

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: AD-Ø1	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/22/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/22/99
DRILLING METHODS: Driven casing, Drive-and-Wash / 2"x3" split-barrel samplers			PAGE 1 OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (ft)	RECOVERY	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				SURFACE: (Fill) silt sand & gravel *				Reel: 10-15 uR/hr PID: 0.0 ppm
1	S-1	13, 14	14"	(Fill) soft, moderate brown, organic SILT, SAND and GRAVEL (Fill) Medium dense, olive to light gray medium to coarse SAND and fine to coarse, subangular GRAVEL	N/A	-	-	0845 B. Zone: FID: 0.2 ppm Reel: N/A 4' Hole: FID: 0.0 ppm Reel: N/A Sampler: N/A ★ Sample ADØ1A collected at 0845, from 0'-1' interval.
2				(Fill) undrained.				
3	S-2	29, 26	7"	(Fill) Moderate to olive gray, silty fine to coarse SAND and fine to coarse subround to angular GRAVEL.	N/A	-	-	0850 B. Zone: PID: 0.0 ppm Reel: 10-15 uR/hr 4' Hole: PID: 0.0 ppm Reel: N/A Sampler: N/A
4								
5	S-3	10, 7, 5	4"	(Fill) Loose, light brown to olive gray, silty medium to coarse SAND and fine to coarse, subround to subangular GRAVEL moist at tip of sampler				0854 B. Zone: PID: 0.0 ppm Reel: 10-15 uR/hr 6' Hole: PID: 0.0 ppm Reel: N/A Sampler: N/A
6								



NOTES:

Drilling Contractor See pg 2 Reference: Field Book: C.R., RI

Drilling Equipment _____ Hand Auger Book 2

Driller: _____ pp 72 through 77

* Due to access restrictions, ADØ1 relocated 1.0 foot to the southwest of staked location.

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: AD-Ø1	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/22/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/22/99
DRILLING METHODS: See pg. 1	PAGE 2		OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (6")	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
6								
7	S-4	5, 6, 4, 11	3"	(Fill) Loose, olive gray, silty medium to coarse SAND and fine rounded GRAVEL, some small roots, wet.	N/A	-	-	0910 B-Zone: PID: 0.0 ppm Rad: 10-15 µR/hr 8' Hole: PID: 1.2 ppm Rad: N/A Sampler: N/A
8								
9	S-5	11, 15	17"	(Fill) Firm, olive gray, silty CLAY and medium to coarse SAND and fine to coarse subangular GRAVEL, some roots and plant material, wet.	N/A	-	-	0925 ★ Sample ADØ1B collected at 0925, from 9.0 to 10.0' interval. Fill material
10								
10				Medium dense, olive brown, silty, clayey, fine to coarse SAND and fine rounded GRAVEL	GM/GC	-	-	Natural material
11	S-6	45, 72, 100/3"	20"	Very dense, olive brown, silty, clayey fine to coarse SAND and fine to coarse subangular to subround GRAVEL, saturated. (2nd attempt, with 300# hammer over a 2" sampler, yielded SILT, SAND and GRAVEL)	GM/GC	-	-	0945 Air Monitoring discontinued. ★ Sample ADØ1C collected at 0945, from 10.7' - 11.7' interval.
12				End of Exploration at 11.7 feet, due to Refusal.				

NOTES:

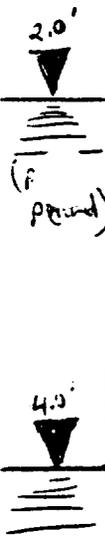
 Drilling Contractor Geologic
 Drilling Equipment Portable Tripod rig with 4" casing,
 Driller: 140# + 300# hammers

 Reference: Field Book: C.R., RI
 Hand Auger Book 2
 PP 72 through 77

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 752843	PROJECT NAME: Centredale Manor, North Providence, RI	
BORING NUMBER: AD-02	COORDINATES:	DATE:
ELEVATION:	GWL: Depth Date/Time	DATE STARTED: 7/21/99
ENGINEER/GEOLOGIST: M. Reilly	Depth Date/Time	DATE COMPLETED: 7/21/99
DRILLING METHODS: Driven casing, Drive-and-Wash / 2" + 3" split-barrel samplers		PAGE 1 OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (6")	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
0				Surface: Sand and Gravel Fill				Rad: N/A FID: N/A
0.5	S-1	14, 14, 16	20"	(Fill) Medium dense, olive gray to grayish brown, fine to coarse SAND and GRAVEL, moist. (Fill) Firm, light gray, sand silt and GRAVEL, dry.	N/A	-	-	0857 ★ B-Zone: FID: 0.0 ppm Rad: 10 uR/hr 2' Hole: FID: 0.0 ppm Rad: 10 uR/hr Sampler: FID: 0.0 ppm Rad: 10 uR/hr
2.0				(Fill) Light gray, fine to coarse SAND, dry. Coarse GRAVEL in tip of sampler. Medium dense.				* → Sample AD05A collected at 0908, from 0'-1' interval
2.5				(Fill) Medium dense, light to olive gray, silty medium to coarse SAND and fine to coarse GRAVEL (subangular), saturated.				Water may be perched
3.0	S-2	26, 26, 22, 27	16"	(Fill) Medium dense, brown, silty fine to coarse SAND, moist (gelling downward to dry) (Fill) Medium dense, light gray, silty fine to coarse SAND and subangular GRAVEL, dry.	N/A	-	-	Due to hole collapse at 4 feet, switch to drive-and-wash technique, utilizing potable water from Town Asphalt. Air monitoring: N/A
4.0								Air monitoring: N/A
5.0	S-3	23, 14, 11, 9	6"	(Fill) Medium dense, olive brown to olive gray, silty fine to coarse SAND and fine to coarse subangular GRAVEL, wet.	N/A			scub B-Zone: FID: 0.0 ppm Rad: 10 uR/hr 6' Hole: FID: 0.0 ppm Rad: 10 uR/hr Sampler: FID: 0.0 ppm Rad: 10 uR/hr
6.0								Water table at 4.0 feet is probably actual, as all soils below are wet to saturation.



NOTES:
 Drilling Contractor See pgs 2
 Drilling Equipment _____
 Driller: _____
 ★ Due to access restriction, had to relocate

Reference: Field Book: C.R., RI
 Hand Auger Book 2
 pp 66 through 71

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: AD-02	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/21/99
ENGINEER/GEOLOGIST: M. R.illy	Depth	Date/Time	DATE COMPLETED: 7/21/99
DRILLING METHODS: See pg 1	PAGE 2		OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (6")	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
6								
7	S-4	9 1, 2, 3, 4, 5, 6	6"	(Fill) Loose, olive brown to olive gray, silty fine to coarse SAND and fine to coarse subangular GRAVEL, saturated.	N/A	-	-	1135 Air Monitoring: N/A * Sample AD02B collected at 1115 from 7'-9' interval
8								8'
9	S-5	22 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	4"	Medium dense, olive brown to olive gray, silty fine to coarse SAND and fine GRAVEL, saturated.	GM	-	-	Fill material Natural material 1113 Air Monitoring: N/A
10								10'
11	S-6	3, 3, 5 60'	1"	Loose, medium to dark gray, silty, fine to coarse SAND and fine to coarse subrounded GRAVEL, with rootlets, wood fragments at 11.5'	GM	-	-	1144 Air Monitoring: N/A
				Gray, fine sandy SILT, saturated (11.3-11.5')	ML			* Sample AD02C collected at 1144 from 10.5'-11.5' interval
12				End of Exploration at 11.5, due to Refusal. First 3 blows Cote: 140# hammer/2" sampler. Final: 300# hammer/2" sampler.				

NOTES:
 Drilling Contractor: Geologic
 Drilling Equipment: Portable tripod rig with 4" casing, 140# & 300# hammers
 Driller: _____
 Reference: Field Book: C.R., RI
Hand Auger Book 2
pp 66 through 71



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: AD-03	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/20/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/20/99
DRILLING METHODS: Driven Casing, Drive-and-Wash / 2" & 3" Split-barrel Samplers			PAGE 1 OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (6")	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
				Surface: Silt, Sand & Gravel				
1	S-1	25, 10, 20, 20	14"	(Fill) Loose, brown to grayish brown SILT and fine to coarse SAND and fine to coarse, rounded GRAVEL, with debris (glass), moist to wet.	N/A	-	-	0926 (3" sampler) B-Zone: FID: 1.3 ppm Rad: 10-12 µR/hr 2' Hole: FID: 0.4 ppm Rad: 10-12 µR/hr Sampler: FID: 0 ppm Rad: 10-12 µR/hr
2		(140# hammer)		(Fill) Dense, moderate to grayish brown, silty fine to coarse SAND and fine GRAVEL, wet. 1.8'				*Sample AD-03-6 collected at 0926 from 0'-2' interval.
3	S-2	29, 50, 120, 120/3"	8"	(Fill) Very dense, brown to olive gray silty fine to coarse SAND and fine to coarse, rounded GRAVEL, wet. 3.5'	N/A	-	-	0940 (NO sample submitted) B-Zone: FID: 1.5 ppm Rad: 10-12 µR/hr 3.5' Hole: FID: 0.8 ppm Rad: 10-12 µR/hr Sampler: FID: 0.0 ppm Rad: 10-12 µR/hr Due to refusal & collapse relocate hole 2' NW of orig. hole. Switch to drive-and-wash w/ portable water from town asphalt. Resume at 4'
4		(40# hammer, 3" sampler)						
5	S-3	50, 20, 30, 28		(Fill) medium dense, light brown to grayish green SILT, fine to coarse SAND and weathered fine to coarse GRAVEL, moist to wet. 5.5'	N/A	-	-	1405 (No sample submitted) B-Zone: FID: 0.0 ppm Rad: 8-10 µR/hr Sampler: FID: 0.0 ppm Rad: 8-10 µR/hr
6		(300# hammer, 2" sampler)		(Fill) medium dense, light brown to olive gray, silty fine to coarse SAND and angular weathered GRAVEL. 6.0'				

NOTES:

Drilling Contractor Geologic Reference: See pg 2

Drilling Equipment Portable Tripod rig with 4" casing, 140# & 300# hammers

Driller: _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782593	PROJECT NAME: Centredale Manor		
BORING NUMBER: AD-03	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/20/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/20/99
DRILLING METHODS: see pg 1	PAGE 2		OF 2

DEPTH ()	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY ()	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
6				(Fill)				1415
6-7	S-4	35 59 12/10"	12"	Very dense Oliv. clay to Oliv. brown silty fine to coarse SAND and weathered angular to subangular GRAVEL, NAT. In tip of sampler: weathered rock (greenish gray schist)	N/A			B-Zone: F15: 0.5 ppm Rat: 8-12 in R/hr Sample: F10: 0.5 ppm Rat: 8-12 in R/hr AD-03-C Sample collected at 1415 from 6'-7' interval
7-8				end of Exploration at 7.0 feet, due to refusal → 300# hammer, 2" sampler				* No "B" sample collected (no actual material encountered)

NOTES:

Drilling Contractor: See pg 1

Drilling Equipment: _____

Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Book 2
pp 60 through 63

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: AD-04 AD04 MSR	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/19/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/19/99
DRILLING METHODS: Driven casing, Drive and Wash / Split-barrel Sampler.			PAGE 1 OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER 16" (140#)	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Vegetation				Red: 10-15 uR/hr FD: 6.1 ppm
0.5'				Room mass, soft, moderate brown organic CLAY, moist.	PT			
1	S-1	1, 10, 9, 8	18"	Soft, moderate brown silty CLAY, few roots, moist. Soft, dark brown silty PEAT with occasional coarse Gravel (at 1ft), moist to wet.	PT			Sample AD-04-A collected at 1140, at 1ft.
2		(140# hammer)		(Fill) Loose, moderate to yellowish brown silty SAND and fine to coarse GRAVEL, some roots, moist to wet.	N/A			Sample collected 1140
3	S-2	20, 79, 70, 57	18"	(Fill) Very dense, gray brown to yellowish brown, silty fine to coarse SAND with fine to coarse Gravel, saturated.	N/A			Sample AD-04-B collected at 1147, at transition from Fill to natural material at depth of 2'-3'
4		(140# hammer)		Very dense, medium gray, silty medium fine to coarse SAND, with fine to coarse Gravel, saturated.	GM			
5	S-3	26, 78, 63, 32	24"	Very dense, moderate brown, silty fine to coarse SAND (coarsening downward), wet.	SW			1403 Red: 10-15 uR/hr (B. zone) FD:
				Very dense, light to medium gray, fine to coarse SAND and fine to coarse GRAVEL (subrounded), wet.	GW			Background: 22 ppm B. zone: 0.8 ppm Sample: 0-2 ppm (split-down)
6		(300# hammer)		(Weathered Rock) Very hard, weathered, greenish-gray schist (boulder)	N/A			No sample submitted

NOTES:

Drilling Contractor Geo Logic
 Drilling Equipment Portable Tripod rig with 4" casing,
 Driller: 140# and 300# hammers.

Reference: See pg 2

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: AD-84	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/19/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/19/99
DRILLING METHODS: See pg 1	PAGE 2		OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (6")	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
6								
7	S-4	25, 33, 22, 24 (300# hammer)	18"	Dense, light gray SILT, ^{msc} CLAY, ^{msc} medium to coarse SAND and Fine to coarse subangular GRAVEL, wet.	GM / GC	-	-	1433 No Sample submitted.
8								
9	S-5	12, 11, 10, 19	16"	Dense, light olive gray, silty medium to coarse SAND and Fine to coarse subround to subangular GRAVEL, saturated				1445 Sample AD-84-C collected at 1445, at the 9'-10" interval. (Refusal)
10				End of Exploration at 10 feet due to refusal.				1450: Standing Water at 2 feet in borehole.

NOTES:

Drilling Contractor See pg 1
 Drilling Equipment _____
 Driller: _____

Reference: Field Book: C.R., RI
 Hand Auger Book 2
 pp 54 through 59



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Canceled Manor, North Plainfield, RT		
BORING NUMBER: AD-05	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/20/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/20/99
DRILLING METHODS: Hand Auger			PAGE OF 1

DEPTH (FT)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background readings REMARKS
				Surface: Sand. (Water level ~3' about grade)				Red: N/A FID: N/A
	S-1	-	12"	Brown, medium to coarse SAND and Fine to coarse, rounded GRAVEL, saturated.	SW	-	-	
				Grayish black to black, organic SILT, CLAY and Fine to medium SAND. Some roots and putty material, soil shell not to 1' depth.	OL PT			Sample AD05A collected at 1335, from 0'-1' interval.
				Gray, medium to coarse SAND with SILT.	SM	-	-	
				End of Exploration at 1.2 Feet, due to refusal on large Gravel/Cobbles.				

NOTES:

Drilling Contractor IT Reference: Field Book: C.R., RT

Drilling Equipment Hand Auger (3") Hand Auger Book 2

Driller: _____ page 64. (pg 65 - Blank)

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-019	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/14/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/14/99
DRILLING METHODS: Hand Auger	PAGE 1		OF 2

DEPTH (FT)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Initial Background Readings REMARKS
				Surface: Vegetation				Rad: 11 uR/hr FID: 0.0 ppm
1	CMS-019 A	-	12"	(Fill) Root mass, moderate to dark brown SILT and medium SAND, dry. 0.2' Moderate to dark brown SILT and SAND, much root mass, dry. (Fill) Yellow-brown CLAY, SILT, SAND and FINE GRAVEL, dry. 1.0'	N/A	-	-	Rad: 11 uR/hr FID: 0.0 ppm Sample collected 0904 0908 MSR
2	CMS-019 B	-	12"	(Fill) Light brown to yellow-brown SILT, SAND, Fine to Coarse GRAVEL, some roots, dry.	N/A	-	-	Rad: 11 uR/hr FID: 0.0 ppm Sample collected 0908
3	CMS-019 C	-	12"	(Fill) Same as above, decreased root mass, dry. 3.0'	N/A	-	-	Rad: 11 uR/hr FID: 0.0 ppm Sample collected 0933
4	CMS-019 D	-	6"	(Fill) Light brown to brownish gray CLAY, SILT, Fine to Coarse SAND and GRAVEL, dry to slightly moist. (Refusal at 3.5 ft. Relocate to resume augering)	N/A	-	-	Rad: 11 uR/hr FID: 0.0 ppm Sample collected 1008, at location 5 feet west of original borehole, at 3.0-3.5 feet depth. No sample collected from "E" interval (4'-5')
5	CMS-019 E	-	8"	Yellow-brown CLAY, SILT, Fine to Coarse SAND and Fine to Coarse GRAVEL, some roots, moist. 4.5'	GM/GC	-	-	Rad: 11 uR/hr FID: 0.0 ppm Sample collected 1120#

NOTES:

Drilling Contractor See page

Drilling Equipment _____

Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

pp 40 through 43



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 78283	PROJECT NAME: See pg 1		
BORING NUMBER: CMS-019	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/14/99
ENGINEER/GEOLOGIST: See pg 1	Depth	Date/Time	DATE COMPLETED: 7/14/99
DRILLING METHODS: See pg 1	PAGE 2		OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER	RECOVERY	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
0			IV					1130 Background Readings
0.5	CMS-019	-	6"	Light gray-brown SILT, CLAY, Fine SAND and GRAVEL, wet to saturated, underlain by Light brown to rust brown Coarse SAND and Fine to Coarse GRAVEL, saturated.	GM/GC	-	-	Rad: 11 uR/hr FD: 0.0 ppm
6.5				End of Exploration at ~ 6.5 Feet, due to water table.				Rad: 11 uR/hr FD: 0.0 ppm Sample collected 1133*
7								* "F" and "G" samples collected by relocating approximately 7 feet down slope, then augering into slope at 0 to 30 degrees from horizontal, to a depth of 3.5 to 4.0 feet.

NOTES:

Drilling Contractor: IT Reference: See pg 1

Drilling Equipment: Hand Auger (4", 3", 2")

Driller: _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 752593	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-021	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/14/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/15/99
DRILLING METHODS: Hand Auger	PAGE		1 OF 1

DEPTH (FT)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Silt Sand & Vegetation Root mass and moderate brown silt and fine to coarse SAND, dry	SM			Rad: 210 uR/hr FID: 0.0 ppm
1	CMS-021 A	-	12"	(Fill) Grayish brown, silty medium to coarse SAND and fine to coarse, rounded GRAVEL, dry.	N/A	-	-	Rad: 10 uR/hr FID: 0.0 ppm Sample collected 1620
2	CMS-021 B	-	12"	(Fill) same as 0.2' - 1.0' interval.	N/A	-	-	Rad: N/A FID: N/A Sample collected 1629
3	CMS-021 C	-	12"	(Fill) Brownish gray medium to coarse SAND, with fine to medium sub-angular Gravel and debris (black glass), dry.	N/A	-	-	Rad: N/A FID: N/A Sample collected 1645 End work 7/14/99
4	CMS-021 D	-	12"	Yellowish brown fine to coarse SAND and fine to coarse, rounded GRAVEL, moist.	SW/GW	-	-	Begin work 7/15/99, Hole excavated manually to 3 ft. Rad: 10 uR/hr FID: 0.0 ppm Sample collected 0921
5	CMS-021 E	-	12"	Same as above.	SW/GW	-	-	Rad: 5-10 uR/hr FID: 0.0 ppm Sample collected 1156*
5.6'	CMS-021 F	-	12"	Yellow-brown to light brown, fine to coarse SAND and fine to coarse rounded GRAVEL, moist. Dark brown, silty, clayey PEAT with rootlets, saturated.	SW PT	-	-	Rad: 5-10 uR/hr FID: 2.5 ppm Sample collected 1230

NOTES: End of Exploration at 6.0 feet, due to water table.

Drilling Contractor: IT

Drilling Equipment: Hand Auger (4", 3" 2")

Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Book 2
pp 50 through 53

* 1130: Boring location relocated 5 feet downslope (7/15/99) (45° slope), due to Refusal on gravel and cobbles.

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782593		PROJECT NAME: Centredale Manor, North Providence, RI	
BORING NUMBER: CMS-022		COORDINATES:	DATE:
ELEVATION:		GWL: Depth Date/Time	DATE STARTED: 7/14/99
ENGINEER/GEOLOGIST: M. Reilly		Depth Date/Time	DATE COMPLETED: 7/14/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

DEPTH (FT)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Vegetation + silt.				Red: 5-10 uR/hr* FID: 0.0 ppm
1	CMS-022 A	-	12"	Light brown to grayish brown, fine sand SILT with roots. 0.5'	OL			Red: 11 uR/hr FID: 0.0 ppm Sample collected 1450*
2	CMS-022 B	-	12"	Moderate to dark brown, silty fine to coarse SAND with Gravel and debris (glass, plastic), moist. 1.0'	SM			Red: 11 uR/hr FID: 0.0 ppm Sample collected 1455
3	CMS-022 C	-	12"	Moderate to reddish brown, silty medium to coarse SAND and fine to coarse rounded GRAVEL, moist. 2.0'	GM			Red: 11 uR/hr FID: 0.0 ppm Sample collected 1515
4	CMS-022 D	-	12"	Moderate brown, silty coarse SAND and GRAVEL, moist. 3.0'	GM			Red: 11 uR/hr FID: 0.0 ppm Sample collected 1530
				Light to moderate brown silty SAND and rounded fine GRAVEL, saturated. 4.0'	GM			Red: 9 uR/hr FID: 0.0 ppm Sample collected 1530
				End of Exploration at 4.0 feet, due to water table.				* Rad. meter indicated 20-25 uR/hr near surface. drain outflow near sample location. * Rebrated once, due to thick root mass near surface.

NOTES:

 Drilling Contractor IT

 Drilling Equipment Hand Auger (3", 2")

Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

pp 46 through 49

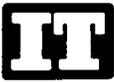
VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893		PROJECT NAME: Centredale Mans, North Providence, RI	
BORING NUMBER: CMS-025		COORDINATES:	DATE:
ELEVATION:		GWL: Depth	Date/Time
ENGINEER/GEOLOGIST: M. Reilly		Depth	Date/Time
DRILLING METHODS: Hand Auger		PAGE 1 OF 1	

DEPTH (FT)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Vegetation				Rad: N/A FID: 0.0ppm
1	CMS-025 A	-	12"	Root mass, light brown plant material, light brown medium to fine SAND, dry. 0.2'	SW			Rad: N/A FID: 0.0ppm Sample collected 1338
				light to moderate brown medium SAND, moist. 0.3'	SL			
2	CMS-025 B	-	12"	dark brown, organic CLAY, SILT and fine SAND, moist. 0.5'	OL			Rad: N/A FID: 0.0ppm Sample collected 1347
				dark brown to grey-brown, organic fine sandy SILT and CLAY, with plant fragments, moist. 1.0'	OL/PT			
				Dark brown, silty PEAT, moist to wet. 1.5'	PT			
				Olive brown, silty CLAY and PEAT, with fine to coarse SAND and fine to coarse GRAVEL, wet.				
				End of Exploration at 2.0 feet, due to water table.				



NOTES: Drilling Contractor: <u>ET</u> Drilling Equipment: <u>Hand Auger (3")</u> Driller: _____	Reference: Field Book: C.R., RI Hand Auger Book 2 pp 44 + 45
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VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: <i>Censedale Manor, North Providence, RI</i>		
BORING NUMBER: CMS-051	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/21/99
ENGINEER/GEOLOGIST: <i>M. Reilly</i>	Depth	Date/Time	DATE COMPLETED: 7/21/99
DRILLING METHODS: <i>Hand Auger</i>			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Sand and Gravel.				Red 3 uR/hr FID 0.0 ppm
1	CMS-051 A	-	12"	(fill) Light brown medium SAND and GRAVEL, Roots, dry 2.3	N/A			Red: 0.5 5 uR/hr (6" hole) FID: 0.0 ppm (6" hole)
				(fill) Moderate to dark brown sandy SILT to silty fine SAND, Gravel and Roots, moist. 1.0	N/A	-		Red: 5 uR/hr FID: 0.0 ppm Sample collected 1428
2	CMS-051 B	-	12"	Moderate brown to dark brown silty PEAT, Roots, dry to moist. 1.4	PT	-		Red: 5 uR/hr FID: 0.0 ppm Sample collected 1418
				Moderate yellow-brown sandy SILT to CLAY, occasional roots, moist 2.0	ML/CL	-		
3	CMS-051 C	-	12"	Olive gray, silty medium to coarse SAND, Fine GRAVEL, occasional roots, pockets of SILT; moist to wet.	GM	-		Red N/A FID 4 ppm Sample collected 1536
4				End of Exploration at 3.0 feet, due to water table.				* Refusal at 2.5 feet in original borehole. relocated 1 foot to the south to collect 2'-3' sample.
5								

2.25
11.4

NOTES:	Reference: Field Book: C.R., RI
Drilling Contractor: <i>IT</i>	Hand Auger Book 1
Drilling Equipment: <i>Hand Auger (3" x 2")</i>	pp 126 through 129
Driller: _____	

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 732803	PROJECT NAME: Centredale Manor, North Providence, RI	
BORING NUMBER: CMS-057	COORDINATES:	DATE:
ELEVATION:	GWL: Depth Date/Time	DATE STARTED: 7/1/99
ENGINEER/GEOLOGIST: M. Reilly	Depth Date/Time	DATE COMPLETED: 7/1/99
DRILLING METHODS: Hand Auger	PAGE 1 OF 1	

DEPTH (FT)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER	RECOVERY	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Vegetation				Read: 5 mR/hr FID: N/A*
				Topsoil and roots.	2.2' N/A			
				Light to moderate brown, silty, fine SAND with occasional Gravel and roots, dry.	0.5'			Read: 4 mR/hr (Zone)
				Light to moderate brown, silty coarse SAND and GRAVEL, roots moist.	0.7'			Read: 4 mR/hr (Borehole)
				(FILL) Dark to grayish brown, silty coarse SAND, GRAVEL and DEBRIS (Brick fragments), moist	1.0'			FID: N/A* Sample collected 1022
				(FILL) Light brown to gray brown, silty med to coarse SAND, GRAVEL and DEBRIS (slag, coal, plastic, brick, red staining), moist to wet.	2.0'			Read: N/A FID: N/A* Sample collected 1116
				Light brown to light yellow brown, silty coarse SAND and GRAVEL, saturated.	2.2'			Read: N/A FID: N/A* Sample collected 1203
				Dark brown to gray brown, sandy SILT, saturated.	3.0'			
				Dark gray-brown to dark gray, sandy SILT with roots and occasional coarse gravel, saturated, moderate to high plasticity.				Read: N/A FID: N/A* Sample collected 1216
				End of exploration at 4.0 feet; due to saturated water table				* FID not operating properly - too much precipitation.



NOTES:

Drilling Contractor: FT

Drilling Equipment: Hand Auger (4", 3", 2")

Driller: _____

Reference: Field Book: C.R., RI: Hand Auger Book 1 pp 122 to 125