5	U	U	0.65	B	J	6.3	U	UJ
Arsenic	mg/kg	2.68			2.17			4.6			2.0		
Barium	mg/kg	36.5			53.5			82.5			44.7		
Beryllium	mg/kg	.21	J	J	.358	J	J	0.60			0.39	B	J
Cadmium	mg/kg	.552	U	U	.574	U	U	0.58	U	U	0.53	U	U
Calcium	mg/kg	175			71.3	J	J	137	B	J	162	B	J
Chromium	mg/kg	8.38			6.68			10.2			6.0		
Cobalt	mg/kg	1.26	J	J	3.28			4.4	B	J	4.5	B	J
Copper	mg/kg	3.73			3.24			5.6		J	4.5		J
Iron	mg/kg	10800			19600			18400			13800		
Lead	mg/kg	5.95			5.57			7.4			4.7		
Magnesium	mg/kg	417			302			258	B	J	196	B	J
Manganese	mg/kg	32.6			33.2			164		J	72.7		J

Summary of Validated Surface and Depositional Soil Data
Lower Range 24 (Parcel 81Q)
Fort McClellan, Alabama

Report Date: 03/20/02

	Location Code:	HR-81Q-MW02			HR-81Q-MW03		
	Associated Site:	HR-81Q			HR-81Q		
	Sample No:	QD0009			QD0001		
	Sample Date:	19-JUN-01			19-JUN-01		
User Test Group	*Sample Depth:*	0 - 1			0 - 1		
Lab Method							
Parameter	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
EXPLOSIVES							
SW8330							
1,3,5-Trinitrobenzene	mg/kg	0.25	U	U	0.25	U	U
1,3-Dinitrobenzene	mg/kg	0.25	U	U	0.25	U	U
2,4,6-Trinitrotoluene	mg/kg	0.25	U	U	0.25	U	U
2,4-Dinitrotoluene	mg/kg	0.25	U	U	0.25	U	U
2,6-Dinitrotoluene	mg/kg	0.25	U	U	0.25	U	U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25	U	U	0.25	U	U
2-Nitrotoluene	mg/kg	0.25	U	U	0.25	U	U
3-Nitrotoluene	mg/kg	0.25	U	U	0.25	U	U
4-Amino-2,6-dinitrotoluene	mg/kg	0.25	U	U	0.25	U	U
HMX	mg/kg	0.50	U	U	0.50	U	U
Nitrobenzene	mg/kg	0.25	U	U	0.25	U	U
RDX	mg/kg	0.50	U	U	0.50	U	U
Tetryl	mg/kg	0.65	U	U	0.65	U	U
p-Nitrotoluene	mg/kg	0.25	U	U	0.25	U	U
METALS							
SW6010B							
Aluminum	mg/kg	5870			10600		
Antimony	mg/kg	6.6	U	UJ	6.8	U	UJ
Arsenic	mg/kg	2.1			3.6		
Barium	mg/kg	23.8			52.3		
Beryllium	mg/kg	0.28	B	J	0.48	B	J
Cadmium	mg/kg	0.55	U	U	0.56	U	U
Calcium	mg/kg	29.7	B	J	161	B	J
Chromium	mg/kg	8.3			10.9		
Cobalt	mg/kg	2.4	B	J	4.1	B	J
Copper	mg/kg	3.9		J	5.6		J
Iron	mg/kg	12200			21900		
Lead	mg/kg	3.2			6.4		
Magnesium	mg/kg	160	B	J	325	B	J
Manganese	mg/kg	42.3		J	52.8		J

Summary of Validated Surface and Depositional Soil Data
Lower Range 24 (Parcel 81Q)
Fort McClellan, Alabama

Report Date: 03/20/02

	Location Code:	HR-81Q-DEP01			HR-81Q-DEP02			HR-81Q-DEP02			HR-81Q-GP01		
	Associated Site:	HR-81Q			HR-81Q			HR-81Q			HR-81Q		
	Sample No:	QD0014			QD0015			QD0016			QD0011R		
	Sample Date:	27-AUG-01			27-AUG-01			27-AUG-01			09-AUG-01		
User Test Group / *Lab Method*	*Sample Depth:*	0 - .5			0 - .5			0 - .5			0 - 1		
Parameter	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
METALS													
SW6010B													
Nickel	mg/kg	6.38			4.3			2.68			4.19		
Potassium	mg/kg	1500			1630			1230			324	J	B
Selenium	mg/kg	1.05	U	U	1.11	U	U	1.11	U	U	1.11	U	U
Silver	mg/kg	1.25			1.47			1.11	U	U	.623	J	J
Sodium	mg/kg	105	U	U	111	U	U	111	U	U	111	U	U
Thallium	mg/kg	2.11	U	U	2.22	U	U	2.22	U	U	2.21	U	U
Vanadium	mg/kg	17			7.65			8.08			14.6		
Zinc	mg/kg	22.6			11.3			7.82			12.3		
SW7471A													
Mercury	mg/kg	.105	U	U	.111	U	U	.111	U	U	.032	J	B

Summary of Validated Surface and Depositional Soil Data
Lower Range 24 (Parcel 81Q)
Fort McClellan, Alabama

Report Date: 03/20/02

	Location Code:	HR-81Q-GP01			HR-81Q-GP02			HR-81Q-GP03			HR-81Q-MW01		
	Associated Site:	HR-81Q			HR-81Q			HR-81Q			HR-81Q		
	Sample No:	QD0013R			QD0003			QD0005			QD0007		
	Sample Date:	09-AUG-01			28-JUN-01			19-JUN-01			19-JUN-01		
User Test Group	*Sample Depth:*	0 - 1			0 - 1			0 - 2			0 - 1		
Lab Method													
Parameter	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
METALS													
SW6010B													
Nickel	mg/kg	4.77			5.77			4.4	B	J	3.4	B	J
Potassium	mg/kg	294	J	B	290	J	J	728			544		
Selenium	mg/kg	1.1	U	U	1.27			0.58	U	U	0.53	U	U
Silver	mg/kg	1.1	U	U	1.15	U	U	1.2	U	U	1.1	U	U
Sodium	mg/kg	110	U	U	115	U	U	578	U	U	529	U	U
Thallium	mg/kg	2.21	U	U	2.3	U	U	1.2	U	U	1.1	U	U
Vanadium	mg/kg	14.2			11.2			12.4			8.8		
Zinc	mg/kg	12.9			11.6			13.0			9.7		
SW7471A													
Mercury	mg/kg	.022	J	B	.024	J	J	0.029	B	J	0.021	B	J

Summary of Validated Surface and Depositional Soil Data
Lower Range 24 (Parcel 81Q)
Fort McClellan, Alabama

Report Date: 03/20/02

	Location Code:	HR-81Q-MW02			HR-81Q-MW03		
	Associated Site:	HR-81Q			HR-81Q		
	Sample No:	QD0009			QD0001		
	Sample Date:	19-JUN-01			19-JUN-01		
User Test Group / *Lab Method*	*Sample Depth:*	0 - 1			0 - 1		
Parameter	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
METALS							
SW6010B							
Nickel	mg/kg	3.2	B	J	6.3		
Potassium	mg/kg	273	B	J	301	B	J
Selenium	mg/kg	0.55	U	U	0.56	U	U
Silver	mg/kg	1.1	U	U	1.1	U	U
Sodium	mg/kg	550	U	U	564	U	U
Thallium	mg/kg	1.1	U	U	0.79	B	J
Vanadium	mg/kg	11.0			18.6		
Zinc	mg/kg	8.1			15.4		
SW7471A							
Mercury	mg/kg	0.014	B	J	0.045		

Summary of Validated Subsurface Soil Data
Lower Range 24 (Parcel 81Q)
Fort McClellan, Alabama

Report Date: 03/20/02

	Location Code:	HR-81Q-GP01			HR-81Q-GP02			HR-81Q-GP03			HR-81Q-MW01		
	Associated Site:	HR-81Q			HR-81Q			HR-81Q			HR-81Q		
	Sample No:	QD0012			QD0004			QD0006			QD0008		
	Sample Date:	08-OCT-01			08-OCT-01			19-JUN-01			19-JUN-01		
User Test Group	*Sample Depth:*	1. - 2.3			1 - 2			4 - 5			5 - 6		
Lab Method													
Parameter	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
EXPLOSIVES													
SW8330													
1,3,5-Trinitrobenzene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
1,3-Dinitrobenzene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
2,4,6-Trinitrotoluene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
2,4-Dinitrotoluene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
2,6-Dinitrotoluene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
2-Amino-4,6-dinitrotoluene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
2-Nitrotoluene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
3-Nitrotoluene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
4-Amino-2,6-dinitrotoluene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
HMX	mg/kg	.4	U	U	.4	U	U	0.50	U	U	0.50	U	U
Nitrobenzene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
RDX	mg/kg	.4	U	U	.4	U	U	0.50	U	U	0.50	U	U
Tetryl	mg/kg	.4	U	U	.4	U	U	0.65	U	U	0.65	U	U
p-Nitrotoluene	mg/kg	.4	U	U	.4	U	U	0.25	U	U	0.25	U	U
METALS													
SW6010B													
Aluminum	mg/kg	3240			6520			3730			5160		
Antimony	mg/kg	10.6	U	U	11	U	U	6.5	U	UJ	6.7	U	UJ
Arsenic	mg/kg	1.01	J	J	1.84			2.6			4.9		
Barium	mg/kg	7.72			27.6			79.2			29.8		
Beryllium	mg/kg	1.06	U	U	1.1	U	U	0.51	B	J	0.52	B	J
Cadmium	mg/kg	1.06	U	U	1.1	U	U	0.54	U	U	0.56	U	U
Calcium	mg/kg	56.8	J	B	44.6	J	B	72.7	B	J	10.6	B	J
Chromium	mg/kg	3.73			4.03			7.3			6.3		
Cobalt	mg/kg	2.13	U	U	2.06	J	B	14.7		J	11.6		J
Copper	mg/kg	3.26			4.19			9.2		J	8.3		J
Iron	mg/kg	5910			9730			18000			31300		
Lead	mg/kg	2.32			5.12			3.2			4.1		
Magnesium	mg/kg	87.8	J	B	160			92.2	B	J	127	B	J
Manganese	mg/kg	6.58			18			260		J	188		J

Summary of Validated Subsurface Soil Data
Lower Range 24 (Parcel 81Q)
Fort McClellan, Alabama

Report Date: 03/20/02

	Location Code:	HR-81Q-MW02			HR-81Q-MW03		
	Associated Site:	HR-81Q			HR-81Q		
	Sample No:	QD0010			QD0002		
	Sample Date:	19-JUN-01			19-JUN-01		
User Test Group	*Sample Depth:*	6 - 7			11 - 12		
Lab Method *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
EXPLOSIVES							
SW8330							
1,3,5-Trinitrobenzene	mg/kg	0.25	U	U	0.25	U	U
1,3-Dinitrobenzene	mg/kg	0.25	U	U	0.25	U	U
2,4,6-Trinitrotoluene	mg/kg	0.25	U	U	0.25	U	U
2,4-Dinitrotoluene	mg/kg	0.25	U	U	0.25	U	U
2,6-Dinitrotoluene	mg/kg	0.25	U	U	0.25	U	U
2-Amino-4,6-dinitrotoluene	mg/kg	0.25	U	U	0.25	U	U
2-Nitrotoluene	mg/kg	0.25	U	U	0.25	U	U
3-Nitrotoluene	mg/kg	0.25	U	U	0.25	U	U
4-Amino-2,6-dinitrotoluene	mg/kg	0.25	U	U	0.25	U	U
HMX	mg/kg	0.50	U	U	0.50	U	U
Nitrobenzene	mg/kg	0.25	U	U	0.25	U	U
RDX	mg/kg	0.50	U	U	0.50	U	U
Tetryl	mg/kg	0.65	U	U	0.65	U	U
p-Nitrotoluene	mg/kg	0.25	U	U	0.25	U	U
METALS							
SW6010B							
Aluminum	mg/kg	4310			10400		
Antimony	mg/kg	6.6	U	UJ	0.70	B	J
Arsenic	mg/kg	2.4			5.9		
Barium	mg/kg	14.9	B	J	38.8		
Beryllium	mg/kg	0.64			0.24	B	B
Cadmium	mg/kg	0.55	U	U	0.60	U	U
Calcium	mg/kg	9.9	B	J	11.0	B	J
Chromium	mg/kg	11.0			15.5		
Cobalt	mg/kg	1.5	B	J	1.0	B	J
Copper	mg/kg	26.5		J	13.0		J
Iron	mg/kg	23100			23800		
Lead	mg/kg	5.8			4.4		
Magnesium	mg/kg	28.6	B	J	121	B	J
Manganese	mg/kg	24.2		J	2.7		J

Summary of Validated Subsurface Soil Data
Lower Range 24 (Parcel 81Q)
Fort McClellan, Alabama

Report Date: 03/20/02

	Location Code:	HR-81Q-GP01			HR-81Q-GP02			HR-81Q-GP03			HR-81Q-MW01		
	Associated Site:	HR-81Q			HR-81Q			HR-81Q			HR-81Q		
	Sample No:	QD0012			QD0004			QD0006			QD0008		
	Sample Date:	08-OCT-01			08-OCT-01			19-JUN-01			19-JUN-01		
User Test Group	*Sample Depth:*	1. - 2.3			1 - 2			4 - 5			5 - 6		
Lab Method													
Parameter	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
METALS													
SW6010B													
Nickel	mg/kg	1.54	J	J	3.47			4.6			3.0	B	J
Potassium	mg/kg	165	J	J	481	J	J	980			1450		
Selenium	mg/kg	1.06	U	U	1.1	U	U	0.54	U	U	0.56	U	U
Silver	mg/kg	2.13	U	U	2.2	U	U	1.1	U	U	1.1	U	U
Sodium	mg/kg	40.7	J	B	42.9	J	B	545	U	U	558	U	U
Thallium	mg/kg	2.13	U	U	2.2	U	U	1.1	U	U	1.1	U	U
Vanadium	mg/kg	6			7.74			7.1			13.3		
Zinc	mg/kg	3.96			7.93			9.8			8.8		
SW7471A													
Mercury	mg/kg	.106	U	U	.11	U	U	0.036	U	U	0.037	U	U

Summary of Validated Subsurface Soil Data
Lower Range 24 (Parcel 81Q)
Fort McClellan, Alabama

Report Date: 03/20/02

	Location Code:	HR-81Q-MW02			HR-81Q-MW03		
	Associated Site:	HR-81Q			HR-81Q		
	Sample No:	QD0010			QD0002		
	Sample Date:	19-JUN-01			19-JUN-01		
User Test Group	*Sample Depth:*	6 - 7			11 - 12		
Lab Method *Parameter*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
METALS							
SW6010B							
Nickel	mg/kg	3.8	B	J	0.77	B	J
Potassium	mg/kg	832			865		
Selenium	mg/kg	0.55	U	U	0.60	U	U
Silver	mg/kg	1.1	U	U	1.2	U	U
Sodium	mg/kg	550	U	U	604	U	U
Thallium	mg/kg	1.1	U	U	1.2	U	U
Vanadium	mg/kg	10.5			33.2		
Zinc	mg/kg	21.6			2.6		
SW7471A							
Mercury	mg/kg	0.036	U	U	0.016	B	J

Summary of Validated Groundwater Data
Lower Range 24 (Parcel 81Q)
Fort McClellan, Alabama

Report Date: 03/20/02

		Location Code:	BK-G08			HR-81Q-MW01			HR-81Q-MW02		
		Associated Site:	HR-81Q			HR-81Q			HR-81Q		
		Sample No:	QD3005			QD3001			QD3002		
		Sample Date:	12-JUL-01			08-AUG-01			08-AUG-01		
User Test Group / *Lab Method* / *Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
EXPLOSIVES											
SW8330											
1,3,5-Trinitrobenzene		mg/L	.0004	U	U	.0004	U	U	.0004	U	U
1,3-Dinitrobenzene		mg/L	.0004	U	U	.0004	U	U	.0004	U	U
2,4,6-Trinitrotoluene		mg/L	.0004	U	U	.0004	U	U	.0004	U	U
2,4-Dinitrotoluene		mg/L	.0004	U	U	.0004	U	U	.0004	U	U
2,6-Dinitrotoluene		mg/L	.0004	U	U	.0004	U	U	.0004	U	U
2-Amino-4,6-dinitrotoluene		mg/L	.0004	U	U	.0004	U	U	.0004	U	U
2-Nitrotoluene		mg/L	.0004	U	U	.0004	U	U	.00039	J	J
3-Nitrotoluene		mg/L	.0004	U	U	.0006	U	U	.0006	U	U
4-Amino-2,6-dinitrotoluene		mg/L	.0004	U	U	.0004	U	U	.0004	U	U
HMX		mg/L	.001	U	U	.0004	U	U	.0004	U	U
Nitrobenzene		mg/L	.0004	U	U	.0004	U	U	.0004	U	U
RDX		mg/L	.0004	U	U	.0004	U	U	.0004	U	U
Tetryl		mg/L	.0004	U	U	.0004	U	U	.0004	U	U
p-Nitrotoluene		mg/L	.0004	U	U	.0006	U	U	.0006	U	U
METALS											
SW6010B											
Aluminum		mg/L	2.95			.691			.133	J	B
Antimony		mg/L	.1	U	U	.1	U	U	.1	U	U
Arsenic		mg/L	.01	U	U	.01	U	U	.01	U	U
Barium		mg/L	.0781			.0317			.0164		B
Beryllium		mg/L	.001	U	U	.00248		B	.001	U	U
Cadmium		mg/L	.01	U	U	.01	U	U	.01	U	U
Calcium		mg/L	15.6			1.21			1.57		
Chromium		mg/L	.0103			.00735	J	B	.01	U	U
Cobalt		mg/L	.02	U	U	.0456		B	.02	U	U
Copper		mg/L	.00613	J	B	.00502	J	B	.02	U	U
Iron		mg/L	5.97			1.76			.109	J	J
Lead		mg/L	.01	U	U	.01	U	U	.01	U	U
Magnesium		mg/L	.679	J	J	.866	J	B	.658	J	B
Manganese		mg/L	.057			1.36			.0693		

Summary of Validated Groundwater Data
Lower Range 24 (Parcel 81Q)
Fort McClellan, Alabama

Report Date: 03/20/02

		Location Code:	BK-G08			HR-81Q-MW01			HR-81Q-MW02		
		Associated Site:	HR-81Q			HR-81Q			HR-81Q		
		Sample No:	QD3005			QD3001			QD3002		
		Sample Date:	12-JUL-01			08-AUG-01			08-AUG-01		
User Test Group / *Lab Method* / *Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*	*Result*	*Qual*	*VQual*
METALS											
SW6010B											
Nickel		mg/L	.02	U	U	.00936	J	J	.02	U	U
Potassium		mg/L	13.1			5.03			4.81	J	J
Selenium		mg/L	.00202	J	B	.01	U	U	.01	U	U
Silver		mg/L	.01	U	U	.01	U	U	.01	U	U
Sodium		mg/L	9.58			1.49			1.56		
Thallium		mg/L	.01	U	U	.01	U	U	.01	U	U
Vanadium		mg/L	.00805	J	B	.00626	J	B	.01	U	U
Zinc		mg/L	.0916			.02	U	U	.02	U	U
SW7470A											
Mercury		mg/L	.0005	U	U	.0005	U	U	.0005	U	U

Summary of Validated Surface Water Data
Lower Range 24 (Parcel 81Q)
Fort McClellan, Alabama

Report Date: 03/20/02

Location Code: HR-81Q-SW/SD01
Associated Site: HR-81Q
Sample No: QD2001
Sample Date: 27-AUG-01

User Test Group / *Lab Method* / *Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*
EXPLOSIVES					
SW8330					
1,3,5-Trinitrobenzene		mg/L	.0004	U	U
1,3-Dinitrobenzene		mg/L	.0004	U	U
2,4,6-Trinitrotoluene		mg/L	.0004	U	U
2,4-Dinitrotoluene		mg/L	.0004	U	U
2,6-Dinitrotoluene		mg/L	.0004	U	U
2-Amino-4,6-dinitrotoluene		mg/L	.0004	U	U
2-Nitrotoluene		mg/L	.0004	U	U
3-Nitrotoluene		mg/L	.0006	U	U
4-Amino-2,6-dinitrotoluene		mg/L	.0004	U	U
HMX		mg/L	.0004	U	U
Nitrobenzene		mg/L	.0004	U	U
RDX		mg/L	.0004	U	U
Tetryl		mg/L	.0004	U	U
p-Nitrotoluene		mg/L	.0006	U	U
METALS					
SW6010B					
Aluminum		mg/L	.2	U	U
Antimony		mg/L	.1	U	U
Arsenic		mg/L	.01	U	U
Barium		mg/L	.0223		
Beryllium		mg/L	.001	U	U
Cadmium		mg/L	.01	U	U
Calcium		mg/L	.844	J	J
Chromium		mg/L	.01	U	U
Cobalt		mg/L	.02	U	U
Copper		mg/L	.02	U	U
Iron		mg/L	.0698	J	J
Lead		mg/L	.01	U	U
Magnesium		mg/L	.595	J	J
Manganese		mg/L	.00992	J	J

Summary of Validated Surface Water Data
Lower Range 24 (Parcel 81Q)
Fort McClellan, Alabama

Report Date: 03/20/02

Location Code:	HR-81Q-SW/SD01
Associated Site:	HR-81Q
Sample No:	QD2001
Sample Date:	27-AUG-01

User Test Group / *Lab Method* / *Parameter*	*Flt*	*Units*	*Result*	*Qual*	*VQual*
METALS					
SW6010B					
Nickel		mg/L	.02	U	U
Potassium		mg/L	5	U	U
Selenium		mg/L	.00201	J	J
Silver		mg/L	.01	U	U
Sodium		mg/L	1.06		
Thallium		mg/L	.01	U	U
Vanadium		mg/L	.01	U	U
Zinc		mg/L	.02	U	U
SW7470A					
Mercury		mg/L	.0005	U	U

Summary of Validated Sediment Data
Lower Range 24 (Parcel 81Q)
Fort McClellan, Alabama

Report Date: 03/20/02

Location Code:	HR-81Q-SW/SD01			
Associated Site:	HR-81Q			
Sample No:	QD1001			
Sample Date:	27-AUG-01			
Sample Depth:	0 - .5			
User Test Group / Lab Method / Parameter	*Units*	*Result*	*Qual*	*VQual*
EXPLOSIVES				
SW8330				
1,3,5-Trinitrobenzene	mg/kg	.4	U	U
1,3-Dinitrobenzene	mg/kg	.4	U	U
2,4,6-Trinitrotoluene	mg/kg	.4	U	U
2,4-Dinitrotoluene	mg/kg	.4	U	U
2,6-Dinitrotoluene	mg/kg	.4	U	U
2-Amino-4,6-dinitrotoluene	mg/kg	.4	U	U
2-Nitrotoluene	mg/kg	.4	U	U
3-Nitrotoluene	mg/kg	.4	U	U
4-Amino-2,6-dinitrotoluene	mg/kg	.4	U	U
HMX	mg/kg	.4	U	U
Nitrobenzene	mg/kg	.4	U	U
RDX	mg/kg	.4	U	U
Tetryl	mg/kg	.4	U	U
p-Nitrotoluene	mg/kg	.4	U	U
METALS				
SW6010B				
Aluminum	mg/kg	5400		
Antimony	mg/kg	12.5	U	UJ
Arsenic	mg/kg	4.22		
Barium	mg/kg	52.7		
Beryllium	mg/kg	.637	J	B
Cadmium	mg/kg	.625	U	U
Calcium	mg/kg	190		
Chromium	mg/kg	8.36		
Cobalt	mg/kg	8.3		
Copper	mg/kg	5.35		
Iron	mg/kg	21400		
Lead	mg/kg	5.63		
Magnesium	mg/kg	462		
Manganese	mg/kg	371		J

Summary of Validated Sediment Data
Lower Range 24 (Parcel 81Q)
Fort McClellan, Alabama

Report Date: 03/20/02

Location Code:		HR-81Q-SW/SD01		
Associated Site:		HR-81Q		
Sample No:		QD1001		
Sample Date:		27-AUG-01		
Sample Depth:		0 - .5		
User Test Group / Lab Method / Parameter	*Units*	*Result*	*Qual*	*VQual*
METALS				
SW6010B				
Nickel	mg/kg	5.17		
Potassium	mg/kg	1310		
Selenium	mg/kg	1.25	U	U
Silver	mg/kg	1.06	J	J
Sodium	mg/kg	125	U	U
Thallium	mg/kg	2.5	U	U
Vanadium	mg/kg	15.1		
Zinc	mg/kg	12.3		
SW7471A				
Mercury	mg/kg	.125	U	U
TOC				
SW9060				
Total Organic Carbon	mg/kg	28.9		

GRAIN SIZE ANALYSIS

Duane Nielsen
IT Corporation
November 12, 2001
IT Project ID: Fort McClellan
IT Project No.: 796887.11020300

IT GEOTECHNICAL LABORATORY
OAK RIDGE, TN
(865) 482-6497

PARTICLE-SIZE ANALYSIS
ASTM D 422

Project Name Fort McClellan

Client Sample No. QD1001

Project No. 796887.11020300

IT Lab Sample No. ETDC-9766
HR-81Q-SW/SD01

Specific Gravity = 2.65
assumed for calculations

Moisture Content = 23.4%
based on dry sample weight

SIEVE ANALYSIS

COARSE	Sieve No.	Diameter mm	Percent Finer
	3"	75.000	100.0%
	1.5"	37.500	100.0%
	0.75"	19.000	100.0%
	0.375"	9.500	77.1%
	#4	4.750	55.1%
	#10	2.000	37.8%

FINE	Sieve No.	Diameter mm	Percent Finer
	#20	0.850	24.1%
	#40	0.425	10.4%
	#60	0.250	5.3%
	#100	0.149	3.3%
	#140	0.106	2.6%
	#200	0.075	2.2%

HYDROMETER ANALYSIS

HYDROMETER	Diameter mm	Percent Finer
	0.03650	2.2%
	0.02325	1.8%
	0.01351	1.5%
	0.00957	1.3%
	0.00678	1.1%
	0.00385	0.7%
	0.00328	0.4%
	0.00138	0.4%

44.9% Gravel 52.9% Sand 2.2% Silt/Clay

Duane Nielsen
IT Corporation
November 12, 2001
IT Project ID: Fort McClellan
IT Project No.: 796887.11020300

IT GEOTECHNICAL LABORATORY
OAK RIDGE, TN
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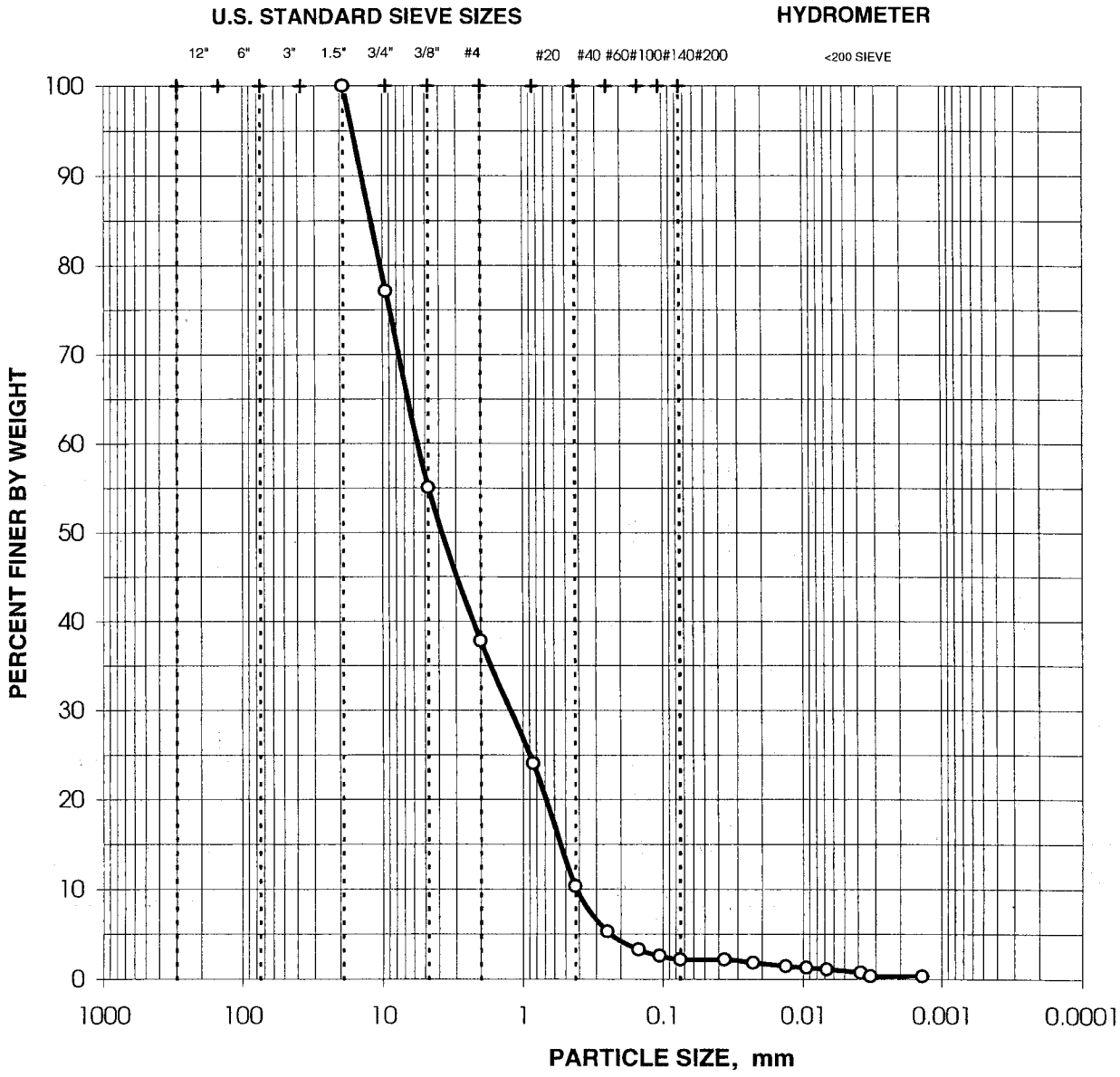
Fort McClellan



CLIENT SAMPLE NO.: QD1001

IT LAB SAMPLE NO.: ETDC-9766

BOULDERS	COBBLES	GRAVEL		SAND			
		COARSE	FINE	COARSE	MEDIUM	FINE	SILT 2 - 75 microns CLAY <2 microns