

BORING/WELL LOGS

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BORING LOG

BK-G04

CLIENT: ECG, INC.

SITE: FORT MCCLELLAN LANDFILL

BORING # MW5-94

DATE 3/21/94

LAB RESULTS	VISUAL	ODOR	SAMPLES		DEPTH	SYMBOL	DESCRIPTION	COMMENTS
					5		SOIL MEDIUM DARK RED CLAY, SANDY, CHERT FRAGS.	BORING WAS ORIGINALLY AD- VANCED WITH 7" AUGERS TO 40'. BORING WAS RESUMED TO 32" WITH 10" AUGERS WHERE THEY WERE REFUSED.
					10		ORANGISH RED CLAY, NUMEROUS CHERT FRAGS.	
					15			12'- FIRST FREE WATER
					20		TAN CLAY, CHERT FRAGMENTS, MOIST	
					25		LIGHT TAN CLAY, DENSE, NO SAND	
					30			25' TO TOTAL DEPTH - HARD INTERMITTENT STRAKS (POSSIBLE WEATHERED BEDROCK OR HARDPANS)
					35		LIGHT BROWN CLAY, DENSE, WET, SHALE FRAGS	
					40		TOTAL DEPTH AT 40' IN LIGHT BROWN CLAY	BORING WAS COMPLETED AS A 4" GROUNDWATER MONITORING WELL. BOTTOM OF SCREEN WAS SET AT 32'.

DRILLER GRAVES

TOTAL DEPTH 40'

ENVIRONMENTAL RISK ASSESSMENT SERVICES, INC.

SURFACE EL. HOLE DIA. 7" & 10"

BY BOB WHITE

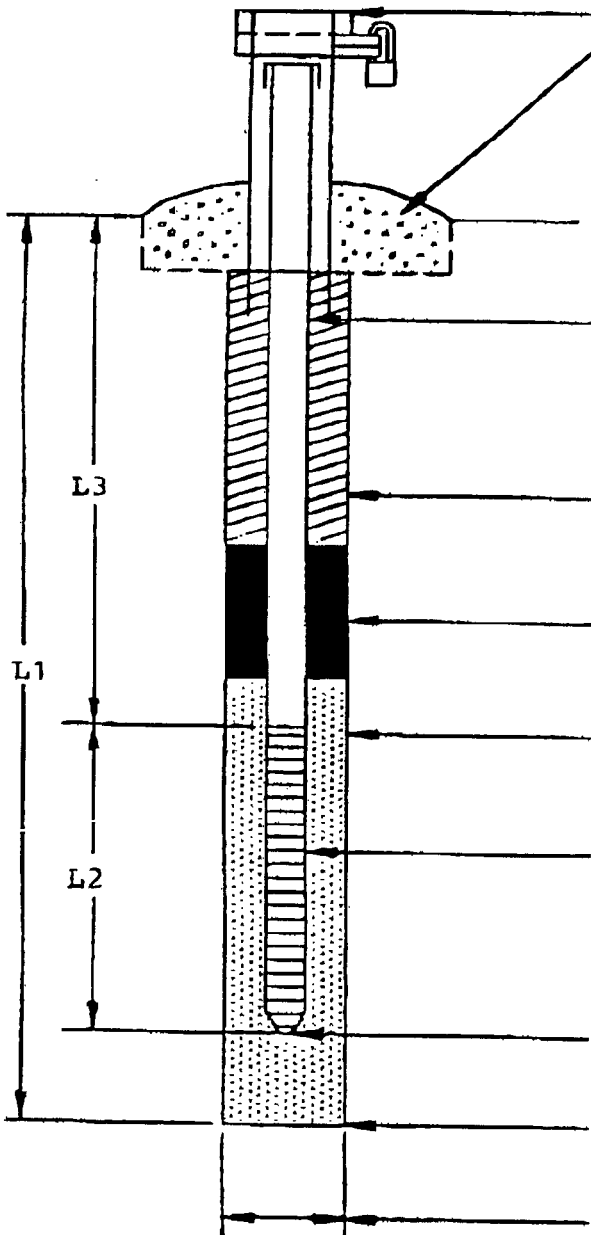
PO BOX 361003 BIRMINGHAM, ALABAMA 35236
PHONE 205-987-3727 FAX 205-987-3266



ABOVE GRADE MONITOR WELL CONSTRUCTION DIAGRAM

CLIENT ECG, INC.	SITE FORT MCCLELLAM LANDFILL	MW# 5-94	DATE INSTALLED 3/21/94
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CROSS-SECTIONAL VIEW



LOCKING PROTECTIVE CASING AND CONCRETE PAD

CASING MATERIAL	STEEL
CASING DIAMETER	8"
CASING LENGTH	5'
PAD DIMENSIONS	2.5' X 2.5' X 6" AVG.

GROUND ELEVATION _____

WELL CASING MATERIAL	PVC
DIAMETER	4"
JOINT TYPE	FLUSH THREADS
LENGTH	14.5'

BACKFILL AROUND CASING MATERIAL	GROUT
THICKNESS	6.0'

SEAL TYPE OF SEAL	BENTONITE
THICKNESS	3.0'

FILTER PACK TYPE OF FILTER	20/40 SAND
DISTANCE ABOVE SCREEN	3'

WELL SCREEN SCREEN MATERIAL	SLOTTED PVC
DIAMETER	4"
LENGTH	20'
SLOT SIZE	0.010"

DEPTH TO BOTTOM OF MONITORING WELL 32'

DEPTH TO BOTTOM OF FILTER SAND 40'

DIAMETER OF BOREHOLE 0-32'=10", 32-40'=7"

L1 40' L2 20' L3 12' CASING ELEVATION 753.32'

NOT DRAWN TO SCALE

DRILLER GRAVES	DRAWN BY: BOB WHITE	ENVIRONMENTAL RISK ASSESSMENT SERVICES, INC. PO BOX 361003 BIRMINGHAM, ALABAMA 35236 PHONE 205-987-3727 FAX 205-987-3266
DATE DEVELOPED: 3/23/94	STATIC WL. 10.31' (3/23/94)	
METHOD OF DEVELOPMENT PUMPING		

SOIL BORING/WELL LOG

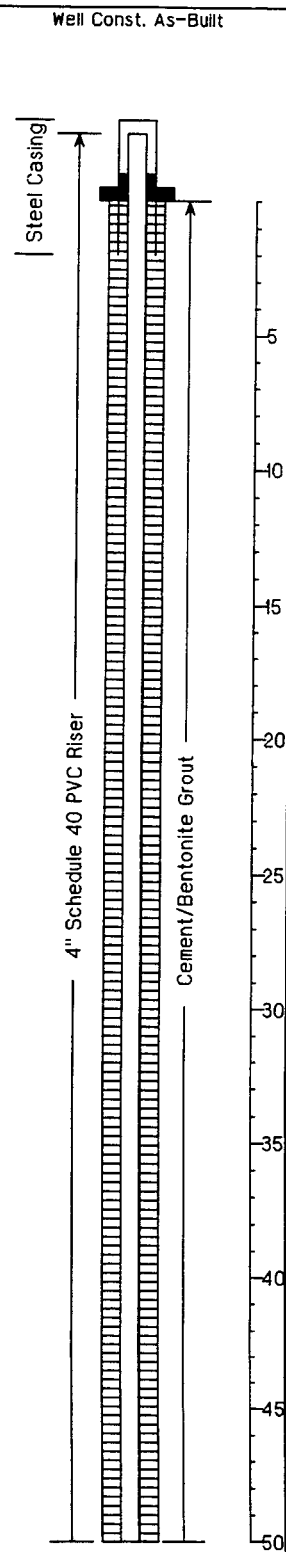
Project Name: Fort McClellan RI/FS Site Location: Background (Southeast of T24A) Monitoring Well No.: BK-G06
 SAIC Project No.: 01-0827-03-6520 Northing (ft): 1157688.93 Start/Finish Date: 04-14-94/04-16-94
 Geologist: Chuck Houck Easting (ft): 522618.02 Well Completion Depth (ft): 20.0
 Drilling Co.: Environmental Exploration, Inc. Groundwater Elev. (ft): 1016.27 Drilled Depth (ft): 20.0
 Driller: Kevin Bray Drilling Method: Hollow Stem Auger Surface Elevation (ft): 1020.55
 Drill Rig: CME Model 75 Sampling Method: Split Spoon Top of Casing Elevation (ft): 1022.59

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	H ₂ O (ppm)/LEL	Blows/6 in.	Sample No.	Sample Type	Sample Rec (ft)	
	OL		Organic-Silt, w/10% Gravel. 7.5YR3/2 dark brown; roots	0/0	12-4-3-4	1	SS	1.6	<p style="text-align: center;">Well Const. As-Built</p>
	CL		Silty Clay, 15% Silt. 7.5YR4/4 dark brown; moist	0/0	3-4-10-15	2	SS	1.0	
5	ML		Gravelly Silt, 10% clay, 20% sand. 7.5YR5/6 strong brown; very moist; angular to sub angular gravels (>20mm); cobbles at 5' per driller						
	GC		Gravelly Clay, 10% Silt. 10YR5/4 yellowish brown; soft; moist						
	ML		Clayey silt, 20% large gravels. 10YR5/6 yellowish brown; soft; moist	0/0	2-3-3-3	3	SS	1.5	
	GC		Gravelly Clayey-Silt. 10YR5/6 yellowish brown; soft; moist moist	0/0	3-4-7-8	4	SS	2.0	
10	ML		Silt, 10% Clay-Mottled. 5B5/1, 6/1 bluish gray and rust (iron stained); slightly moist						
	SM		Silty sand, fine to coarse Sand, 10% gravel. poorly sorted; moist	0/0	2-2-2-5	5	SS	1.6	
15	ML		Clayey Silt. 5YR5/6 yellowish red; soft; moist	0/0	10-50/4"	6	SS	NR	
	SC		Silt, 10% Clay. 10YR6/1 gray; med soft; slightly moist						
	NA		Silt stone. fissile, well cemented; rust stained						
	NA		Fractured bed rock-iron stained						
20			Bottom of Boring at 20.0 feet						
			Note: NR= Not Recorded, NA=Not Applicable SS=Split Spoon, Borehole Diameter=1.75"						

SOIL BORING/WELL LOG

Project Name: <u>Fort McClellan</u>	Site Location: <u>Main Post</u>	Monitoring Well No.: <u>BK-G07</u>
SAIC Project No.: <u>01-0827-03-6520</u>	Northing (ft): <u>1178287.90</u>	Start/Finish Date: <u>7-20-97</u>
Geologist: <u>Brad Baker / Susan L. Abston</u>	Easting (ft): <u>521619.98</u>	Well Completion Depth (ft): <u>70.7</u>
Drilling Co.: <u>Miller Drilling</u>	Groundwater Depth (ft): <u>50.7</u>	Drilled Depth (ft): <u>93.5</u>
Driller: <u>Pete Brown / David Gentry</u>	Drilling Method: <u>Hollowstem auger / Air rotary</u>	Surface Pad Elevation (ft): <u>919.552</u>
Drill Rig: <u>B-59 Auger rig / Shramm air rig</u>	Sampling Method: <u>3" Split spoon</u>	Top of Casing Elevation (ft): <u>922.038</u>

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec. (ft.)	Sample Type And #	OVA (ppm)
0 to 5.0'			0 to 5.0': Not recorded.				
5.0 - 10.0'	ML		Gravelly silt, 35% sub-angular coarse sandstone gravel. 5YR5/8 yellow red; low plasticity; very dense; moist; very poorly sorted.	12-20-32-60	1.2	1	0.7
10.0 - 15.0'			Silt, 20% sub-rounded very fine sand. 2.5YR5/8 red, with brown yellow; medium plasticity; dense; moist; poorly sorted.	10-11-16-32	1.7	2	0.0
15.0 - 20.0'	SM		Silty sub-rounded medium to coarse sand. 2.5YR6/8 light red, with brown yellow and light gray; very dense; moist poorly sorted.	10-15-31-32	1.6	3	0.0
20.0 - 25.0'			Sandy clay, 30% sub-rounded medium sand. 2.5YR5/6 red with brown yellow and light gray; high plasticity; very stiff; very moist; very poorly sorted.	6-6-9-8	1.8	4	0.0
25.0 - 30.0'	CH		Silty clay, trace sub-rounded very fine sand. 7.5YR6/8 red yellow, with light gray; high plasticity; hard; moist; poorly sorted.	9-12-16-21	1.8	5	0.0
30.0 - 35.0'				11-14-18-22	1.8	6	0.0
35.0 - 40.0'				10-12-16-20	1.9	7	0.0
40.0 - 45.0'				Clay, trace silt, trace sub-rounded very fine to coarse sand. 7.5YR6/8 red yellow, with medium red and light gray mottling; high plasticity; hard; moist; poorly sorted.	9-12-14-21	2.0	8
45.0 - 50.0'			Clay, trace silt, trace sub-rounded very fine to coarse sand. 7.5YR6/8 red yellow, with medium red and light gray mottling; high plasticity; hard; moist; poorly sorted.	8-12-16-20	2.0	9	0.0
50.0 - 55.0'				9-10-11-19	2.0	10	0.0



SOIL BORING/WELL LOG

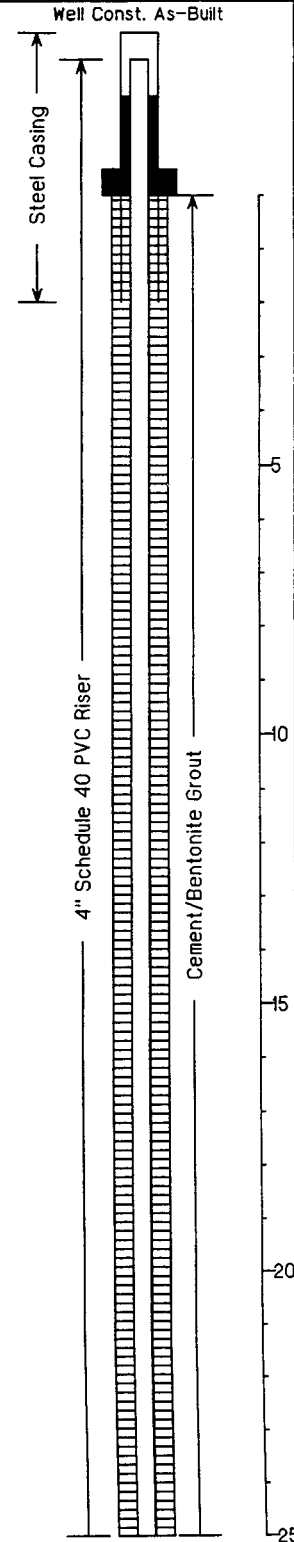
Project Name: Fort McClellan Site Location: Main Post Monitoring Well No.: BK-G07
 SAIC Project No.: 01-0827-03-6520 Northing (ft): 1178287.90 Start/Finish Date: 7-20-97
 Geologist: Brad Baker / Susan L. Abston Easting (ft): 521619.98 Well Completion Depth (ft): 70.7
 Drilling Co.: Miller Drilling Groundwater Depth (ft): 50.7 Drilled Depth (ft): 93.5
 Driller: Pete Brown / David Gentry Drilling Method: Hollowstem auger / Air rotary Surface Pad Elevation (ft): 919.552
 Drill Rig: B-59 Auger rig / Shramm air rig Sampling Method: 3" Split spoon Top of Casing Elevation (ft): 922.038

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 In.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)	Well Const. As-Built
50.7' to 50.9'			Interbedded gravel. Saturated.	9-10-11-19	2.0	10	0.0	
55			Clay, 20% sub-rounded coarse sand. 7.5YR5/6 strong brown, with brown yellow; high plasticity; very stiff; moist; poorly sorted.	9-12-12-15	1.6	11	0.0	
60			Weathered fine sandstone. 7.5YR6/8 red yellow; silica cemented; horizontal fissile fracturing; dense.	6-26-9-6	0.5	12	0.0	
65				NR	1.5	13	0.0	
70	CH		Clay, 20% sub-angular coarse sand. 7.5YR4/4 brown, with dark red brown and black staining; very high plasticity; moist; very poorly sorted.					
75				NR	1.5	14	0.0	
80								
85			Clay, 20% sub-angular coarse sand. 7.5YR4/4 brown, with dark red brown and black staining; very high plasticity; moist; very poorly sorted. 84.2' to 85.2': Weathered chert.	NA	NA	NA	0.0	
90	GW		Gravel. Saturated.					
95			Weathered limestone fragments. Saturated.					
95			Limestone bedrock at 93.5 feet below ground surface. Borehole diameter=8.5 inches. Note: NR=Not Recorded, NA=Not Applicable.					
100								

SOIL BORING/WELL LOG

Project Name: <u>Fort McClellan</u>	Site Location: <u>Main Post</u>	Monitoring Well No.: <u>BK-G08</u>
SAIC Project No.: <u>01-0827-03-6520</u>	Northing (ft): <u>1170171.33</u>	Start/Finish Date: <u>7-17-97 / 8-29-97</u>
Geologist: <u>Brad Baker / Susan Abston</u>	Easting (ft): <u>524893.50</u>	Well Completion Depth (ft): <u>55</u>
Drilling Co.: <u>Miller Drilling</u>	Groundwater Depth (ft): <u>43.0</u>	Drilled Depth (ft): <u>63</u>
Driller: <u>Pete Brown / David Gentry</u>	Drilling Method: <u>Hollowstem auger / Air rotary</u>	Surface Pad Elevation (ft): <u>966.946</u>
Drill Rig: <u>B-59 Auger rig / Shramm air rig</u>	Sampling Method: <u>3" Split spoon</u>	Top of Casing Elevation (ft): <u>969.644</u>

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec. (ft.)	Sample Type And #	OVA (ppm)
			0 to 4.0': Not recorded.				
5	SM	[Symbol: Dotted pattern]	Silty sub-rounded medium sand, trace black organics. 7.5YR6/6 red yellow, with slight light gray mottling; low to medium plasticity; very dense; moist; poorly sorted.	11-27-29-29	1.8	1	0.2
10	SW	[Symbol: Dotted pattern]	Silty medium sand, 25% silty clay, 25% sub-rounded to sub-angular gravel. 7.5YR7/6 red yellow with red and light gray; low plasticity; very dense; moist; very poorly sorted.	38-35-38-94	1.5	2	0.1
15			Sandy silt, 30% sub-rounded very fine sand. 10YR8/3 very pale brown, with red silt laminations; very low plasticity; very dense; slightly moist to dry; poorly sorted.	45-94-125-50/2"	1.2	3	0.1
20	ML			22-68-50/3"	2.0	4	0.0
25				69-89-116-50/1"	2.0	5	0.0



SOIL BORING/WELL LOG

Project Name: <u>Fort McClellan</u>	Site Location: <u>Main Post</u>	Monitoring Well No.: <u>BK-G08</u>
SAIC Project No.: <u>01-0827-03-6520</u>	Northing (ft): <u>1170171.33</u>	Start/Finish Date: <u>7-17-97 / 8-29-97</u>
Geologist: <u>Brad Baker / Susan Abston</u>	Easting (ft): <u>524893.50</u>	Well Completion Depth (ft): <u>55</u>
Drilling Co.: <u>Miller Drilling</u>	Groundwater Depth (ft): <u>43.0</u>	Drilled Depth (ft): <u>63</u>
Driller: <u>Pete Brown / David Gentry</u>	Drilling Method: <u>Hollowstem auger / Air rotary</u>	Surface Pad Elevation (ft): <u>966.946</u>
Drill Rig: <u>B-59 Auger rig / Shramm air rig</u>	Sampling Method: <u>3" Split spoon</u>	Top of Casing Elevation (ft): <u>969.644</u>

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec. (ft.)	Sample Type And #	OVA (ppm)	Well Const. As-Built
30			Silt, 20% sub-rounded very fine sand. 2Gley8/1 light blue gray, with red and yellow brown; low plasticity; very dense; slightly moist; poorly sorted. 25.5': Color change to 10YR6/6 brown yellow, with light gray.	69-89-116-50/1"	2.0	5	0.0	<p style="text-align: center;">Well Const. As-Built</p> <p style="text-align: center;">4" Schedule 40 PVC Riser</p> <p style="text-align: center;">Bentonite Seal</p> <p style="text-align: center;">Sand Filter Pack</p> <p style="text-align: center;">4" 10 Slot Schedule 40 PVC Screen</p>
35			34.0': Color change to 2Gley8/1 light blue gray, with brown yellow.	58-127-50/2"	2.0	6	0.0	
40			39.0': Color change to 10R7/3 red with light gray.	8-50-100/3"	2.0	8	0.0	
45				30-89-50/3"	NR	9	0.0	
50	SM		Silty sub-rounded medium sand. 10YR5/8 yellow brown, with light gray and red; low plasticity; very dense; moist; poorly sorted.	60-90-109-110/3"	2.0	10	0.0	

ML

4" 10 Slot Schedule 40 PVC Screen

SOIL BORING/WELL LOG

Project Name: Fort McClellan Site Location: Main Post Monitoring Well No.: BK-G09
 SAIC Project No.: 01-0827-03-6520 Northing (ft): 1164298.18 Start/Finish Date: 7-15-97 / 8-29-97
 Geologist: Brad Baker / Susan Abston Easting (ft): 517976.51 Well Completion Depth (ft): 144.2
 Drilling Co.: Miller Drilling Groundwater Depth (ft): 139 Drilled Depth (ft): 145.5
 Driller: Pete Brown / David Gentry Drilling Method: Auger / Air rotary Surface Pad Elevation (ft): 873.519
 Drill Rig: B-59 Auger rig / Air rotary rig Sampling Method: 3" Split spoon Top of Casing Elevation (ft): 876.089

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec. (ft.)	Sample Type And #	OVA (ppm)	Well Const. As-Built
0 to 4.0'			Not recorded.					<p style="text-align: center;">Well Const. As-Built</p> <p style="text-align: center;">Steel Casing</p> <p style="text-align: center;">4" Schedule 40 PVC Riser</p> <p style="text-align: center;">Cement/Bentonite Grout</p>
5			Sandy silt, 30% sub-rounded very coarse sand. 2.5YR5/8 red, with brown yellow mottling; slight plasticity; dense; moist; poorly sorted.	6-5-8-14	1.7	1	NR	
10			Silt, 20% sub-rounded very fine sand. 10YR7/8 yellow, with red; moderate plasticity; dense; moist; poorly sorted.	11-8-13-18	2.0	2	NR	
15	ML		14.0': Trace MnO ₂ staining present.	5-13-13-20	2.0	3	NR	
20				8-13-18-21	2.0	4	NR	
25	CH		Silty clay, trace very fine sand. 7.5YR6/6 red yellow, with red and light gray mottling, trace MnO ₂ staining; medium to high plasticity; very dense; very moist; poorly sorted.	9-15-19-32	2.0	5	NR	
30			29.0': Auger refusal against bedrock. Continue drilling with air rotary rig.					
35			Limestone, 20% weathered calcited surface. 10YR5/1 gray; fine grained.					
40				NA	NA	NA	NR	
50								


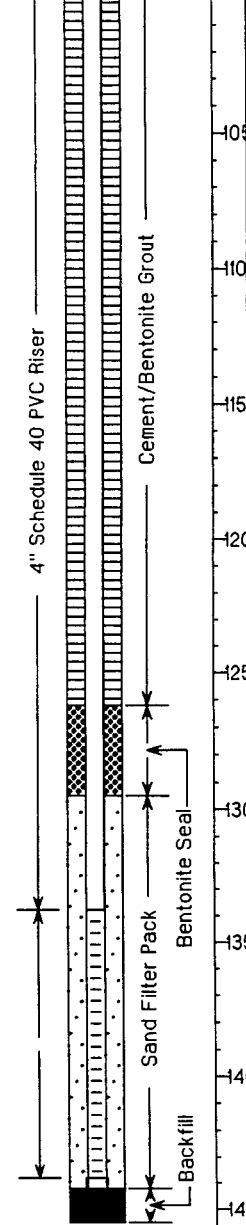
SOIL BORING/WELL LOG

Project Name: <u>Fort McClellan</u>	Site Location: <u>Main Post</u>	Monitoring Well No.: <u>BK-G09</u>
SAIC Project No.: <u>01-0827-03-6520</u>	Northing (ft): <u>1164298.18</u>	Start/Finish Date: <u>7-15-97 / 8-29-97</u>
Geologist: <u>Brad Baker / Susan Abston</u>	Easting (ft): <u>517976.51</u>	Well Completion Depth (ft): <u>144.2</u>
Drilling Co.: <u>Miller Drilling</u>	Groundwater Depth (ft): <u>139</u>	Drilled Depth (ft): <u>145.5</u>
Driller: <u>Pete Brown / David Gentry</u>	Drilling Method: <u>Auger / Air rotary</u>	Surface Pad Elevation (ft): <u>873.519</u>
Drill Rig: <u>B-59 Auger rig / Air rotary rig</u>	Sampling Method: <u>3" Split spoon</u>	Top of Casing Elevation (ft): <u>876.089</u>

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec. (ft.)	Sample Type And #	OVA (ppm)	Well Const. As-Built
55 60 65 70 75 80 85 90 95 100		[Lithologic Symbol: Stippled pattern]	Microcrystalline limestone, trace calcite stringers. 10YR4/1 dark gray.	NA	NA	NA	NR	<div style="text-align: center;">Well Const. As-Built</div>

SOIL BORING/WELL LOG

Project Name: Fort McClellan Site Location: Main Post Monitoring Well No.: BK-609
 SAIC Project No.: 01-0827-03-6520 Northing (ft): 1164298.18 Start/Finish Date: 7-15-97 / 8-29-97
 Geologist: Brad Baker / Susan Abston Easting (ft): 517976.51 Well Completion Depth (ft): 144.2
 Drilling Co.: Miller Drilling Groundwater Depth (ft): 139 Drilled Depth (ft): 145.5
 Driller: Pete Brown / David Gentry Drilling Method: Auger / Air rotary Surface Pad Elevation (ft): 873.519
 Drill Rig: B-59 Auger rig / Air rotary rig Sampling Method: 3" Split spoon Top of Casing Elevation (ft): 876.089

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec. (ft.)	Sample Type And #	OVA (ppm)	Well Const. As-Built
105 110 115 120 125 130 135 140 145 150			Microcrystalline limestone, trace calcite stringers. 10YR4/1 dark gray.	NA	NA	NA	NR	
			Saturated limestone.	NA	NA	NA	NR	
			<i>Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Limestone bedrock encountered at 29 feet below ground surface.</i> <i>Note: NR=Not Recorded, NA=Not Applicable.</i>					

SOIL BORING/WELL LOG

Project Name: Fort McClellan Site Location: Main Post Monitoring Well No.: BK-G10
 SAIC Project No.: 01-0827-03-6520 Northing (ft): 1173672.43 Start/Finish Date: 7-31-97
 Geologist: Brad Baker Easting (ft): 512551.81 Well Completion Depth (ft): 53.91
 Drilling Co.: Miller Drilling Groundwater Depth (ft): 45.4 Drilled Depth (ft): 55
 Driller: Pete Brown Drilling Method: Hollowstem auger Surface Pad Elevation (ft): 824.156
 Drill Rig: B-59 Auger rig Sampling Method: 2" Split spoon Top of Casing Elevation (ft): 823.909

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec. (ft.)	Sample Type And #	OVA (ppm)	Well Const. As-Built
			0 to 4.0': Not recorded.					
5	CL		Sandy clay, 30% coarse sub-rounded sand, trace gravel. 10R5/8 red mottled with trace white; medium plasticity; hard; moist; poorly sorted.	9-21-26-19	0.8	1	1.0	
10			Silt, trace fine sand. 2.5YR6/8 light red mottled with medium red and white; low to medium plasticity; dense; moist; poorly sorted.	10-12-18-24	0.8	2	0.7	
15			14.0: Color change to 7.5YR6/6 red yellow mottled with medium red, dark red, and trace white.	15-29-52-62	1.6	3	0.0	
20	ML		Silt, trace very fine sand. 10YR6/6 brown yellow with light red mottling, and dark brown weathering; low plasticity; very dense; moist; poorly sorted.	23-45-55-72	1.6	4	1.0	
25			Silt, trace sub-rounded to sub-angular coarse sand to fine gravel. 10YR6/4 yellow brown with white and dark brown weathering; low plasticity; very dense; moist; poorly sorted; slightly fissile.	20-40-56-79	2.0	5	0.9	
30			29.0: Medium fissile at 30 degrees to verticle.	21-53-67-92	1.9	6	0.5	

SOIL BORING/WELL LOG

Project Name: Fort McClellan Site Location: Main Post Monitoring Well No.: BK-G10
 SAIC Project No.: 01-0827-03-6520 Northing (ft): 1173672.43 Start/Finish Date: 7-31-97
 Geologist: Brad Baker Easting (ft): 512551.81 Well Completion Depth (ft): 53.91
 Drilling Co.: Miller Drilling Groundwater Depth (ft): 45.4 Drilled Depth (ft): 55
 Driller: Pete Brown Drilling Method: Hollowstem auger Surface Pad Elevation (ft): 824.156
 Drill Rig: B-59 Auger rig Sampling Method: 2" Split spoon Top of Casing Elevation (ft): 823.909

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec. (ft.)	Sample Type And #	OVA (ppm)	Well Const. As-Built	
35			Silt, trace sub-rounded to sub-angular coarse sand to fine gravel. 10YR6/4 yellow brown with white and dark brown weathering; low plasticity; very dense; moist; poorly sorted.	21-53-67-92	1.9	6	0.5	<p style="font-size: small;"> 4" Schedule 40 PVC Riser Cement/Bentonite Grout Bentonite Seal Sand Filter Pack 4" 10 Slot Schedule 40 PVC Screen Backfill </p>	
40				22-35-44-67	1.9	7	0.0		
45					21-33-45-47	1.7	8		0.3
50					36-42-72-127	2.0	9		0.0
55					58-100-50/3"	1.2	10		0.0
60					37-77-75/3"	2.0	11		0.0
			Bottom of boring at 55 feet below ground surface. Borehole diameter=8.5". Note: NR=Not Recorded, NA=Not Applicable.						

SOIL BORING/WELL LOG

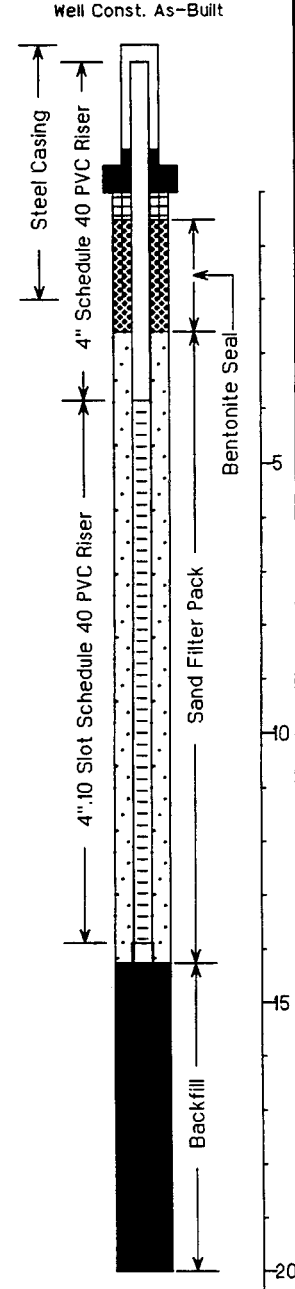
Project Name: <u>Fort McClellan</u>	Site Location: <u>Main Post</u>	Monitoring Well No.: <u>BK-G11</u>
SAIC Project No.: <u>01-0827-03-6520</u>	Northing (ft): <u>1168222.17</u>	Start/Finish Date: <u>7-29-97 / 7-30-97</u>
Geologist: <u>Brad Baker / Susan L. Abston</u>	Easting (ft): <u>516900.09</u>	Well Completion Depth (ft): <u>42.3</u>
Drilling Co.: <u>Miller Drilling</u>	Groundwater Depth (ft): <u>22.5</u>	Drilled Depth (ft): <u>42.8</u>
Driller: <u>Pete Brown / Dave Gentry</u>	Drilling Method: <u>Hollowstem auger / Air rotary</u>	Surface Pad Elevation (ft): <u>804.654</u>
Drill Rig: <u>B-59 Auger rig / Shramm air rig</u>	Sampling Method: <u>3" Split spoon</u>	Top of Casing Elevation (ft): <u>807.267</u>

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec. (ft.)	Sample Type And #	OVA (ppm)	Well Const. As-Built	
0 to 3.6'			Not recorded.						
5	ML	[Diagonal hatching symbol]	Clayey silt, 25% fine to very coarse, rounded sand. 5YR5/8 yellow red mottled with brown yellow; low to medium plasticity; very dense; moist; very poorly sorted.	14-26-26-35	1.7	1	0.0		
4.5' to 4.6'			Interbedded fine to very coarse rounded sand.	17-24-24-31	1.9	2	0.0		
5.2' to 5.3'			Interbedded fine to very coarse rounded sand.						
15			Clayey silt, trace sub-rounded coarse sand, trace angular sandstone fragments. 5YR5/8 yellow red mottled with brown yellow to light gray; medium plasticity; very dense; moist; poorly sorted.	14-15-27-35	1.7	3	0.0		
20			Gravelly silt, 25% fine to medium limestone gravel, trace medium to coarse sub-rounded sand. 5YR5/8 yellow red mottled with brown to brown yellow; low to medium plasticity; dense; moist; very poorly sorted.	23-16-23-21	1.8	4	0.0		
25	CH	[Diagonal hatching symbol]	Sandy clay, 35% medium sand, trace gravel. 10YR6/6 brown yellow mottled with white and trace red; high plasticity; hard; wet; poorly sorted.	1-1-23-11	0.8	5	0.0		
30			Sandy clay, 40% coarse sub-rounded sand. 10YR6/6 brown yellow; high plasticity; stiff; wet; poorly sorted.	9-9-6-7	0.6	6	0.0		
35	CH	[Diagonal hatching symbol]	Gravelly clay, 40% angular, well cemented medium to fine grained limestone fragments. 10YR6/6 brown yellow; high plasticity; hard; very moist; poorly sorted; horizontal to 30 degree fractures.	6-2-75	0.6	7	0.0		
40			33.9'; Continue drilling with Schramm Air Rotary rig. Clay. 10YR6/6 brown yellow; soft; wet.	NA	NA		0.0		
45			Bit refusal at 42.8 feet below ground surface. Borehole diameter=8.5". Note: NR=Not Recorded, NA=Not Applicable.						

SOIL BORING/WELL LOG

Project Name: <u>Fort McClellan</u>	Site Location: <u>Yahou Lake</u>	Monitoring Well No.: <u>BK-YAHOU</u>
SAIC Project No.: <u>01-0827-03-6520</u>	Northing (ft): <u>1158983.75</u>	Start/Finish Date: <u>7-23-97</u>
Geologist: <u>Brad Baker</u>	Easting (ft): <u>510728.04</u>	Well Completion Depth (ft): <u>14.26</u>
Drilling Co.: <u>Miller Drilling</u>	Groundwater Depth (ft): <u>9.1</u>	Drilled Depth (ft): <u>20</u>
Driller: <u>Pete Brown</u>	Drilling Method: <u>Hollowstem auger</u>	Surface Pad Elevation (ft): <u>992.137</u>
Drill Rig: <u>B-59 Auger rig</u>	Sampling Method: <u>2" Split spoon</u>	Top of Casing Elevation (ft): <u>994.363</u>

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec. (ft.)	Sample Type And #	OVA (ppm)
0 to 3.5'			Not recorded.				
5			Clayey silt, trace very fine sand. 7.5YR7/8 red yellow with light gray, light red and brown yellow mottling; high plasticity; medium dense; moist; poorly sorted.	7-8-12-12	0.8	1	0.0
9.5' to 10.0'			Interbedded clayey fine to coarse sand. Wet.	25-69-59-72	2.0	2	0.0
15			Silt, trace very fine sand. 7.5YR6/8 red yellow with light gray mottling; low plasticity; very dense; moist; poorly sorted; slightly fissile.	37-80/5"	2.0	3	0.0
20			Bottom of boring at 20.0 feet below ground surface. Borehole diameter=8.0". Note: NR=Not Recorded, NA=Not Applicable..				



SOIL BORING/WELL LOG

Project Name: Fort McClellan RI/FS Site Location: T24A Monitoring Well No.: T24A-603
 SAIC Project No.: 01-0827-03-6520 Northing (ft): 1158265.24 Start/Finish Date: 07-01-94/07-01-94
 Geologist: Vickie Metcalfe Easting (ft): 523558.29 Well Completion Depth (ft): 40.0
 Drilling Co.: Well Drilling Inc. Groundwater Elev. (ft): 1020.49 Drilled Depth (ft): 40.0
 Driller: John Sims Drilling Method: Air Rotary Surface Elevation (ft): 1030.48
 Drill Rig: Ingersoll-Rand T3W Sampling Method: Grab Sample Top of Casing Elevation (ft): 1032.83

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	H _{Nu} (ppm)/LEL	Blows/6 in.	Sample No.	Sample Type	Sample Rec (ft)	Well Const. As-Built
0 - 5	CL	▨	Clay. buck red color; topsoil						<p style="text-align: center;">Well Const. As-Built</p> <p style="text-align: center;">Steel Casing</p> <p style="text-align: center;">4" Schedule 40 PVC Riser</p> <p style="text-align: center;">4" .010 Slot Schedule 40 PVC Screen</p> <p style="text-align: center;">Bentonite Seal</p> <p style="text-align: center;">Sand Filter Pack</p> <p style="text-align: center;">Cement/Bentonite Grout</p>
5 - 13		▨	Weathered Shale. light brown color; dry						
13 - 15			Air rotary drilling						
15 - 20									
20 - 25	NA	▨	Shale. 10YR5/1 gray; dry	0/0	NA	1	Grab	NA	
25 - 30			Air rotary drilling						
30 - 35			Water zone						
35 - 40				0/0	NA	2	Grab	NA	
40			Bottom of Boring at 40.0 feet						
<p>Note: NR=Not Recorded, NA=Not Applicable Borehole Diameter=8.0"</p>									



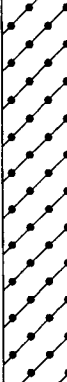
SOIL BORING/WELL LOG

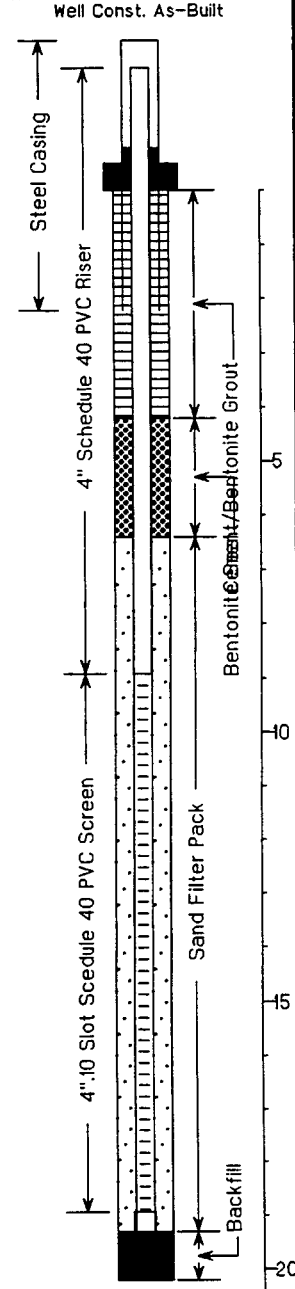
Project Name: Fort McClellan RI/FS Site Location: Landfill #1 Monitoring Well No.: LF1-G01
 SAIC Project No.: 01-0827-03-6520 Northing (ft): 1170252.89 Start/Finish Date: 04-27-94/04-28-94
 Geologist: Chuck Houck Easting (ft): 508707.95 Well Completion Depth (ft): 40.0
 Drilling Co.: Environmental Exploration, Inc. Groundwater Elev. (ft): 768.69 Drilled Depth (ft): 41.5
 Driller: Kevin Bray Drilling Method: Hollow Stem Auger Surface Elevation (ft): 796.36
 Drill Rig: CME Model 75 Sampling Method: Split Spoon Top of Casing Elevation (ft): 796.00

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	H-Nu (ppm)/LEL	Blows/6 in.	Sample No.	Sample Type	Sample Rec (ft)	Well Const. As-Built
	NA	[Hatched]	Grass Fill.						<p style="font-size: small;">Well Const. As-Built</p> <p style="font-size: x-small;">4" Schedule 40 PVC Riser</p> <p style="font-size: x-small;">4" .010 Slot Schedule 40 PVC Screen</p> <p style="font-size: x-small;">Cement/Bentonite Grout</p> <p style="font-size: x-small;">Bentonite Seal</p> <p style="font-size: x-small;">Sand Filter Pack</p> <p style="font-size: x-small;">Backfill</p>
	CL	[Horizontal lines]	Clay, 30-40% Silt, <10% Gravels (<2mm.). 7.5YR 6/6 reddish yellow; firm; dry	NR	5-8-10-25	1	SS	NR	
5	ML	[Dotted]	Silt, 10-30% Clay, <10% Gravels (<2mm.). 10YR6/4 light brown; firm; dry; slight cementation	0/0	13-26-28-28	2	SS	2.0	
				0/0	10-16-26-28	3	SS	2.0	
10	NA	[Diagonal lines]	Weathered Shale, <10% Gravels, bedding intact; 10R6/6 brownish yellow; hard; decomposed; dry; iron stainings	NR	8-18-13-50/5	4	SS	1.9	
				NR	28-50/5	5	SS	.92	
15				NR	18-21-28-38	6	SS	2.0	
20				NR	7-18-43-50/5	7	SS	1.9	
25				NR	8-18-38-50	8	SS	NR	
30	NA	[Diagonal lines]	Weathered Shale/quartz content, 10-20% Silt, <10% Clays, granular sized, sands (fine-med.), increasing in gravity; partial cementation	NR	19-38-50/5	9	SS	NR	
35				0/0	19-50/4	10	SS	NR	
40				NR	19-50	11	SS	NR	
45	NA	[Diagonal lines]	Shale. 2.5YR4/0 dark gray; friable; some rust staining; serpentine; gloss; waxy feel; friable; dry	0/0	12-50/3	12	SS	NR	
			Bottom of Boring at 41.5 feet						
			Note:NR=Not Recorded, NA=Not Applicable SS=Split Spoon, Borehole Diameter=1.75"						

SOIL BORING/WELL LOG

Project Name: <u>Fort McClellan</u>	Site Location: <u>Pelham Range</u>	Monitoring Well No.: <u>GW-BKPR-01</u>
SAIC Project No.: <u>01-0827-03-6520</u>	Northing (ft): <u>1162828.84</u>	Start/Finish Date: <u>8-3-97 / 8-21-97</u>
Geologist: <u>Brad Baker</u>	Easting (ft): <u>447981.08</u>	Well Completion Depth (ft): <u>19.3</u>
Drilling Co.: <u>Miller Drilling</u>	Groundwater Depth (ft): <u>11.0</u>	Drilled Depth (ft): <u>20.2</u>
Driller: <u>Pete Brown</u>	Drilling Method: <u>Hollowstem auger</u>	Surface Pad Elevation (ft): <u>571.254</u>
Drill Rig: <u>B-59 Auger rig</u>	Sampling Method: <u>3" Split spoon</u>	Top of Casing Elevation (ft): <u>573.674</u>

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec. (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
	ML		Silt, trace very fine sub-rounded gravel. 10YR5/6 yellow brown; medium plasticity; dense; moist; poorly sorted.	8-12-18-24	1.6	SAIC01	4.5
5			3.0': Color change to 10YR6/4 brown yellow.	6-9-12-18	1.7	SAIC02	0.5
					8-16-24-104	1.8	SAIC03
	CL		Clay, trace medium to coarse sub-rounded sand. 10YR7/1 light gray mottled with brown yellow; medium plasticity; hard; moist; very poorly sorted.	37-102-92-90	1.6	SAIC04	0.5
10			Clay, 35% angular chert fragments, trace very fine sand. 10YR6/6 brown yellow; medium plasticity; hard; moist; very poorly sorted.	5-6	.75	SAIC05	0.2
			9.0' to 10.0': Fissile texture present.				
	GC		Clayey fine to coarse angular chert gravel. 10YR6/6 brown yellow; medium plasticity; hard; saturated; very poorly sorted.	16-9-8-25/2"	1.2	6	0.0
15							
20			Bottom of boring at 20.2 feet below ground surface. Borehole diameter=8.5 inches.				
			Note: NR=Not Recorded, NA=Not Applicable.				
25							



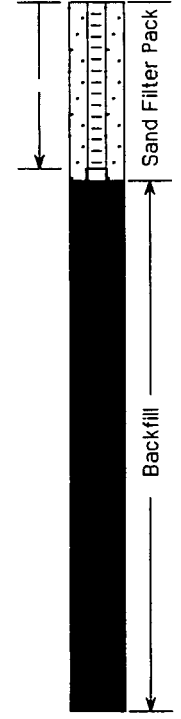
SOIL BORING/WELL LOG

Project Name: Fort McClellan Site Location: Pelham Range Monitoring Well No.: GW-BKPR-02
 SAIC Project No.: 01-0827-03-6520 Northing (ft): 1160738.23 Start/Finish Date: 8-11-97 / 8-12-97
 Geologist: Brad Baker Easting (ft): 459965.67 Well Completion Depth (ft): 45.3
 Drilling Co.: Miller Drilling Groundwater Depth (ft): 34.0 Drilled Depth (ft): 61.0
 Driller: Pete Brown Drilling Method: Hollowstem auger Surface Pad Elevation (ft): 571.744
 Drill Rig: B-59 Auger rig Sampling Method: 2" Split spoon Top of Casing Elevation (ft): 573.674

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec. (ft.)	Sample Type And #	OVA (ppm)	Well Const. As-Built	
0 to 4.0'			0 to 4.0': Not Recorded.						
5	ML		Sandy silt, 25% very fine sand, trace sub-rounded sandstone fragments. 2.5YR5/8 red with brown yellow and white mottling; low plasticity; very dense; moist; poorly sorted.	18-28-52-70	1.6	1	0.0		
9.0'			MnO2 staining.						
10			18-30-44-54	1.8	2	0.0			
15			15-40-32-48	1.7	3	0.0			
15.3' to 15.5'			Wet, sub-rounded, medium sand.						
20	MH		Silt, 25% very fine sand, trace interbedded sub-round sandstone fragments. 5YR6/8 red yellow with brown yellow mottling; low plasticity; very dense; moist; very poorly sorted.	45-35-40-42	0.9	4	0.0		
25			22-23-26-30	1.7	5	0.0			
30			12-16-16-17	1.4	6	0.0			
35			Sandy silt, trace clay, trace sub-rounded granular sandstone fragments. 7.5Y6/8 red yellow; slightly plastic; dense; very moist; poorly sorted.	14-17-26-19	1.0	7	0.0		
40					1.4	8	0.0		

SOIL BORING/WELL LOG

Project Name: Fort McClellan Site Location: Pelham Range Monitoring Well No.: GW-BKPR-02
 SAIC Project No.: 01-0827-03-6520 Northing (ft): 1160738.23 Start/Finish Date: 8-11-97 / 8-12-97
 Geologist: Brad Baker Easting (ft): 459965.67 Well Completion Depth (ft): 45.3
 Drilling Co.: Miller Drilling Groundwater Depth (ft): 34.0 Drilled Depth (ft): 61.0
 Driller: Pete Brown Drilling Method: Hollowstem auger Surface Pad Elevation (ft): 571.744
 Drill Rig: B-59 Auger rig Sampling Method: 2" Split spoon Top of Casing Elevation (ft): 573.674

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 In.	Sample Rec. (ft.)	Sample Type And #	OVA (ppm)	Well Const. As-Built
45	MH		Sandy silt, trace clay, trace sub-rounded granular sandstone fragments. 7.5Y6/8 red yellow; slightly plastic; dense; very moist; poorly sorted.		1.4	8	0.0	4" 10 Slot Schedule 40 PVC Screen 
50			Clayey silt, trace very fine sand. 5YR6/8 red yellow, with MnO2 staining; medium plasticity; very dense; moist; poorly sorted.	9-14-23-29	1.8	9	0.0	
55				11-18-18-22	1.4	10	0.0	
60				9-16-17-18	0.0	11	0.0	
60	CH		Silty clay, trace very fine sub-rounded sand. 5YR6/8 red yellow, with MnO2 staining and light brown mottling; medium plasticity; hard; moist; poorly sorted.	8-12-17-23	1.9	12	0.0	
65	Bottom of boring at 61 feet below ground surface. Borehole diameter=12.5". Note: NR=Not Recorded, NA=Not Applicable							
70								
75								
80								

SOIL BORING/WELL LOG

Project Name: Fort McClellan Site Location: Pelham Range Monitoring Well No.: GW-BKPR-03
 SAIC Project No.: 01-0827-03-6520 Northing (ft): 1164133.45 Start/Finish Date: 8-2-97
 Geologist: Brad Baker Easting (ft): 484272.04 Well Completion Depth (ft): 51.4
 Drilling Co.: Miller Drilling Groundwater Depth (ft): 47.53 Drilled Depth (ft): 55
 Driller: Pete Brown Drilling Method: Hollowstem auger Surface Pad Elevation (ft): 737.147
 Drill Rig: B-59 Auger rig Sampling Method: 3" Splitspoon Top of Casing Elevation (ft): 739.277

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec. (ft.)	Sample Type And #	OVA (ppm)	Well Const. As-Built
			0 to 1.0': Not recorded.					<p style="text-align: center;">Well Const. As-Built</p>
5			Silt, 20% sub-rounded very fine sand. 10YR7/8 yellow with yellow red mottling; low to medium plasticity; dense; moist; poorly sorted.	8-13-16-18	1.5	SAIC01	5.8	
				23-19-35-45	1.2	SAIC02	1.9	
			Silt, trace sub-rounded very coarse sand to very fine well cemented sandstone gravel. 5YR5/8 yellow red with white mottling; low plasticity; very dense; moist; poorly sorted.	15-21-32-33	1.6	SAIC03	3.7	
				19-27-38-39	1.5	SAIC04	0.0	
				25-30	1.0	SAIC05	0.0	
15			Silt, 30% sub-rounded to angular coarse sand to fine gravel. 5YR5/8 yellow red, with light brown mottling; low plasticity; dense; moist; poorly sorted.	11-14-17-21	1.8	6	0.0	
20	ML		18.0': Some red mottling, and chert fragments present.	9-11-15-18	1.9	7	0.0	
25			Silt, 30% sub-rounded very fine to coarse sand. 7.5YR7/8 red yellow, with red mottling; medium plasticity; medium dense; moist; poorly sorted.	8-9-12-15	2.0	8	0.2	
30			Silt, 35% very fine sand to fine chert gravel. 7.5YR7/8 red yellow; medium to high plasticity; medium dense; very moist; poorly sorted.	6-8-10-12	2.0	9	0.0	
			29.1' to 29.2': Chert gravel layer.					
35				6-8-10-12	1.5	10	0.0	

SOIL BORING/WELL LOG

Project Name: Fort McClellan Site Location: Pelham Range Monitoring Well No.: GW-BKPR-03
 SAIC Project No.: 01-0827-03-6520 Northing (ft): 1164133.45 Start/Finish Date: 8-2-97
 Geologist: Brad Baker Easting (ft): 484272.04 Well Completion Depth (ft): 51.4
 Drilling Co.: Miller Drilling Groundwater Depth (ft): 47.53 Drilled Depth (ft): 55
 Driller: Pete Brown Drilling Method: Hollowstem auger Surface Pad Elevation (ft): 737.147
 Drill Rig: B-59 Auger rig Sampling Method: 3" Splitspoon Top of Casing Elevation (ft): 739.277

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec. (ft.)	Sample Type And #	OVA (ppm)	Well Const. As-Built
	ML		Silt, 35% very fine sand to fine chert gravel. 7.5YR7/8 red yellow; medium to high plasticity; medium dense; very moist; poorly sorted.					<p style="font-size: small;">Well Const. As-Built</p>
40	SM		Silty very fine to coarse sand, trace sub-rounded gravel. 7.5YR7/8 red yellow, with MnO2 staining; medium plasticity; medium density; very moist; poorly sorted.	9-9-8-12	1.9	11	0.0	
45			Clayey silt, 35% very fine to coarse sub-rounded sand. 7.5YR7/8 red yellow, with MnO2 staining; high plasticity; medium density; very moist; very poorly sorted.	9-7-7-10	2.0	12	0.0	
50	ML		43.7' to 43.8': Granular sand. Wet.	8-12-21-24	1.9	13	0.0	
55			Bottom of boring at 55 feet below ground surface. Boring diameter=12.5 inches.					
60			Note: NR=Not recorded, NA=Not Applicable.					
65								
70								

SOIL BORING/WELL LOG

Project Name: Fort McClellan RI/FS Site Location: Range L (Lima Pond) Monitoring Well No.: RL-601
 SAIC Project No.: 01-0827-03-6520 Northing (ft): 1176679.72 Start/Finish Date: 06-10-94/06-15-94
 Geologist: Brad Baker Easting (ft): 449990.45 Well Completion Depth (ft): 50.0
 Drilling Co.: Environmental Exploration, Inc. Groundwater Elev. (ft): 570.59 Drilled Depth (ft): 50.0
 Driller: Jason Roberts Drilling Method: Hollow Stem Auger Surface Pad Elevation (ft): 588.63
 Drill Rig: CME Model 75 Sampling Method: Split Spoon Top of Casing Elevation (ft): 590.54

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	HD (TWA)	GB (TWA)	VX (TWA)	N-Value	Sample Type and Number	Sample Rec. (ft)	Well Const. As-Built	
										Steel Casing	4" Schedule 40 PVC Riser
5	ML		Sandy Silt, 30% medium coarse Sand, 5% Clay. 10R5/6 Red varigated light brownish yellow; low plasticity; poorly sorted; medium; moist; subangular; no structure.	0.00	0.00	0.00	26	SS-1	1.2		50
10			Silt, 15% medium Sand to granules, 10% Clay. 10R5/8 red varigated light yellowish brown and light gray; low plasticity; poorly sorted; loose to medium; moist; subangular; no structure	0.00	0.00	0.02	20	SS-2	1.6		
15				0.00	0.00	0.03	9	SS-3	1.6		
20				0.00	0.00	0.03	11	SS-4	1.7		
25	CL		Silt, 15% fine to medium Sand, 10% Clay, 0 to 1% MnO2. 5YR5/8 yellowish red varigated light brownish yellow and 2.5YR5/8 red varigated light brownish yellow and light gray; low plasticity, poorly sorted; medium; subangular; no structure	NS	0.00	0.03	18	SS-5	1.8		
30				NS	NS	NS	5	SS-6	2.0		
35				NS	NS	NS	7	SS-7	1.0		
40				NS	NS	NS	12	SS-8	2.0		
45				NS	NS	NS	54	SS-9	1.9		
50			Clay, 10% fine Sand, 0 to 10% weathered Sandstone fragments, 2% MnO2. 5YR6/8 reddish yellow varigated light brownish yellow; moderate plasticity; poorly sorted; stiff; moist; subangular; no structure	NS	NS	NS	7	SS-10	1.9		
55			Bottom of Boring at 50.0 feet	NS	NS	NS	6	SS-11	2.0		

Note: NR=Not Recorded, NA=Not Applicable
 SS=Split Spoon, NS=Not Screened Borehole
 Diameter=8.75" Note: OVA, LEL, and H2S readings were at Zero ppm from 0 to 50 feet.

SOIL BORING/WELL LOG

Project Name: Fort McClellan RI/FS Site Location: Old Water Hole Monitoring Well No.: OWH-G02
 SAIC Project No.: 01-0827-03-6520 Northing (ft): 1179262.59 Start/Finish Date: 12-17-94/01-07-95
 Geologist: Brad Baker Easting (ft): 472076.02 Well Completion Depth (ft): 104.0
 Drilling Co.: Anderson Engineering Consultants Inc. Groundwater Elev. (ft): 619.43 Drilled Depth (ft): 108.0
 Driller: Dean Whitlock Drilling Method: Hollow Stem Auger Surface Pad Elevation (ft): 665.02
 Drill Rig: HMB-124 Sampling Method: Split Spoon Top of Casing Elevation (ft): 667.23

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	HD (TWA)	GB (TWA)	VX (TWA)	N-Value	Sample Type and Number	Sample Rec. (ft)	Well Const. As-Built	
										4" Schedule 40 PVC Riser	4" .10 Slot Schedule 40 PVC Screen
60	CL		Clay, 30% gravel Chert fragments. 5YR6/8 reddish yellow; moderate plasticity; hard; moist; no apparent bedding; angular	NS	NS	NS	52	SS-12	1.2		60
65			Silty Clay, 30% Silt, 10% Chert fragments. 3% MnO2. 5YR6/8 reddish yellow, with wisps of yellow; moderate plasticity; hard; moist; no apparent bedding; subangular	NS	NS	NS	42	SS-13	2.0		65
70			Same as above	NS	NS	NS	50/3"	SS-14	1.9		70
75			Same as above with 20% coarse Sand, <5% Chert fragments	NS	NS	NS	81	SS-15	0.6		75
80	ML		Clayey Silt, 35% Clay, 10% fine Sand. 5YR6/8 reddish yellow variegated yellow; low plasticity; dense; moist; no apparent bedding; subangular	NS	NS	NS	43	SS-16	1.0		80
85			Silt, 15% Clay, 5% fine Sand. 5YR6/8 reddish yellow; low plasticity; dense; moist; no apparent bedding; subangular	NS	NS	NS	28	SS-17	2.0		85
90			Same as above	NS	NS	NS	36	SS-18	1.2		90
95			Same as above with 3% MnO2, 10YR7/4 banded very pale brown	NS	NS	NS	38	SS-19	2.0		95
100	CH		Silty Clay, 30% Silt. 2.5YR5/8 red; high plasticity; very stiff; wet; no apparent bedding; subrounded	NS	NS	NS	21	SS-20	2.0		100
105			Same as above, stiff	NS	NS	NS	11	SS-21	2.0		105
110	Bottom of Boring at 108 feet.										110

Note: NR=Not Recorded, NA=Not Applicable
 SS=Split Spoon, NS=Not Screened, OVA, LEL
 and H2S were 0 unless otherwise noted.

SOIL BORING

Project Name: Fort McClellan Site Location: Main Post Soil Boring No.: BG-S01
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-17-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 10
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Drill Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
	ML		Clayey silt, trace sub-rounded very fine sand. 10R4/8 red with 5YR6/8 yellow red; slightly plastic; dense; moist; poorly sorted. 3.0': Becoming very dense.	13-14-20-24	1.0	SAIC01	0.0
5				28-30-47-53	1.0		0.0
				18-29-50-50/4"	1.0		0.0
				17-30-61-70	1.4		0.0
				50/3"	1.0		0.0
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole column. Note: NR=Not Recorded, NA=Not Applicable.				10

SOIL BORING

Project Name: Fort McClellan Site Location: Main Post Soil Boring No.: BG-S02
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-19-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 10
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Dril Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
	CL	 	Silt, 20% sub-rounded very fine sand. 7.5YR6/6 red yellow; low plasticity; very dense; moist; poorly sorted.	32-28-45-50/2"	1.0	SAIC01	0.0
			3.0': Color change to 10YR6/6 brown yellow, with 2.5Y8/1 white.	35-50-62/2"	0.8		0.0
5			29-32-50/2"	0.8	2.0		
			Clayey silt, trace sub-rounded very fine sand. 2.5YR5/8 red with 7.5YR6/8 red yellow; medium plasticity; very dense; moist; poorly sorted.	47-45-69-62	1.5		0.0
			27-35	0.6	0.0		
10			<i>Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole column.</i> <i>Note: NR=Not Recorded, NA=Not Applicable.</i>				

SOIL BORING

Project Name: <u>Fort McClellan</u>	Site Location: <u>Main Post</u>	Soil Boring No.: <u>BG-S03</u>
SAIC Project No.: <u>01-0827-03-6520</u>	Groundwater Depth (ft): <u>Not encountered</u>	Start/Finish Date: <u>8-16-97</u>
Geologist: <u>Brad Baker</u>	Sampling Method: <u>3" Split spoon</u>	Drilled Depth (ft): <u>10</u>
Drilling Co.: <u>Miller Drilling</u>		Drilling Method (ft): <u>Hollowstem auger</u>
Driller: <u>Pete Brown</u>		Drill Rig: <u>B-59 Auger rig</u>

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
			Silty sub-rounded fine sand, trace weathered sandstone fragments. 7.5YR6/6 red yellow; very dense; slightly moist; poorly sorted.	43-21-20-58	1.4		10.0
				55/4"	2.0		0.0
5	SM		Sub-rounded medium sand, trace silt. 10R5/8 red; very dense; slightly moist; well sorted.	42-50/4"	1.8	SAIC01	0.0
			7.0': Weathered sandstone fragments present.	36-65/5"	1.4		0.0
			9.0': Varigated brown yellow and white color.	53-48	NR		0.0
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole column. Note: NR=Not Recorded, NA=Not Applicable.				

SOIL BORING

Project Name: Fort McClellan Site Location: Main Post Soil Boring No.: BG-S04
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-16-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 3
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Dril Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
	ML		Gravelly silt, 35% sub-rounded gravel, trace sub-rounded very fine sand. 7.5YR5/6 strong brown; low plasticity; very dense; moist; poorly sorted.	17-32-50/4"	0.9	SAIC01	0.0
			<p><i>Auger refusal at 3 feet below ground surface. Borehole diameter=8.5 inches.</i></p> <p><i>Note: NR=Not Recorded, NA=Not Applicable.</i></p>				

SOIL BORING

Project Name: Fort McClellan Site Location: Main Post Soil Boring No.: BG-S05
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): 7.0 Start/Finish Date: 8-16-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 8
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Dril Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
	ML		Silt, trace sub-rounded very fine sand, trace granular rock fragments. 10YR6/6 yellow; low plasticity; very dense; moist; poorly sorted.	13-15-22-54	1.0	SAIC01	2.0
				44-55-36-23	1.0		0.0
5	SM		Silty sub-rounded coarse sand; trace granular rock fragments. 7.5YR4/6 strong brown; medium dense; moist; poorly sorted. 7.0': Becomes saturated.	30-25-11-9	1.0		0.0
				42-50/4"	0.7		0.0
			<i>Auger refusal at 8 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 taken from a composite of entire borehole column.</i> <i>Note: NR=Not Recorded, NA=Not Applicable.</i>				
10							

SOIL BORING

Project Name: Fort McClellan Site Location: Main Post Soil Boring No.: BG-S06
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-16-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 4.5
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Dril Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
	ML		Sandy silt, 30% sub-rounded medium to fine sand, 25% sub-rounded granular. 5YR5/6 yellow red; low plasticity; very dense; moist; very poorly sorted.	12-24-50-63	1.5	SAIC01	0.0
				27-50/6"	1.4		0.0
5			<p><i>Auger refusal at 4.5 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 taken from a composite of entire borehole column.</i></p> <p><i>Note: NR=Not Recorded, NA=Not Applicable.</i></p>				

SOIL BORING

Project Name: <u>Fort McClellan</u>	Site Location: <u>Main Post</u>	Soil Boring No.: <u>BG-S07</u>
SAIC Project No.: <u>01-0827-03-6520</u>	Groundwater Depth (ft): <u>7.0</u>	Start/Finish Date: <u>8-19-97</u>
Geologist: <u>Brad Baker</u>	Sampling Method: <u>3" Split spoon</u>	Drilled Depth (ft): <u>10</u>
Drilling Co.: <u>Miller Drilling</u>		Drilling Method (ft): <u>Hollowstem auger</u>
Driller: <u>Pete Brown</u>		Drill Rig: <u>B-59 Auger rig</u>

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
	ML		Sandy silt, 30% sub-rounded fine sand, trace granular sandstone fragments. 10YR5/8 yellow brown, with 10YR6/2 light brown gray; low plasticity; very dense; moist; very poorly sorted.	11-18-31-41	1.5	SAIC01	0.0
			Clayey silt, 50% sub-rounded granular sandstone fragments, trace very fine sand. 7.5YR5/6 strong brown with 10YR6/6 brown yellow; medium plasticity; very dense; moist; very poorly sorted.	10-20-45-47	1.5		0.0
5					12-8-7-7		0.5
	SC		Clayey sub-rounded coarse sand. 2.5Y6/6 olive yellow; medium to high plasticity; loose; saturated; poorly sorted.	2-2-3-4	1.0	0.0	
					2-3	0.75	0.0
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole column.				
			Note: NR=Not Recorded, NA=Not Applicable.				

SOIL BORING

Project Name: Fort Sheridan Site Location: Main Post Soil Boring No.: BG-S10
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-15-97
 Geologist: Brad Baker Sampling Method: 3" Splitspoon Drilled Depth (ft): 6
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Drill Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
			Silt, 20% sub-rounded very fine sand. 7.5YR6/8 red yellow with medium red mottling; slightly plastic; very dense; moist; poorly sorted.	11-12-36-37	1.2	SAIC01	NR
	ML		3.0': Color change to 10R5/8 red with varigated reddish yellow. Well cemented sandstone fragments present.	20-45-36-51	1.2	SAIC02	NR
5				26-39-50/2"	0.7	SAIC03	NR
			<i>Auger refusal at 6 feet below ground surface. Borehole diameter=8.5 inches.</i> <i>Note: NR=Not Recorded, NA=Not Applicable.</i>				

SOIL BORING

Project Name: <u>Fort McClellan</u>	Site Location: <u>Main Post</u>	Soil Boring No.: <u>BG-S11</u>
SAIC Project No.: <u>01-0827-03-6520</u>	Groundwater Depth (ft): <u>Not encountered</u>	Start/Finish Date: <u>8-19-97</u>
Geologist: <u>Brad Baker</u>	Sampling Method: <u>3" Split spoon</u>	Drilled Depth (ft): <u>10</u>
Drilling Co.: <u>Miller Drilling</u>		Drilling Method (ft): <u>Hollowstem auger</u>
Driller: <u>Pete Brown</u>		Drill Rig: <u>B-59 Auger rig</u>

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)		
			0 to 1.0: Not recorded.						
	ML		Sandy silt, 35% to 45% sub-rounded very fine to coarse sand. 2.5YR5/8 red, with 7.5YR6/8 red yellow; low to medium plasticity; very dense; moist; poorly sorted.	22-20-51-53	1.5	SAIC01	0.0		
5				10-17-77-50/1"	1.0		0.0		
				5.0': Weathered sandstone fragments present.			18-25-37-32	1.6	0.0
				7.0': Trace chert and sandstone fragments present.			12-24-36-47	1.6	0.0
				10	12-23		0.8	0.0	
			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 taken from a composite of entire borehole column.						
			Note: NR=Not Recorded, NA=Not Applicable.						

SOIL BORING

Project Name: <u>Fort McClellan</u>	Site Location: <u>Main Post</u>	Soil Boring No.: <u>BG-S12</u>
SAIC Project No.: <u>01-0827-03-6520</u>	Groundwater Depth (ft): <u>Not encountered</u>	Start/Finish Date: <u>8-15-97</u>
Geologist: <u>Brad Baker</u>	Sampling Method: <u>3" Split spoon</u>	Drilled Depth (ft): <u>10</u>
Drilling Co.: <u>Miller Drilling</u>		Drilling Method (ft): <u>Hollowstem Auger</u>
Driller: <u>Pete Brown</u>		Drill Rig: <u>B-59 Auger rig</u>

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)		
			0 to 1.0': Not recorded.						
	ML	 	Silt, 20% interbedded very fine to medium sand, trace rock fragments. 10R4/8 red; low plasticity; very dense; moist; poorly sorted.	21-38-39-51	1.5	SAIC01	NR		
					16-21-51-52		1.6	NR	
5					Sandy silt; 40% sub-angular fine to medium sand. 10R4/6 red; low plasticity; very dense; moist; poorly sorted.		18-50-78-64	1.2	NR
					Silt, 20% sub-rounded very fine sand. 10R4/6 red, with brown yellow; low plasticity; very dense; moist; poorly sorted.		36-29-49-56	1.3	NR
				27-38	0.75		NR		
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole column.						
			Note: NR=Not Recorded, NA=Not Applicable.						

SOIL BORING

Project Name: <u>Fort McClellan</u>	Site Location: <u>Main Post</u>	Soil Boring No.: <u>BG-S13</u>
SAIC Project No.: <u>01-0827-03-6520</u>	Groundwater Depth (ft): <u>Not encountered</u>	Start/Finish Date: <u>8-18-97</u>
Geologist: <u>Brad Baker</u>	Sampling Method: <u>3" Split spoon</u>	Drilled Depth (ft): <u>10</u>
Drilling Co.: <u>Miller Drilling</u>		Drilling Method (ft): <u>Hollowstem auger</u>
Driller: <u>Pete Brown</u>		Dril Rig: <u>B-59 Auger rig</u>

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)	
			0 to 1.0': Not recorded.					
	SM	SM	Fine sub-rounded sand, 20% silt. 10YR5/6 yellow brown; medium dense; moist; moderate sorting.	19-7-8-10	1.5	SAIC01	0.0	
			Medium sub-rounded sand, 20% silt. 5YR4/6 yellow red; medium dense; moist; moderate sorting.					
			Silty medium sub-rounded sand. 2.5YR4/8 red; dense; moist; poorly sorted.	22-8-11-21	1.2		0.0	
5			5.0': Color change 10YR5/8 red; becoming very dense.	11-20-30-34	1.4		0.0	
				18-25-50/3"	1.5		0.0	
				18-42	1.5		0.0	
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole column.					
			Note: NR=Not Recorded, NA=Not Applicable.					

SOIL BORING

Project Name: Fort McClellan Site Location: Main Post Soil Boring No.: BG-S14
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-15-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 8
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Drill Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)	
			0 to 1.0': Not recorded.					
	ML		Sandy silt, 45% sub-rounded medium sand. 7.5YR5/6 strong brown; low plasticity; dense; slightly moist; poorly sorted.	11-9-13-21	1.5		NR	
			Sub-rounded fine to medium sand, 20% silt, trace sandstone fragments. 5YR6/8 red yellow; low plasticity; dense; slightly moist; moderately sorted.	9-14-16-24	1.7	SAIC01	NR	
5	SM		5.0': Becoming very dense.	15-29-50/3"	1.4		NR	
				20-60/5"	0.95		NR	
	ML		Sandy silt, 45% sub-rounded very fine sand. 5YR6/8 red yellow, with variegated medium red; very dense; poorly sorted.					
			<p><i>Auger refusal at 8 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole column.</i></p> <p><i>Note: NR=Not Recorded, NA=Not Applicable.</i></p>					
10								

SOIL BORING

Project Name: <u>Fort McClellan</u>	Site Location: <u>Main Post</u>	Soil Boring No.: <u>BG-S15</u>
SAIC Project No.: <u>01-0827-03-6520</u>	Groundwater Depth (ft): <u>Not encountered</u>	Start/Finish Date: <u>8-18-97</u>
Geologist: <u>Brad Baker</u>	Sampling Method: <u>3" Split spoon</u>	Drilled Depth (ft): <u>10</u>
Drilling Co.: <u>Miller Drilling</u>		Drilling Method (ft): <u>Hollowstem auger</u>
Driller: <u>Pete Brown</u>		Dril Rig: <u>B-59 Auger rig</u>

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)	
			0 to 1.0': Not recorded.					
	ML		Silt, 20% sub-rounded very fine sand. 10YR6/6 brown yellow, trace MnO2 staining; low plasticity; dense; moist; poorly sorted.	9-12-15-24	1.4	SAIC01	0.0	
			Silt, 25% sub-rounded very fine sand. 2.5YR5/8 red, with 10YR6/6 brown yellow, and trace MnO2 staining; low plasticity; very dense; moist; poorly sorted.	10-20-27-46	1.4		0.0	
5					9-24-35-54		1.4	0.0
					13-30-46-60		1.4	0.0
					18-36		1.5	0.0
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole column. Note: NR=Not Recorded, NA=Not Applicable.				10	


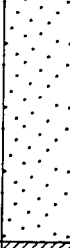

SOIL BORING

Project Name: Fort McClellan Site Location: Main Post Soil Boring No.: BG-S19
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-17-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 10
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Dril Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 2.0': Not recorded.				
	ML	 	Sandy silt, 35% sub-rounded very fine sand. 7.5R7/8 red yellow, with medium red laminations; low plasticity; medium dense; slightly moist; poorly sorted.	6-18-13-17	1.2	SAIC01	2.0
5			Silt, trace sub-rounded very fine sand. 2.5Y8/3 pale yellow, with yellow brown fracture staining; low plasticity; very dense; moist; poorly sorted.	25-20-23-30	1.4		0.0
				18-26-28-35	1.6		0.0
				18-24-18-30	1.7		0.0
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole column.				
			Note: NR=Not Recorded, NA=Not Applicable.				

SOIL BORING

Project Name: Fort McClellan Site Location: Main Post Soil Boring No.: BG-S20
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-18-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 8.5
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Drill Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
	ML		Sandy silt, 30% sub-rounded coarse sand, trace granular sandstone fragments. 7.5YR5/6 strong brown; low plasticity; very dense; moist; very poorly sorted.	21-20-30-46	1.3	SAIC01	0.0
	SW		Sub-rounded coarse sand, 30% granular sandstone fragments, trace silt. 7.5YR5/6 strong brown; dense; moist; very poorly sorted.	7-7-14-17	0.6		0.0
5	CH		Sandy clay, 35% sub-rounded coarse sand. 10YR5/3 brown; high plasticity; hard; very moist; poorly sorted.	5-18-23-32	1.0		0.0
			Sandy clay, 25% sub-rounded coarse sand, 20% granular sandstone fragments. 7.5YR6/6 red brown, with 7.5YR7/1 light gray; medium to high plasticity; hard; very moist; very poorly sorted.	10-20-38-50/1"	1.0		0.0
10			<i>Auger refusal at 8.5 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole column.</i> <i>Note: NR=Not Recorded, NA=Not Applicable.</i>				

SOIL BORING

Project Name: Fort McClellan Site Location: Main Post Soil Boring No.: BG-S21
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): 5.0 Start/Finish Date: 8-15-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 8.3
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Drill Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
5	SM	Silty sub-rounded medium sand. 10YR6/8 brown yellow, with medium gray banding; low plasticity; medium dense; moist; poorly sorted.	16-10-11-15	1.2	SAIC01	NR
				6-5-8-18	0.3		NR
			Sub-rounded medium sand, 20% silt. 5Y5/3 olive; low plasticity; dense; wet; moderate sorting.	4-9-16-18	1.0		NR
			7.0' to 8.3': No recovery.	8-6-50/4"	0.0		NR
10			<i>Auger refusal at 8.3 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole column.</i> <i>Note: NR=Not Recorded, NA=Not Applicable.</i>				

SOIL BORING

Project Name: Fort McClellan Site Location: Main Post Soil Boring No.: BG-S23
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-17-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 10
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Dril Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
	ML	 	Sandy silt, 35% sub-rounded fine to coarse sand. 10YR7/6 yellow, with 5R5/6 yellow red; low plasticity; very dense; moist; poorly sorted.	24-23-24-28	1.5	SAIC01	0.0
			Clayey silt, trace sub-rounded fine sand. 5Y6/8 red yellow with 10R4/8 red and 1Gley7/ light gray; slight plasticity; very dense; moist; very poorly sorted.	25-20-20-20	1.6		0.0
5			Silt, 20% sub-rounded fine sand. 10YR6/4 light yellow brown, with 1Gley7/1 light greenish gray; very dense; moist; poorly sorted; fissility 30 degrees from verticle. 7.0': MnO2 staining present.	19-29-50-68	1.6		0.0
				39-39-50/4"	1.4		0.0
				33-45	0.75		0.0
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole column. Note: NR=Not Recorded, NA=Not Applicable.				

SOIL BORING

Project Name: Fort McClellan Site Location: Main Post Soil Boring No.: BG-S24
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-16-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 10
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Dril Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)	
			0 to 1.0': Not recorded.					
	ML	 	Silt, 20% sub-rounded very fine sand. 2.5YR6/6 light red with white and light brown yellow mottling; very dense; moist; poorly sorted.	27-19-23-27	1.2	SAIC01	0.0	
			3.0': Color change to 7.5YR5/6 strong brown.		20-16-14-15		1.4	3.0
5			Silt, trace sub-rounded fine to medium sand. 10R4/6 red with brown yellow and light gray; very dense; moist; poorly sorted.	21-30-36-34	1.0		0.0	
				19-21-31-35	1.0		0.0	
				15-22	1.5		0.0	
10			<i>Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole column.</i> <i>Note: NR=Not Recorded, NA=Not Applicable.</i>					

SOIL BORING

Project Name: Fort McClellan Site Location: Main Post Soil Boring No.: BG-S25
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-16-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 10
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Dril Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
	ML		Sandy silt, 30% sub-rounded fine to medium sand. 10R5/8 red, with brown yellow; slight plasticity; very dense; moist; poorly sorted. 3.0': Trace weathered sandstone fragments present.	15-15-35-38	1.6	SAIC01	2.0
5				15-35-56-82	1.4		1.5
				16-31-41-52	1.4		1.0
				21-24-31-40	1.5		0.0
				15-26	0.8		0.0
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole column. Note: NR=Not Recorded, NA=Not Applicable.				

SOIL BORING

Project Name: <u>Fort McClellan</u>	Site Location: <u>Pelham Range</u>	Soil Boring No.: <u>BGP-S01</u>
SAIC Project No.: <u>01-0827-03-6520</u>	Groundwater Depth (ft): <u>Not encountered</u>	Start/Finish Date: <u>8-5-97</u>
Geologist: <u>Brad Baker</u>	Sampling Method: <u>3" Split spoon</u>	Drilled Depth (ft): <u>10</u>
Drilling Co.: <u>Miller Drilling</u>		Drilling Method (ft): <u>Hollowstem auger</u>
Driller: <u>Pete Brown</u>		Dril Rig: <u>B-59 Auger rig</u>

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not Recorded.				
			Silt, 20% subrounded very fine sand. 2.5YR4/8 red with brown yellow mottling; low plasticity; dense; moist; poorly sorted.	5-8-14-23	2.0		15.6
			3.0': Becomes very dense.	10-23-31-40	1.2		21.3
						SAIC01	
				13-28-41-44	1.5		21.7
				17-27-36-52	1.4		4.7
				14-25	1.0		3.1
			7.0': Some light gray mottling.				
			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5". Analytical sample SAIC01 was taken from a composite of entire borehole column.				
			Note: NR=Not Recorded, NA=Not Applicable.				

SOIL BORING

Project Name: Fort McClellan Site Location: Pelham Range Soil Boring No.: BGP-S02
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-14-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 10
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Dril Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
	ML		Clayey silt, trace very fine sub-rounded sand. 2.5YR4/6 red; low to medium plasticity; dense; moist; poorly sorted. 5.0': Becomes very dense.	10-12-18-22	1.2	SAIC01	17.2
				9-15-17-21	1.5		5.4
5				7-15-23-32	1.0		0.0
				15-25-35-44	1.2		0.0
				9-24	1.0		0.0
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5". Analytical sample SAIC01 was taken from a composite of entire borehole column. Note: NR=Not Recorded, NA=Not Applicable.				

SOIL BORING

Project Name: Fort McClellan Site Location: Pelham Range Soil Boring No.: BGP-S03
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-14-97
 Geologist: Brad Baker Sampling Method: 3" Splitspoon Drilled Depth (ft): 10
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Dril Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0: Not recorded.				
	CL	▨▨▨▨▨▨▨▨▨▨	Silty clay, trace sub-rounded very fine sand. 10R4/4 weak red; medium plasticity; hard; moist; poorly sorted.	11-12-18-21	1.2		2.1
				11-12-18-20	1.6		0.0
5			5.0': Becomes very dense.			SAIC01	
	ML	▬▬▬▬▬▬▬▬▬▬		9-30-31-34	0.9		2.0
			7.0': Some light brown yellow mottling.				
				11-24-32-37	1.4		1.2
				25-32	0.75		0.0
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole column. Note: NR=Not Recorded, NA=Not Applicable.				

SOIL BORING

Project Name: <u>Fort Sheridan</u>	Site Location: <u>Pelham Range</u>	Soil Boring No.: <u>BGP-S06</u>
SAIC Project No.: <u>01-0827-03-6520</u>	Groundwater Depth (ft): <u>Not encountered</u>	Start/Finish Date: <u>8-15-97</u>
Geologist: <u>Brad Baker</u>	Sampling Method: <u>3" Split spoon</u>	Drilled Depth (ft): <u>10</u>
Drilling Co.: <u>Miller Drilling</u>		Drilling Method (ft): <u>Hollowstem auger</u>
Driller: <u>Pete Brown</u>		Dril Rig: <u>B-59 Auger rig</u>

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
	ML	 	Clayey silt, trace sub-rounded very fine sand. 10R4/4 weak red; medium plasticity; medium density; very moist; poorly sorted. 3.0': Color change to 10R4/6 red.	9-11-12-18	1.4	SAIC01	2.7
5				7-9-12-13	1.2		0.0
				7-7-9-15	1.8		0.2
				7-10-26-41	1.4		0.6
			Silt, trace sub-rounded very fine sand. 2.5YR4/8 red with light brown yellow and light gray mottling; very dense; moist; poorly sorted.	26-35	1.6		1.2
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole column. Note: NR=Not Recorded, NA=Not Applicable.				

SOIL BORING

Project Name: <u>Fort McClellan</u>	Site Location: <u>Pelham Range</u>	Soil Boring No.: <u>BGP-S07</u>
SAIC Project No.: <u>01-0827-03-6520</u>	Groundwater Depth (ft): <u>Not encountered</u>	Start/Finish Date: <u>8-14-97</u>
Geologist: <u>Brad Baker</u>	Sampling Method: <u>3" Split spoon</u>	Drilled Depth (ft): <u>10</u>
Drilling Co.: <u>Miller Drilling</u>		Drilling Method (ft): <u>Hollowstem auger</u>
Driller: <u>Pete Brown</u>		Dril Rig: <u>B-59 Auger rig</u>

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0: Not recorded.				
	ML	 	Silt, 20% sub-rounded very fine sand. 7.5YR6/6 red yellow; low plasticity; medium density; moist; poorly sorted.	12-10-12-12	1.5	SAIC01	1.7
			3.0': Color change to 2.5R5/5 red with brown yellow and light gray mottling.	9-14-19-28	1.5		19.4
5			5.0': Becoming very dense.	9-19-25-32	1.3		0.0
			Clayey silt, trace sub-rounded very fine sand. 10YR6/8 brown yellow with red mottling; slightly plastic; very dense; moist; poorly sorted.	11-12-29-32	1.1		0.0
				6-19	0.6		0.0
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole column.				
			Note: NR=Not Recorded, NA=Not Applicable.				

SOIL BORING

Project Name: Fort McClellan Site Location: Pelham Range Soil Boring No.: BGP-S10
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-17-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 10
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Dril Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded	NA	NA	SAIC01	0.0
			Silt, trace granular chert fragments, trace sub-rounded very fine sand. 10YR6/6 brown yellow; slightly plastic; medium density; moist; poorly sorted.	8-7-13-15	0.8		2.0
			Silt, 30% granular sub-rounded chert fragments, trace very fine sand. 10YR7/4 light gray with red and brownish yellow mottling; low plasticity; very dense; moist; very poorly sorted.	24-44-52-67	1.4		0.0
5	ML		5.0': Color change to 10R4/6 red with brown yellow and light gray mottling.			SAIC02	0.0
			Silt, trace sub-rounded granular chert fragments, trace very fine sand. 10R4/6 red with brown yellow and light gray mottling; medium plasticity; very dense; moist; poorly sorted.	25-45-50/5"	1.4		0.0
				35-50	1.5		0.0
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC02 was taken from a composite of 1' to 10' below ground surface. Note: NR=Not Recorded, NA=Not Applicable.				

SOIL BORING

Project Name: Fort McClellan Site Location: Pelham Range Soil Boring No.: BGP-S11
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-14-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 10
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Drill Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
			Clayey silt, trace sub-rounded very fine sand. 5YR5/6 yellow red; medium plasticity; medium dense; very moist; poorly sorted.	4-5-8-11	1.5		2.8
			Silt, 20% sub-rounded granular weathered chert, trace very fine sand. 2.5YR5/8 red with brown yellow mottling; low plasticity; very dense; moist; very poorly sorted.	8-23-37-43	1.6		0.0
5						SAIC01	
				22-37-36-49	1.6		0.8
			Silt, 30% sub-angular granular weathered chert fragments, trace very fine sand. 2.5YR5/8 red with brown yellow mottling; low plasticity; very dense; moist; very poorly sorted.	19-47-36-27	1.6		2.2
				15-24	.75		1.9
10			<i>Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole column.</i> <i>Note: NR=Not Recorded, NA=Not Applicable.</i>				

SOIL BORING

Project Name: Fort McClellan Site Location: Pelham Range Soil Boring No.: BGP-S12
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-5-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 10
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Dril Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
	ML		Silt, 20% sub-rounded very fine sand. 10R4/6 red with brown yellow mottling; slightly plastic; dense; moist; poorly sorted. 3.0': Becoming very dense. 7.0': Some light gray mottling and MnO2 staining.	6-9-5-23	2.0	SAIC01	32.0
5				11-22-26-48	1.3		63.0
				14-20-27-34	1.6		22.7
				21-26-31-32	1.5		73.0
				15-27	0.9		32.0
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole column. Note: NR=Not Recorded, NA=Not Applicable.				10

SOIL BORING

Project Name: Fort McClellan Site Location: Pelham Range Soil Boring No.: BGP-S13
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-5-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 9
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Dril Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
	ML		Silt, 20% sub-rounded very fine sand. 10YR6/8 brown yellow, with red brown and light gray mottling; low plasticity; medium stiff; moist; poorly sorted.	19-11-7-9	1.5		1.7
5			4.0': Sagrolitic slate and light gray clay present. Becoming dense.	7-20-21-26	1.6	SAIC01	2.8
	CH	/ / / / /	Silty clay, 35% sub-rounded sagrolitic slate fragments. 2Gley8/1 light blue gray with brown yellow mottling; medium plasticity; hard; very moist; very poorly sorted.	10-22-44-43	1.6		1.7
	SLATE	\ \ \ \ \	Slate. 7.5YR5/4 brown with light blue gray and brown yellow laminations; verticle fissility; very dense; very fine grained; moderately sorted.	12-45-94-117	1.5	SAIC04	1.8
10			<i>Bottom of boring at 9 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of 1' to 7' below ground surface.</i> <i>Note: NR=Not Recorded, NA=Not Applicable.</i>				

SOIL BORING

Project Name: <u>Fort McClellan</u>	Site Location: <u>Pelham Range</u>	Soil Boring No.: <u>BGP-S14</u>
SAIC Project No.: <u>01-0827-03-6520</u>	Groundwater Depth (ft): <u>Not encountered</u>	Start/Finish Date: <u>8-6-97</u>
Geologist: <u>Brad Baker</u>	Sampling Method: <u>3" Split spoon</u>	Drilled Depth (ft): <u>10</u>
Drilling Co.: <u>Miller Drilling</u>		Drilling Method (ft): <u>Hollowstem auger</u>
Driller: <u>Pete Brown</u>		Dril Rig: <u>B-59 Auger rig</u>

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
	ML		Silt, 20% sub-rounded very fine sand. 2.5YR5/8 red, with medium gray, and brown yellow mottling; medium plasticity; dense; moist; poorly sorted.	13-13-15-22	1.3	SAIC01	21.0
			3.0': Becoming slightly fissile, 10 degrees from verticle, and very dense.	9-20-33-34	1.5		31.0
5			5.0': Increasing fissility, weathered saprolitic slate is present.	10-23-44-50/5"	1.5		17.0
				18-32-54-50/3"	1.5		13.0
			9.0': Color change to 10YR6/8 brown yellow with red and gray mottling.	19-44	0.5		1.6
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole.				
			Note: NR=Not Recorded, NA=Not Applicable.				

SOIL BORING

Project Name: Fort McClellan Site Location: Pelham Range Soil Boring No.: BGP-S15
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-6-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 10
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Dril Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
	ML	 	Silt, 20% sub-rounded very fine sand. 10YR6/6 brown yellow, with pale brown, and light gray mottling; slightly plastic; medium dense; moist; poorly sorted.	11-9-7-11	1.2	SAIC01	NR
			3.0': Some red mottling present; becoming dense.	9-14-20-21	1.4		NR
5			Clayey silt, trace sub-rounded very fine sand. 10R5/8 red, with brown yellow, and white mottling; medium plasticity; very dense; moist; poorly sorted.	13-24-35-37	1.4		NR
				14-25-46-72	2.0		NR
				20-44	NR		NR
10			<i>Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical samples were taken from a composite of entire boring.</i> <i>Note: NR=Not Recorded, NA=Not Applicable.</i>				

SOIL BORING

Project Name: <u>Fort McClellan</u>	Site Location: <u>Pelham Range</u>	Soil Boring No.: <u>BGP-S16</u>
SAIC Project No.: <u>01-0827-03-6520</u>	Groundwater Depth (ft): <u>Not encountered</u>	Start/Finish Date: <u>8-18-97</u>
Geologist: <u>Brad Baker</u>	Sampling Method: <u>3" Split spoon</u>	Drilled Depth (ft): <u>10</u>
Drilling Co.: <u>Miller Drilling</u>		Drilling Method (ft): <u>Hollowstem auger</u>
Driller: <u>Pete Brown</u>		Dril Rig: <u>B-59 Auger rig</u>

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
	ML		Clayey silt, trace sub-rounded very fine sand. 2.5YR3/4 dark red brown; low plasticity; medium dense; moist; poorly sorted.				
	CL		Silty clay, trace sub-rounded very fine sand. 2.5YR4/6 red; medium plasticity; very stiff; very moist; poorly sorted.	9-7-8-11	1.2		0.0
				9-13-13-12	1.2		0.0
5			Clayey silt, trace very fine sand, trace sub-rounded granular chert. 10R5/8 red with 10R2/1 light gray mottling; medium plasticity; dense; moist; very poorly sorted.	5-10-17-22	1.4	SAIC01	0.0
	MH		Silt, trace very fine sand, trace sub-rounded granular chert. 10R5/8 red with 10YR6/8 brown yellow mottling; medium plasticity; dense; moist; poorly sorted.	8-13-20-26	1.2		0.0
			9.0': Becoming very moist.	9-14	0.5		0.0
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical samples were taken from a composite of entire boring. Note: NR=Not Recorded, NA=Not Applicable.				

SOIL BORING

Project Name: Fort McClellan Site Location: Pelham Range Soil Boring No.: BGP-S19
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-6-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 10
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Drill Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
	ML	 	Silt, 20% subrounded very fine sand. 10YR7/8 yellow with brown yellow and medium red laminations; low plasticity; dense; moist; poorly sorted; vericle fissility. 5.0': Becoming very dense.	13-18-21-24	1.5	SAIC01	NR
				19-20-23-26	1.6		NR
5				15-23-29-33	1.4		NR
				23-24-37-31	1.6		NR
				19-19	0.5		NR
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical samples taken from composite of entire boring. Note: NR=Not Recorded, NA=Not Applicable.				

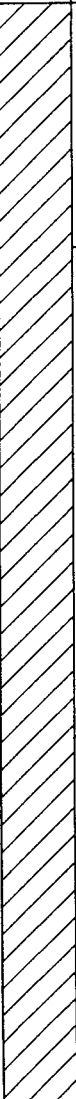
SOIL BORING

Project Name: Fort McClellan Site Location: Pelham Range Soil Boring No.: BGP-S20
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-14-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 10
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Dril Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
	ML	 	Silt, 20% sub-rounded fine to medium sand. 10YR6/8 brown yellow, with red mottling; slightly plastic; medium dense; moist; poorly sorted.	5-8-12-14	1.4	SAIC01	72.4
			3.0': Becoming very dense.	6-15-23-32	1.2		5.7
5			5.0': Trace chert fragments present.	9-23-56-72	1.5		7.6
			Silt, 30% sub-angular granular weathered chert, trace very fine sand. 10R4/8 red, with brown yellow mottling; slightly plastic; very dense; moist; poorly sorted.	36-72-90/5"	2.0		4.2
				36-52	1.0		3.1
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical samples taken from composite of entire boring.				
			Note: NR=Not Recorded, NA=Not Applicable.				

SOIL BORING

Project Name: Fort McClellan Site Location: Pelham Range Soil Boring No.: BGP-S21
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-4-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 10
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Dril Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)	
			0 to 1.0': Not recorded					
	CL		Silty clay, trace sub-rounded very fine sand. 10YR7/6 yellow, with light gray and black mottling; medium plasticity; very stiff; moist; poorly sorted.	9-8-11-11	1.7	SAIC01	8.6	
			Sandy clay, 35% sub-rounded medium sand. 10YR7/4 very pale brown, with brown yellow mottling; medium plasticity; very stiff; very moist to wet; poorly sorted.	6-9-8-8	1.6		NR	
5				Gravelly clay, 25% sub-angular chert gravel. 10YR6/6 brown yellow; medium plasticity; hard; moist; poorly sorted.	6-13-21-43		1.6	NR
				9.0': Some black staining present on chert fragments.	28-22-22-21		1.0	NR
10			<i>Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical samples taken from composite of entire boring.</i> <i>Note: NR=Not Recorded, NA=Not Applicable.</i>	12-12	0.85	NR		

SOIL BORING

Project Name: Fort McClellan Site Location: Pelham Range Soil Boring No.: BGP-S22
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-17-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 10
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Dril Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)	
			0 to 1.0': Not recorded.	NA	NA	SAIC01	0.0	
	ML		Silt, 20% sub-rounded very fine sand. 7.5YR5/6 strong brown; low plasticity; medium density; moist; poorly sorted.	20-9-9-16	1.4	SAIC02	0.0	
			Sandy silt, 25% sub-rounded very fine to coarse sand, trace sub-rounded granular chert fragments. 10R4/6 red, with 7.5YR6/8 red yellow; low plasticity; very dense; moist; poorly sorted.	15-18-28-34	1.2		0.0	
5					9-20-31-40		1.3	0.0
			Clayey silt, trace sub-rounded very fine sand. 7.5R6/8 red yellow, with 1Gley8/1 white; medium plasticity; very dense; moist; poorly sorted.	14-22-34-50/4"	1.4		0.0	
			9.0': Trace chert fragments present.	26-35	1.5		0.0	
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC02 taken from a composite of 1.0' to 10.0' below ground surface.					
			Note: NR=Not Recorded, NA=Not Applicable.					

SOIL BORING

Project Name: <u>Fort McClellan</u>	Site Location: <u>Pelham Range</u>	Soil Boring No.: <u>BGP-S24</u>
SAIC Project No.: <u>01-0827-03-6520</u>	Groundwater Depth (ft): <u>Not encountered</u>	Start/Finish Date: <u>8-6-97</u>
Geologist: <u>Brad Baker</u>	Sampling Method: <u>3" Split spoon</u>	Drilled Depth (ft): <u>10</u>
Drilling Co.: <u>Miller Drilling</u>		Drilling Method (ft): <u>Hollowstem auger</u>
Driller: <u>Pete Brown</u>		Drill Rig: <u>B-59 Auger rig</u>

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
	ML		Sandy silt, 35% sub-rounded medium sand. 2.5YR5/8 red, with yellow brown laminations; slightly plastic; medium dense; moist; poorly sorted.	7-5-8-8	1.8		7.2
5	SM		Fine sub-rounded sand, 20% silt. 2.5Y7/8 yellow; dense; moist; moderately sorted.	6-11-21-19	1.5		7.1
						SAIC01	
				11-18-22-25	1.6		2.8
			Clayey silt, 20% sub-rounded very fine sand. 10YR5/6 brown yellow, with MnO2 staining; medium plasticity; dense; moist; poorly sorted.				
	ML		Silt, 20% sub-rounded very fine sand. 2.5YR4/8 red, with brown yellow and light gray; medium plasticity; dense; moist; poorly sorted.	11-16-21-22	0.8		0.0
				10-16	1.0		0.0
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole column. Note: NR=Not Recorded, NA=Not Applicable.				

SOIL BORING

Project Name: Fort McClellan Site Location: Pelham Range Soil Boring No.: BGP-S25
 SAIC Project No.: 01-0827-03-6520 Groundwater Depth (ft): Not encountered Start/Finish Date: 8-5-97
 Geologist: Brad Baker Sampling Method: 3" Split spoon Drilled Depth (ft): 10
 Drilling Co.: Miller Drilling Drilling Method (ft): Hollowstem auger
 Driller: Pete Brown Dril Rig: B-59 Auger rig

Depth (feet)	Soil Class USCS	Lithologic Symbol	Material Description	Blows/6 in.	Sample Rec (ft.)	Sample Type And #	OVA (ppm)
			0 to 1.0': Not recorded.				
	ML		Clayey silt, trace sub-rounded very fine sand. 7.5YR6/8 red yellow, with red and light gray; medium plasticity; dense; moist; poorly sorted.	8-17-19-16	2.0	SAIC01	5.2
				14-8-9-16	1.5		2.6
5	CH		Silty clay, trace sub-rounded very fine sand. 2Gley8/1 light blue gray, with red yellow; high plasticity; hard; moist; poorly sorted.	7-13-16-22	1.5	SAIC01	1.0
			Saprolitic slate. 7.5YR2.5/1 black with medium brown; hard; moist; verticle fissility.	4-16-27-38	1.6		0.8
			Silty clay, 30% saprolitic slate, trace sub-rounded very fine sand. 2Gley8/1 light blue gray, with red yellow; high plasticity; very stiff; moist; poorly sorted.	6-17	1.0		1.0
10			Bottom of boring at 10 feet below ground surface. Borehole diameter=8.5 inches. Analytical sample SAIC01 was taken from a composite of entire borehole column.				
			Note: NR=Not Recorded, NA=Not Applicable.				