APPENDIX B

BORING LOGS

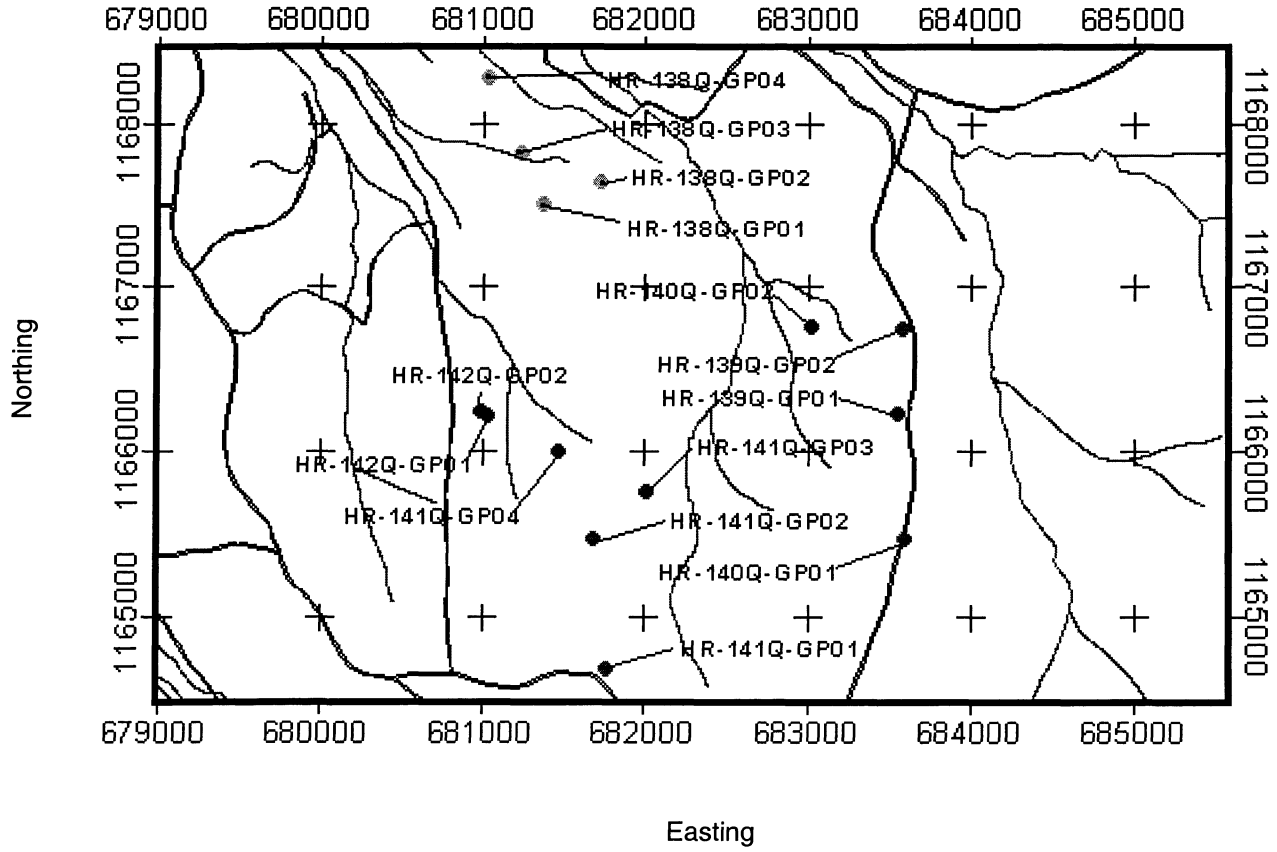
HTRW DRILLING LOG

District: **Mobile USACE**		**HOLE NUMBER** HR-138Q-GP01
1. Company name: **IT Corporation**	2. Drill Subcontractor: ESN	Sheet 1 of 3 sheets

3. Project: Fort McClellan	4. Location: **Calhoun County, Alabama**
5. Name of driller: Sammy McDaniel	6. Mfr. designation of drill: Strataprobe
7. Sizes and types of drilling and sampling equipment: Direct Push DP - 2'x2" Acetate-Lined Sampler	8. Hole location:Artillery & Mortar Impact Areas S. of Bains Gap, Parcel 138Q 9. Surface elevation (feet above mean sea level): 814.4 10. Date started: 01/31/01 — 11. Date completed: 01/31/01
12. Overburden thickness (feet bgs): >11	15. Depth groundwater encountered (feet bgs): Not encountered
13. Depth drilled into rock (feet bgs): 0	16. Depth to water and elapsed time after drilling completed (feet bgs): NA
14. Total depth of hole (feet bgs): 11	17. Other water level measurements (specify): NA

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes: NA		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
		X	Nitroaromatics	Perchlorate		NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
	X			Nicole Badon		

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan

bgs= below ground surface
NA = Not applicable

Hole no.: HR-138Q-GP01

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: HR-138Q-GP01

Project: Fort McClellan | Geologist: Nicole Badon | Sheet 2 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	0	ml: Stiff, medium brown SILT, some Clay, little fine to medium Sand, trace fine to medium Gravel, moist.	ml		Organic Vapor = 0.0ppm		YE0001		Rec 1.0'/1.0 (0-1' bgs)
	1	cl: Medium stiff, orange-red CLAY, some Silt, little fine Sand, moist.	cl		Organic Vapor = 0.0ppm				Rec 2.5'/3.0 (1-4' bgs)
	2								
	3								
	4	cl-ml: Stiff, orange-red to off white CLAY and SILT, little Sand, moist.	cl-ml		Organic Vapor = 0.0ppm				Rec 3.8'/4.0 (4-8' bgs)
810									
	5								
	6								
	7								
	8	cl-ml: Medium stiff, light gray CLAY and SILT, trace fine, subangular Gravel, moist.	cl-ml		Organic Vapor = 0.0ppm				Rec 3.0'/3.0 (8-11' bgs)
	9								
805									
	10								

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: HR-138Q-GP01

Project: Fort McClellan | Geologist: Nicole Badon | Sheet 3 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	11						YE0002 YE0003		Direct push refusal at 11' bgs Bottom of borehole at 11' bgs 11

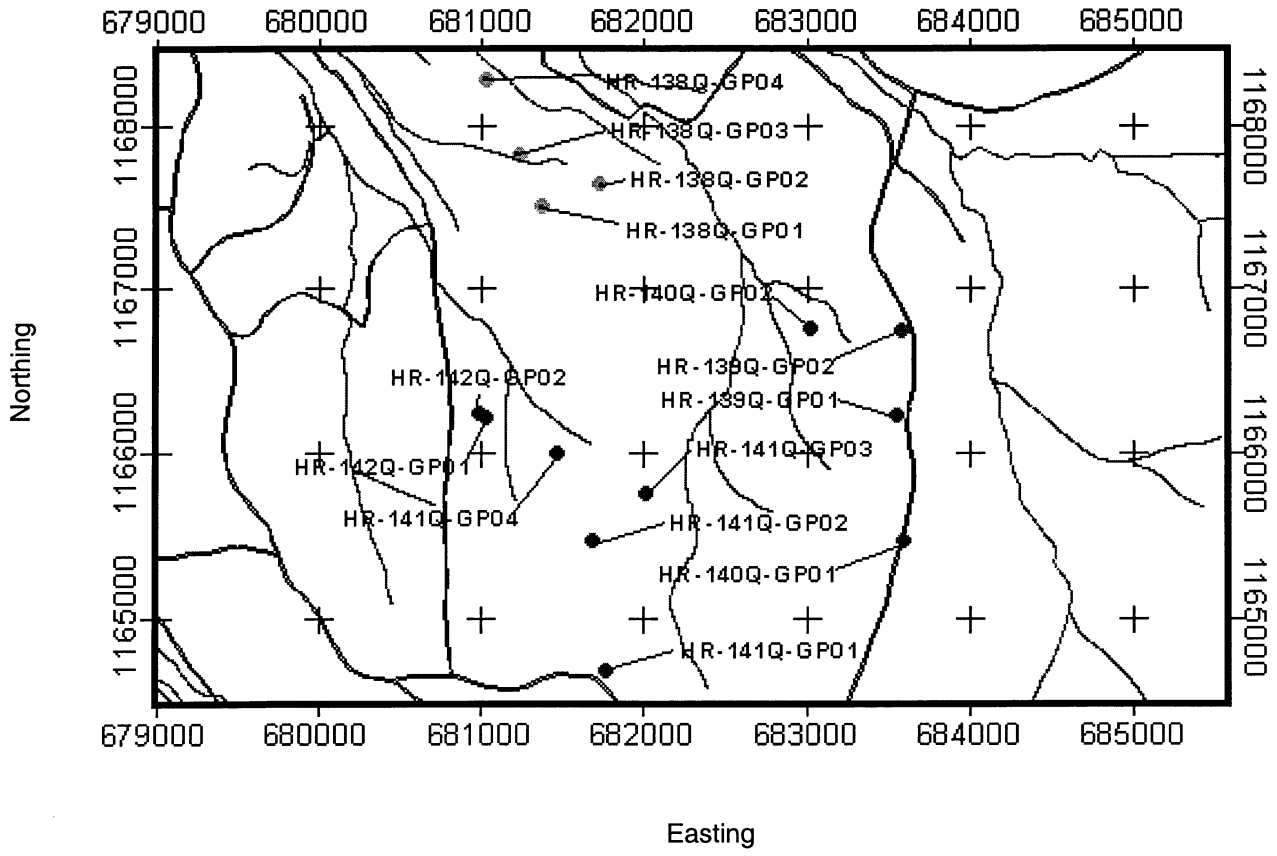
HTRW DRILLING LOG

District: **Mobile USACE**		HOLE NUMBER HR-138Q-GP02
1. Company name: **IT Corporation**	2. Drill Subcontractor: ESN	Sheet 1 of 2 sheets

3. Project: Fort McClellan	4. Location: **Calhoun County, Alabama**
5. Name of driller: Sammy McDaniel	6. Mfr. designation of drill: Strataprobe
7. Sizes and types of drilling and sampling equipment: Direct Push DP - 2'x2" Acetate-Lined Sampler	8. Hole location:Artillery & Mortar Impact Areas S. of Bains Gap, Parcel 138Q 9. Surface elevation (feet above mean sea level): 809.82 10. Date started: 02/01/01 — 11. Date completed: 02/01/01
12. Overburden thickness (feet bgs): >5	15. Depth groundwater encountered (feet bgs): Not encountered
13. Depth drilled into rock (feet bgs): 0	16. Depth to water and elapsed time after drilling completed (feet bgs): NA
14. Total depth of hole (feet bgs): 5	17. Other water level measurements (specify): NA

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes: NA		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
		X	Nitroaromatics	Perchlorate		NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
	X			Nicole Badon		

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan

bgs= below ground surface
NA = Not applicable

Hole no.: HR-138Q-GP02

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: HR-138Q-GP02

Project: Fort McClellan | Geologist: Nicole Badon | Sheet 2 of 2 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	0	ml: Medium brown, soft, moist SILT, some Clay, little fine to medium Sand, little coarse, subrounded Gravel, trace roots.	ml		Organic Vapor = 0.0ppm		YE0005		Rec 1.0'/1.0 (0-1' bgs)
	1	ml: Light brown, soft, moist SILT, some Clay, little fine to medium Sand, trace fine, subrounded Gravel.	ml		Organic Vapor = 0.0ppm				Rec 1.0'/1.0 (1-2' bgs)
	2	cl: Light brown, medium stiff CLAY, some Silt, little coarse Sand, trace fine, subangular Gravel.	cl		Organic Vapor = 0.0ppm				Rec 1.2'/2.0 (2-4' bgs)
	3								
	4	cl: Reddish-brown, medium stiff, moist CLAY, some Silt, trace medium to coarse, subangular Gravel.	cl		Organic Vapor = 0.0ppm		YE0006		Rec 1.3'/1.0 (4-5' bgs) Direct push refusal at 5' bgs Bottom of borehole at 5' bgs
805	5								

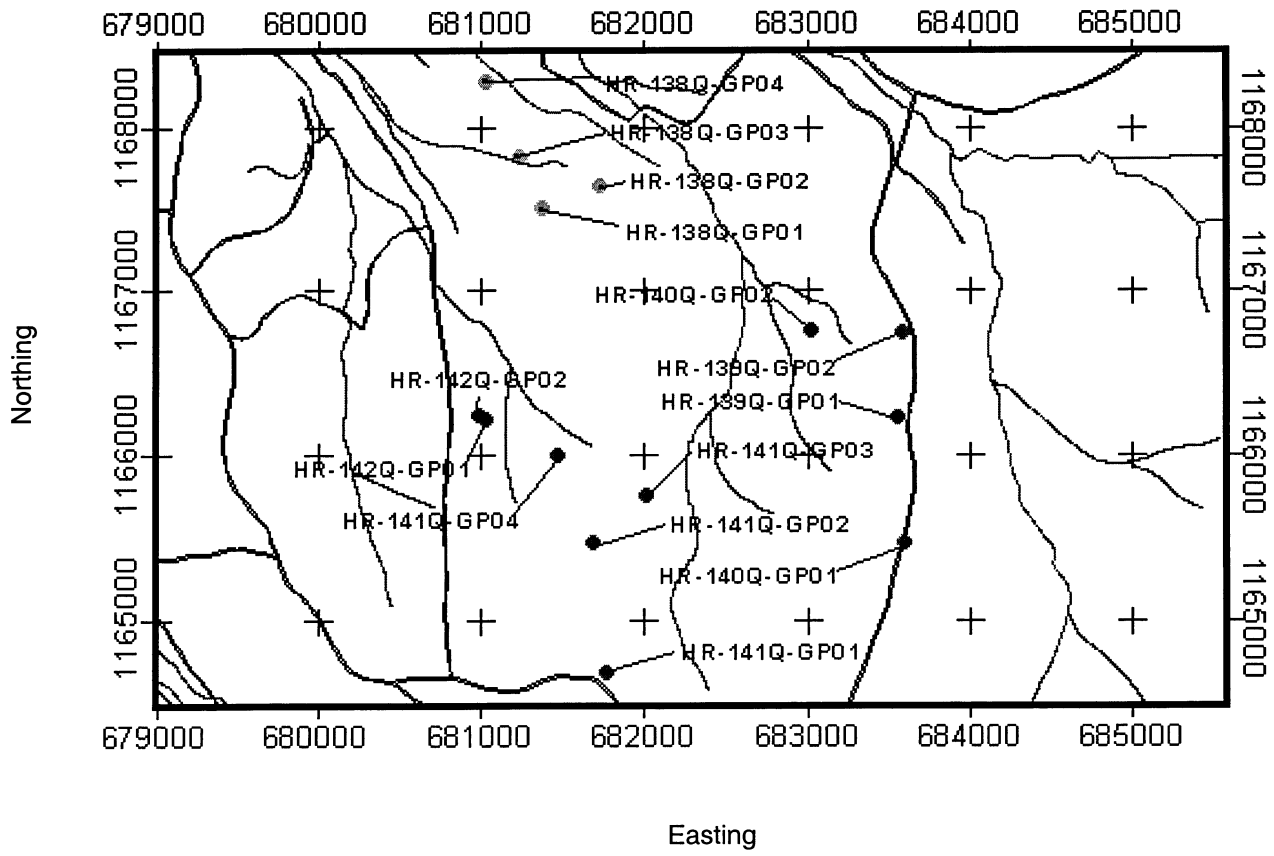
HTRW DRILLING LOG

District: **Mobile USACE**		**HOLE NUMBER** HR-138Q-GP03
1. Company name: **IT Corporation**	2. Drill Subcontractor: ESN	Sheet 1 of 2 sheets

3. Project: Fort McClellan	4. Location: **Calhoun County, Alabama**
5. Name of driller: Sammy McDaniel	6. Mfr. designation of drill: Strataprobe
7. Sizes and types of drilling and sampling equipment: Direct Push DP - 2'x2" Acetate-Lined Sampler	8. Hole location:Artillery & Mortar Impact Areas S. of Bains Gap, Parcel 138Q 9. Surface elevation (feet above mean sea level): 811.04 10. Date started: 01/31/01 — 11. Date completed: 01/31/01
12. Overburden thickness (feet bgs): >8	15. Depth groundwater encountered (feet bgs): Not encountered
13. Depth drilled into rock (feet bgs): 0	16. Depth to water and elapsed time after drilling completed (feet bgs): NA
14. Total depth of hole (feet bgs): 8	17. Other water level measurements (specify): NA

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes: NA		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
		X	Nitroaromatics	Perchlorate		NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
	X			Nicole Badon		

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan

bgs= below ground surface
NA = Not applicable

Hole no.: HR-138Q-GP03

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: HR-138Q-GP03

Project: Fort McClellan | Geologist: Nicole Badon | Sheet 2 of 2 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	0	ml: Soft, medium brown SILT, some Clay, little fine to medium Sand, trace coarse, subangular Gravel, moist.	ml		Organic Vapor = 0.0ppm		YE0007		Rec 1.0'/1.0' (0-1' bgs)
810	1	cl: Medium stiff, light brown CLAY, some Silt, little medium to coarse Sand, trace fine, subangular Gravel, moist.	cl		Organic Vapor = 0.0ppm				Rec 2.1'/3.0' (1-4' bgs)
	2								
	3								
	4	cl: Stiff, orange-red CLAY, some Silt, trace medium to coarse Sand, moist.							Rec 4.0'/4.0' (4-8' bgs)
	5								
805	6		cl						
	7				Organic Vapor = 0.0ppm		YE0008		Direct push refusal at 8' bgs Bottom of borehole at 8' bgs
	8								

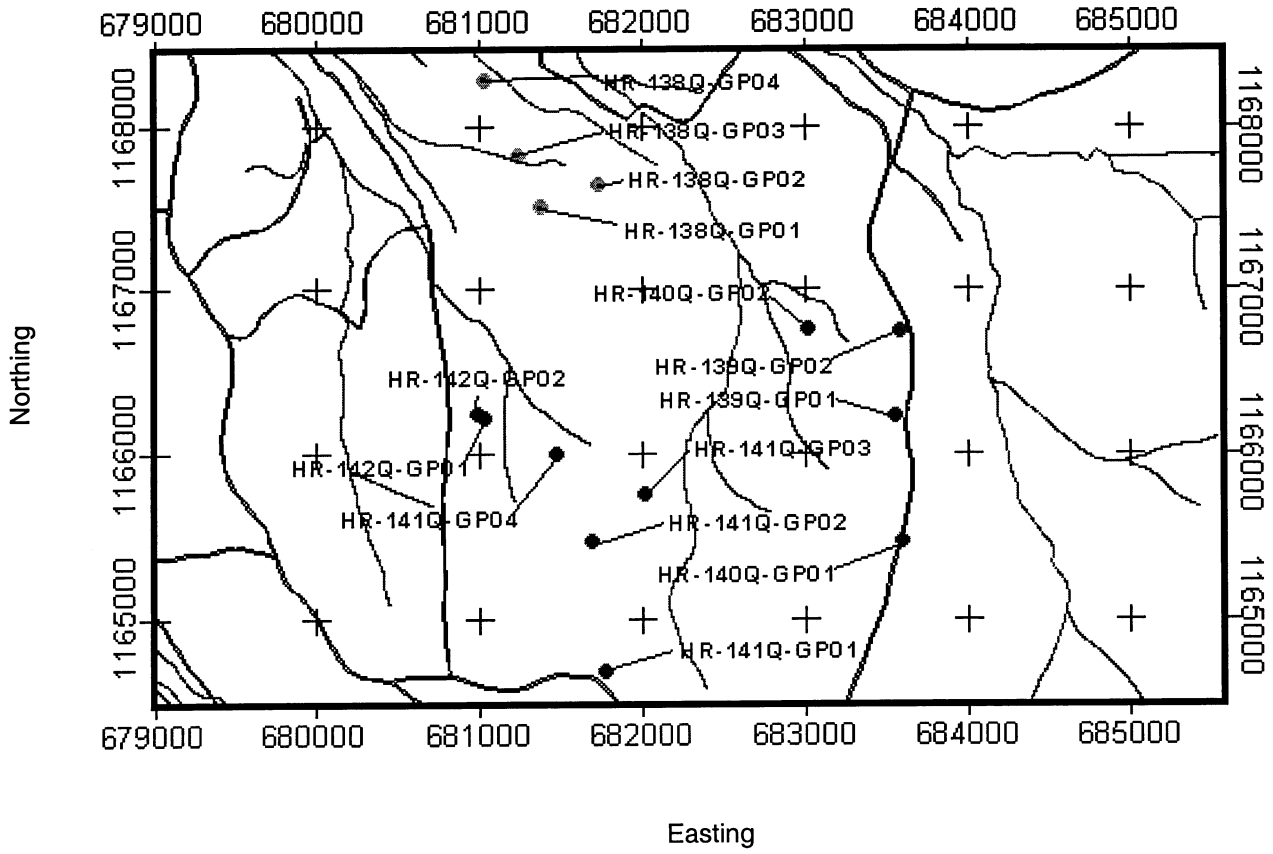
HTRW DRILLING LOG

District: **Mobile USACE**		HOLE NUMBER HR-138Q-GP04
1. Company name: **IT Corporation**	2. Drill Subcontractor: ESN	Sheet 1 of 3 sheets

3. Project: Fort McClellan	4. Location: **Calhoun County, Alabama**
5. Name of driller: Sammy McDaniel	6. Mfr. designation of drill: Strataprobe
7. Sizes and types of drilling and sampling equipment: Direct Push DP - 2'x2" Acetate-Lined Sampler	8. Hole location:Artillery & Mortar Impact Areas S. of Bains Gap, Parcel 138Q 9. Surface elevation (feet above mean sea level): 812.26 10. Date started: 01/31/01 — 11. Date completed: 01/31/01
12. Overburden thickness (feet bgs): >11	15. Depth groundwater encountered (feet bgs): Not encountered
13. Depth drilled into rock (feet bgs): 0	16. Depth to water and elapsed time after drilling completed (feet bgs): NA
14. Total depth of hole (feet bgs): 11	17. Other water level measurements (specify): NA

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes: NA		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
		X	Nitroaromatics	Perchlorate		NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
	X			Nicole Badon		

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan

bgs= below ground surface
NA = Not applicable

Hole no.: HR-138Q-GP04

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: HR-138Q-GP04

Project: Fort McClellan | Geologist: Nicole Badon | Sheet 2 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	0	cl: Soft, medium brown CLAY, some Silt, little fine Sand, trace fine, subangular Gravel, trace organic matter (roots), moist.	cl		Organic Vapor = 0.0ppm		YE0009		Rec 1.0'/1.0' (0-1' bgs)
	1	cl: Medium stiff, orange-red CLAY, some Silt, little medium Sand, trace fine, subangular Gravel, moist.	cl		Organic Vapor = 0.0ppm				Rec 2.2'/3.0' (1-4' bgs)
810	2								
	3								
	4	cl: Very stiff, orange-red CLAY, some Silt, little medium to coarse Sand, moist.	cl		Organic Vapor = 0.0ppm				Rec 4.0'/4.' (4-8' bgs)
	5								
	6								
805	7								
	8	cl: Medium stiff to stiff, orange-red CLAY, little Silt, trace fine to medium Sand, moist.	cl						Rec 3.0'/3.0 (8-11' bgs)
	9								
	10								

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: HR-138Q-GP04

Project: Fort McClellan | Geologist: Nicole Badon | Sheet 3 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	11				Organic Vapor = 0.0ppm		YE0010		Direct push refusal at 11' bgs Bottom of borehole at 11' bgs

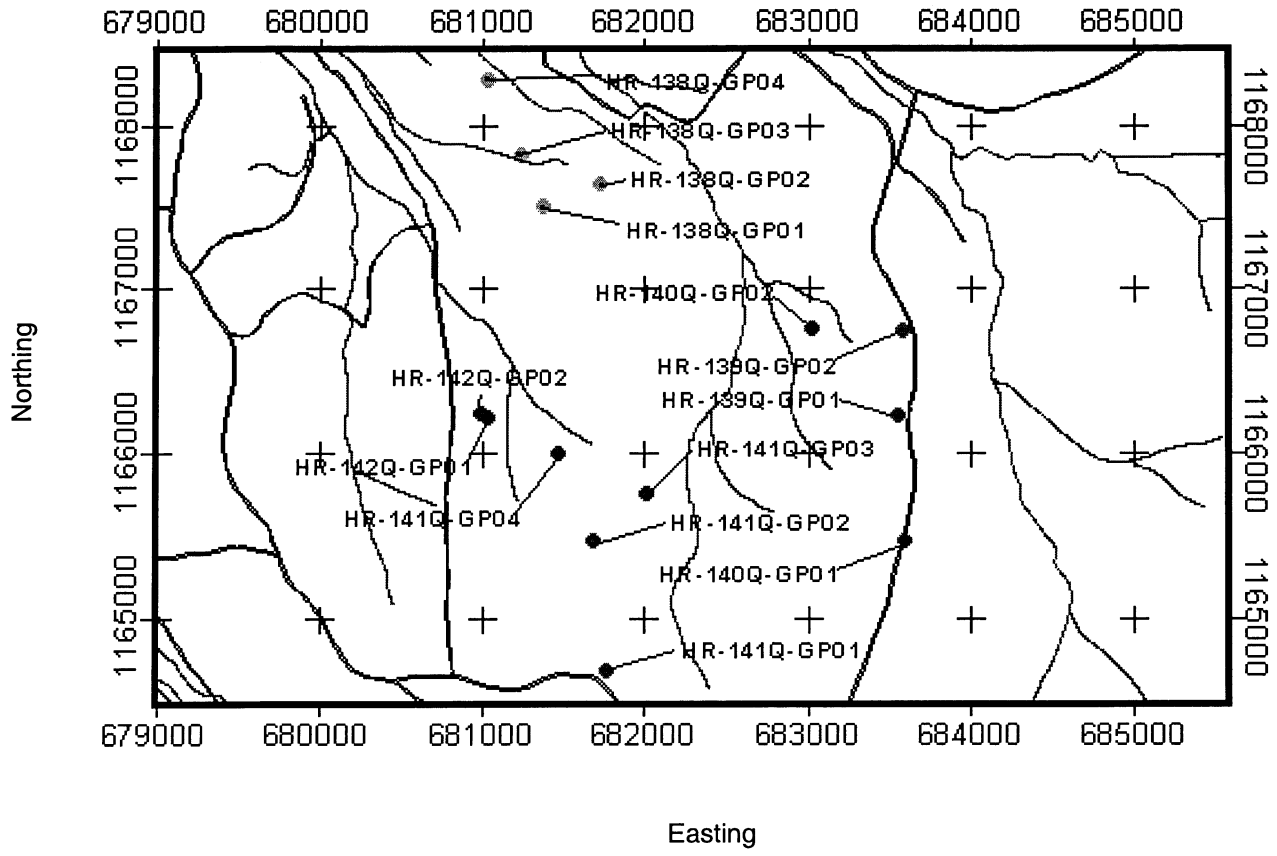
HTRW DRILLING LOG

District: **Mobile USACE**		**HOLE NUMBER** HR-139Q-GP01
1. Company name: **IT Corporation**	2. Drill Subcontractor: ESN	Sheet 1 of 3 sheets

3. Project: Fort McClellan	4. Location: **Calhoun County, Alabama**
5. Name of driller: Sammy McDaniel	6. Mfr. designation of drill: Strataprobe
7. Sizes and types of drilling and sampling equipment: Direct Push DP - 2'x2" Acetate-Lined Sampler	8. Hole location:Artillery & Mortar Impact Areas S. of Bains Gap, Parcel 139Q 9. Surface elevation (feet above mean sea level): 812.33 10. Date started: 02/08/01 — 11. Date completed: 02/08/01
12. Overburden thickness (feet bgs): >11	15. Depth groundwater encountered (feet bgs): Not encountered
13. Depth drilled into rock (feet bgs): 0	16. Depth to water and elapsed time after drilling completed (feet bgs): NA
14. Total depth of hole (feet bgs): 11	17. Other water level measurements (specify): NA

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes: NA		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
		X	Nitroaromatics	Perchlorate		NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
	X			Nicole Badon		

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan

bgs= below ground surface
NA = Not applicable

Hole no.: HR-139Q-GP01

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: HR-139Q-GP01

Project: Fort McClellan | Geologist: Nicole Badon | Sheet 2 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	0	ml: Light brown, soft, moist SILT, some medium to coarse Sand, little fine to coarse, subrounded Gravel.	ml		Organic Vapor = 0.0ppm		YG0001		Rec 1.0'/1.0' (0-1' bgs)
	1	ml: Yellowish-orange, medium stiff, moist SILT, some fine to medium Sand, little medium, subangular Gravel, trace Clay.	ml		Organic Vapor = 0.0ppm				Rec 2.0'/3.0' (1-4' bgs)
810	2								
	3								
	4	ml: Light gray, mottled yellowish-orange SILT, some Clay, trace fine Sand.	ml		Organic Vapor = 0.0ppm				Rec 4.0'/4.0' (4-8' bgs)
	5								
	6								
805	7								
	8	ml: Yellowish-orange, mottled light gray, medium stiff SILT, little Clay, little fine, angular Gravel, trace fine Sand.	ml						Rec 3.4'/3.0 (8-11' bgs)
	9								
	10								

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: HR-139Q-GP01

Project: Fort McClellan | Geologist: Nicole Badon | Sheet 3 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	11				Organic Vapor = 0.0ppm		YG0002		Direct push refusal at 11' bgs Bottom of borehole at 11' bgs

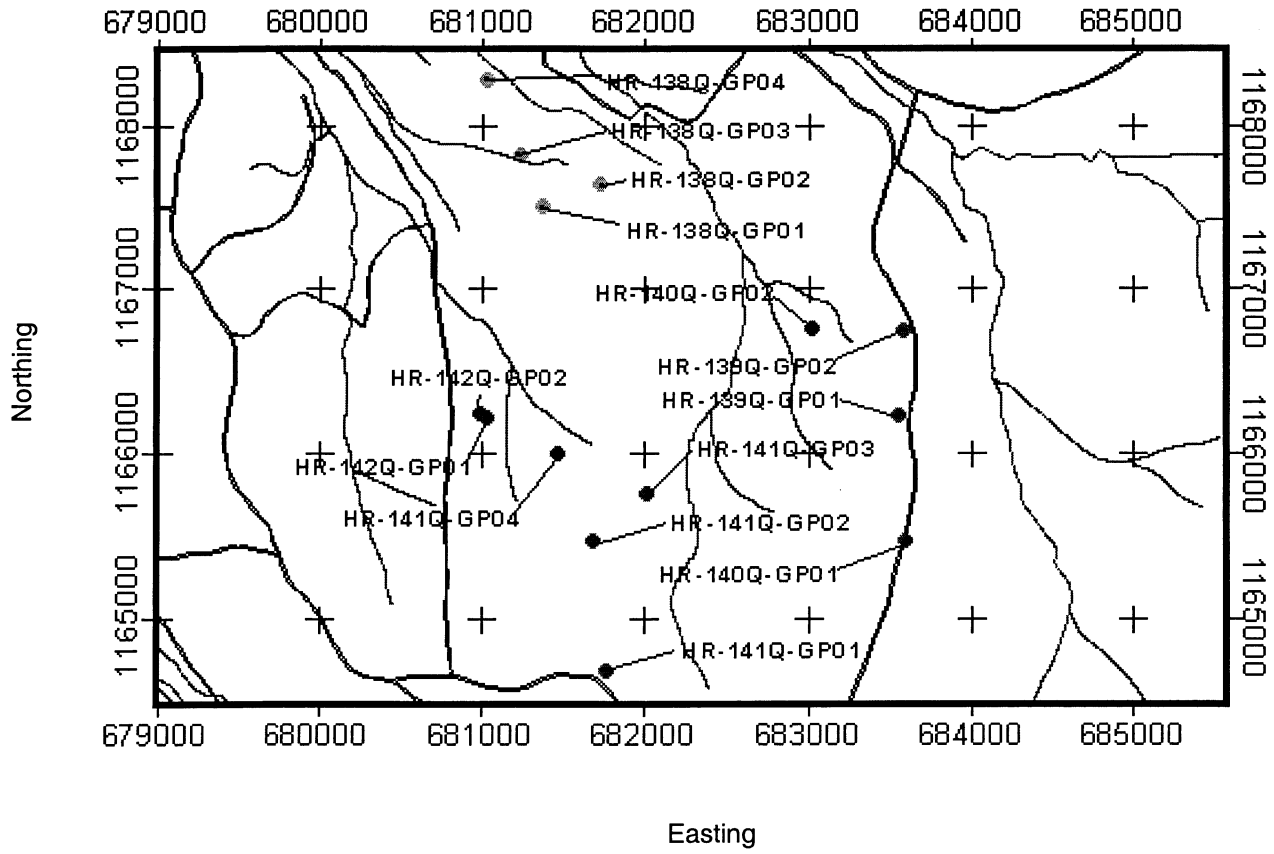
HTRW DRILLING LOG

District: **Mobile USACE**		**HOLE NUMBER** HR-139Q-GP02
1. Company name: **IT Corporation**	2. Drill Subcontractor: ESN	Sheet 1 of 3 sheets

3. Project: Fort McClellan	4. Location: **Calhoun County, Alabama**
5. Name of driller: Sammy McDaniel	6. Mfr. designation of drill: Strataprobe
7. Sizes and types of drilling and sampling equipment: Direct Push DP - 2'x2" Acetate-Lined Sampler	8. Hole location:Artillery & Mortar Impact Areas S. of Bains Gap, Parcel 139Q 9. Surface elevation (feet above mean sea level): 1030.31 10. Date started: 02/07/01 — 11. Date completed: 02/07/01
12. Overburden thickness (feet bgs): >11	15. Depth groundwater encountered (feet bgs): Not encountered
13. Depth drilled into rock (feet bgs): 0	16. Depth to water and elapsed time after drilling completed (feet bgs): NA
14. Total depth of hole (feet bgs): 11	17. Other water level measurements (specify): NA

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes: NA		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
		X	Nitroaromatics	Perchlorate		NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
	X			Nicole Badon		

LOCATION SKETCH/COMMENTS:



HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: HR-139Q-GP02

Project: Fort McClellan | Geologist: Nicole Badon | Sheet 2 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
1030	0	ml: Dark brown, soft, moist SILT, little fine to medium Sand, little medium to coarse, subangular Gravel, trace organics (roots).	ml		Organic Vapor = 0.0ppm		YG0003		Rec 1.0'/1.0)0-1' bgs)
	1	cl: Light brown, stiff, moist CLAY, some Silt, trace fine to medium Sand.	cl		Organic Vapor = 0.0ppm				Rec 2.2'/3.0 (1-4' bgs)
	2								
	3								
	4	cl: Light brown, mottled light gray CLAY, some Silt, trace fine Sand.	cl		Organic Vapor = 0.0ppm				Rec 4.0'/4.0 (4-8' bgs)
1025	5								
	6								
	7								
	8	cl: Light gray, mottled light brown CLAY, some Silt, trace fine Sand.	cl		Organic Vapor = 0.0ppm				Rec 3.2'/3.0 (8-11' bgs)
	9								
	10								

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: HR-139Q-GP02

Project: Fort McClellan | Geologist: Nicole Badon | Sheet 3 of 3 sheets

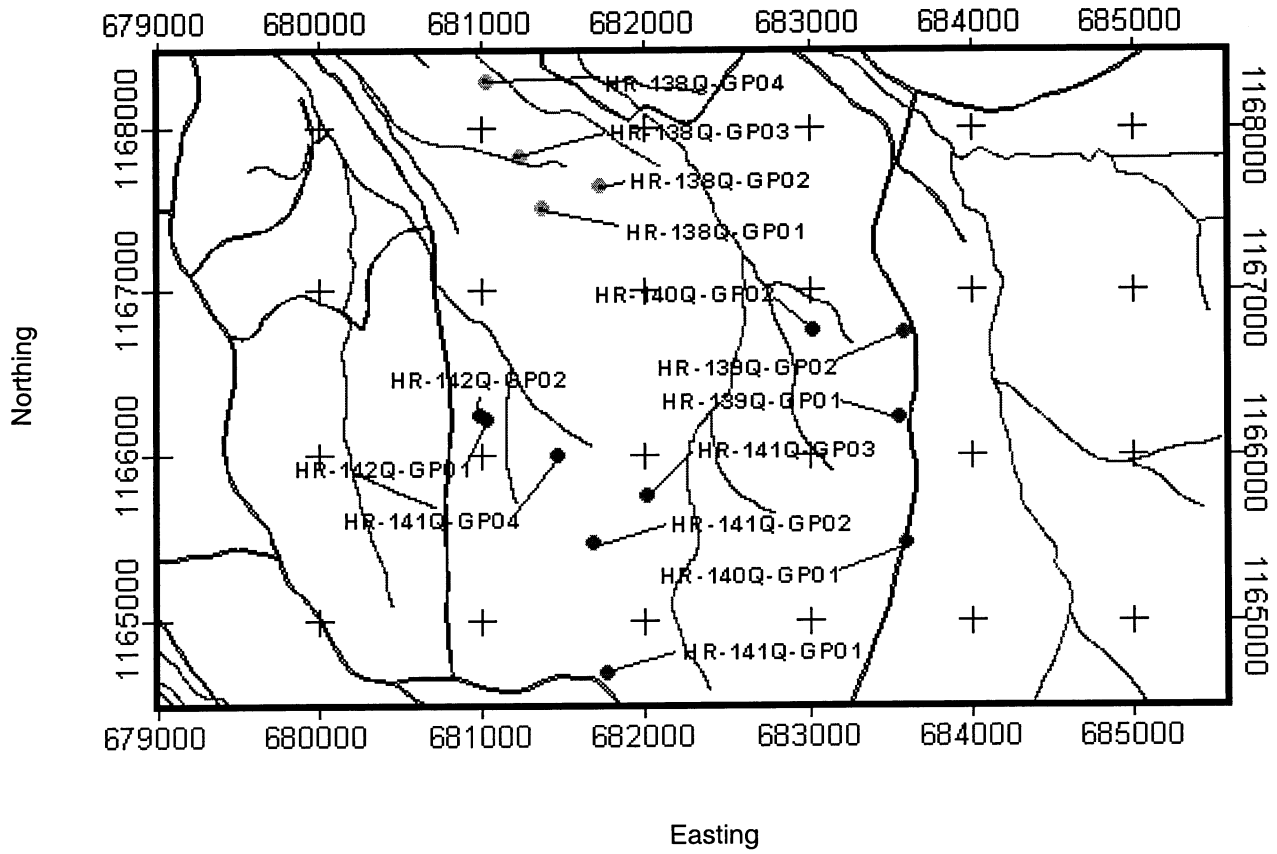
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	10 20						YG0004 YG0005		Direct push refusal at 11' bgs Bottom of borehole at 11' bgs
	11								11

HTRW DRILLING LOG

District: **Mobile USACE**		**HOLE NUMBER** HR-140Q-GP01
1. Company name: **IT Corporation**	2. Drill Subcontractor: ESN	Sheet 1 of 2 sheets
3. Project: Fort McClellan	4. Location: **Calhoun County, Alabama**	
5. Name of driller: Sammy McDaniel	6. Mfr. designation of drill: Strataprobe	
7. Sizes and types of drilling and sampling equipment: Direct Push DP - 2'x2" Acetate-Lined Sampler	8. Hole location:Artillery & Mortar Impact Areas S. of Bains Gap, Parcel 140Q 9. Surface elevation (feet above mean sea level): 1030.08 10. Date started: 02/07/01	11. Date completed: 02/07/01
12. Overburden thickness (feet bgs): >8	15. Depth groundwater encountered (feet bgs): Not encountered	
13. Depth drilled into rock (feet bgs): 0	16. Depth to water and elapsed time after drilling completed (feet bgs): NA	
14. Total depth of hole (feet bgs): 8	17. Other water level measurements (specify): NA	

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes: NA		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
		X	Nitroaromatics	Perchlorate		NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
	X			Nicole Badon		

LOCATION SKETCH/COMMENTS:



bgs= below ground surface
NA = Not applicable

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: HR-140Q-GP01

Project: Fort McClellan | Geologist: Nicole Badon | Sheet 2 of 2 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
1030	0	ml: Dark brown, moist, soft SILT, some fine to medium Sand, little medium to coarse, subangular Gravel, trace organics (roots).	ml		Organic Vapor = 0.0ppm		YH0001		Rec 1.0'/1.0' (0-1' bgs)
	1	ml: Light brown, stiff, moist SILT, some fine to medium Sand, little Clay.	ml		Organic Vapor = 0.0ppm				Rec 2.3'/3.0' (1-4' bgs)
	2								
	3								
	4	ml: Light grayish-orange, stiff, dry SILT, some fine Sand, trace Clay.	ml		Organic Vapor = 0.0ppm				Rec 4.0'/4.0' (4-8' bgs)
1025	5								
	6		ml						
	7								
	8						YH0002		Direct push refusal at 8' bgs Bottom of borehole at 8' bgs

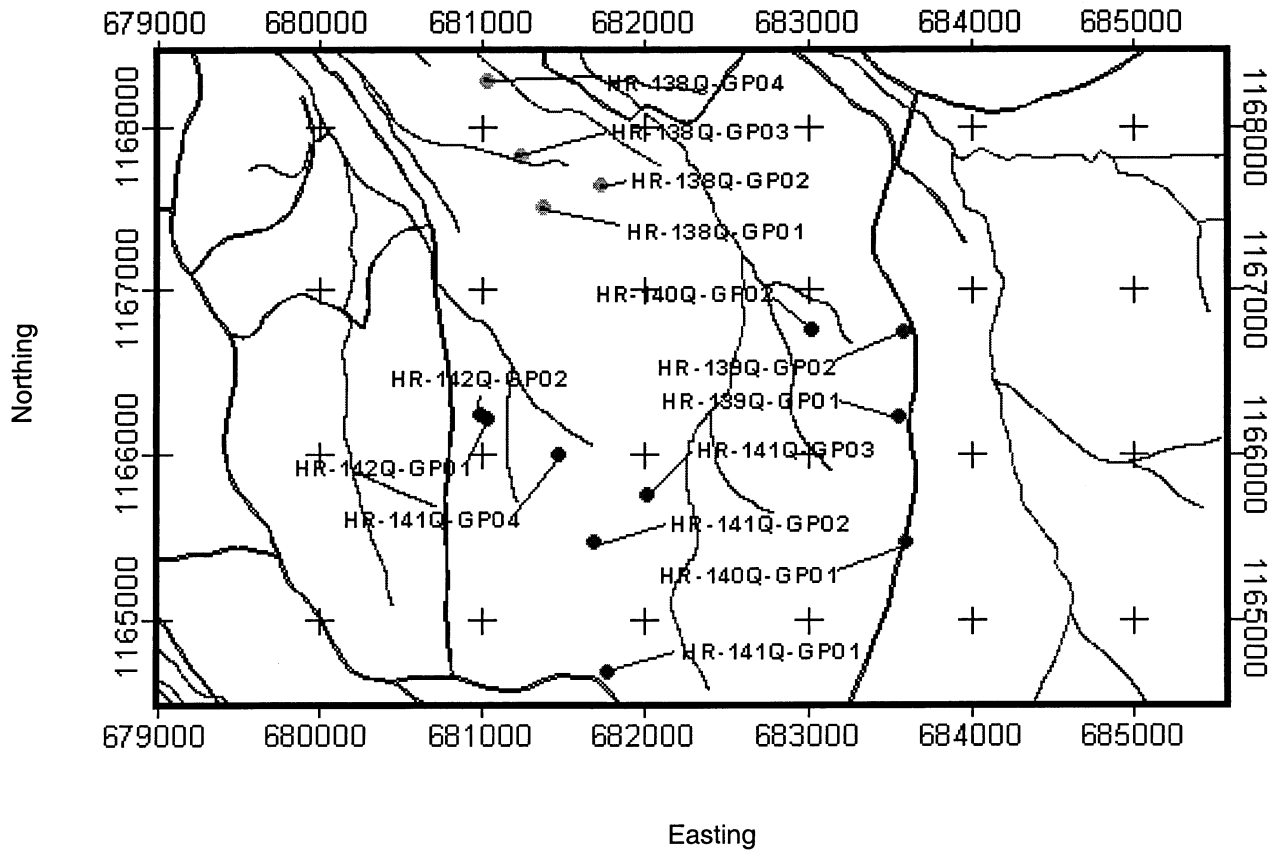
HTRW DRILLING LOG

District: **Mobile USACE**		HOLE NUMBER HR-140Q-GP02
1. Company name: **IT Corporation**	2. Drill Subcontractor: ESN	Sheet 1 of 2 sheets

3. Project: Fort McClellan	4. Location: **Calhoun County, Alabama**
5. Name of driller: Sammy McDaniel	6. Mfr. designation of drill: NA
7. Sizes and types of drilling and sampling equipment: Hand Auger	8. Hole location:Artillery & Mortar Impact Areas S. of Bains Gap, Parcel 140Q
	9. Surface elevation (feet above mean sea level): 809.88
	10. Date started: 02/08/01 / 11. Date completed: 02/08/01
12. Overburden thickness (feet bgs): >2	15. Depth groundwater encountered (feet bgs): Not encountered
13. Depth drilled into rock (feet bgs): 0	16. Depth to water and elapsed time after drilling completed (feet bgs): NA
14. Total depth of hole (feet bgs): 2	17. Other water level measurements (specify): NA

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes: NA		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
		X	Nitroaromatics	Perchlorate		NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist: Nicole Badon		
	X					

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan

bgs= below ground surface
NA = Not applicable

Hole no.: HR-140Q-GP02

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: HR-140Q-GP02

Project: Fort McClellan | Geologist: Nicole Badon | Sheet 2 of 2 sheets

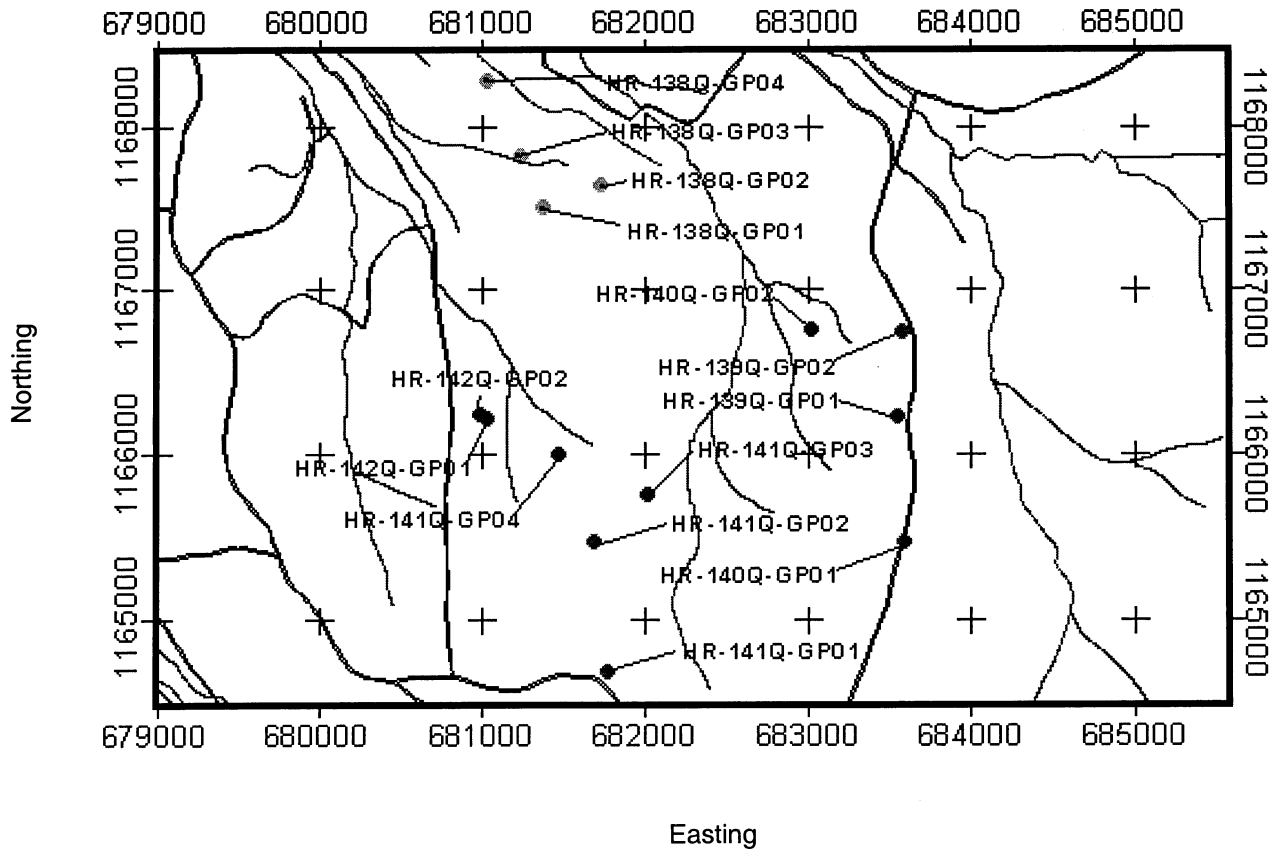
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	0	ml: Medium brown, moist SILT, some fine to medium Sand, little medium to coarse Gravel, trace organics (roots).	ml		Organic Vapor = 0.0ppm		YH0003		Rec 1.0'/1.0' (0-1' bgs)
	1	cl: Light brown, moist CLAY, some Silt, little medium to coarse Sand, little medium to coarse, angular Gravel.	cl		Organic Vapor = 0.0ppm		YH0004 YH0005		Rec 1.0'/1.0' (1-2' bgs) Hand auger refusal at 2' bgs Bottom of borehole at 2' bgs
	2								

HTRW DRILLING LOG

District: **Mobile USACE**		**HOLE NUMBER** HR-141Q-GP01
1. Company name: **IT Corporation**	2. Drill Subcontractor: ESN	Sheet 1 of 2 sheets
3. Project: Fort McClellan	4. Location: **Calhoun County, Alabama**	
5. Name of driller: Sammy McDaniel	6. Mfr. designation of drill: Strataprobe	
7. Sizes and types of drilling and sampling equipment: Direct Push DP - 2'x2" Acetate-Lined Sampler	8. Hole location:Artillery & Mortar Impact Areas S. of Bains Gap, Parcel 141Q 9. Surface elevation (feet above mean sea level): 1523.72 10. Date started: 02/07/01	11. Date completed: 02/07/01
12. Overburden thickness (feet bgs): >6	15. Depth groundwater encountered (feet bgs): Not encountered	
13. Depth drilled into rock (feet bgs): 0	16. Depth to water and elapsed time after drilling completed (feet bgs): NA	
14. Total depth of hole (feet bgs): 6	17. Other water level measurements (specify): NA	

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes: NA		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
		X	Nitroaromatics	Perchlorate		NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
	X			Nicole Badon		

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan

bgs= below ground surface
NA = Not applicable

Hole no.: HR-141Q-GP01

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: HR-141Q-GP01

Project: Fort McClellan | Geologist: Nicole Badon | Sheet 2 of 2 sheets

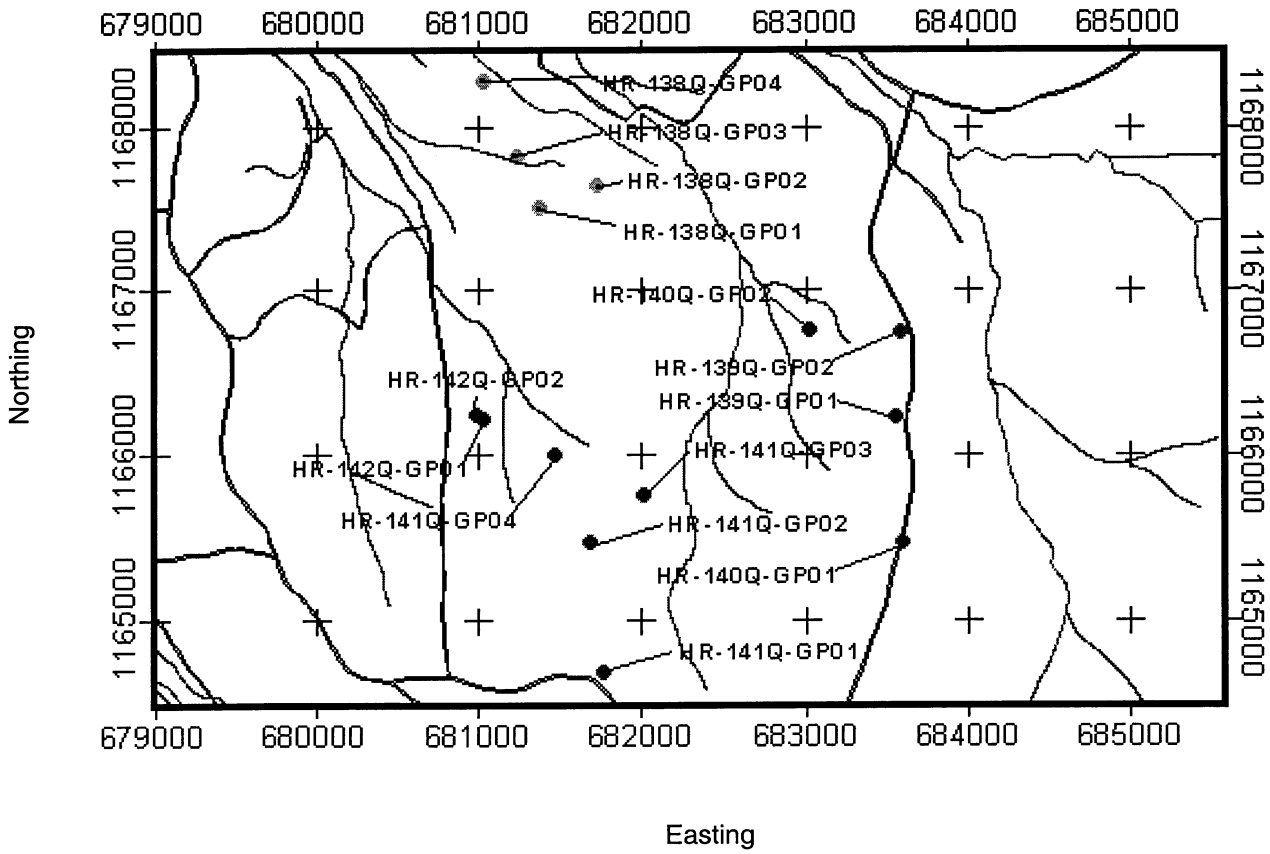
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	0	ml: Medium to light brown, soft, moist SILT, little Clay, trace fine to medium Sand, trace coarse subangular Gravel.	ml		Organic Vapor = 0.0ppm		YJ0001		Rec 1.0'/1.0' (0-1' bgs)
	1	ml: Light brown to yellowish-orange, medium stiff, dry, SILT, some medium to coarse Sand, trace medium gravel-size fragments of sandstone.	ml		Organic Vapor = 0.0ppm				Rec 2.9'/3.0' (1-4' bgs)
	2								
	3								
1520									
	4	ml: Yellowish-brown, medium stiff, dry, SILT, some fine to medium Sand.	ml		Organic Vapor = 0.0ppm				Rec 1.9'/2.0' (4-6' bgs)
	5								
							YJ0002		Direct push refusal at 6' bgs Bottom of borehole at 6' bgs
	6								

HTRW DRILLING LOG

District: **Mobile USACE**		**HOLE NUMBER** HR-141Q-GP02
1. Company name: **IT Corporation**	2. Drill Subcontractor: ESN	Sheet 1 of 2 sheets
3. Project: Fort McClellan	4. Location: **Calhoun County, Alabama**	
5. Name of driller: Sammy McDaniel	6. Mfr. designation of drill: NA	
7. Sizes and types of drilling and sampling equipment: Hand Auger	8. Hole location:Artillery & Mortar Impact Areas S. of Bains Gap, Parcel 141Q	
	9. Surface elevation (feet above mean sea level): 1352.68	
	10. Date started: 04/11/01	11. Date completed: 04/11/01
12. Overburden thickness (feet bgs): >4	15. Depth groundwater encountered (feet bgs): Not encountered	
13. Depth drilled into rock (feet bgs): 0	16. Depth to water and elapsed time after drilling completed (feet bgs): NA	
14. Total depth of hole (feet bgs): 4	17. Other water level measurements (specify): NA	

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes: NA		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
		X	Nitroaromatics	Perchlorate		NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
	X			Leslie O'Hare		

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan

bgs= below ground surface
NA = Not applicable

Hole no.: HR-141Q-GP02

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: HR-141Q-GP02

Project: Fort McClellan | Geologist: Leslie O'Hare | Sheet 2 of 2 sheets

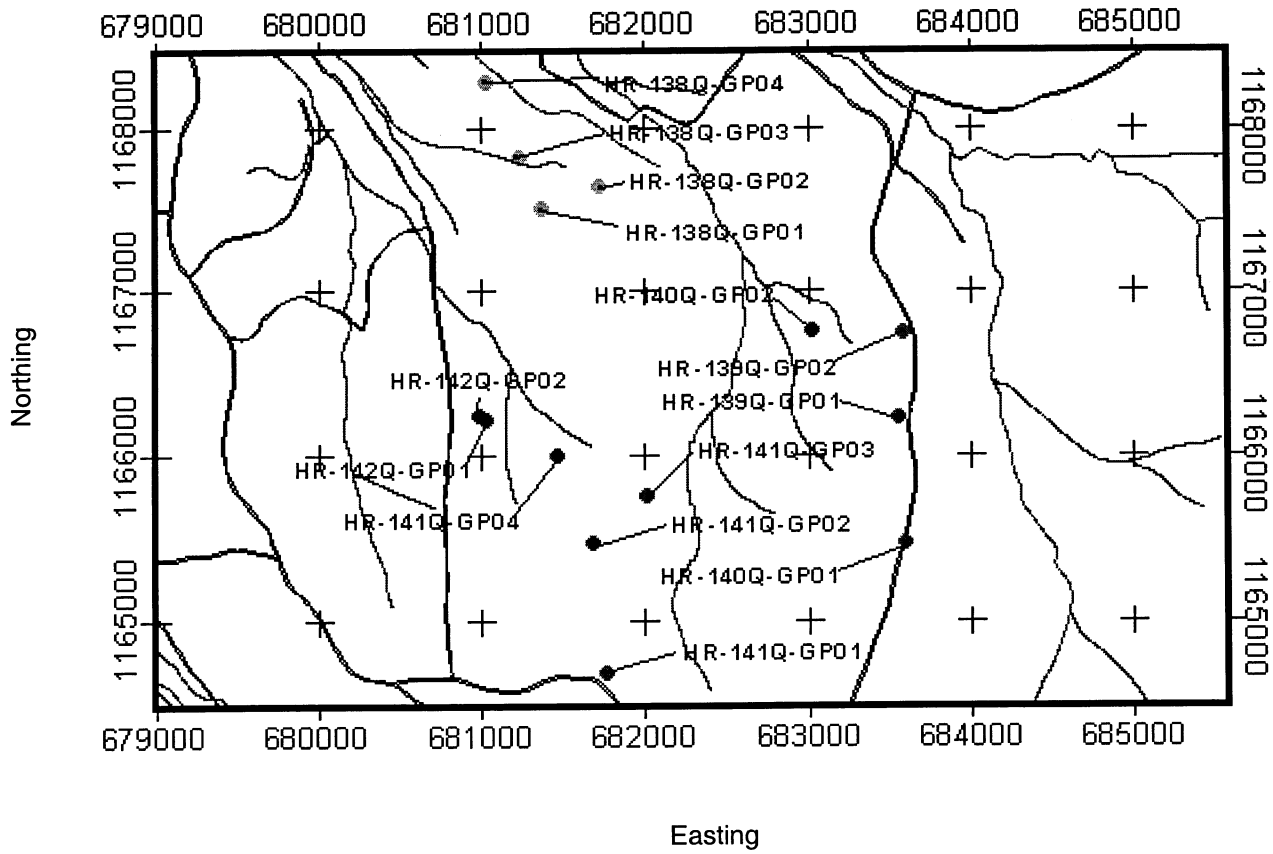
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	0	cl: Light brown, moist, soft CLAY, some coarse quartz-rich subangular coarse to fine Gravel.	cl		Organic Vapor = 0.0ppm		YJ0003		Rec 1.0'/1.0' (0-1' bgs)
	1	cl: Light brown, dry, soft CLAY.	cl						Rec 2.0'/2.0' (1-3' bgs)
1350	2								
	3	cl: Light gray, mottled, light brown, dry, stiff CLAY.	cl		Organic Vapor = 0.0ppm		YJ0004		Rec 1.0'/1.0' (3-4' bgs) Hand auger refusal at 4' bgs Bottom of borehole at 4' bgs
	4								

HTRW DRILLING LOG

District: **Mobile USACE**		HOLE NUMBER HR-141Q-GP03
1. Company name: **IT Corporation**	2. Drill Subcontractor: ESN	Sheet 1 of 2 sheets
3. Project: Fort McClellan	4. Location: **Calhoun County, Alabama**	
5. Name of driller: Sammy McDaniel	6. Mfr. designation of drill: Strataprobe	
7. Sizes and types of drilling and sampling equipment: Direct Push DP - 2'x2" Acetate-Lined Sampler	8. Hole location:Artillery & Mortar Impact Areas S. of Bains Gap, Parcel 141Q	
	9. Surface elevation (feet above mean sea level): 1280.71	
	10. Date started: 02/09/01	11. Date completed: 02/09/01
12. Overburden thickness (feet bgs): >4	15. Depth groundwater encountered (feet bgs): Not encountered	
13. Depth drilled into rock (feet bgs): 0	16. Depth to water and elapsed time after drilling completed (feet bgs): NA	
14. Total depth of hole (feet bgs): 4	17. Other water level measurements (specify): NA	

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes: NA		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
		X	Nitroaromatics	Perchlorate		NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist: Katrina Hunter		
	X					

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan

bgs= below ground surface
NA = Not applicable

Hole no.: HR-141Q-GP03

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: HR-141Q-GP03

Project: Fort McClellan | Geologist: Katrina Hunter | Sheet 2 of 2 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
1280	0	ml: Dark brown, soft, moist SILT, some fine to medium Sand, trace coarse angular Gravel, trace organics.	ml		Organic Vapor = 0.0ppm		YJ0005		Rec 1.0'/1.0' (0-1' bgs)
	1	ml: Dark brown, soft, moist SILT, some Clay, trace fine to medium Sand, trace medium subangular Gravel, trace organics.	ml						Rec 0.6'/1.0' (1-2' bgs)
	2	ml: Light to medium yellowish-brown, medium stiff, slightly moist SILT, some Clay, trace fine Sand, trace fine to medium subangular Gravel.	ml		Organic Vapor = 0.0ppm		YJ0006		Rec 1.2'/2.0' (2-4' bgs)
	3								Direct push refusal at 4' bgs Bottom of borehole at 4' bgs
	4								

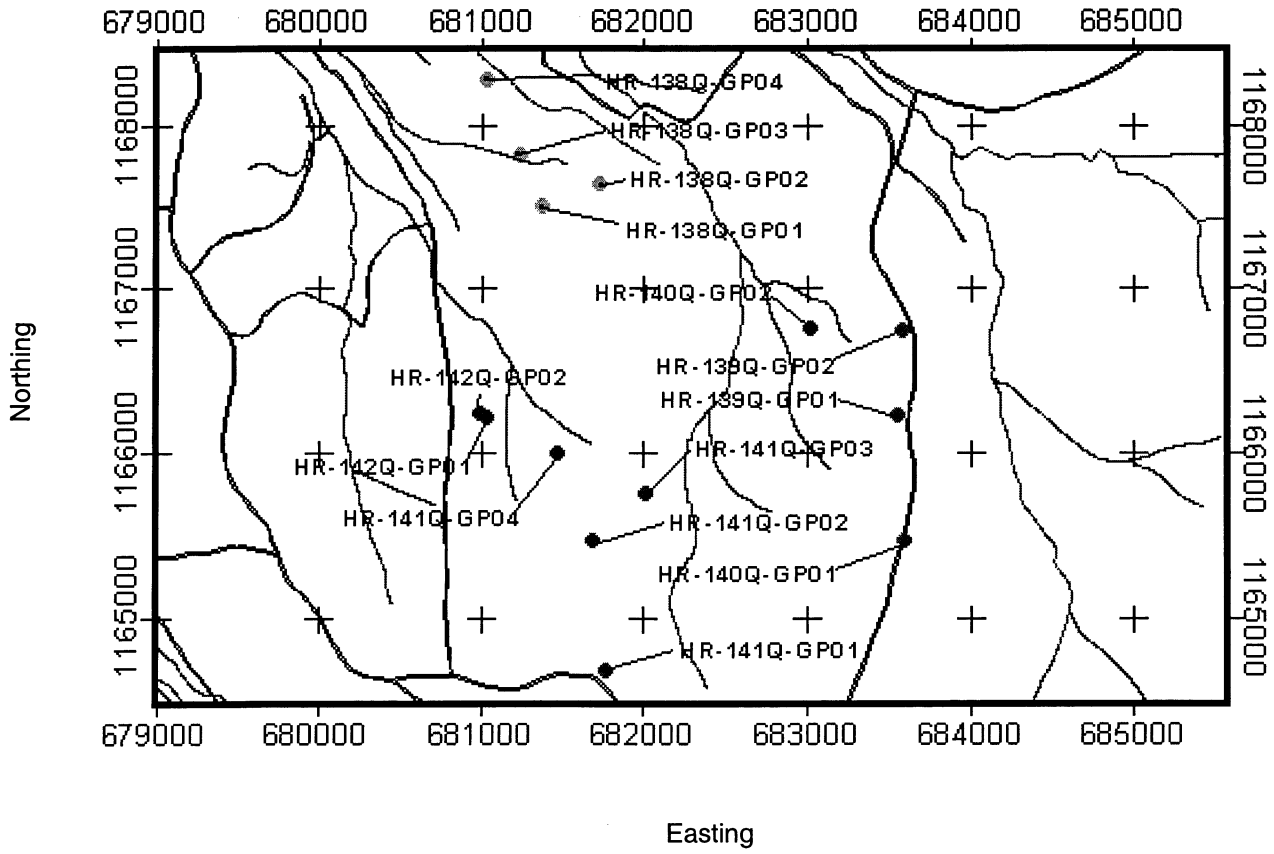
HTRW DRILLING LOG

District: **Mobile USACE**		**HOLE NUMBER** HR-141Q-GP04
1. Company name: **IT Corporation**	2. Drill Subcontractor: ESN	Sheet 1 of 2 sheets

3. Project: Fort McClellan	4. Location: **Calhoun County, Alabama**
5. Name of driller: Sammy McDaniel	6. Mfr. designation of drill: Strataprobe
7. Sizes and types of drilling and sampling equipment: Direct Push DP - 2'x2" Acetate-Lined Sampler	8. Hole location:Artillery & Mortar Impact Areas S. of Bains Gap, Parcel 141Q 9. Surface elevation (feet above mean sea level): 1204.36 10. Date started: 02/08/01 — 11. Date completed: 02/08/01
12. Overburden thickness (feet bgs): >4	15. Depth groundwater encountered (feet bgs): Not encountered
13. Depth drilled into rock (feet bgs): 0	16. Depth to water and elapsed time after drilling completed (feet bgs): NA
14. Total depth of hole (feet bgs): 4	17. Other water level measurements (specify): NA

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes: NA		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
		X	Nitroaromatics	Perchlorate		NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
	X			Nicole Badon		

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan

bgs= below ground surface
NA = Not applicable

Hole no.: HR-141Q-GP04

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: HR-141Q-GP04

Project: Fort McClellan | Geologist: Nicole Badon | Sheet 2 of 2 sheets

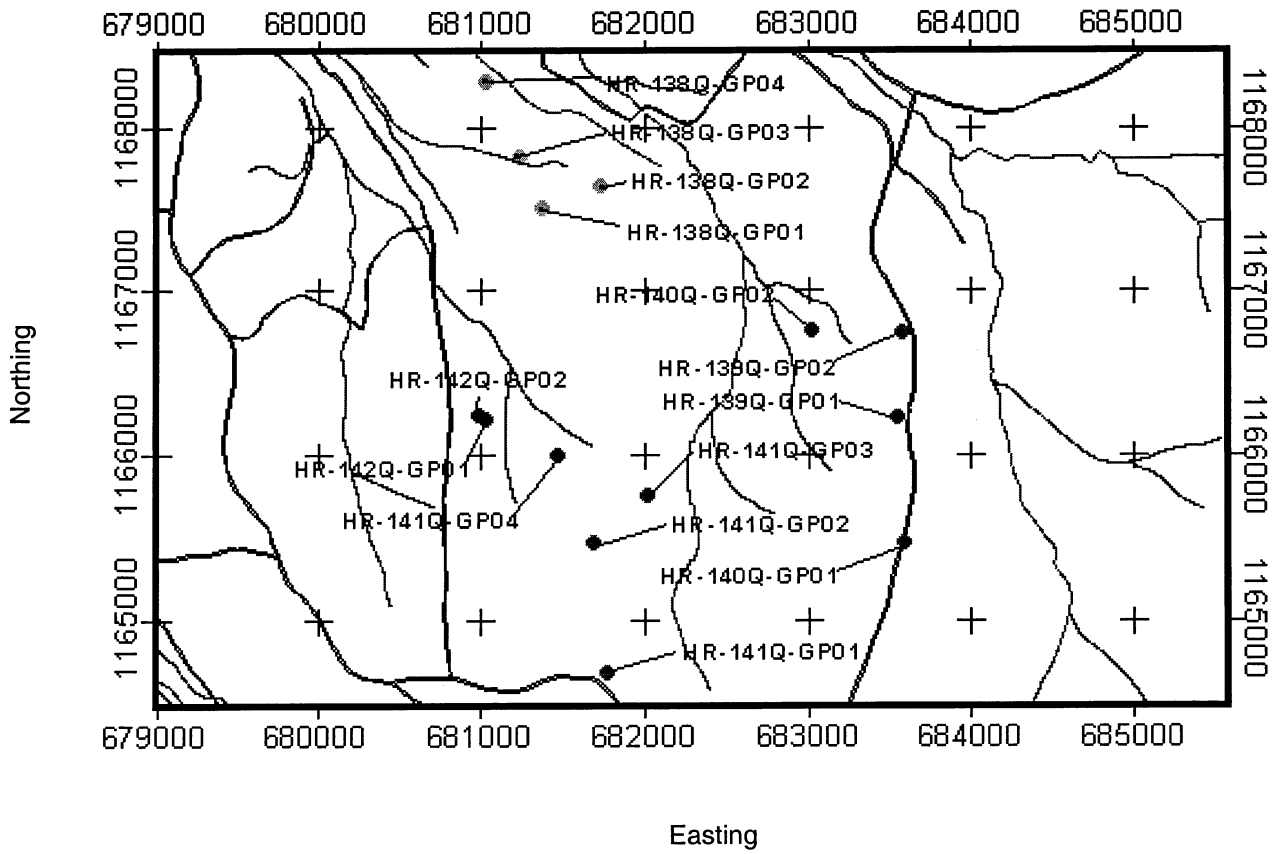
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	0	ml: Medium brown, soft, moist SILT, some fine to medium Sand, little Clay, trace coarse angular Gravel, trace organics (roots).	ml		Organic Vapor = 0.0ppm		YJ0007		Rec 1.0'/1.0' (0-1' bgs)
	1	cl: Yellowish-brown, soft, moist CLAY, some Silt, little medium to coarse Sand, little fine subangular Gravel.	cl						Rec 1.5'/1.0' (1-2' bgs)
	2	cl: Yellowish-orange, stiff, moist CLAY, some Silt, little medium Sand, trace fine subangular Gravel.	cl		Organic Vapor = 0.0ppm		YJ0008		Rec 1.4'/2.0' (2-4' bgs)
	3								Direct push refusal at 4' bgs Bottom of borehole at 4' bgs
	4								

HTRW DRILLING LOG

District: **Mobile USACE**		**HOLE NUMBER** HR-142Q-GP01
1. Company name: **IT Corporation**	2. Drill Subcontractor: ESN	Sheet 1 of 3 sheets
3. Project: Fort McClellan	4. Location: **Calhoun County, Alabama**	
5. Name of driller: Sammy McDaniel	6. Mfr. designation of drill: Strataprobe	
7. Sizes and types of drilling and sampling equipment: Direct Push DP - 2'x2" Acetate-Lined Sampler	8. Hole location:Artillery & Mortar Impact Areas S. of Bains Gap, Parcel 142Q 9. Surface elevation (feet above mean sea level): 878.28 10. Date started: 02/08/01	11. Date completed: 02/08/01
12. Overburden thickness (feet bgs): >11	15. Depth groundwater encountered (feet bgs): Not encountered	
13. Depth drilled into rock (feet bgs): 0	16. Depth to water and elapsed time after drilling completed (feet bgs): NA	
14. Total depth of hole (feet bgs): 11	17. Other water level measurements (specify): NA	

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes: NA		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
		X	Nitroaromatics	Perchlorate		NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
	X			Nicole Badon		

LOCATION SKETCH/COMMENTS:



HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: HR-142Q-GP01

Project: Fort McClellan | Geologist: Nicole Badon | Sheet 2 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	0	ml: Light brown, moist SILT, some fine to medium Sand, little coarse, angular Gravel, trace organics (roots).	ml		Organic Vapor = 0.0ppm		YL0001		Rec 1.0'/1.0' (0-1' bgs)
	1	ml: Light brown, medium stiff, moist SILT, some fine to coarse Sand, little Clay.	ml		Organic Vapor = 1.0ppm		YL0002		Rec 1.4'/3.0 (1-4' bgs)
875	3								
	4	ml: Light brown, mottled light gray, stiff, dry SILT, some fine Sand, trace Clay.	ml		Organic Vapor = 0.2ppm				Rec 2.7'/4.0' (4-8' bgs)
	5								
	6								
	7								
870	8	ml: Light gray, mottled light brown, stiff, dry SILT, some fine Sand, trace Clay.	ml		Organic Vapor = 0.1ppm				Rec 3.2'/3.0 (8-11' bgs)
	9								
	10								

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: HR-142Q-GP01

Project: Fort McClellan

Geologist: Nicole Badon

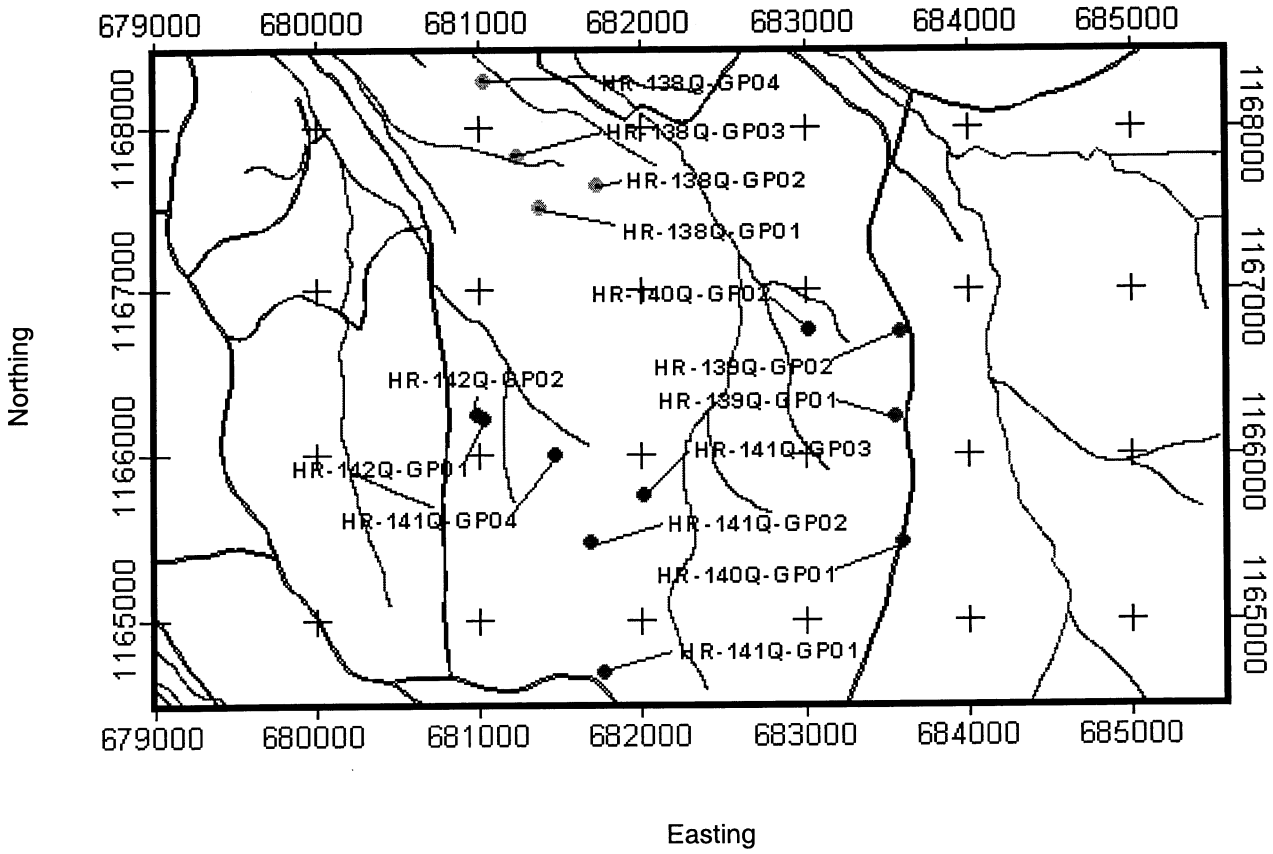
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	11								Direct push refusal at 11' bgs Bottom of borehole at 11' bgs 11

HTRW DRILLING LOG

District: **Mobile USACE**		HOLE NUMBER HR-142Q-GP02
1. Company name: **IT Corporation**	2. Drill Subcontractor: ESN	Sheet 1 of 2 sheets
3. Project: Fort McClellan	4. Location: **Calhoun County, Alabama**	
5. Name of driller: Sammy McDaniel	6. Mfr. designation of drill: Strataprobe	
7. Sizes and types of drilling and sampling equipment: Direct Push DP - 2'x2" Acetate-Lined Sampler	8. Hole location:Artillery & Mortar Impact Areas S. of Bains Gap, Parcel 142Q	
	9. Surface elevation (feet above mean sea level): 1071.37	
	10. Date started: 02/08/01	11. Date completed: 02/08/01
12. Overburden thickness (feet bgs): >10	15. Depth groundwater encountered (feet bgs): Not encountered	
13. Depth drilled into rock (feet bgs): 0	16. Depth to water and elapsed time after drilling completed (feet bgs): NA	
14. Total depth of hole (feet bgs): 10	17. Other water level measurements (specify): NA	

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes: NA		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
		X	Nitroaromatics	Perchlorate		NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist: Nicole Badon		
	X					

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan

bgs= below ground surface
NA = Not applicable

Hole no.: HR-142Q-GP02

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: HR-142Q-GP02

Project: Fort McClellan | Geologist: Nicole Badon | Sheet 2 of 2 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	0	ml: Dark brown to yellowish-orange, soft, moist, SILT, some fine to medium Sand, trace medium, subangular Gravel, trace organics (roots).	ml		Organic Vapor = 0.0ppm		YL0003		Rec 1.0'/1.0 (0-1' bgs)
1070	1	ml: Light brown, medium stiff, moist SILT, some Clay, little fine to medium Sand, trace fine, angular Gravel.	ml		Organic Vapor = 0.0ppm				Rec 1.3'/3.0 (1-4' bgs)
	2								
	3								
	4	ml: Light brown, mottled light gray, stiff, moist SILT, some fine to coarse Sand, trace Clay, trace fine angular Gravel.	ml		Organic Vapor = 0.0ppm				Rec 4.0'/4.0' (4-8' bgs)
	5								
1065	6								
	7								
	8	ml: Yellowish-orange, stiff, dry SILT, some Clay.	ml						Rec 2.7'/2.0' (8-10' bgs)
	9				Organic Vapor = 0.0ppm		YL0004		Direct push refusal at 10' bgs Bottom of borehole at 10' bgs
	10								