

US EPA ARCHIVE DOCUMENT

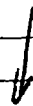
AD 01

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782593	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: AD-01	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 (6")	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				SURFACE: (Fill) silt, sand & gravel *				Reel: 10-15 m/hr. PID: 0.0 ppm
1	S-1	11, 9, 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 AD01A collected at 0845, from 0'-1' interval.
2		(30# hammer, 3" sp. sampler)		(Fill) undisturbed.				
3	S-2	29, 26, 11, 7	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 m/hr. 4' Hole: PID: 0.0 ppm Reel: N/A Sampler: N/A
4		(30# hammer, 3" sp. sampler)						
5	S-3	11, 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 m/hr. 6' Hole: PID: 0.0 ppm Reel: N/A Sampler: N/A
6		(30# hammer, 3" sp. sampler)						

NOTES:

Drilling Contractor: See pg 2
Drilling Equipment: 
Driller: 

Reference: Field Book: C.R., RI

Hand Auger Book 2

pp 72 through 77

* Due to access constraints, AD01 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 (G)	RECOVERY	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
6								
7	S-4	6, 5, 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: 0.0ppm Red: 10-15 ml/hr 8' Hole: PID: 1.2ppm Red: N/A Sampler: N/A
8								
9	S-5	14, 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, 6, 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.B., RI

Hand Auger Book 2

PP 72 through 77



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 752893		PROJECT NAME: Centredale Manor, North Providence, RI	
BORING NUMBER: AD-02		COORDINATES:	DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/2/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/2/99
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
				SURFACE: Sand and Gravel Fill				Rad: N/A FID: N/A
1	S-1	14, 14, 16 (320# hammer) (3" sampler)	20"	(Fill) Medium dense, olive gray to grayish brown, fine to coarse SAND and GRAVEL, moist. (Fill) Firm, light gray, sandy SILT and GRAVEL, dry. (Fill) Light gray, fine to coarse SAND, dry. Coarse GRAVEL in tip of sampler. Medium dense.	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				2.0'				* → Sample AD05A collected at 0908, from 0'-1' interval
3	S-2	26, 26, 22, 27 (Hammer and sampler unk.)	16"	(Fill) Medium dense, light to olive gray, silty medium to coarse SAND and fine to coarse GRAVEL (subangular), saturated. (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 sub-round GRAVEL, dry.	N/A	-	-	Water may be perched Due to hole collapse at 4 feet, switch to drive-and-wash technique, utilizing potable water from Town Asphalt. Air monitoring: N/A
4				4.0'				2046
5	S-3	23, 14, 11, 9 (140# hammer) (3" sampler)	6"	(Fill) Medium dense, olive brown to olive gray, silty fine to coarse SAND and fine to coarse subangular GRAVEL, wet.	N/A			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 Water table at 4.0 feet is probably actual, as all soils below are wet to saturation.
6								

NOTES:

Drilling Contractor: See pg 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. Reilly	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	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
6	S-4	8, 7, 9, 7	6"	(Fill) Loose, olive brown to olive gray, silty fine to coarse SAND and fine to coarse subangular GRAVEL, saturated.	N/A	-	-	115 Air Monitoring: N/A
8	S-5	22, 16, 10, 9	4"	Medium dense, olive brown to olive gray, silty fine to coarse SAND and fine GRAVEL, saturated.	GM	-	-	* Sample AD02B collected at 111.5 from 7'-9' interval. Fill material Natural material 1113 Air Monitoring: N/A
10	S-6	8, 3, 5, 60/0"	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
11				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 first blow refusal. Note: 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 / 3"x3" 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	5-1	25, 10, 20, 30	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: 1.3ppm Rad: 10-12 mL/hr 2' Hole: FID: 0.4ppm Rad: 10-12 mL/hr Sampler: FID: 0ppm Rad: 10-12 mL/hr *Sample AD-03-6 collected at 0926 from 0'-2' interval.
2		(140# hammer)		1.8' (Fill) Dense, moderate to grayish brown, silty Fine to coarse SAND and Fine GRAVEL, wet.				
3	5-2	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.	N/A	-	-	0940 (NO Sample submitted) B-Zone: FID: 1.5ppm Rad: 10-12 mL/hr 3.5' Hole: FID: 0.8ppm Rad: 10-12 mL/hr Sampler: FID: 0.0ppm Rad: 10-12 mL/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		3.5'				
5	5-3	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.	N/A	-	-	1405 (No Sample submitted) B-Zone: FID: 0.0ppm Rad: 8-10 mL/hr Sampler: FID: 0.0ppm Rad: 8-10 mL/hr
6		(300# hammer, 2" sampler)		5.5' (Fill) medium dense, light brown to olive gray, silty Fine to coarse SAND and angular weathered GRAVEL.				

NOTES:

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

Reference: See pg 2



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	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	5-4	35, 59, 120/0"	12"	Very dense, Olive gray to Olive brown Silty Fine to coarse SAND and Weathered angular to subangular GRAVEL, Wet. In tip of sampler: Weathered rock (greenish gray Schist)	N/A			B-Zone: FID: 0.0 ppm Rat: 8-12 in/hr Sample: FID: 0.5 ppm Rat: 8-12 in/hr AD-03-C Sample collected at 1415 from 6'-7' interval
7				End of Exploration at 7.0 feet, due to refusal				* No "B" sample collected (no natural material encountered)
8				→ 300# hammer, 2" sampler				
9								
10								
11								

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 ~~AD-04~~ 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 (ft)	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Vegetation				Rad: 10-15 nR/hr FID: 6.1 ppm
				Room miss, soft, moderate brown organic CLAY, moist.	PT			
				Soft, moderate brown silty CLAY, few roots, moist.	PT			
1	S-1	1, 10, 9, 8 (140# hammer)	18"	(Fill) Loose, moderate to yellowish brown silty SAND and fine to coarse GRAVEL, some roots, moist to wet.	N/A	-	-	Sample AD-04-A collected at 1140, at 1 ft.
2				(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 2'-3' depth of
3	S-2	20, 79, 70, 57 (140# hammer)	18"	Very dense, medium gray, silty medium SAND to coarse SAND, with fine to coarse GRAVEL, saturated.	GM	-	-	
4				Very dense, moderate brown, silty fine to coarse SAND (coarsening downward), wet.	ST	-	-	1403 Rad: 10-15 nR/hr (B. zone) FID: 2.2 ppm
5	S-3	26, 78, 63, 32 (300# hammer)	24"	Very dense, light to medium gray, coarse SAND and fine to coarse GRAVEL (subrounded), wet.	GW	-	-	Borehole: 2.2 ppm B. zone: 0.0 ppm Sample: 0.2 ppm (split-spun)
6				(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 IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
6								
7	S-4	25, 33, 22, 24 (300# hammer)	18"	Dense, light gray SILT, ^{med} CLAY, ^{med} 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, RI		
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 1 OF 1

DEPTH (F.)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY ()	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Sand. (Water level ~3' above grade)				Rel: 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, shell shell not to 1.2' 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
 Drilling Equipment Hand Auger (3")
 Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

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: 7/14/98
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' (Fill) Moderate to dark brown SILT and SAND, much root mass, dry.	N/A	-	-	Rad: 11 uR/hr FID: 0.0 ppm Sample collected 0924 msr
2	CMS-019 B	-	12"	(Fill) Yellow-brown CLAY, SILT, SAND and FINE GRAVEL, dry. 1.0'	N/A	-	-	Rad: 11 uR/hr FID: 0.0 ppm Sample collected 0928
3	CMS-019 C	-	12"	(Fill) Light brown to yellow-brown SILT, SAND, Fine to Coarse GRAVEL, and some roots, dry.	N/A	-	-	Rad: 11 uR/hr FID: 0.0 ppm Sample collected 0933
4	CMS-019 D	-	6"	(Fill) Same as above, decreased root mass, dry. 3.0'	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 foot depth.
5	-	-	-	(Fill) Light brown to brownish gray CLAY, SILT, Fine to Coarse SAND and GRAVEL, dry to slightly moist. (Refusal at 3.5 ft. Reluctant to resume augering) 4.5'	N/A	-	-	No Sample collected from "E" interval (4'-5')
6	CMS-019 E	-	8"	Yellow-brown CLAY, SILT, Fine to Coarse SAND and Fine to Coarse GRAVEL, some roots, moist.	GM/GC	-	-	Rad: 11 uR/hr FID: 0.0 ppm Sample collected 1120

NOTES:

Drilling Contractor: See pgs
 Drilling Equipment:
 Driller:

Reference: Field Book: C.R., RI

Hand Auger Book 2

pp 40 through 43

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782813</u>		PROJECT NAME: <u>See pg 1</u>	
BORING NUMBER: <u>CMS-019</u>		COORDINATES:	DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: <u>7/14/99</u>
ENGINEER/GEOLOGIST: <u>See pg 1</u>	Depth	Date/Time	DATE COMPLETED: <u>7/14/99</u>
DRILLING METHODS: <u>See pg 1</u>			PAGE <u>2</u> OF <u>2</u>

DEPTH (Ft.)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ↓	RECOVERY ↓	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION
6	CMS- 019 G	1	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	-	1130 Background Readings REMARKS Rad: 11 uR/hr FI: 0.0 ppm Rad: 11 uR/hr FI: 0.0 ppm Sample collected 1123*
7				End of Exploration at ~ 6.5 Feet, due to water table.			* "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

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

Driller: _____

Reference: See pg 1

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 752893	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 Rain mass and moderate brown SILT and fine to coarse SAND, dry.	SM			Rad: 20 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 0521
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.	SW	-	-	Rad: 5-10 uR/hr FID: 2.5 ppm Sample collected 1230
				Dark brown, silty, clayey PEAT with rootlets, saturated.	PT			

NOTES:

Drilling Contractor IT

Drilling Equipment Hand Auger (4", 5", 2")

Driller: _____

End of Exploration at 6.0 feet, due to

Water table.

Reference: Field Book: C.R., RI

Hand Auger Book 2

pp 50 through 53

* 1130: Boring location located 5 feet down slope (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 FOOT	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Vegetation & silt.				Rad: 5-10 uR/hr* FID: 0.0 ppm
1	CMS-022-A	-	12"	Light brown to grayish brown, fine sand silt with roots.	OL			Rad: 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.	SM			Rad: 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.	GM			Rad: 11 uR/hr FID: 0.0 ppm Sample collected 1515
4	CMS-022-D	-	12"	Moderate brown, silty coarse SAND and GRAVEL, moist.	GM			Rad: 9 uR/hr FID: 0.0 ppm Sample collected 1530
				Light to moderate brown silty SAND and rounded fine GRAVEL, saturated.	GM			Rad: 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 ground surface. Sample location. * Rechecked 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 Manor, North Providence, RI		
BORING NUMBER: CMS-025	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				Red: N/A FID: 0.0ppm
	CMS-025 A	-	12"	Best mass, light brown plant material, light brown medium to fine SAND, dry. 0.2 Light to moderate brown medium SAND, moist. 0.3 Dark brown, organic CLAY, SILT and fine SAND, moist. 0.5 Dark brown to gray-brown, organic fine sandy SILT and CLAY, with plant fragments, moist. 1.0	SW SP OL OL/PT			Red: N/A FID: 0.0ppm Sample collected 1338
	CMS-025 B	-	12"	Dark brown, silty PEAT, moist to wet. 1.5 Olive brown, silty CLAY and PEAT, with fine to coarse SAND and fine to coarse GRAVEL, wet.	PT			Red: N/A FID: 0.0ppm Sample collected 1347
				End of Exploration at 2.0 feet, due to water table.				
1								
2								
3								
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

pp 44 + 45



VISUAL CLASSIFICATION OF SOILS

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

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (ft)	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
0				Surface: Sand and Gravel.				Red 3 mR/hr FI: 0.0 ppm
1	CMS-051 A	-	12"	(Fill) Light brown medium SAND and GRAVEL, Roots, dry (Fill) Moderate to dark brown sandy SILT to silty FINE SAND, Gravel and Roots, moist.	N/A N/A	-		Red: 5 mR/hr FI: 0.0 ppm (6" hole) Red: 5 mR/hr FI: 0.0 ppm Sample collected 1428
2	CMS-051 B	-	12"	Moderate brown to dark brown silty PEAT, Roots, dry to moist. Moderate yellow-brown sandy SILT to CLAY, occasional roots, moist	PT ML/CL	-		Red: 5 mR/hr FI: 0.0 ppm Sample collected 1418
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 FI: 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								

NOTES:

Drilling Contractor: IT
Drilling Equipment: Hand Auger (3" x 2")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 1

pp 126 through 129

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782393	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 IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Vegetation				Rad: 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'			
				Light to moderate brown, silty coarse SAND and GRAVEL, roots moist.	0.7'			
1	CMS-057 A	-	12" (FILL)	Dark to grayish brown, silty coarse SAND, GRAVEL and DEBRIS (Brick fragments), moist	N/A	-		Rad: 4 mR/hr (Breathing) Rad: 4 mR/hr (Borehole) FID: N/A* Sample collected 1222
2	CMS-057 B	-	12"	(FILL) Light brown to gray brown, silty med to coarse SAND, GRAVEL and DEBRIS ~~not (brick fragments)~~ moist (slag, coal, plastic, brick, red staining), moist to wet.	N/A	-		Rad: N/A FID: N/A* Sample collected 1116
3	CMS-057 C	-	12"	Light brown to light yellow brown, silty coarse SAND and GRAVEL, saturated.	GM	-		Rad: N/A FID: N/A* Sample collected 1203
				Dark brown to gray brown, sandy SILT, saturated.	2.8'	MH		
4	CMS-057 D	-	12"	Dark gray-brown to dark gray, sandy SILT with roots and occasional round gravel, saturated, moderate to high plasticity.	MH	-		Rad: N/A FID: N/A* Sample collected 1216
5				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., R.I.

Hand Auger Book 1

pp 122 to 125



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-060	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/30/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 6/30/99
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: Grass				Rad: 9 uR/hr FID: 0.0 cpm
				Topsoil & Sod 0.2' PT				
1	CMS-060 A	1	12"	(Fill) light to moderate brown, silty fine to coarse SAND and rounded GRAVEL, roots, dry.	N/A			Rad: FID: Sample collected 0931
2	CMS-060 B	1	12"	(Fill) moderate brown, silty fine to coarse SAND, GRAVEL and cobbles, moist, asphalt.	N/A			Rad: FID: Sample collected 1000
3	CMS-060 C	1	12"	(Fill) moderate brown, silty medium to coarse SAND, GRAVEL and DEBRIS (Brick), moist.	N/A			Rad: 9 uR/hr FID: 0.0 cpm Sample collected 1025
4				End of exploration at 3 feet. NO water encountered, but boring advanced below level of adjacent river.				
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (4", 3")
Driller: _____

Reference: Field Book: C.R. RI.

Hand Auger Book 1

pp#110, + 111



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centigale Manor, North Providence, RI		
BORING NUMBER: CMS-063	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/02/97
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/02/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

DEPTH	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER	RECOVERY	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
0				Surface: Vegetation				Red: 5 mR/hr PID: 0.0 ppm
1	CMS-063 A	12'		Moderate to dark brown, organic, silty fine to medium SAND, occasional gravel, moist.	SM			Red: 6 mR/hr PID: 0.0 ppm Sample collected 0319
2	CMS-063 B	12'		Dark brown, organic sandy SILT, roots, occasional gravel.	OL			Red: 9 mR/hr PID: 0.0 ppm Sample collected 0323
				Silty, sandy PEAT, wet	PT			
				Dark brown to grayish black sandy SILT, saturated.	PT			
				Light to moderate brown, silty coarse SAND, saturated	SM			
3				End of Exploration at 2.0 feet, due to water table.				
4								
5								

NOTES:

Drilling Contractor: IT
Drilling Equipment: Hand Auger (3")
Driller:

Reference: Field Book: C.R., R.
Hand Auger Book 1
pp 130 & 131

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-069	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/30/89
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 6/30/89
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: Grass				Rad: 3 mR/hr FID: 0.0 cpm
1	CMS-069 A*	-	12"	(FILL): Moderate brown, silty Fine to coarse SAND, roots, dried paint chips, dry.	ML (F.I.)	-		Sample collected 0528*
2	CMS-069 B*	-	12"	Moderate brown, silty Fine to coarse SAND, rounded GRAVEL, dry.	GP/ SW	-		Sample collected 0538*
3				End of exploration at 2 feet due to refusal. Abandon this boring, Geoprobe rig to redrill & re-sample. No Water encountered.				* Samples CMS-069A and CMS-069B not submitted for analysis.
4				* Relocated boring 1 foot to the North of original hole due to refusal at 3' 5"				

NOTES:

Drilling Contractor: IT
Drilling Equipment: Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 1

pp 103 & 109



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centerville Manor, North Providence, RI		
BORING NUMBER: CMS-074	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/21/99
ENGINEER/GEOLOGIST: M. R. Kelly	Depth	Date/Time	DATE COMPLETED: 6/27/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				SURFACE: Grass, vegetation				Soil: 10 mR/hr FIID: 0.0 ppm
1	CMS-074 A	-	12"	(FILL) of light gray, light brown and moderate brown SAND, SILT and DEBRIS (slag, plastic, brick), dry	N/A (FILL)	-		Soil: 10 mR/hr FIID: 0.0 ppm Sample collected 1413
2	CMS-074 B	-	12"	(FILL): Moderate brown and gray brown, silty FINE SAND and DEBRIS (glass, slag, metal fragments, plastic), dry.	N/A (FILL)	-		Soil: 10 mR/hr FIID: 0.0 ppm Sample collected 1417
3	CMS-074 C	-	12"	(FILL): Gray brown, silty FINE SAND, coarse SAND and GRAVEL, some debris (slag), dry				Soil: N/A FIID: N/A Sample collected 1425
4				End of Exploration at 3.0 Feet, No water encountered, but boring extends below level of adjacent River.				
5								

NOTES:

Drilling Contractor: IT
Drilling Equipment: Hand Auger (4", 3", 2")
Driller: _____

Reference: Field Book: IT, RI
Hand Auger Book 1

P3 106 + 107



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-098	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/28/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 6/28/99
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				Rel: 3 mR/hr FIU: 0.0 ppm PID: 0.000 m
1	CMS-098 A	1	12"	Dark brown sandy SILT with lots of roots, numerous small earthworms, moist to wet, low to moderate plasticity. 0.6'	SM/CL			Rel: 3 mR/hr (Barium) FIU: 0.0 ppm PID: 0.0 ppm Sample collected 1035
2				Dark brown sandy SILT to S. HY SAND, saturated.	SM/CL			
3				End of Exploration at 1.0 foot, due to water table.				

NOTES:

Drilling Contractor IT
 Drilling Equipment Hand Auger (3")
 Driller: _____

Reference: Field Book: C.R., RI
 Hand Auger Book 1
 PP 84 & 85

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-107	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/13/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/13/99
DRILLING METHODS: Sediment Core Sampler, Hand Aiger			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
+0.25'				Surface: Plant debris				Rad: 7 mR/hr PID: 0.00cpm
1	CMS-107 A	-	12'	Black CLAY, SILT, FINE SAND and PLANT DEBRIS, saturated.	PT	-	-	Rad: 6 mR/hr PID: 0.00cpm Sample collected 0935*
2				End of Exploration at 1.0 Foot, due to Water table (~3" above grade)				
3								* First two attempts, using sediment sampler, were unsuccessful. Third attempt utilized bucket aiger

NOTES:

Drilling Contractor IT
Drilling Equipment Sed. Sampler, Hand Aiger (3")
Driller: _____

Reference: Field Book: C.R., RI

Hand Aiger Book 2

pp 28 & 29



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782315	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-109	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/29/99
ENGINEER/GEOLOGIST: m. Kelly	Depth	Date/Time	DATE COMPLETED: 6/29/99
DRILLING METHODS: Hand Auger	PAGE 1		OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (ft)	RECOVERY	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Glass				Red: 11 m/hr FI: 0.00pm
	CMS-109	-	12"	Brown, silty medium SAND, fairly moist	SP/Gm			
	A			1" Layer of tan coarse SAND, moist	SP			
				Moderate brown to light brown sandy SILT to silty SAND, rounded Gravel, wet	SM/ML			Red: 11 m/hr FI: 0.00pm Sample collected 1353
1				End of exploration at 1.0 Foot, due to water table.				
2								
3								
4								
5								

NOTES:

Drilling Contractor: IT
Drilling Equipment: Hand Auger (3")
Driller:

Reference: Field Book: C.R., RI
Hand Auger Book

pp 104 & 105

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centfedale Manor, North Providence, RI		
BORING NUMBER: CMS-117	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/29/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 6/29/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Vegetation				Rad: 14 μ R/hr FID: 0.02ppm
				Brown Sandy Silt	OL/ML			
0.75'	CMS-117	-	12"	Yellow brown to olive brown, medium to coarse SAND, moist	SW			
	A			Brownish gray to grayish brown SANDY Silt, moist	SM			Rad: 14 μ R/hr FID: 0.02ppm
				Brownish gray to grayish brown S. lty SAND, Saturated	SM			Sample collected 1333
1				End of exploration at 1.0 foot, due to water table.				
2								

NOTES:

Drilling Contractor: IT
Drilling Equipment: Hand Auger (4")
Driller:

Reference: Field Book: C.R., RI
Hand Auger Book 1
pp 102 + 103



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 792893	PROJECT NAME: Centrevale Manor, North Providence, RI		
BORING NUMBER: CMS-118	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/30/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 6/30/99
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	REMARKS
				Surface: silt, sand and gravel.				Background Readings: Rad: 11 uR/hr FID: 0.00ppm
1	CMS-118 A	-	12"	(FILL) Brown to yellowish brown, silty fine SAND, debris (Glass, concrete), moist, 0.5'	N/A	-		Rad: 11 uR/hr FID: 0.00ppm Sample collected 1623
2	CMS-118 B	-	12"	(FILL) Dark brown to gray brown, silty fine to coarse SAND and debris (slag), moist.	N/A	-		Rad: N/A FID: 0.1 Sample collected 1645
3	CMS-118 C	-	12"	(FILL) Dark brown to grayish brown, silty medium to coarse SAND and debris (slag), moist.	N/A	-		Rad: N/A FID: 1.1 Sample collected 1650
4	CMS-118 D	-	12"	(FILL) Dark brown to dark grayish brown sandy SILT and CLAY, layer of light tan to light olive gray Gravel, clay and debris (slag and wood), layer of olive brown, fine sandy SILT, moist, 4.5'	N/A	-		Rad: N/A FID: 1.1 Sample collected 1655
5	CMS-118 E	-	12"	Olive brown, silty medium SAND with occasional coarse sand/fine Gravel, layer of grayish brown, fine sandy SILT at 4.5', wet at 4.5', saturated at 5'	SM/GM	-		Rad: N/A FID: 1.1 Sample collected 1700
				End of Exploration at 5 feet, due to water table.				
				* Borehole relocated 1' to the North of original location, due to refusal.				

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (4", 3" + 2")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 1

pp 118 to 121

US EPA ARCHIVE DOCUMENT

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782593	PROJECT NAME: Centadale Manor, North Providence, RI		
BORING NUMBER: CMS-123	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/13/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/13/99
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 silt & vegetation. Brownish, Brown SILT, moist.	OL			Red: 4 mR/hr PID: 0.0 ppm
	CMS-123 A	-	12"	Gray-brown, silty medium to coarse SAND and GRAVEL, wet.	GM	-		Red: 4 mR/hr PID: 0.0 ppm Sample collected 8830
1				Undescribed.				
2				End of Exploration at ~~0.75'~~ 0.75', due to Water Table.				standing Water at ~ 8' depth.
3								
4								
5								

NOTES:

Drilling Contractor IT
 Drilling Equipment Hand Auger (4")
 Driller: _____

Reference: Field Book: C.R., RI
 Hand Auger Volume 2
 page 27.



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: Cms-131	COORDINATES:		DATE:
ELEVATION:	GWL: Depth 3.5 ft	Date/Time 6/25/99/1200	DATE STARTED: 6/25/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 6/25/99
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: to coarse				Rad: 5 mR/hr PID: 0.0 ppm
1	Cms-131 A	-	12"	(Fill) Grayish brown SILT + FINE SAND, fine gravel, roots & debris (slag, plastic, glass, coal fragments + fragments of a brittle, plastic-like material), dry.	N/A			Rad: PID: Sample collected 1150
2	Cms-131 B	-	12"	Same as above, with pockets of reddish brown silt, dry.	N/A			Rad: PID: Sample collected 1155
3	Cms-131 C	-	12"	Gray brown to dark brown silty SAND to sandy SILT, occasional roots, dry.	SP			Rad: N/A PID: Sample collected 1155
4	Cms-131 D	-	12"	Olive brown medium to coarse SAND + FINE GRAVEL, moist	SW			Rad: N/A PID: Sample collected 1234
5				End of Exploration at 4 ft, due to Water Table.				

NOTES:

Drilling Contractor: IT
Drilling Equipment: Hand Auger (3" x 2")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Book 1
pp 72+73



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centerville Manor, North Providence, RI	
BORING NUMBER: Cms-134	COORDINATES:	DATE:
ELEVATION:	GWL: Depth 1.5 ft Date/Time 6/24/99/456	DATE STARTED: 6/24/99
ENGINEER/GEOLOGIST: m. Reilly	Depth Date/Time	DATE COMPLETED: 6/24/99
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	REMARKS
				Surface: Vegetation, roots & silt				Background Readings: Red: 8 m R/hr PID: 0.0 ppm
1	Cms-134 A	-	12"	moderate brown to dark brown PEAT, some plastic, roots, layer of olive brown S&T, moist to wet. 1.0	PT	-	-	* Relocate borehole four times due to refusal. Final location 2' East of original. Red: 8 m R/hr (Borehole) PID: 0.0 ppm (Borehole) Sample collected 1004
2	-	-	-	Light to moderate brown silty fine to coarse SAND, sandy S&T and weathered gravel, wet to saturated.	Sm/ML	-	-	No sample collected
3				End of exploration, due to water table, at 2 ft.				
4								
5								

NOTES:

Drilling Contractor: IT
 Drilling Equipment: Hand Auger (5' 4")
 Driller: _____

Reference: ~~CR~~ Field Book: C.R., RI

Hand Auger Book 1
 pp 44 & 45



135

PROJECT NUMBER: 782593	PROJECT NAME: Centredale Manor, North Providence, RI	
BORING NUMBER: Cms-135	COORDINATES:	DATE:
ELEVATION:	GWL: Depth, 0 FT Date/Time 6/25/99/12:19	DATE STARTED: 6/25/99
ENGINEER/GEOLOGIST: M. Reilly	Depth Date/Time	DATE COMPLETED: 6/25/99
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	REMARKS
				Surface: Vegetation				Background Readings Rad: 4 μ R/hr (background) PID: 0.0 ppm
1	CMS- 135 A	1	12"	Brown SILT, lots of roots, moist. 0.5'	PT			
				Drain SILT, plant fragments, and Fine to medium SAND, moist. 1.0	OL/ SM			Rad: 4 μ R/hr (background) PID: 0.0 ppm Sample collected 12/19
	-	-	-	Olive gray, silty, medium to coarse SAND, saturated.	SP			
2				End of Exploration at 1.5 feet, due to water table.				
3								
4								
5								

Drilling Contractor ST
Drilling Equipment Handauger (2" + 3")
Driller: _____

Reference: Field Book: C.R., RT.
Hand Auger Book:
pg 74 + 75

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782873	PROJECT NAME: Centerville Manor, North Providence, RI	
BORING NUMBER: CMS-140	COORDINATES:	DATE:
ELEVATION:	GWL: Depth 1.25 ft Date/Time 6/24/99/0935	DATE STARTED: 6/24/99
ENGINEER/GEOLOGIST: M. Kelly	Depth	DATE COMPLETED: 6/24/99
DRILLING METHODS: Hand Auger	PAGE 1 OF 1	

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (ft)	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
				Surface: Vegetation, roots, silt.				Revised and Readings: Rel: 7 in/hr PID: 0.020m
1	CMS-140 A	-	12	Moderate to dark brown silty PEAT, moist.	PT	-	-	Rel: 7 in/hr (Borehole) PID: 0.020m (Borehole)
1.5	No sample collected	-	-	Same as above	PT	-	-	Sample collected 0933
				1.5' olive brown to gray brown sandy silt and CLAY, medium plasticity, saturated.	Cy/ML	-	-	
2				End of Exploration at 1.5 ft, due to encountering water table.				
3								
4								
5								

NOTES:

Drilling Contractor IT
 Drilling Equipment Hand Auger (3" & 4")
 Driller: _____

Reference: C.R., RI
 Hand Auger Bore 1
 PP 42-43



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI	
BORING NUMBER: CMS-141	COORDINATES:	DATE:
ELEVATION:	GWL: Depth 1.0 ft Date/Time 6/24/99/1015	DATE STARTED: 6/24/99
ENGINEER/GEOLOGIST: m. Reilly	Depth Date/Time	DATE COMPLETED: 6/24/99
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	REMARKS
				Surface: Vegetation, roots & silt.				Bearings and Readings: Rat: 5 MR/hr PIU: 0.000 in
	CMS-141	-	12"	Moderate brown PEAT and Plant Fragments, moist.	PT			
	A			0.6' Light brown to dark grayish brown, Fine sandy SILT/PEAT mix, Wet	OL/PT			Rat: 6 MR/hr (Borehole) PIU: 0.000 in (Borehole) Sample collected 10/25
1				End of Exploration at 1.0' due to water table.				
2								
3								
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Bore 1
pp 46 + 47

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782543	PROJECT NAME: Centurial Manor North Providence RI		
BORING NUMBER: CMS-142	COORDINATES:	DATE: 6/25/99	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/25/99
ENGINEER/GEOLOGIST: m. Kelly	Depth	Date/Time	DATE COMPLETED: 6/25/99
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	REMARKS
0.5'				Surface: Vegetation sand.				Background Readings Red: 2 mR/hr PID: 0.0 ppm
1	CMS-142 A	1	12"	Moderate to dark brown silty SAND, moist. 0.5'	SM			
				Dark to gray brown, silty fine SAND, saturated. 0.75'	SM			Red 2 mR/hr (borehole) PID 0.0 ppm
				Dark brown to yellowish brown, med. to coarse SAND, some silt, saturated.	SP			Sample collected 1230H
2				End of Exploration at 1.0 foot, due to water table.				
3								
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book, C.R., RI
Hand Auger, Book 1
pp 76 + 77,
82 + 83

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI
BORING NUMBER: CMS-147	COORDINATES:
ELEVATION:	GWL: Depth 3.0 ft Date/Time 6/24/99/09:15
ENGINEER/GEOLOGIST: m. Reilly	DATE STARTED: 6/24/99
DRILLING METHODS: Hand Auger	DATE COMPLETED: 6/24/99
	PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
								Background Readings Rd: 8 hr/hr PID: 0.000pm
1	CMS-147 A	-	12"	(F10) Dark brown Silty SILT to silty SAND, roots and debris (plastic & metal fragments) dry 0.5'	N/A	-	-	Rd: 8 hr/hr (6" borehole) PID: 0.000pm * Brought up plastic binghale covered and piece of steel (drum) Rd: 10 hr/hr (12" borehole) PID: 0.000pm Sample collected 0856
2	CMS-147 B	-	12"	(F11) Light brown to yellow brown medium to coarse SAND, rounded gravel, metal fragments (F12) Dark brown to gray brown SILT and fine to coarse SAND, fine gravel, debris (plastic shavings, rusted metal fragments, dark gray plastic-like material, particles of yellowish-orange and bright purple unidentified material)	N/A	-	-	Rd: 10 hr/hr (18" borehole) PID: 0.000pm Sample collected 0903
3	CMS-147 C	-	12"	(F13) Brownish gray Silty SAND debris (plastic shavings, latex(?), metal fragments, wood fragments), moist to wet	N/A	-	-	Sample collected 0915
3				End of Exploration at 3 feet.				
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3" & 4")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 1

pp 38-41

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 732873	PROJECT NAME: Cedar Lake Manor, North Providence, RI	
BORING NUMBER: CMS-148	COORDINATES:	DATE:
ELEVATION:	GWL: Depth 0.5 ft Date/Time 6/24/99/1035	DATE STARTED: 6/24/99
ENGINEER/GEOLOGIST: M. Reilly	Depth Date/Time	DATE COMPLETED: 6/24/99
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	REMARKS
				Surface: Vegetation with.				Background Readings Rad: 5 mR/hr PID: 0.000 m
0.5'	CMS-148 A	-	12"	Moderate brown PEAT, roots, wet.	PT	-		
1				Olive brown to grayish brown, silty fine to coarse SAND, saturated.	SM	-		Rad: 5 mR/hr (Borehole) PID: 13.0 ppm Sample collected 1037
2				End of Exploration at 1.0 ft, due to water table.				
3								
4								
5								

NOTES:

Drilling Contractor IT
 Drilling Equipment Hand Auger (3")
 Driller: _____

Reference: Field Book: C.R., RI
 Hand Auger Book 1
 pg 48 + 49



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 752 893	PROJECT NAME: Centerville Manor, North Providence, RI		
BORING NUMBER: CMS-149	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/25/99
ENGINEER/GEOLOGIST: Gm. Reilly	Depth	Date/Time	DATE COMPLETED: 6/25/99
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	REMARKS
0.5'				Surface: Vegetation				Background Readings Red 2 mR/hr PID 0.0 ppm
1	CMS-149 A	1	2"	(SILTY PEAT) moderate to dark brown SILT and PLANT FRAGMENTS, with some moderate to coarse sand, moist to tight. 0.6'	PT			Red: 2 mR/hr (Birchall) PID: 0.0 ppm Sample collected 1434*
				Olive brown to yellow brown, silty, coarse SAND, saturated.	SP Sm			
				End of Exploration at 1.0 foot, due to water table.				
2								
3								*CMS-149A-MS and CMS-149A-SD collected as well.
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (4")
Driller: _____

Reference: Field Book: C.R. RI
Hand Auger Book 1
pp 78 + 79

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782813	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-150	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/25/99
ENGINEER/GEOLOGIST: m. Reilly	Depth	Date/Time	DATE COMPLETED: 6/25/99
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	REMARKS
				Surface: Vegetation, sand/silt.				Background Readings Red: 2.5 mR/hr PID: 0.0 ppm
1	CMS-150 A	-	12"	Dark brown to brownish black, silty, medium SAND to sandy SILT, with roots, moist	SM			Red: 2.5 mR/hr (Background) PID: 0.0 ppm Sample collected 1447*
2	CMS-150 B	-	12"	Brownish gray to grayish black, silty fine to coarse SAND, layer of coarse sand (w/no fines), saturated	SM			Red: 2 mR/hr PID: 0.0 ppm Sample collected 1452
3				End of Exploration at 2.0 feet, due to water table.				
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (5")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Bore 1
pp 74 + 75 MSR
80 + 81



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782853	PROJECT NAME: Centerville Manor, North Providence, RI
BORING NUMBER: Cms-152	COORDINATES: DATE:
ELEVATION:	GWL: Depth 3.0 ft Date/Time 6/21/99 DATE STARTED: 6/21/99
ENGINEER/GEOLOGIST: M. Kelly	Depth Date/Time DATE COMPLETED: 6/21/99
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	REMARKS
				Surface: RipRap (Rocks)				Background readings: Rd: 13.4 uS/cm FI0: 0.0 ppm
1	Cms-152-152-1 A	N/A	3"	Vegetation to 6"				
				0.5'				
				Fill: Loose medium brown SILT and Fine to coarse SAND, moist, dark brown to brownish-black staining at tip, some (glass)	N/A	N/A	N/A	Rocky drilling FI0: 0.0 ppm Rd: N/A Sample collected 1535
2	Cms-152-152-2 B	N/A	2"	Fill: med. brown, coarse to Fine SAND and SILT, organic material (peat), glass fragments	N/A	N/A	-	FI0: 0.0 (background sample) Rd: N/A Sample collected 1612
3	Cms-152-152-3 C	N/A	5"	Fill: Brown to dark brown Fine SAND, SAND and SILT, moist to wet at 3ft, - some purple staining	N/A	N/A	-	FI0: 63 ppm (sample) 95 ppm (background)
4				End of exploration @ 3ft.				
5								
6								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand auger (3")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Book 1
pp 2-4

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centerville Manor, North Providence, RI	
BORING NUMBER: Cms-154	COORDINATES:	DATE:
ELEVATION:	GWL: Depth 2.5 Ft Date/Time 6/24/99/1320	DATE STARTED: 6/24/99
ENGINEER/GEOLOGIST: Jm. Reilly	Depth Date/Time	DATE COMPLETED: 6/24/99
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				Rad: 10 µR/hr F10: 1.2 ppm P10: 0.6 ppm
1	Cms-154 A	N/A	12"	Thin, moderate brown to red-brown SILT, Fine to medium SAND, GRAVEL & REFUSE (plastic), dry. (FILL) 0.5'	-	-	-	Rad: 10 µR/hr F10: 0.2 ppm P10: 0.5 ppm
2	Cms-154 B	N/A	12"	Moderate brown CLAY & SILT, some sand & gravel. Refuse (plastic, glass & bone) (FILL)	-	-	-	Sample collection: 1004 (Refused 3 times, final hole ~ 5" south of orig. loc.) RAD: 10 µR/hr (1-1.5) F10: 28.1 ppm P10: 0.3 ppm
3	Cms-154 C	N/A	12"	(FILL) Dark brown to black SILT Fine to coarse SAND, debris (glass, drum gasket, battery fragments, metal, wood, plastic, fragments of light gear & white rubberized latex material), moist 2.0'	-	-	-	RAD: 10 µR/hr (2') F10: 484.1 ppm (2') Sample collected 1036
3				Gray-black to black organic SILT w/ roots, moist to wet 2.5'	OH	-	-	RAD: 6 µR/hr F10: 27.6 ppm P10: 34.6 ppm
3				Gray-black to olive brown organic SILT (part), coarse SAND, wet. PT	PT	-	-	Sample collected 1323
4				End of exploration at 3 ft.				
5								

NOTES:

Drilling Contractor: IT
Drilling Equipment: Hand Auger (4" x 3")
Driller: _____

Reference: Field Book - C.R., RI
Hand Auger Book 1
pp 5-9, 14/15

Breathing Zone Readings: 4.8 ppm
7.0 ppm
(Evenwater hole @ 1045, returned to complete boring @ 1320)



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782593	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-155	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 5/22/99
ENGINEER/GEOLOGIST: M. Rilly	Depth	Date/Time	DATE COMPLETED: 6/22/99
DRILLING METHODS: Hand Auger	PAGE		OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY ()	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
				Surface: Vegetation				Background Readings Rad: 10 μ R/hr FID: 1.0 ppm
1	CMS-155-A	N/A	12"	(Fill) Light to dark brown silty SAND to sandy SILT; rounded gravel, trace debris (glass), etc.	N/A	N/A	-	RAD: 10 μ R/hr FID: 0.0 ppm Refusal @ 6", relocated 6" to SW of orig. hole. Sample collected @ 1100
2	CMS-155-B	N/A	12"	Olive brown coarse SAND, tan coarse GRAVEL, vein of yellow-green sandy SILT (FILL?)	N/A	N/A	-	RAD: 10 μ R/hr FID: 0.0 ppm pieces of metal in cuttings.
3				Refusal at 2 ft - metal object				
4				End of Exploration at 2 ft (unable to get past obstruction)				
5				See pg 2 for "C" through "E" intervals.				

NOTES:

Drilling Contractor: IT
Drilling Equipment: HAND AUGER (3" + 4")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Book)
PP 10-13, 16



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-155	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/02/99
ENGINEER/GEOLOGIST:	Depth	Date/Time	DATE COMPLETED: 7/02/99
DRILLING METHODS:			PAGE 2 OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER 12"	RECOVERY 12"	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1				See pg 1 for 0'-2' details and description				On 7/2/99 attempt, relocated Five (5) times in attempt to reach 72."
2								Background Readings (7/2/99) Rat 7 uR/hr PID 0.0 ppm
3				No Sample collected				difficult, rocky drilling. No sample collected.
4	CMS-155 D	12"		Glutinous (gelatinous) white, off-white, pinkish greenish gray, dark green and blue green unknown material with clay-like consistancy. Includes metal, plastic, fabric, saturated (possible drum contents)	N/A			Rat 6 uR/hr PID 0.0 ppm Sample collected 1001
5	CMS-155 E	12"		Moderate brown to dark brown silty PEAT, moist.	PT			Rat N/A PID ↓ Sample collected 1023
6	CMS-155 F	12"		Dark brown, organic, Sandy SILT, Roots, moderate to high plasticity. Olive gray to olive brown silty, medium to coarse SAND, saturated.	OH SM			Rat 6 uR/hr PID 19.4 ppm Sample collected 1038

NOTES: End of Exploration at 6.0 ft due to Water Table.

Drilling Contractor IT
Drilling Equipment Hand Auger (4", 3", 2")
Driller: _____

Reference: Field Book: C.B., R.T.
HAND AUGER BOOK 1
PP 132 through 135



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centerville Manor, North Providence, RI		
BORING NUMBER: CMS-156	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth 1.0 ft	Date/Time 6/24/99/1156	DATE STARTED: 6/24/99
ENGINEER/GEOLOGIST: m. Reilly	Depth	Date/Time	DATE COMPLETED: 6/24/99
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	REMARKS
				Surface: Vegetation on silt.				Background Readings: Red: 8 uR/hr PID: 0.0 ppm
1	CMS-156 A			Moderate brown PEAT, Roots. Dry (moist at 1 ft.).	PT	-	-	Red: 8 uR/hr (Borehole) PID: 0.0 ppm (Borehole) Sample collected 1156
				moderate to dark brown PEAT, wet.	PT	-	-	
2				Greenish-brown to black SILT and PEAT, layer of medium gray coarse SAND, saturated	PT/SP	-	-	No sample collected due to standing water at 1 ft.
3				End of Exploration at 2 ft, due to water table & standing water in borehole				
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Book 1
pp 50 + 51



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782593	PROJECT NAME: Centerville Manor, North Providence, RI		
BORING NUMBER: CMS-157	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/29/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 6/29/99
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	REMARKS
				Surface: Vegetation				Background Readings Rad: 6 µR/hr FID: 0.0 ppm
0.75'	CMS-157	-	12'	Moderate brown, silty SILT with roots, occasional fine gravel, moist.	OL			
	A			Grayish brown sandy SILT to silty SAND, wet.	SM			Rad: 6 µR/hr FID: 0.0 ppm
				Light brown to yellowish brown, medium to coarse SAND, saturated.	SP			Sample collected 0922
1				End of Exploration at 1.0 Foot, due to Water table.				
2								
3								
4								
5								

NOTES:

Drilling Contractor: IT
Drilling Equipment: Hand Auger (4")
Driller:

Reference: Field Book: C.R., RI

Hand Auger Book 1

pp 94 + 95



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centerville Manor, North Providence, RI		
BORING NUMBER: CMS-158	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED:
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED:
DRILLING METHODS: Hand Auger	PAGE		OF

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY ()	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
				Surface: Part, vegetation moderate brown, silty PEAT with lots of roots, dry.	PT			Background Readings RAD 6 µR/hr FID 0.0 ppm
	CMS 158 A	1	12"	mod. brown to grayish brown SILT and fine to coarse SAND, texture is olive gray F.C. Sand, moist 0.7'	SM			RAD 6 µR/hr FID 0.0 ppm Sample collected 0733
				Grayish brown, silty medium to coarse SAND, moist to wet.	SM			
			6"	Dark brown to grayish brown, silty, fine SAND grading downward to olive brown to grayish brown, Saturated	SM			RAD 6 µR/hr FID 0.0 ppm
2				End of Exploration at 1.5 Ft, due to Water table.				
3								
4								
5								
6								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book, C.R., RI
Hand Auger Book 1
pp 96 + 97

US EPA ARCHIVE DOCUMENT



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 78283	PROJECT NAME: Centerville Manor, North Providence, RI		
BORING NUMBER: CMS-159	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/29/99
ENGINEER/GEOLOGIST: M. Gilly	Depth	Date/Time	DATE COMPLETED: 6/29/99
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	REMARKS
				Surface: Peat Vegetation				Background Readings Rad: 9 mR/hr FID: 0.000 m
1	CMS-159 A	-	12'	medium brown to reddish brown, silty PEAT, roots, white plastic, moist	PT			Rad: 11 mR/hr FID: 45 ppm Sample collected at 1122
				Gray-brown to black sandy SILT, roots, saturated.	ML			
				End of exploration at 1.0 foot, due to Water table.				★ Due to destruction, moved final location 1 foot NE of original location.
2								
3								
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book C.R., RI
Hand Auger Book 1
pp 98 + 99

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: cms-160	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth 2.0 ft	Date/Time 6/23/99	DATE STARTED: 6/23/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 6/23/99
DRILLING METHODS: HAND AUGER			PAGE 1 OF

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (ft)	RECOVERY (ft)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
				Surface: Vegetation				Background Readings FIU: 1.4 ppm PIU: 0.0 ppm Rad: 5 uR/hr
1	Cms-160 A	-	(fill) 12" (F.I.)	Dark brown organic SILT with debris (rubber gaskets), moist, roots. 0.5' moderate brown, silt, sand, moist.	N/A	-	-	Rad: 3 uR/hr FIU: 0.4 ppm PIU: 0.0 ppm Sample collected 0905
2	Cms-160 B	-	4" 5"	Red brown to dark brown organic, silt, PEAT, moist	PT	-	-	Rad: 3 uR/hr FIU: 0.0 ppm PIU: 0.0 ppm Sample collected 0909
3	Cms-160 C	-	4"	Moderate brown to Olive brown sandy PEAT to Sand, CLAY, wet.	PT/CL	-	-	Rad: 5 uR/hr FIU: 4 ppm PIU: 2.30 ppm Sample collected 0921
4				End of Exploration at 3 ft.				
5								

NOTES:

Drilling Contractor IT
 Drilling Equipment Hand Auger (2" x 3")
 Driller: _____

Reference: Field Book - C.R., RI
 Hand Auger Book 1
 PP 22, 23



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 752893	PROJECT NAME: Centennial Manor, North Providence, RI	
BORING NUMBER: Cms-161	COORDINATES:	DATE:
ELEVATION:	GWL: Depth 2.0 ft Date/Time 6/23/99/1311	DATE STARTED: 6/23/99
ENGINEER/GEOLOGIST: M. Reilly	Depth Date/Time	DATE COMPLETED: 6/23/99
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: Sand Gravel some vegetation				Rel: 5 psi/hr FID: 0.0 ppm PID: 0.0 ppm
1	Cms-161 A	1	12"	(Fill) Brown, silty SAND and GRAVEL, some roots, dry	N/A	-	-	Relocated 3 times due to refusal. Rel: 5 psi/hr FID: 0.0 ppm PID: 0.0 ppm Sample collected 0936
2	Cms-161 B	-	12"	(Fill) Yellow-brown silty fine to coarse SAND + rounded GRAVEL, occasional metal debris, roots, wet.	N/A	-	-	Relocated twice Rel: 5 psi/hr FID: 0.0 ppm PID: 2.3 ppm Sample collected at 1011
3				End of Exploration at 25 ft.				
4								
5								

NOTES:

Drilling Contractor IT
 Drilling Equipment Hand Auger (3")
 Driller: _____

Reference: Field Book: C.R. RI
 Hand Auger Book 1
 pp 24-27



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centerville Manor, North Providence, RI		
BORING NUMBER: CMS-162	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth <u>N/A</u>	Date/Time	DATE STARTED: 6/22/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 6/22/99
DRILLING METHODS: Hand Auger	PAGE 1		OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY IN/ft	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
				Surface: Vegetation				Background Readings Rad: 5 μ R/hr FID: 0.0 ppm
1	CMS-162 A	-	12"	Yellowish brown, Silty SAND to sandy SILT, roots, fine Gravel, dry	Sm	-		RAD: 5 μ R/hr FID: 0.0 ppm Sample collected 1440
2	CMS-162 B	-	12"	Yellowish-brown sandy SILT, fine Gravel, dry	Sm/Gm	-		RAD: 5 μ R/hr FID: 0.0 ppm Sample collected 1447
3	CMS-162 C	-	12"	Same as above	sy/Gm	-		RAD: 5 μ R/hr FID: 0.0 ppm Sample collected 1503
4				Refusal at 3ft.				No groundwater encountered.
5				End of Exploration at 3ft due to Refusal.				
				See pg 2 for "D" interval sample details and description.				

NOTES:

Drilling Contractor IT
 Drilling Equipment Hand Auger (3" x 4")
 Driller: _____

Reference: Field Book: C.R., RI
 Hand Auger Book
 pp 20, 21

US EPA ARCHIVE DOCUMENT



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-162	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/02/99
ENGINEER/GEOLOGIST: m. Reilly	Depth	Date/Time	DATE COMPLETED: 7/02/99
DRILLING METHODS: Hand Auger			PAGE 2 OF 2

DEPTH ()	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY ()	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1				See pg 1 for 0'-3' interval details and description				★ 7/02/99 - Relocated five (5) times due to obstructions.
2								
3								7/02/99 Background Readings Rad: 8 uR/hr PMD: 0.0 ppm
3.5	CMS-162	-	12"	(FILL) Dark olive gray to black SILT, Fine to medium SAND, plant fragments and debris (metal fragments, plastic (shading and hard fragments), wood fragments), saturated.	N/A	-		Rad 8 uR/hr. PMD 0.0 ppm Sample collected 1323
4				End of Exploration at 4.0 feet, due to water table.				
5								

NOTES:

Drilling Contractor: IT
Drilling Equipment: Hand Auger (3" 2")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 1
pp 136 through 139



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-163	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/22/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 6/22/99
DRILLING METHODS: Hand Auger	PAGE		OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY ()	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1								Background Readings Rat: 6 uR/hr FIQ: 0.2 ppm
2				4 attempts yielded consistent refusal at ~ 6" below grade. Abandon location.				
3								
4								
5								

NOTES:

Drilling Contractor: IT
Drilling Equipment: Hand Auger (4")
Driller: _____

Reference: Field book: C.R. RI
Hand Auger Book 1
Page 17.

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782373	PROJECT NAME: Centerville Mans North Providence, RI		
BORING NUMBER: CMS-164	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth 1.0 ft	Date/Time 6/22/95/1425	DATE STARTED: 6/22/95
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 6/22/95
DRILLING METHODS: Hand Auger	PAGE		OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY ()	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1.0				Surface: Vegetation				Backsight Readings: RAD: 5 mR/hr FID: 0.0 ppm
1	CMS-164 A	-	12"	Brown organic material (peat), clay. Dark brown PEAT, moist to wet. standing water at 12" End of Exploration at 12" (water table)	PT	-	-	RAD: 5 mR/hr. FID: 0.0 ppm Sample collected 1425
2								
3								
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Book
pp 18 & 19



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centerville Manor, North Providence, RI		
BORING NUMBER: CMS-165	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 5/29/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 5/29/99
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	REMARKS
				Surface: Vegetation				Background Readings Red 8 mR/hr FID 0.3 ppm
	CMS-165	1	12"	Moderate brown silty PEAT with roots and plastic, moist to wet.	PT			
	A			Moderate brown sandy SILT with peat, g.b. wet.	SM			
				Dark brown to gray sandy SILT to sandy PEAT w/ layers of fine gray med. sand, ret. sand	SM			Red 8 mR/hr (bathym.) FID 0.3 ppm Sample collected 0557
1				End of Exploration at 1.0 Foot, due to water table.				
2								
3								
4								
5								

NOTES:

Drilling Contractor IT
 Drilling Equipment Hand Auger (3")
 Driller: _____

Reference: Field Book: C.R., RI
 Hand Auger Book 1
 pp 90 + 91

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centerville Manor, North Providence, RI		
BORING NUMBER: CMS-166	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/29/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 6/29/99
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	REMARKS
				Surface: Vegetation				Background Readings Red 6.5 mR/hr FID 0.00 ppm
	CMS- 166 A	-	6"	Moderate brown, silty PEAT with root, wet. Grayish black to black silt with peat, saturated.	PT OL			Red 3 mR/hr (background) FID 0.00 ppm Sample collected 0706
1				End of Exploration at 0.5 Foot, due to extremely shallow water table.				
2								
3								
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R. RI
Hand Auger Book 1
pp 92 + 93



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 732893	PROJECT NAME: Centdale Manor, North Providence, RI		
BORING NUMBER: Cms-167	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/29/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 6/29/99
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
0.5'				Surface: Vegetation				
				Brown to reddish brown, silty PEAT, lots of roots. Wet. 0.25'	PT			Rad: 8 mR/hr FNU: 0.00 ppm
	Cms- 167 A	-	12'	Gray to brown to olive gray silt with roots and debris (plastic), saturated (FILL) 0.6'	N/A (FILL)			Rad: 8 mR/hr FNU: 145 ppm Sample collected at 1143
1				Olive gray to black SILT, some roots, saturated.	ML OL			from 0-6"
				End of exploration at 1.0 Fm, due to Notes table.				
2								
3				*Sample collected from 0-6"				
4								
5								

NOTES:

Drilling Contractor ET
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: E.R., RI

Hand Auger Book 1

pg 100 + 101



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782843	PROJECT NAME: Centredale Manor North Providence, RI		
BORING NUMBER: Cms-168	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth 2.5 ft Date/Time 6/25/99	DATE STARTED: 6/25/99	
ENGINEER/GEOLOGIST: M. Kelly	Depth	Date/Time	DATE COMPLETED: 6/25/99
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, sand.				Rad: 4 uR/hr PID: 0.3 ppm PID: 0.3 ppm
1	Cms-168 A	-	12"	(Fill) Light brown, Fine to medium SAND, roots, dir. 0.5'	N/A			Rad: 4 uR/hr (borehole) PID: 0.3 ppm PID: 0.3 ppm Sample collected 0920
	Cms-168 B	-	12"	(Fill) Moderate brown, Fine to medium SAND, Roots, plastic, moist. (Fill) Same as above. 1.5' Lower 1/2 U. brown + mottled x of SAND 1.7'	N/A			Rad: 4 uR/hr (borehole) PID: 0.3 ppm PID: 0.3 ppm Sample collected 0924
2	Cms 168 C	-	12"	(Fill) Light brown to moderate brown coarse sand + debris (plast. & glass), + Fine gravel, wet. 2.5'	N/A			Rad: N/A PID: ↓ PID: Sample collected 0937
3				(Fill) Light to moderate brown coarse SAND, Fine gravel, dark brown silty sand layer + debris (ceramic fragments), saturated.				
				End of Exploration at 3 ft, due to Water Table				

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (4" + 3")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Book 1
pp 64 + 65

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-169	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth 1.5 ft	Date/Time 6/25/99	DATE STARTED: 6/25/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 6/25/99
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				Rad: 4 mR/hr FID: 0.0 ppm PID: 0.0 ppm
	CMS-169	-	12"	Moderate brown, silty PEAT, lots of roots, 0.4'	PT			
	A			Layer of brownish gray coarse SAND. 0.6'	SP	-		rad 4 mR/hr FID 0.0 ppm PID 0.0 ppm Sample collected 0849
1				Dark brown PEAT, lots of silty roots, moist. 1.0'	PT			
	-	-	6"	Brownish gray to grayish brown silty SAND to sandy SILT, some clay & roots, saturated.	SM	-		rad: 4 mR/hr FID: 0.0 ppm PID: 0.0 ppm
2				End of Exploration at 1.5 feet, due to Water Table				
3								
4								
5								

NOTES:

Drilling Contractor: IT
 Drilling Equipment: HAND AUGER (3" & 4")
 Driller: _____

Reference: Field Book: C.R., RI
 HAND AUGER Book 1
 pp 60 & 61



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-170	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth 1.5 ft	Date/Time 6/24/99/1445	DATE STARTED: 6/24/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 6/24/99
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	REMARKS
				Surface: Roots and Silt. Moderate brown PEAT, dry.				Background Readings: Red: 8 uR/hr FID: 0.0 ppm
1	CMS-170 A	1	12"	0.5' Dark brown to grayish brown, silty PEAT, moist.	PT	-	-	Red: 9 uR/hr (0.5') FID: 0.0 ppm (0.5') Sample collected 1442
1.5'	CMS-170 B	1	12"	Moderate brown, silty PEAT, roots, trace fine sand, moist to wet	PT	-	-	Red: n/a FID: ↓
2				1.5' Dark brown to gray brown, silty PEAT, wet to saturated. 1.8' Dove brown, silty medium SAND, wet to saturated	PT SM	-	-	Sample collected 1446
2				End of Exploration at 2 ft. due to water table				
3								
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (2"x3")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Book 1
pp 56+57



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782833	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: Cms-171	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth 1.5 ft	Date/Time 6/24/99/1215	DATE STARTED: 6/24/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time:	DATE COMPLETED: 6/24/99
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	REMARKS
				Surface: Vegetation				Background Readings: Rad: 7 mR/hr PID: 0.0 ppm
	Cms-171	-	12"	Med. brown, sandy SILT and roots, moist. 0.2'	OL			
	A			Light brown to moderate brown coarse SAND, SILT, and wood fragments, moist. 0.6'	Sm	-	-	
1				Dark brown, silty PEAT, moist.	PT			Rad: 7 mR/hr PID: 0.0 ppm Sample collected 1212
	-	-	-	Same as above, except with	PT	-	-	
1.5				End of Exploration at 1.5 ft. due to water table				
2								
3								
4								
5								

NOTES:

Drilling Contractor IT
 Drilling Equipment Hand Auger (3")
 Driller: _____

Reference: Field Book: C.R., RI
 Hand Auger Book 1
 pp 52



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782393	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-172	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/29/94
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 6/29/94
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	REMARKS
				Surface Vegetation				Background Readings Rel: 8 MR/hr FD: 0.0 ppm
	CMS-172	-	12"	Moderate Brown, silty, PEAT with roots, dry.	PT			
	A			Moderate to dark brown silty SAND to sandy SILT, with Peat and roots, moist to wet, saturated at t.b.	SM			Rel 8 MR/hr (borehole) FD 0.0 ppm Sample collected 0840
1				End of Exploration due to Water table				
2								
3								
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference Field Book: C.R., RI
Hand Auger Book 1
PP 88 + 89

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782593	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: Cms-173	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/28/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 6/28/99
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	REMARKS
				Surface:				Background Readings Rel: 5 mR/hr FID: 0.02 ppm
1.2-1.5'	Cms-173 A	-	12"	Dark brown, silty PEAT to peaty SILT, lots of roots, moist.	PT	-	-	Rel: 5 mR/hr (Background) FID: 0.02 ppm Sample collected 1323
	Cms-173 B	-	12"	Dark brown, Fine sandy SILT with some peat in upper 3"-4", wet, moderate to high plasticity. Saturated below 1.5'.	OL/PT	-	-	Rel: N/A FID: ↓ Sample collected 1340
2				End of Exploration at 2.0 feet, due to water table.				
3								
4								
5								

NOTES:

Drilling Contractor IT
 Drilling Equipment Hand Auger (3" & 4")
 Driller: _____

Reference: Field Book: C.R., RI

HAND AUGER BOOK 1

pp 86 & 87



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centerville Manor, North Providence, RI		
BORING NUMBER: CMS-175	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth 3.25'	Date/Time 6/25/99	DATE STARTED: 6/25/99
ENGINEER/GEOLOGIST: Mr. Kelly	Depth	Date/Time	DATE COMPLETED: 6/25/99
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 and Sand				Rad: 4 MR/hr FID: 0.0 ppm PID: 0.0 ppm
1	CMS-175 A	-	12"	(Fill) brown, moderate brown and gray brown, medium to coarse SAND, dry, layer of light tan sand and brick fragments.	N/A	1.0		Rad: N/A FID: ↓ PID: ↓ Sample collected 0959
2	CMS-175 B	-	12"	(Fill) Interlayered gray brown and red silty coarse SAND with debris (fine gravel, bottle caps, slag, metal fragments + glass), thin layers of grayish brown to bluish gray sandy SILT w/moderate plasticity.	N/A	2.0		Rad: N/A FID: ↓ PID: ↓ Sample collected 1006
3	CMS-175 C	-	12"	(Fill) moderate brown fine to coarse SAND and fine GRAVEL, metal fragments.	N/A	3.0		Rad: N/A FID: ↓ PID: ↓ Sample collected 1012
4	CMS-175 D	-	12"	moderate brown to yellow brown coarse SAND and fine GRAVEL, saturated.	SP			Rad: N/A FID: ↓ PID: ↓ Sample collected 1024
				Brownish black CLAY, fine SAND and PEAT, moderate to high plasticity, saturated.	OH/PT			
				End of Exploration at 4 ft due to Water table.				
5								

NOTES:

Drilling Contractor: IT

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

Driller:

Reference: Field Book: C.R. RI

Hand Auger Book 1

pp 68-71



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782593	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-177	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 5/25/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 6/25/99
DRILLING METHODS: Hand Auger	PAGE 1		OF 1

DEPTH ()	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY ()	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
0.5'				Surface: Vegetation point				Rad: 4 uR/hr FID: 0.0ppm PID: 0.0ppm
1	CMS 177 A	-	12"	Dark brown, silty, sandy PEAT, moist.	PT			
				0.5'				
				Olive gray, silty coarse SAND, saturated	SM			Rad: 4 uR/hr FID: 0.0ppm PID: 0.0ppm
				0.8'				
				Dark gray to grayish black medium SAND, silt + clay, saturated	SM/CL			Sample collected 0953
2				End of Exploration at 1 Ft, due to Water Table.				
3								
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference Field Book: C.R., RI
Hand Auger Book 1
pp 66 + 67

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 752893	PROJECT NAME: Centerville Manor, North Providence, RI		
BORING NUMBER: CMS-182	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/7/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/7/99
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: Sand and Gravel				Red: 11 uR/hr PID: 10 ppm
	CMS-182	-	12"	Light brown to light gray coarse SAND and GRAVEL with debris (plastic styrofoam), dry 0.25'	GW			
	A			Moderate brown, silty PEAT with roots, moist to wet.	PT	-		Red: 11 uR/hr PID: 3.7 ppm * Sample collected 0905
				Brownish gray, fine sandy SILT, wet.	ML/OL			
1				End of Exploration at 1.0 ppm, due to water table.				*PID jumped from 10 ppm to 0.0 ppm after sample was collected.
2								
3								
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R. RJ
Hand Auger Volume 2

pp 2+3



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-186	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/6/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/6/99
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 and				Rad: 8 mR/hr PID: 0.0 ppm
	CMS-186 A	-	12"	Light brown to light gray, silty fine sand with lots of roots, 0.25' Same as above with debris (wood fragments), moist, 0.5' Moderate brown, silty sand to sandy silt, moist, 0.8' Moderate to dark brown silt, PEAT, moist	SM SM/ML PT	-		Rad: 9 mR/hr (borehole) PID: 0.0 ppm (") Sample collected 0.25'
1.5'	CMS-186 B	-	12"	Moderate brown to gray brown, silty, sandy PEAT, moist to wet. 1.5' Dark gray-brown to brown-gray silty PEAT, occasional sand, with tree fragments, saturated	PT	-		Rad: 10 mR/hr (borehole) PID: 17.9 ppm (") Sample collected 0.25'
2				End of Exploration at 2.0 feet, due to water table.				* CMS-186 B sample collected from 12"-18" (above water table)
3								
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book C.R., RI.

Hand Auger Book 1

PG 140 & 141

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-187	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/6/90
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/6/90
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 Reading REMARKS
				Surface: Vegetation				Red: 9 mR/hr PID: 0.00ppm
	CMS-187 A	-	12"	Root mass, light brown SAND and SILT.	Sm			
				Light brown SILT and ROOTS, dry to moist	OL			
				Moderate dark brown SILT and PEAT, moist.	PT	-		Red: 10 mR/hr (borehole) PID: 0.00ppm (") Sample collected 0955
	CMS-187 B	-	12"	Moderate brown, silty PEAT, (light olive gray sand at 18"), charred wood fragments, moist to wet.	PT	-		Red: 10 mR/hr (borehole) PID: 0.00ppm (") Sample collected 1002*
				Gray-brown, very silty medium SAND, saturated.	SM			
2				End of Exploration at 2.0 feet, due to water table.				* Sample CMS-187B collected from 12" to 20" interval (above water table)
3								
4								
5								

NOTES:

Drilling Contractor IT
 Drilling Equipment Hand Auger (4" x 3")
 Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 1

pp 142 + 143



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-188	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/6/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/6/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Reading REMARKS
0.33'				Surface: Vegetation and SILT				
				Moderate to dark brown SILT, organic material, debris (plastic sheathing), moist.	OH			Red: 4 mR/hr PID: 0.0 ppm
	CMS-188	-	12"	Moderate brown, silty fine to coarse SAND, Saturated	SM	-		Red: 4 mR/hr (borehole) PID: 35 ppm (") Sample collected 10:5
	A			Dark brown, silty SAND, saturated.	SM			
1				End of Exploration at 1.0 feet, due to water table.				
2								
3								
4								
5								

NOTES:

Drilling Contractor IT

Drilling Equipment Hand Auger (3")

Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 1

Pp 144 & 145.



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-191	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/7/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/7/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY %	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Reading REMARKS
0.75'	CMS- 191 A	1	12"	Surface: Vegetation	PT	1	1	Rel: 8 mR/hr Pb: 0.0 ppm
				Moderate brown silty PEAT with roots, moist.				
1				Grayish brown silty PEAT, saturated.				Sample collected 0930
2				End of Exploration at 1.0 Foot, due to water table.				
3								
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (4")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Volume 2

pp 4+5



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-192	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/30/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 6/30/99
DRILLING METHODS: Hand Auger	PAGE		1 OF 3

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Vegetation Silty vegetation and roots				Rad: 6 uR/hr FID: 0.0 ppm
1	CMS-192 A	-	12"	Moderate brown silty PEAT, occasional rounded Gravel, moist to wet.	PT	-	-	Rad: 6 uR/hr FID: 0.0 ppm Sample collected at 150
2	-	-	12"	Moderate brown to dark brown Silty PEAT, saturated	PT	-	-	No sample collected
3				End of Exploration at 2.0 ft, due to water table.				
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Book 1
pp 116 + 117

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-193	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/7/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/7/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Gravel and debris (metal)				Rad: 10 mR/hr PID: 0.0 ppm
0.75'	CMS-193 A	-	12"	Moderate brown, silty PEAT and peaty SILT with debris (wood, plastic) moist to wet. (at 12": layer of black SILT with debris (plastic))	PT	-		Rad: 10 mR/hr PID: 0.0 ppm Sample collected 0830
1								
2								
3								
4								
5								
				End of Exploration at 1.0 Foot, due to water table.				

NOTES:

Drilling Contractor IT
 Drilling Equipment Hand Auger (3")
 Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Volume 2

pp 2 + 5



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-195	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/7/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/7/99
DRILLING METHODS:			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER 12"	RECOVERY 12"	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Vegetation				Rad: 11 uR/hr PID: 0.0 ppm
	CMS-195 A	-	12"	Moderate brown to gray-brown, Silty PEAT with roots 0.25'	PT			
1				Light brownish gray, Fine Sandy SILT and silty SAND with rocks increasing with depth.	SM	-		Rad: 9 uR/hr PID: 0.0 ppm Sample collected 0142
	CMS-195 B	-	12"	Same as above. 1.2'	SM			
2				Moderate to dark brown SILT with plant fragments and occasional fine sand, moist to wet. 1.7'	OL/OH	-		Rad: N/A (inst. not working) PID: N/A (" ") Sample collected 0150
				Dark brown SILT with plant fragments and layers of light grayish brown SAND, moist to wet. 1.7'	OL/OH			
2				End of Exploration at 2.0 feet, due to water table.				
3								
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Volume 2

pp 4+5



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-196	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/7/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/7/99
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
0.4'				Surface: Grass/vegetation				Recl: 7 MR/hr PID: 0.0 ppm
1	CMS-196 A	-	12"	Root mass, moderate brown to dark brown silty PEAT, moist.	PT	-	-	Recl: 8 MR/hr PID: 0.0 ppm Sample collected from 0'-0.4', at 10:05
2				Moderate brown to dark brown SILT with plant fragments, wet.	OL	-	-	
3				End of Exploration at 1.0 foot, due to Water Table.				
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (2")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Volume 2

pg 6+7



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-200	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/7/99
ENGINEER/GEOLOGIST: M. Scully	Depth	Date/Time	DATE COMPLETED: 7/7/99
DRILLING METHODS: Hand Auger	PAGE 1		OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
0.3'				Surface: Vegetation				Rad. 8 uR/hr PID: 0.0 ppm
0.5'	CMS-200 A	1	12"	Medium to dark brown SILT and plant fragments, with debris (plastic, etc.), moist to wet. Grayish brown, brown and black organic SILT, wet to saturated	OH/ PT	-	-	Rad. 8.5 uR/hr PID: 0.0 ppm Sample collected 10/3 Second jar collected due to high moisture content.
1				End of Exploration at 1.0 foot, due to water table.				* Standing Water in the borehole at 0.67'
2								
3								
4								
5								

NOTES:

Drilling Contractor: IT
 Drilling Equipment: Hand Auger (4")
 Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Volume 2.

pg 6+7



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782393	PROJECT NAME: Centerville Manor, North Providence, RI		
BORING NUMBER: CMS-202	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/7/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/7/99
DRILLING METHODS: Hand Auger	PAGE		1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
0.0				Surface: Vegetation				Rad: 10 uR/hr PID: 0.0 ppm
0.3				Moderate brown, sandy SILT with roots, moist.	SM/ OL			
0.5				Moderate brown, silty PEAT with debris (wood and twigs)	PT			Rad: 10 uR/hr PID: 0.0 ppm
1.0	CMS- 202 A	-	12"	Dark brown, silty PEAT to peaty SILT, wet.	OH/ PT	-	-	Sample collected 1029 from 0'-0.5' interval.
1.5				End of Exploration at 1.0 feet, due to water table.				
2.0								
3.0								
4.0								
5.0								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Volume 2
pg 849

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-203	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/7/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/7/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

DEPTH (1.0)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface Vegetation				Red: 8 uR/hr PID: 0.0 ppm
				Root mass/Light brown fine SAND	0.2' SW			
				Light brown medium SAND, containing down wood, occasional plant fragments and fine gravel, moist.	50			Red: 8 uR/hr PID: 0.0 ppm
				Brownish-gray SILT with debris (plastic sheeting), etc.	0.3' OL			Sample collected 1153
1	CMS- 203 A	-	12"	End of Exploration at 1.0 foot, due to Water Table.				
2								
3								
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Volume 2
pg 879.

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centdale Manor, North Providence, RI		
BORING NUMBER: CMS-204	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/7/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/7/99
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
0.67'	CMS-204	-	12"	Surface: Vegetation Moderate to dark brown PEAT with debris (wood, plastic), moist to wet. Grayish brown, silty, sandy PEAT, wet	PT	-	-	Rad: 10 uR/hr PID: N/A (Instrument malfunctioning)
1	A			End of Exploration at 1.0 Foot, due to Water Table.				Rad: 10 uR/hr PID: N/A (Instrument malfunctioning) Sample collected 1210
2								
3								
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (4")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Volume 2

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-205	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/8/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/12/99
DRILLING METHODS: Hand Auger	PAGE		OF

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER 12"	RECOVERY	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface Vegetation				Red: 11 uR/hr PID: 0.0 ppm
1	CMS-205 A	-	12"	Brown SILT with roots and debris (glass, plastic), dry 0.5'	OL/ml	-		Red: 11 uR/hr PID: 0.0 ppm Sample collected 0853
2	CMS-205 B	-	12"	Brown, silty, sandy GRAVEL and COBBLES, dry 1.0'	GM			Red: 11 uR/hr PID: 0.0 ppm Sample collected 0926 *
3	CMS-205 C	-	12"	Coarse GRAVEL and COBBLES, moist 2.0'	GP			Red: 11 uR/hr PID: 0.0 ppm Sample collected 1445, 7/12/99
4				Gray-brown to red-brown medium to coarse SAND, GRAVEL and COBBLES, moist to wet.	GW			Red: 5 uR/hr (borehole) PID: 0.0 ppm (borehole) Sample collected 1445, 7/12/99
5				End of Exploration at 3.0 feet, due to Water table.				* Reached auger refusal at 2.0 feet on 7/8/99. Resumed drilling and completed boring on 7/12/99.

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (4", 3", 2")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Volume 2

pp 12, 13 & 25

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>752893</u>	PROJECT NAME: <u>Centredale Manor, North Providence, RI</u>		
BORING NUMBER: <u>CMS-206</u>	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: <u>7/12/99</u>
ENGINEER/GEOLOGIST: <u>M. Reilly</u>	Depth	Date/Time	DATE COMPLETED: <u>7/12/99</u>
DRILLING METHODS: <u>Hand Auger</u>			PAGE <u>1</u> OF <u>1</u>

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Silt + Vegetation				
				Moderate brown PEAT, dry to moist.	PT	-		Rad: 5 uR/hr PID: 0.00ppm (FID)
1	CMS-206 A	-	12"	Grayish brown, silty PEAT with moderate moisture.	PT	-		Rad: N/A PID: N/A Sample collected 1015
2	CMS-206 B	-	12"	Light Olive brown CLAY, SILT, SAND and GRAVEL, Undetermined percentages	GM/GC	-		Rad: N/A PID: N/A Sample collected 1021
3	CMS-206 C	-	12"	Moderate brown to yellow-brown, Fine to coarse SAND, with Gravel, moist.	SW	-		Rad: 6 uR/hr PID: 0.00ppm (FID) Sample collected 1116
4	CMS-206 D	-	12"	Grayish brown, medium to coarse, silty SAND and coarse GRAVEL w/ COBBLES, moist.	GM	-		Rad: 5 uR/hr PID: 0.00ppm (FID) Sample collected 1432
				Red-brown, medium to coarse SAND and GRAVEL with cobbles, moist to wet.	SW	-		
				End of exploration at 4.0 feet, due to Water Table.				

NOTES:

Drilling Contractor: IT
 Drilling Equipment: Hand Auger (4", 3", 2")
 Driller: _____

Reference: Field Book: C.R., RI
 Hand Auger Volume 2
 pp 24 through 26



INTERNATIONAL
TECHNOLOGY
CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-208	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/8/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/8/99
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				Red PID
	CMS-208 A	12'	Light brown to gray, Fine Sandy SILT with roots, dry.	ML OL	-	-	Red PID
			0.8'				
			Brownish gray to grayish brown, silty PEAT, moist.	PT		-	Sample collected 0949
	CMS-208 B	2.5 0.5 6"	Dark to moderate brown silty PEAT with occasional sand, moist.	PT	-		Red PID:
			Grayish brown to grayish black, organic SILT with occasional PEAT, moist to wet.	OL PT			Sample collected 1012,
			End of Exploration at 1.5 feet, due to water table.				from 1.0 - 1.4' interval
1							
2							
3							
4							
5							

NOTES:

Drilling Contractor

IT

Drilling Equipment

Hand Auger (3")

Driller:

Reference: Field Book: C.R., RI

Hand Auger Volume 2

pp 14 & 15

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-209	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/8/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/8/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 3

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Grass				Rad: 7 mR/hr PID: 0.0 ppm
	CMS-209	1	12"	Medium brown, sandy SILT with rocks, moist.	OL			
	A			Gray-brown to red-brown SAND, moist.	SH			Rad: 7.5 mR/hr PID: 0.0 ppm Sample collected 0939
				Gray-brown, organic SILT with plant fragments, saturated.	OL			
1				End of Exploration at 1.0 Foot, due to Water Table.				
2								
3								
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.2., RI
Hand Auger Volume 2
pg 12 + 13



INTERNATIONAL
TECHNOLOGY
CORPORATION

210

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-210	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/12/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/12/99
DRILLING METHODS: Hand Auger.	PAGE 1		OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
1	CMS-210 A	-	12"	SURFACE: Vegetation Iron mass, moderate to red-brown SILT, moist. olive gray to olive brown, silty, clayey PEAT, moist. olive brown, silty, clayey PEAT, moist.	PT			Rel: 5 uR/hr PID: 0.0 ppm
2	CMS-210 B	-	12"	Gray-brown to olive brown, silty PEAT, wet. Olive brown CLAY/SAND/GRAVEL mix wet to saturated.	PT			Rel: 5 uR/hr (sample) PID: 0.0 ppm (") Sample collected 0935
3				End of Exploration at 2.0 feet, due to water table.				*Standing water in the borehole at 1.8'.
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Volume 2

PP 20 & 21



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782593	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-212	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/12/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/12/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Vegetation				Rad: 5 mR/hr PID: 0.0 ppm
				Root mass, red, silty fine SAND, moist	0.25' SM			
				Dark gray to brownish gray, organic CLAY (PEAT), moist to wet.	0.67' OH/PT	-	-	Rad: 5 mR/hr PID: 1.2 ppm Sample collected 1000
				Olive brown CLAY to PEAT, moist to wet.				
				Same as above.				
				End of Exploration at 1.2' due to water table.				Standing water in borehole at 1.2'
1								
2								
3								
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Volume 2
pp 225-23

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-213	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/8/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/8/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
0				Surface: Vegetation				Red: 10 uR/hr PID: 0.0 ppm
1	CMS-213 A	1	12	Root mass, multicolored brown to red-brown SILT, moist 0.25 Moderate brown, silty PEAT, with fine to medium sand, layer of light gray medium sand, moist. 0.67 Brownish gray SILT with debris (black plastic) moist. 1.0	OL PT OH			Red: 10 uR/hr PID: 0.0 ppm Sample collected 1020
2	CMS-213 B	1	12	Gray to black organic SILT with plant fragments, wet. Olive brown to olive gray, organic SILT and CLAY with roots (peat), wet to saturated.	OH PT			Red: 10 uR/hr PID: 0.0 ppm Sample collected 1025
3				End of Exploration at 2.0 Feet, due to Water table				
4								
5								

NOTES:

Drilling Contractor ITT
 Drilling Equipment Hand Auger (3" x 2")
 Driller: _____

Reference: Field Book: C.R., RI
 Hand Auger Volume 2
 PP 14 through 17

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 78253	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-214	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/12/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/12/99
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				Rel: 5 uR/hr PID: 7.4 ppm *
	CMS-214 A	-	12"	Remains, moderate brown SILT 0.2'	OH			
				Moderate brown to gray brown, silty PEAT, moist to wet.	PT	-		Rel: 5 uR/hr PID: 7.3 ppm Sample collected 07/13
	CMS-214 B	-	12"	Olive brown to brownish gray silty CLAY to clayey SILT (organic) with plant fragments, wet to saturated, moderate to high plasticity.		-		Rel: 5 uR/hr PID: N/A (Instrument malfunctioning) Sample collected 07/13
				End of Exploration at 2.0 feet, due to water table.				* ms/sd collected at 07/13 * PID appeared to be malfunctioning. • Standing water in borehole at 1.5' *** Sample CMS-214B collected from 1.0'-1.5' interval.

NOTES:

Drilling Contractor: IT
Drilling Equipment: Hand Auger (4" 3")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Volume 2

pp 18 & 19



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI	
BORING NUMBER: CMS-215	COORDINATES:	DATE:
ELEVATION:	GWL: Depth Date/Time	DATE STARTED: 6/30/99
ENGINEER/GEOLOGIST: M. Kelly	Depth Date/Time	DATE COMPLETED: 6/30/99
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				Rad: 3 μ R/hr FID: 0.002m
	CMS- 215	-	12	Dark yellow brown to olive brown, highly organic SILT with roots (Plant), Wet 0.75'	PT			
	A			Same as above 0.75'	PT			Rad: 3 μ R/hr FID: 0.002m
1				Grayish brown, sandy organic SILT, occasional pebbles, saturated	OL			Sample collected (From 0-6") at 1355
2				end of exploration at 1.0 foot, due to water table.				
3								
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Book 1
pp 112 + 113.



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI	
BORING NUMBER: CMS-237	COORDINATES:	DATE:
ELEVATION:	GWL: Depth 3.0 ft Date/Time 6/23/99/1157	DATE STARTED: 6/23/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	DATE COMPLETED: 6/23/99
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	Remarks
				Surface: silt & sand				Soil readings Soil: 5 in R/hr FID: 0.0 ppm PID: 0.0 ppm
1	CMS-237 A	-		(fill) Light to moderate brown, sandy SILT, layer of light brown coarse SAND, layer of light brown silt, root, debris (plastic, reddish brown unidentified solids), some reddish brown sand silt, dry	NA	-	-	Soil: 5 in R/hr FID: 0.0 ppm PID: 0.0 ppm Sample collected 1137
2	CMS-237 B	-		(fill) Moderate brown silt-sand mix with debris (PVC fragments, glass fragments, metal fragments, spray ply), moist. 1.5"	NA	-	-	Soil: 5 in R/hr FID: 0.0 ppm PID: 0.0 ppm Sample collected 1145
3	CMS-237 C	-		(fill) moderate to dark brown SILT and fine to coarse SAND with white to off-white plastic-like mat'ls (chunks) metal frags, glass, moist. 2.0"	SM	-	-	Soil: 5 in R/hr FID: 0.0 ppm PID: 0.0 ppm Sample collected 1157
3				Approximately 2" of olive brown, silt, medium to coarse SAND, underlain by gray-black to black organic SILT and PLANT FRAGMENTS (PEAT), moist to wet	PT	-	-	
				End of Exploration at 3 Ft.				

NOTES:

Drilling Contractor: IT
Drilling Equipment: Hand Auger (3")
Driller:

Reference: Field Book: C.R., 25
Hand Auger Book 1
pg 25-31



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Mans, North Providence, RI		
BORING NUMBER: Cms-238	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth 2.0 ft	Date/Time 6/23/99/1435	DATE STARTED: 6/23/99
ENGINEER/GEOLOGIST: m. Reilly	Depth	Date/Time	DATE COMPLETED: 6/23/99
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 Red: 5 μ R/hr FID: 0.0 ppm PID: 0.0 ppm
1	Cms-238 A	-	12"	Surface: Vegetation (fill) dark brown SILT and SAND with debris (glass, fabric, plastic, rubber gasket), moist.	HA	-		Red: 5 μ R/hr FID: 0.0 ppm PID: 0.0 ppm Sample collected 1417
2	Cms-238 B	-	12"	Soft, dark brown organic SILT (PEAT) layers of olive brown medium to coarse SAND, moist to wet.	HA	-		Relocated once due to refusal on piece of wood. Red: 5 μ R/hr FID: 0.0 ppm PID: 0.0 ppm Sample collected 1435
3				End of Exploration at 2 ft.				
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger
Driller: _____

Reference: Field Book: C.R. RI
Hand Auger Book 1
pg 32-35

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782897	PROJECT NAME: Centredale Manor, North Providence, RI
BORING NUMBER: CMS-239	COORDINATES: DATE:
ELEVATION:	GWL: Depth 2.25 ft Date/Time 6/23/99/1510 DATE STARTED: 6/23/99
ENGINEER/GEOLOGIST: M. Reilly	Depth Date/Time DATE COMPLETED: 6/23/99
DRILLING METHODS: Hand Auger	PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (ft)	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: sandy silt & gravel				Red: 5 sec/hr FID: 0.0 ppm PND: 0.0 ppm
1	CMS-239 A	-	12"	(fill) silt, light brown organic silt, PLANT FRAGMENTS + DEBRIS (plastic, wood, brick?) dry to moist Light to moderate brown, s. to med. to coarse sand no. 20	4h	-	-	Red: 5 sec/hr (Borehole) FID: 0.0 ppm PND: 0.0 ppm Sample collected 1454
2	CMS-239 B	-	12"	Moderate to dark brown silty sand. Organic with plant fragments (peat), moist. (fill) moderate brown silty SAND, debris (glass, metal, wood), moist to wet (fill) plastic sheeting.	n/A	-	-	Red: N/A FID: 0.0 ppm PND: 0.0 ppm Sample collected 1508
2.25'				Dark green to black sandy silt, layers of black sand, highly organic, wet to saturated	OL	-	-	No sample collected
2.5'				End of Exploration @ 2.5 ft.				
3								
4								
5								

NOTES:

Drilling Contractor: IT
 Drilling Equipment: Hand Auger (4" x 3")
 Driller:

Reference: Field Book CR, RI
 Hand Auger Book 1
 pp 36, 37



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-240	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth 1.25 ft Date/Time 6/25/99/0910	DATE STARTED: 6/25/99	
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 6/25/99
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, sand				Rad: 4 uR/hr FID: 0.0 ppm PID: 0.0 ppm
	CMS-240	1	12"	(Fill) Light brownish gray coarse SAND, debris (plastic), moist	N/A			
				0.5'				
				Dark brown, silty PEAT, roots, moist.	PT	-		Rad: 4 uR/hr (borehole) FID: 0.0 ppm PID: 0.0 ppm Sample collected 0905
1			6"	Dark brown, silty PEAT, layer of fine silty SAND, saturated.	PT	-		Rad: 4 uR/hr (borehole) FID: 0.0 ppm PID: 0.0 ppm NO sample collected
				End of Exploration at 1.5 feet				
2								
3								
4								
5								

NOTES:

Drilling Contractor IT
 Drilling Equipment Hand Auger (2" & 3")
 Driller: _____

Reference: Field Book C.R., RI

HAND AUGER BOOK 1

pp 62 + 63



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centerville Island, North Providence, RI	
BORING NUMBER: CMS-241	COORDINATES:	DATE:
ELEVATION:	GWL: Depth 1.5 Ft Date/Time 6/25/99/0540	DATE STARTED: 6/25/99
ENGINEER/GEOLOGIST: m. deilly	Depth Date/Time	DATE COMPLETED: 6/25/99
DRILLING METHODS: Hand Auger.	PAGE 1 OF 1	

DEPTH (ft)	SAMPLE TYPE & NO	BLOWS ON SAMPLER PER (ft)	RECOVERY	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
				Surface: vegetation				Background Readings: Rad: 4 mR/hr FIU: 0.000 m PID: 0.000 m
1	CMS-241 A	-	12"	Light brown to moderate brown SILT with roots, trace fine to medium sand. Light brown to moderate brown SILT with roots.	* see note			* unable to conclusively determine if 0-1.2' is Fill or natural soils. Rad: 4 mR/hr FIU: 0.000 m PID: 0.000 m Sample collected 0836
2	CMS-241 B	-	12"	Same as above * Dark brown, very silty PEAT, root fragments, wet.	PT			Rad: n/a FIU: ↓ PID: ↓ Sample collected 0842
3				Exploration Ended, due to water table, at 2 ft				
4								
5								

NOTES

Drilling Contractor: Int'l
Drilling Equipment: Hand Auger (3" & 4")
Driller: _____

Reference: Field Book: C.A. RE
Hand Auger Book 1
pp 58 & 59.

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 132893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: Cms-242	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth 1.5 ft	Date/Time 6/24/99/1433	DATE STARTED: 6/24/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 6/24/99
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	REMARKS
				Surface: Silt.				Background Readings Rad: 7 μ R/hr FI: 0.0 ppm
1	Cms-242 A	-	12"	Moderate brown PEAT, with a layer of silty Fine Sand, dry to moist.	PT	-	-	Rad: 7 μ R/hr FI: 0.0 ppm Sample collected 1425
2	Cms-242 B	-	12"	Dark brown PEAT, layer of red, fine silty SAND, moist to wet	PT	-	-	Rad: 7 μ R/hr (at 1.5 ft) FI: 0.0 ppm (1.5 ft) Sample collected 1435
				Dark gray to black SILT and Fine to medium SAND, saturated.	SM/ML			
				End of Exploration at 2 ft, due to water table				
3								
4								
5								

NOTES:

Drilling Contractor IT
 Drilling Equipment Hand Auger
 Driller: _____

Reference: Field Book: C.R., RI
 Hand Auger Book I
 pp 54, 55



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782873	PROJECT NAME: Centredale Manor North Providence, RI		
BORING NUMBER: CMS-413	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/30/99
ENGINEER/GEOLOGIST: M. Kelly	Depth	Date/Time	DATE COMPLETED: 6/30/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Sand.				Read: 9 mR/hr. FID: 2.0 ppm
1	CMS 413 A	-	12"	Silty coarse SAND, Glass, dry (0"-9"), moist (9"-12")	Sp Sm			Read: 7 mR/hr FID: 0.3 ppm Sample collected 1445
1.5'								
2	CMS 413 B	-	12"	Reddish brown, coarse SAND, moist to wet	Sp			Read: 9 mR/hr FID: 0.0 ppm Sample collected 1455
				Olive gray to medium gray coarse SAND, saturated, grading downward to a medium gray coarse SAND, saturated	Sp			
				End of exploration ~~due~~ ^{was} at 2.0 feet, due to water table.				
3								
5								

NOTES:

Drilling Contractor: IT
Drilling Equipment: Hand Auger (4" + 3")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Book 1
pg 114 + 115

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-434	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/13/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/13/99
DRILLING METHODS: Hand Auger	PAGE , OF ,		

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface Silt and Sand				Real: 9 mR/hr FID: 0.0 ppm
1	CMS-434 A	-	12"	Light brown, silty SAND and GRAVEL with debris (plastic sheeting, hard plastic, glass), dry. (Fill material)	N/A	-	-	Real: 9 mR/hr FID: 0.0 ppm Sample collected 1105
2	~~CMS-434 B~~	-	-	End of Exploration at ~1.0 foot, due to heavy rocks, concrete. "B" sample cancelled due to inaccessibility (concrete).	-	-	-	-
3								
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (4")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

pp 28+29



INTERNATIONAL
TECHNOLOGY
CORPORATION

435

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-435	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/13/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/13/99
DRILLING METHODS: Hand Auger	PAGE 1		OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Silt + Vegetation.				Red: 10 mR/hr PID:
	CMS-435 A	1	9"	(fill) Dark brown, Sandy, Organic Silt to Silty SAND with debris (brick fragments, plastic sheathing), moist. 0.75	N/A			Red: 12 mR/hr PID: 0.0 ppm Sample collected 1345
1				End of Exploration at 0.75 foot, refusal due to concrete.				
2				Groundwater not encountered.				
3								
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

PP 32 + 33



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centerville Manor, North Providence, RI		
BORING NUMBER: CMS-436	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/13/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/13/99
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: Dark brown silty Sand				Rad: 9 uR/hr PID: 0.0 ppm
1	CMS-436 A			(Fill) Dark brown to gray brown, silty, fine to coarse SAND with debris (plastic sheeting, glass), moist. 0.5'	N/A	-	-	Rad: 9 uR/hr PID: 0.0 ppm Sample collected 1158
2	CMS-436 B			(Fill) Dark brown medium to coarse SAND with debris (brick, plastic sheeting, glass), moist. 1.0'	N/A	-	-	
				(Fill) Gray-brown silty fine to coarse SAND to sandy SILT with debris (plastic sheeting, metal), moist. 1.5'	N/A	-	-	Rad: 9 uR/hr PID: 0.0 ppm Sample collected 1204
				(Fill) Gray-brown silty medium to coarse SAND with debris (plastic sheeting) wet.				
				End of Exploration at 2.0 Feet, due to water table.				
				(standing water at 1.3' in borehole)				
3								
4								
5								
6								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book; C.R., RI
Hand Auger Book 2

pp 30 & 31

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centerville Manor, North Providence, RI		
BORING NUMBER: CMS-437	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/13/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/13/99
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: concrete (Haphazardly poured, easily broken through)				Red: 13 uR/hr PID: 0.0 ppm
1	CMS-437 A	-	12"	(Fill) Brown SILT with debris (concrete, brick, organic matter), dry 0.5'	N/A	-	-	Red: 12 uR/hr PID: 9.8 ppm Sample collected: 1357
2	CMS-437 B	-	12"	(Fill) Light brown SILT, debris (same as above) dry. 1.0'	N/A	-	-	Red: 12 uR/hr PID: 4.5 ppm Sample collected: 1403
3	CMS-437 C	-	12"	(Fill) Moderate brown to red brown, silty fine to coarse SAND, with debris (off-white material - possibly dried latex, clear plastic sheeting) dry. 1.5'	N/A	-	-	Red: 11 uR/hr PID: 0.0 ppm Sample collected: 1413
4	CMS-437 D	-	12"	(Fill) Light brown medium to coarse SAND with debris (metal fragments, glass), dry. 2.0'	N/A	-	-	Red: 11 uR/hr PID: 0.0 ppm Sample collected: 1423
5				(Fill) Dark brown to gray-brown sandy SILT with some gravel, with debris (brick, plastic) moist.	N/A	-	-	Sample collected
6				(Fill) Dark brown, silty coarse SAND to sandy SILT, with debris (brick fragments, plastic) and roots, moist.	N/A	-	-	Sample collected
7				End of Exploration at 3.5 Feet, due to refusal.				
8				Groundwater not encountered.				

NOTES:

Drilling Contractor IT
 Drilling Equipment Hand Auger (4" 3")
 Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

pp 32 through 35



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782893</u>	PROJECT NAME: <u>Centredale Manor, North Providence, RI</u>		
BORING NUMBER: <u>CMS-440</u>	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: <u>7/13/99</u>
ENGINEER/GEOLOGIST: <u>M. Reilly</u>	Depth	Date/Time	DATE COMPLETED: <u>7/13/99</u>
DRILLING METHODS: <u>Hand Auger</u>			PAGE <u>1</u> OF <u>1</u>

DEPTH (Ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface Vegetation				Rad: 10 uR/hr FID: 0.0 ppm
0.5'	CMS-440 A	-	6"	(Fill) Olive to dark brown CLAY with 0.05% (metal) wood and roots, occasional sand matrix. Olive brown sandy SILT with angular Gravel, wet.	N/A ML/MH	-	-	Rad: 10 uR/hr FID: 0.0 ppm Sample collected 16/5
1				End of Exploration at 0.5 Feet, due to Water Table.				
2				Standing water in borehole at 0.5 feet.				
3								
4								
5								

NOTES:

 Drilling Contractor IT

 Drilling Equipment Hand Auger

Driller: _____

 Reference: Field Book: C.R., RI
Hand Auger Book 2
PP 38 + 39



INTERNATIONAL
TECHNOLOGY
CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-441	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/13/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/13/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER RECOVERY	RECOVERY	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface Vegetation				Red: 11 uR/hr FID: 0.0 ppm
1	CMS-441 A	-	12"	(Fill) Gray-brown, organic SILT with roots, coarse sand and debris (plastic sheeting, Styrofoam, glass), dry.	N/A	-	-	Red: 11 uR/hr FID: 3.5 ppm Sample collected 1447
2	CMS-441 B	-	12"	(Fill) Dark brown, organic sandy SILT with roots, fine, rounded gravel, and debris (hard plastic fragments), moist to wet.	N/A	-	-	Red: 11 uR/hr FID: 3.5 ppm Sample collected 1550
3				End of Exploration at 2.0 Feet, due to refusal.				* Relocated twice, due to refusal. Final borehole location within 1 foot of original location.
4								
5								

NOTES:

Drilling Contractor IT
 Drilling Equipment Hand Auger (3")
 Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

Pp. 34 through 37



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 732893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-460	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/23/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/23/99
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
0				Surface: Vegetation, light brown F-M SAND				Rad: 10-15 mR/hr FID: 0.0 ppm
1	CMS-460 A	1	12	Topsoil: Brown to grayish brown, silty, fine to medium SAND, some fine, rounded GRAVEL trace roots, dry 0.2'	PT			
				Yellow-brown to light brown, fine to coarse SAND and fine to coarse, rounded GRAVEL, dry 0.5'	SW			Rad: 10-15 mR/hr FID: 0.0 ppm
				Moderate to grayish brown, silty, fine to medium SAND and fine, rounded GRAVEL trace roots, dry 1.0'	GM			Sample collected 0756
2				End of Exploration at 110 feet, per Work scope.				
3				★ See Field Book for site sketch of location.				

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

pp 78 + 79

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-461	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/23/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/23/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Vegetation				Rad: 10-15 mR/hr FID: 0.0 ppm
1	CMS-461 A	-	12"	Topsoil: Moderate brown, decayed plant material (humus) with some silt and roots, dry to moist (part?) Moderate to gray-brown silt and decayed plant material (part?), with roots, moist.	PT	-	-	Rad: 10-15 mR/hr FID: 0.0 ppm Sample collected 0807
2				End of Exploration at 1.0 Foot, per Work Scope.				
3				★ See Field Book for Site sketch of location.				
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

pp 80 + 81



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 732893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-462	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/23/91
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/23/91
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: N/A Silt, roots 0.1'	PT			Rad: 10-15 nR/hr FID: 0.0ppm
1	CMS-462 A	1	12"	(Fill) moderate to clay-brown SILT, debris (rustal metal fragments, wood), moist.	N/A	-	-	Rad: N/A FID: 0.0ppm Sample collected 1050
2				End of Exploration at 1.0 foot, per work scope.				
3				★ See Field Book for site sketch of location.				

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Book 2
Pg 82 + 83



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-463	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/23/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/23/99
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: N/A				Rad: 10-15 uR/hr FID: 0.0 ppm
				Topsoil, grass, roots.	OL/GC			
1	CMS-463 A	-	12"	Moderate brown CLAY, SILT, medium to coarse SAND, medium to coarse subangular GRAVEL, roots, moist. Light brown, silty, fine to coarse SAND, subangular GRAVEL (medium), moist. Increasing GRAVEL with depth.	GM	-	-	Rad: N/A FID: 0.0 ppm Sample collected 1100
2				End of Exploration at 1.0 Foot, per work scope.				
3								
4				See Field Book for site sketch of location.				
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (4")
Driller: _____

Reference: Field Book: C.R., & I
Hand Auger Book 2
Pp 82 & 83

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782523	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-464	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/23/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/23/99
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: Grass				Rad: N/A FID: N/A
				Grass, lawn, roots	PT			
				Moderate brown, fine to medium sandy silt, trace coarse sand and gravel, moist.	OL			
				(Fill) Light brown, silty SAND fine to coarse GRAVEL, Brick fragments, moist.	N/A			Rad: 10-15 uR/hr FID: 0.0 ppm Sample collected 1130
1	CMS- 464 A	-	12"					
2				End of Exploration at 1.0 foot, per work scope.				
3								
4				★ See Field Book for site sketch of location.				
5								

NOTES:

Drilling Contractor IT
 Drilling Equipment Hand Auger (3")
 Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

pp 84 & 85



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-465	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/23/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/23/99
DRILLING METHODS: Hand Auger			PAGE (OF)

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Vegetation, silt + sand.				Red: N/A FID: N/A
1	CMS-465	1	12"	(Fin) Silty, sandy, fine to coarse GRAVEL, glass and plastic fragments, light brown, dry	N/A	-	-	Red: N/A FID: 0.00ppm Sample collected 1145
2				End of Exploration at 1.0 Foot, for the work scope.				
3								
4				See Field Book for site Sketch of location.				
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

PO 84+85



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-466	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/23/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/23/99
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: Grass				Rad: 10-15 nR/hr FID: 0.0ppm
				Grass, lawn footings. 0.1'	TL			
	CMS-466	-	12"	Light to moderate brown sandy SILT with trace rounded Gravel (lawn), dry. 2.5'	OL			
1	A			Light brown sandy SILT to silty SAND, with fine to coarse subangular Gravel, dry.	SM	-	-	Rad: 10-15 nR/hr FID: 0.0ppm Sample collected 1205
2				End of Exploration at 1.0 foot, per the Work Scope				
3								
4				★ See Field Book for site sketch of location.				
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

PP 86+87



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-467	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/23/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 7/23/99
DRILLING METHODS: Hand Auger	PAGE		1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Grass vegetation Organic material, decayed plants, dry	PT			Rad: FID:
1	CMS-467 A	-	12"	(Fin) Light brown, medium to coarse SAND, fine to coarse GRAVEL and COBBLES, dry to moist, interlayered with light to dark gray, clayey fine to medium SAND, moist.	N/A	-	-	Rad: 10-15 uR/hr FID: Sample collected 1225
2				End of Exploration at 1.0 foot, per the Work Scope.				
3								
4				See Field Book for Site Sketch of location				
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Book 2
pp 86+87



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-600	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 9/29/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 9/29/99
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 Reading REMARKS
0.4'	CMS-600	1	6"	Surface Vegetation Gray to olive brown, silty PEAT with roots, not so consolidated. Same as above, with layers of dark brown.	PT	-	-	N/A (did not working)
1				End of Exploration at 0.5 feet, per hickscope				Air monitoring (N/A)
2				★ Standing water in bishole at 0.4 feet.				Sample collected 1044
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								
61								
62								
63								
64								
65								
66								
67								
68								
69								
70								
71								
72								
73								
74								
75								
76								
77								
78								
79								
80								
81								
82								
83								
84								
85								
86								
87								
88								
89								
90								
91								
92								
93								
94								
95								
96								
97								
98								
99								
100								

NOTES:

Drilling Contractor ET
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

Pp 88+89

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 7E2893	PROJECT NAME: Centerville Manor, North Providence, RI		
BORING NUMBER: CMS-601	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 9/29/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 9/29/99
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
0.2'				Surface: Vegetation				(N/A) (PID not working)
0.5'	CMS-601	1	6"	Light brown to dark brown PEAT, with silt and clay, trace gravel, saturated.	PT	1	1	Air monitoring (N/A) Sample collected at 1054
1				End of Exploration at 0.5 foot, per the Work Scope.				
2				* Standing Water in borehole at 0.4'				
3								
4								

NOTES:

Drilling Contractor ITDrilling Equipment Hand Auger (3")

Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

PG 90+91





VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782833	PROJECT NAME: Centralab Manor, North Providence, RI		
BORING NUMBER: CMS-603	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 9/30/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 9/30/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
	CMS- 603 A	1	6"	Surface: Vegetation. Moderate brown, sandy SILT and roots, moist. Moderate to dark brown sandy SILT, moist.	SM OL			PID: 2 ppm
1				End of Exploration at 0.5 foot, per the Rock Scope.				PID: 1.9 ppm (6" Hole) 0.6 ppm (Sample) Sample collected 0335
2				Groundwater table not encountered.				

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

PP 100 + 101



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-624	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 10/1/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 10/1/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

+3.5'

DEPTH (Ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Sand & Gravel				p10: 3.3 ppm
	CMS-624 A	-	6'	Multicolored medium to coarse SAND and fine to medium rounded GRAVEL. Brownish gray to grayish brown organic SILT and CLAY with occasional sand and roots. Saturated.	SP OL/CH	-	-	p10: 3.1 ppm (B. Zone) 3.3 ppm (sample) Sample collected 1100
1				End of Exploration at 0.5 foot per the WORKSHEET.				
2				★ Water level at 3.5 feet above grade. - Sample location in center of main stream channel.				

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (4")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

pp 106+107

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-605	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 9/29/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 9/29/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (ft)	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Vegetation				N/A (PID not working)
0.63'	CMS-605 A	-	12"	Light to moderate brown, silty, sandy PEAT with layers of light olive gray, silty medium SAND, and debris (plant), moist. 2.3'	PT	-	-	Air monitoring: (N/A)
				Moderate brown, silty PEAT with fine sand, moist. 0.6'	OL	-	-	Sample collected 1150
1.5'	CMS-605 B	-	12"	Moderate to dark brown organic SILT, trace carbonized wood and roots, wet. 1.0'	OL	-	-	
				Olive brown organic SILT, trace very fine to fine sand, wet. 1.5'	OL	-	-	
2.0'	CMS-605 C	-	12"	Olive brown to brownish gray, sandy SILT to silty SAND, wood fragments and roots, saturated. 2.0'	SM	-	-	Sample collected 1205
				Olive brown to brown, silty, medium to coarse SAND, saturated. 3.0'	SM	-	-	
3.0'	CMS-605 D	-	12"	Grayish brown to brownish gray SILT and fine to coarse SAND, with occasional gravel and layers of gray silt, saturated. 3.5'	SM	-	-	Sample collected 1212
				Same as above, with layers of light brown, fine to coarse SAND, saturated. 1.0'	SM	-	-	
4.0'	CMS-605 E	-	8"	Same as above except fine to coarse GRAVEL at 56"	SM	-	-	Sample collected 1220
				End of Exploration at 4.5 feet due to Refusal on Gravel.				

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (4" x 3")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

PP 90 through 93

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-606	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 9/29/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 9/29/99
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
0.3'				Surface: Vegetation				Rad: N/A PID: 0.0 ppm
	CMS-606 A	-	8"	Moderate brown to dark brown, silty PEAT, with wood fragments and plastic sheeting fragments, moist to wet.	PT	-	-	FID: 0.0 ppm Sample at 1004
1				End of Exploration at 0.5 foot, per Workscope.				
2								
3								
4								

NOTES:

Drilling Contractor IT

Drilling Equipment Hand Auger (4")

Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

PP 88 & 89



INTERNATIONAL
TECHNOLOGY
CORPORATION

607

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-607	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 9/29/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 9/29/99
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	REMARKS
~0.3'	CMS-607 A	-	6"	Surface: Vegetation Indicates to olive brown, silty PEAT, w/occasional lt. gray-white silt/clay (unk.), red staining, etc. Also olive brown, silty PEAT with layers of dark gray to black, saturated.	PT PT	-	-	Background Readings N/A (PID not working) Air monitoring (N/A) Sample collected 1025
1				End of Exploration at 0.5 foot, per Workscope				
2								
3								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Book 2
PE 88+89



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-603	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 9/29/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 9/29/99
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 Reading REMARKS
0.3				Surface: Vegetation				N/A
0.5	CMS-603 A	-	5"	Moderate brown to medium gray, silty PEAT with wood fragments and fragments of freshwater bivalve shell (unknown type)	PT	-	-	Air monitoring: N/A Sample collected 1525
1				End of Exploration at 0.5 foot, per the Workscope				
2				* Water level is 4" above grade.				
3								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

pp 96 + 97

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-609	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 9/29/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 9/29/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Vegetation				N/A
	CMS-609 A	1	6"	plant fragments and roots.	ST			Air monitoring: N/A
				Grayish brown SILT, SAND and GRAVEL, dry.	SM			Sample collected 1535
				Light gray fine to coarse SAND and fine to medium angular GRAVEL, moist	GP			
1				End of Exploration at 0.5 foot, per the work scope.				
2								
3								

NOTES:

Drilling Contractor: IT

Drilling Equipment: Hand Auger (3")

Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

pp 96+97



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence RI		
BORING NUMBER: CMS-610	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 10/1/90
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 10/1/90
DRILLING METHODS: Hand Auger	PAGE 1		OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
0				Surface: Vegetation				PID: 0.0ppm
0.5	CMS-610 A			Olive gray to grayish black organic SILT and CLAY (muck), saturated. (Swamp soil)	PT	-	-	PID: 0.0ppm (B.Zone) 0.0ppm (Sample) Sample collection 1457
1				End of Exploration at 0.5 foot, per the Work scope.				
2								
3				* Water level at 1.3 feet above grade.				

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Book 2
pp 110 + 111



INTERNATIONAL
TECHNOLOGY
CORPORATION

611

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782873	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS - E11	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 9/30/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 9/30/99
DRILLING METHODS: Hand Auger	PAGE 1		OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
+0.1'				Surface: Vegetation				PID: 0.0 gpm
0.1'	CMS-E11 A	-	6"	Dark brown silty PEAT, traces of reddish brown staining, fragments of wood, roots, saturated	PT	-	-	PID: 0.0 gpm (bottle) : 0.0 gpm (sample) Sample collected 0540
1				End of Exploration at 0.5 Foot, per work scope.				
2				* Groundwater table at 0.1' (4") above grade.				
3								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: CR, RI

Hand Auger Book 2

pp 100 + 101



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-E12	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 9/30/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 9/30/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

+0.5'

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
	CMS-E12 A	-	6"	Surface: Vegetation Moderate brown silty PEAT with roots, wet to saturated.	PT	-	-	Background sample PID: 0.00pm
1				End of exploration at 0.5 foot, per the Workscope				
2				* Water level at 0.5 foot (6") above grade.				PID: 0.00pm (Sample) Sample collected 0903
3								
4								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book; C.R., RI

Hand Auger Book 2

pp 102 & 103

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 722893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS- 613	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 9/30/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 9/30/99
DRILLING METHODS: Hand Auger			PAGE OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Reading REMARKS
0.3'				Surface: Vegetation				PID: 0.0 ppm
1	CMS- 613 A	1	6"	Dark brown silty PEAT, traces of fine to medium sand, layers of dark brown staining (possibly organics), saturated.	PT	-	-	PID: 0.0 ppm (sample) Sample collected 0345
2				End of Exploration at 2.5 feet, per Work Scope.				
3				★ ^{msl} Groundwater level at 2.3' (4") above grade.				

NOTES:

Drilling Contractor IT
 Drilling Equipment Hand Auger (3")
 Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

PP 100 + 101



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782393	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-614	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 9/29/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 9/29/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
0.5'	CMS-614 A	-	6"	Surface: Vegetation Light to moderate brown, silty, sandy PEAT 0.2' Moderate brown, silty PEAT, trace sand, moist to wet. 0.5' Dark brown, organic silt, trace fine sand, wet. End of Exploration at 0.5 foot, per the work scope. * Standing water in borehole at 0.5 foot.	OT OL	-	-	N/A (did not work) Sample collected 1138

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: CR, RI

Hand Auger Book 2

pp 90 + 91

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 752893	PROJECT NAME: Centerville Manor, North Providence, RI		
BORING NUMBER: CMS-615	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 9/29/99
ENGINEER/GEOLOGIST: M. Kelly	Depth	Date/Time	DATE COMPLETED: 9/29/99
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				N/A
0.5'	CMS-615 A	-	12"	Moderate to olive brown silty PEAT, occasional wood fragments and debris (plastic sheeting and roofing shingle fragments) moist	PT	-	-	Air monitoring: N/A
				Brownish gray organic SILT, moist to wet.	OL	-	-	
				olive brown to dark brown PEAT to organic SILT, saturated.	PT/OL	-	-	Sample collected 1444
1	CMS-615 B	-	5'	Moderate to dark brown organic SILT with fine to coarse SAND, saturated.	OL	-	-	
				Light brown to tan, silty fine to coarse SAND and fine to medium GRAVEL, debris (plastic fragments)	GM	-	-	Sample collected 1452
2				End of Exploration at 1.5 feet, due to refusal.				
3								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

pp 94 + 95



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Mans., North Providence, RI		
BORING NUMBER: CMS-616	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 9/29/99
ENGINEER/GEOLOGIST: M. B.illy	Depth	Date/Time	DATE COMPLETED: 9/29/99
DRILLING METHODS: Hand Auger	PAGE 1		OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY 1/2	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
0.25'				Surface: Vegetation				N/A
	CMS-616	1	5"	Moderate to Olive Brown Silty PEAT, 0.25' saturated.	PT	-	-	Air monitoring: N/A
	P			Alternating layers of PEAT and clay (silt/clay) 0.25' saturated.	PT/OL	-	-	Sample collected 1513
1				End of Exploration at 0.5 foot, per the worksafe.				
2								
				Water level is 3" above grade.				

NOTES:

Drilling Contractor IT
 Drilling Equipment Hand Auger (4")
 Driller: _____

Reference: Field Book: C.R., RI
 Hand Auger Book 2
 pp 96+97



VISUAL CLASSIFICATION OF SOILS

NOTES:

Drilling Contractor IT

Drilling Equipment Hand Auger (3")

Driller: _____

Reference: Field B.K.: C.R., R.I.
Hand Auger Book 2
pp 110 + 111



US EPA ARCHIVE DOCUMENT

PROJECT NUMBER: 782893		PROJECT NAME: Centredale Manor, North Providence, RI	
BORING NUMBER: CMS-619		COORDINATES:	DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 10/1/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 10/1/99
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	REMARKS
	Cons. PT A	-	6'	Surface - Silt and plant debris Moderate brown silty plant debris (decomposed organic material), plastic debris present, moist.	PT	-	-	Background Reading PID: 0.0ppm
1				End of Exploration at 0.5 Foot, per Work scope.				PID: 0.0ppm (B. Zone) 0.0ppm (sample) Sample collected 1126
2				* Water table not encountered.				

NOTES:

Drilling Contractor

Drilling Equipment

Driller:

IT

Hard Anger (3")

Reference: Field Book: c.R., RI

Hand Auger Book 2

pp 108 & 109

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence		
BORING NUMBER: CMS-620	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 10/1/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 10/1/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

+ 4.0

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER	RECOVERY	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Sand, ~~to gravel~~				P.D.: 0.0 ppm
	CMS-620 A	1	6"	Predominantly tan, but multicolored, fine to coarse SAND, with twigs, leaves and debris (plastic sheeting), saturated. 0.4'	SP	1	1	P.D.: 0.0 ppm (B.Zone) 2.5 ppm (sample) Sample collected 11/2
1				Brownish-gray SILT and CLAY, leaf and stick fragments, saturated.				
2				End of Exploration at 0.5 foot, per the Work Scope.				
				* Water level at 4.0 feet above grade. Sample collected from location in middle of main stream channel.				

NOTES:

Drilling Contractor IT

Drilling Equipment Hand Auger

Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

pp 106 + 107



VISUAL CLASSIFICATION OF SOILS

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ↓	RECOVERY ↓	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
				Surface: Vegetation				Background Reading PID: 0.000m
1	CM5 521 A	-	6"	Moderate to grayish brown, silty, clayey PEAT, Saturated.	PT	-	-	PID: 0.000m (B.Zone) 0.000m (sample) Sample collected 1137
2				End of Exploration at 0.5 foot, per the work scope.				
3				* Water level at 1.2 feet above grade.				

pp 108 & 109

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893		PROJECT NAME: Centredale Manor, North Providence, RI	
BORING NUMBER: CMS-622		COORDINATES:	DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 10/5/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 10/5/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

+1.5'

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (ft)	RECOVERY %	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Vegetation				PID: N/A
	CMS-622 A	-	6"	Moderate brown silty PEAT with roots, saturated.	PT	-	-	Air monitoring: N/A Sample collected 1000
1				End of Exploration at 0.5 foot, per the work scope.				
2				* Water level at 1.5 feet above grade.				
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

NOTES:

Drilling Contractor:

IT

Drilling Equipment:

Hand Auger (3")

Driller:

Reference: Field Book: C.R., RI

Hand Auger Book 2

pp 112 + 113



US EPA ARCHIVE DOCUMENT

PROJECT NUMBER: 782813	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-923	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 10/5/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 10/5/99
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				PID: N/A
	C.M.C.- 623 +	-	6"	Dark brown, silty root mass. 0.2' MH (Fill) Grayish brown to light brown SILT, fine to coarse SAND and fine to medium angular GRAVEL, and Debris (ceramic & glass fragment), moist.	N/A			Air monitoring: N/A Sample collected 10/10
1								
2								
3								
				End of Exploration at 0.5 feet, per the Work Scope.				
				* Water table not encountered.				

NOTES:

Drilling Contractor _____

Drilling Equipment Hand Auger (3")

Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

pp 112 & 113



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-624	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 10/1/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 10/1/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Reading FID: REMARKS G. Zone: 0.0 ppm
0.0	CMS-624 A	-	6"	Surface: Vegetation Moderate to dark brown, silty PEAT, saturated	PT	-	-	FID: 0.0 ppm (6" hole) 0.0 ppm (sample) Sample collected 0920
1.0				End of Exploration at 0.5 foot, per Work Scope.				
2.0								
3.0				Water level at 0.2' (2") above grade.				
4.0								
5.0								
6.0								
7.0								
8.0								
9.0								
10.0								
11.0								
12.0								
13.0								
14.0								
15.0								
16.0								
17.0								
18.0								
19.0								
20.0								
21.0								
22.0								
23.0								
24.0								
25.0								
26.0								
27.0								
28.0								
29.0								
30.0								
31.0								
32.0								
33.0								
34.0								
35.0								
36.0								
37.0								
38.0								
39.0								
40.0								
41.0								
42.0								
43.0								
44.0								
45.0								
46.0								
47.0								
48.0								
49.0								
50.0								

NOTES:

Drilling Contractor

IT

Drilling Equipment

Hand Auger (4")

Driller:

Reference: Field Book: C.R., RI

Hand Auger Book 2

pp 104 + 105



625

US EPA ARCHIVE DOCUMENT

PROJECT NUMBER: 782893	PROJECT NAME: Centerville Manor, North Providence, RI	
BORING NUMBER: CMS-825	COORDINATES:	DATE:
ELEVATION:	GWL: Depth Date/Time	DATE STARTED: 10/1/99
ENGINEER/GEOLOGIST: M. Reilly	Depth Date/Time	DATE COMPLETED: 12/1/99
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	REMARKS
	CM- B25- A	1	6"	Surface: Vegetation Moderate brown silty PEAT with roots, trace fine sand, moist.	PT	1	1	Backlog reading PID: 12.5 ppm (B. Zone) PID: 26.0 ppm (6" Hole) 3.5 ppm (Sample) Sample collected 0925
1				End of Exploration at 0.5 feet, per work scope.				
2				★ Standing groundwater in borehole at 3" (0.25'), above				
3								

NOTES:

Drilling Contractor _____

Drilling Equipment Harrel Hoyer (J)

Driller: _____

Reference: Field Book: C.R., 21

Hand Auger Book 2

pp 104 & 105



626

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 732893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS- E26	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 12/1/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 12/1/99
DRILLING METHODS: Hand Auger			PAGE OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER 1" RECOVERY	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
			Surface: Vegetation				N/A
	CMS- R26 A	-	6" Moderate to grayish brown organic SILT and PEAT with wood fragments, roots, moist to wet.	OL/ PT	-	-	PID: N/A Sample collected 0942
1			End of Exploration at 0.5 foot, per the workspe.				
2			* Water level at approximately 1.0 foot above grade.				

NOTES:

Drilling Contractor IT

Drilling Equipment Hand Auger (3")

Driller: _____

Reference: Field Book : C.R., RI

Harv Auger Book 2

pp 104 & 105



VISUAL CLASSIFICATION OF SOILS

1
2
3

pp 114 & 115

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-628	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 9/29/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 9/29/99
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
0.0'				Surface Vegetation				N/A
1	CMS-628-A	-	12"	Olive brown, silty PEAT, saturated	PT	-	-	Air monitoring: N/A
				0.75'	OL/PT			Sample collected 1626
	CMS-628-B	-	12"	Dark brown, organic SILT with occasional PEAT, saturated.	OL/PT			
				Same as above.	OL/PT			
2	CMS-628-B	-	12"	Olive brown to moderate brown sandy SILT and weathered GRAVEL, saturated.	GM	-	-	Sample collected 1632
				1.5'				
	CMS-628-C	-	12"	Olive brown, silty Fine to coarse SAND and fine to medium GRAVEL (subangular to rounded), saturated.	GM	-	-	
3	CMS-628-D	-	6"	Same as above	GM	-	-	Sample collected 1637
								Sample collected 1640
4				End of Exploration at 3.5 feet, due to refusal on Gravel/Cobbles.				
5								

NOTES:

Drilling Contractor IT
 Drilling Equipment Hand Auger (4" 3")
 Driller: _____

Reference: Field Book: C.R., RI
 Hand Auger Book 2

P 93 + 99



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782693		PROJECT NAME: Centredale Manor, North Providence, RI	
BORING NUMBER: CMS-629		COORDINATES:	DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 10/1/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 10/1/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ↓	RECOVERY 1X/	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
	CM- B22 A	-	6"	Surface: Vegetation Moderate to dark brown and brownish gray organic SILT and PEAT, with plant fragments (wood), saturated.	OL PT	-	-	FID: N/A Sample collected 10/10
1				End of Exploration at 0.5 foot, per the Mark scope.				
2				Water table at approx. 1.7 feet above grade.				

NOTES:

Drilling Contractor ET

Drilling Equipment Hand Auger (3')

Driller: _____

Reference: Field Book: C.R., RI.

Hand Aiger Book 2

PP 106 & 107



VISUAL CLASSIFICATION OF SOILS

$$\begin{array}{r} +1.2' \\ \hline \hline \hline \hline \end{array}$$

A vertical scale with tick marks and labels 1, 2, and 3.

Reference: ~~MS~~ Field Book: C.R., RI
Hand Auger Book 2
pp 104 + 105



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-631	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 10/5/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 10/5/99
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: leaves and sand				PID: N/A
	CMS-631	-	6"	Olive gray, silty SAND with plant debris, 0.2	SM			Air monitoring: NA
	A			Olive gray to olive brown silty, clayey PEAT (mudflat or swamp soil), saturated. 0.4	PT	-	-	Sample collected 1105
				Grayish black organic CLAY with plant debris (swamp soil), saturated				
				End of Exploration at 0.5 foot, per the work scope.				
				★ Water level is 3.0 feet above grade				
				- Sample point located in main stream channel.				

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (3")
Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 2

pp 114 + 115

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782893</u>	PROJECT NAME: <u>Cantredale Manor, North Providence, RI</u>		
BORING NUMBER: <u>CMS-632</u>	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: <u>10/5/99</u>
ENGINEER/GEOLOGIST: <u>M. Reilly</u>	Depth	Date/Time	DATE COMPLETED: <u>10/5/99</u>
DRILLING METHODS: <u>Hand Auger</u>			PAGE <u>1</u> OF <u>1</u>

DEPTH (ft)	SAMPLE TYPE & NO	BLOWS ON SAMPLER PER FOOT	RECOVERY	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: 11701.				P.D. N/A
	CMS- 632 A	-	0.5"	Olive gray to olive brown, silty, clayey PEAT, saturated. Same as above, with layers of grayish black organic CLAY (swamp soil), saturated.	PT	-	-	Air monitoring: N/A Sample collected 10/5/99
1				End of Exploration at 0.5 feet, per the work scope.				
2								
3				* Water level is 2.0 feet above grade.				

NOTES:

Drilling Contractor IT
 Drilling Equipment Hand Auger (3")
 Driller: _____

Reference: Field Book: C.R., RI

Hand Auger Book 1

pp 114 & 115



VISUAL CLASSIFICATION OF SOILS

+3.0
▼

三

Drilling Contractor IL
Drilling Equipment Hand Auger (3")
Driller: _____

243B-3-86



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centerville Manor, North Providence, RI		
BORING NUMBER: CMS-634	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 10/5/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 10/5/99
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
0.0				Surface: Vegetation and Silt				PID: N/A
0.4	CMS 634 A	-	6"	Moderate brown, silty PEAT (plant fragments plentiful), occasional debris (plastic sheeting), saturated.	PT	-	-	Air monitoring: N/A Sample collected 0854
1				Same as above except increasing SILT and fine to medium rounded GRAVEL (silt in pockets).				
2				End of Exploration at 0.5 foot per Work Scope.				
				* Water at surface (0.0 foot above grade)				

NOTES:

Drilling Contractor IT Corp
Drilling Equipment Hand Auger (4")
Driller: _____

Reference: Field Book: C.R., RI
Hand Auger Book 2

pp 112 + 113



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centerville Manor, North Providence, RI		
BORING NUMBER: CMS-700	COORDINATES:		DATE: 11/5/99
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 11/5/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 11/5/99
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: Moss, roots, brown silty sand				Rel: 10-12 mr/hr PID: 0.000m
	CMS-700 A	-	12"	(Fill) Moderate brown, silty SAND and roots, some debris (styrofoam), moist. 0.66'	N/A			Rel 10-12 mr/hr (samples) PID 0.000m Sample collected 1035
	CMS-700 B	-	6"	(Fill) moderate to olive brown, silty, fine to coarse SAND, moist to wet. 1.0'	N/A			Rel 10-12 mr/hr (samples) PID 0.000m Sample collected 1040
1				End of Exploration at 1.5 feet, due to water table, scope of work.				Standing Water in borehole at 1.0 ft. depth below grade.
2								
3								
4								Rinsate blank collected 1045
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (4" x 5")
Driller: _____

Reference: Field Book: Residential Samples
(Hand Auger)
Vol. 1 PP 24+25

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-701	COORDINATES:		DATE: 11/5/99
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 11/5/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 11/5/99
DRILLING METHODS: Hand Auger			PAGE OF

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ↓	RECOVERY ↑	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Silty Sand + roots				Rad: 10-12 mr/hr PID: 0.1 ppm
1	CMS-701 A	12"		(Fill): Light to moderate brown, Fine to medium SAND, some coarse sand and fine gravel, roots, moist. (Fill): Same as above, with occasional coarse gravel, 1.0'	N/A			Rad: 10-12 mr/hr PID: 0.1 ppm Sample collected 1100 *
2	CMS-701 B	12"		(Fill): Same as above, with trace roots and increased amount of coarse gravel. Same as above 2.0'	N/A			Rad: 10-12 mr/hr PID: 0-0.1 ppm Sample collected 1102
3	CMS-701 C	6"		(Fill): Moderate to dark brown, Fine to medium SAND, some silt, some fine gravel, debris (slag and coal) and cobbles, moist.	N/A			Rad: 10-12 mr/hr PID: 0-0.1 ppm Sample collected 1110
4				End of Exploration at 2.5 Feet due to auger refusal on cobbles. Groundwater table not encountered.				
5								

NOTES:

Drilling Contractor: IT
 Drilling Equipment: Hand Auger (4" x 3")
 Driller: _____

Reference: Field Book: Residential Samples
 (Hand Auger)

Vol. 1 Pp 26-28



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 752893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-702	COORDINATES:		DATE: 11/5/99
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 11/5/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 11/5/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings: REMARKS
				SURFACE: Grass, roots.				Rad: 10-12 m/hr PID: 0.1 ppm
				Root mass, brown silt & sand				
				(Fill): Light brown, medium to coarse SAND with fine gravel and some roots, moist.				
				(Fill): Light brown coarse SAND and fine GRAVEL, some roots, silt, moist.				
1	CMS- 702 A	1	12"					Rad: 10-12 m/hr PID: 0.1 ppm Sample collected 11/8
				(Fill): Light brown FINE SAND, moist.				
				Dark brown, medium to coarse SAND, with gravel, moist.				
				Brownish gray to Olive gray FINE GRAVEL and silty FINE to coarse SAND, moist.				
2	CMS- 702 B	1	12"					Rad: N/A PID: 0.3 - 2.1 ppm Sample collected 11/8
				End of Exploration at 2 feet, due to Auger refusal on cobbles.				
3				Groundwater table not encountered.				
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (4" & 3")
Driller: _____

Reference: Field Book Residential Samples
(Hand Auger)

Vol. 1 pp 28-32



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-703	COORDINATES:	DATE: 11/5/99	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 11/5/99
ENGINEER/GEOLOGIST: M. Reilly	Depth	Date/Time	DATE COMPLETED: 11/5/99
DRILLING METHODS: Hand Auger	PAGE		OF

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY IN	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	Background Readings REMARKS
				Surface: Brown silt & roots				Rad: N/A FID: 0-0.3 ppm
1	CMS-703 A	—	12"	(Fill): Dark brownish gray to brown, sandy SILT with roots, debris (orange, crystalline mat'l, fractures conchoidally, surface weathering: yellow-orange) as (Fill): Same as above, with fewer roots. 1.0'	N/A			Rad: 10.5 uR/hr FID: 0.0 ppm Sample collected 11/45
2	CMS-703 B	—	12"	(Fill): Light to moderate brown, silty fine to coarse SAND and fine GRAVEL, occasional roots, moist. 1.66' (Fill): Light brown, fine SAND, occasional coarse sand, moist.	N/A			Rad: N/A FID: 0-0.3 ppm Sample collected 12/15
3				End of Exploration at 2 Feet, due to Gravel and cobbles.				
4								
5								

NOTES:

Drilling Contractor IT
Drilling Equipment Hand Auger (4" x 3")
Driller: _____

Reference: Field Book: Residential Samples
(Hand Auger)

Vol. 1 pp 26-28



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782893</u>	PROJECT NAME: <u>Centrade Manor North Providence, RI</u>	
BORING NUMBER: <u>CMS-400</u>	COORDINATES:	DATE:
ELEVATION:	GWL: Depth <u>5 ft</u> Date/Time <u>6/21/99</u>	DATE STARTED: <u>6/21/99</u>
ENGINEER/GEOLOGIST: <u>B. Bowen</u>	Depth Date/Time	DATE COMPLETED: <u>6/21/99</u>
DRILLING METHODS: <u>Geoprobe</u>	PAGE <u>1</u> OF <u>1</u>	

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 400-A	NA	12	Asphalt 2" Fill, Gravel sand and silt, coarse to fine gravel and sand, brown, moist.	GM			FID 0.0ppm
2	CMS 400-B	NA	12	Fill, 4" Gravel sand and silt, coarse to fine gravel and sand, brown, moist. 8" Silt, gray to dark gray dry.	GM ML			FID 0.0ppm
3	CMS 400-C	NA	10	Fill, Silt, gray with dark gray mottling, moist.	ML			FID 0.0ppm
4	CMS 400-D	NA	12	Fill, Gravel sand and silt, fine gravel, coarse to fine sand, white to gray, moist.	GM			FID 0.0ppm
5	CMS 400-E	NA	10	Sand and silt, coarse to fine sand, brown to gray, moist but wet at 5' bgs	SM			FID 0.0ppm
	CMS 400-F	NA	12	8" Same as above, 4" Gravel, sand and silt, dark brown, wet.	SM GM			FID 0.0ppm EOB GFT

NOTES:

Drilling Contractor Zebra
Drilling Equipment Geoprobe
Driller: _____

Reference: Geoprobe Logbook
pg 2-3



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782893</u>	PROJECT NAME: <u>Centredale Manor, North Providence RI</u>		
BORING NUMBER: <u>CMS 404</u>	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: <u>6/22/99</u>
ENGINEER/GEOLOGIST: <u>B. Bowen</u>	Depth	Date/Time	DATE COMPLETED: <u>6/22/99</u>
DRILLING METHODS: <u>Geoprobe</u>			PAGE <u>1</u> OF <u>1</u>

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 404A		12	Fill, Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown, moist.	GM			PID 0.0ppm
2	CMS 404B		10	Fill, Gravel sand and silt, fine gravel, coarse to fine sand, dark brown, moist.	GM			PID 0.0ppm
3	CMS 404C		10	Gravel sand and silt, fine gravel, coarse to fine sand, brown to tan, moist.	GM			PID 0.0ppm
4	CMS 404D		12	Gravel sand and silt, fine gravel, coarse to fine sand, dark brown, moist.	GM			PID 0.0ppm
5	CMS 404E		12	Gravel sand and silt, fine gravel, coarse to fine sand, brown, wet.	GM			PID 0.0ppm
	CMS 404F		12	Gravel sand and silt, fine gravel, coarse to fine sand brown, wet	GM			PID 0.0ppm EOB 6ft

NOTES:

Drilling Contractor Zebra
 Drilling Equipment Geoprobe
 Driller: _____



US EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 403A		12	Fill Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown, moist.	GM			PID 0.0ppm
2	CMS 403B		12	Fill, Gravel sand and silt, medium to fine gravel, coarse to fine sand, glass and white material, dark gray, moist.	GM			PID 0.0ppm
3	CMS 403C		12	Fill, Ash, cinders, sand and silt, gray to white, moist	SM			PID 0.0ppm
4	CMS 403D		10	Fill, Ash, cinders, sand and silt, medium to fine sand, gray to white, moist	SM			PID 0.0ppm
5	CMS 403E		12	Sand and silt, coarse to fine sand, brown to tan, wet.	SM			PID 2.0ppm EOB SAT

Drilling Contractor Zebra
Drilling Equipment Geoprobe
Driller: _____

VISUAL CLASSIFICATION OF SOILS

TEST NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS-402	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/22/99
ENGINEER/GEOLOGIST: B. Baven	Depth	Date/Time	DATE COMPLETED: 6/22/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 402A		12	Fill, Gravel sand and some silt, medium to fine gravel, coarse to fine sand, brown, moist.	GM			NO OVA
2	CMS 402B		12	Fill, Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown, moist.	GM			PID 0.0ppm
3	CMS 402C		12"	Fill, Gravel sand and silt, fine gravel, coarse to fine sand, 6" of brown, 6" of dark brown moist.	GM			PID 0.0ppm
4	CMS 402D		12"	Fill, Sand and silt, coarse to fine sand, plastic fragments, dark brown, moist	SM			PID 0.0ppm
5	CMS 402E		12"	Gravel sand and silt, medium to fine gravel, coarse to fine sand, dark brown, wet	GM			PID 0.0ppm
	CMS 402F		10"	Sand and silt, coarse to fine sand, 4" black, 6" gray wet.	SM			PID 0.0ppm EOB 6ft

NOTES:

Drilling Contractor Zebra
 Drilling Equipment Geoprobe
 Driller: _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centredale Manor, North Providence RI		
BORING NUMBER: CMS-401	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/22/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 6/22/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY ()	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 401-A		12	Gravel sand and silt, fine gravel, brown, moist.	GM			OVA 0.0ppm
2	CMS 401-B (Dsp) (Split)		12	Fill, Silty Sand, coarse to fine sand, glass, wood, foam rubber	SM			NO OVA
3	CMS 401-C (ms) (MSD)		4	Fill, same as above wet at 3ft	SM			NO OVA
4	CMS 401-D		4	Fill, same as above wet.	SM			NO OVA
5	CMS 401-E		6	Silty Sand, medium to fine sand, gray to dark brown, wet.	SM			NO OVA
	CMS 401-F		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, dark brown, wet.	GM			NO OVA EOB 6ft

NOTES:

Drilling Contractor: Zebra

Drilling Equipment: Geoprobe

Driller:



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centre Lake Manor, North Providence R2		
BORING NUMBER: CMS-401	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/22/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 6/22/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 401A		12	Asphalt 2" Fill, Gravel, sand and silt, medium to fine gravel, coarse to fine sand, brown, moist.	GM			OVA 0.0 ppm
2	CMS 401B		12	Fill, Gravel, sand and silt, coarse to fine sand, coarse to fine sand, brown to gray, moist.	GM			OVA 2.0 ppm
3	CMS 401C		6	Silty sand, fine sand, gray, moist.	SM			OVA 2.5 ppm
4	CMS 401D		4	Gravel sand and silt, fine gravel, coarse to fine sand, black, wet.	GM			OVA 150 ppm
5	CMS 401E		0	No recovery, no sample wet.				No recovery
			0	No recovery, no sample wet.				No recovery EOB 6ft

NOTES:

Drilling Contractor Zebra
Drilling Equipment Geoprobe
Driller: _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence RI		
BORING NUMBER: CMS 409	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/23/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 6/23/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH ()	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY ()	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
2	CMS 409A		12	Fill, Gravel sand and silt, medium to fine gravel, coarse to fine sand brown, moist.	GM			FID 15ppm
2	CMS 409B		12	Fill, Sandy Silt, medium to fine sand, brown, moist to wet.	SM			FID 12ppm
3	CMS 409C		12	Fill, sand and silt, with Carbon granules, coarse to fine sand, brown to black, wet.	SM			FID 27ppm
4	CMS 409D		12	Sand and silt, coarse to fine sand, dark brown, wet.	SM			FID 25ppm
5	CMS 409E		12	Sand and silt, coarse to fine sand, dark brown to black, wet.	SM			FID 29ppm
	CMS 409F			Gravel sand and silt, medium to fine gravel, medium to fine sand, brown to dark brown, wet.	GM			FID 20ppm EOB GFT

NOTES:

Drilling Contractor Zebra

Drilling Equipment Geoprobe

Driller: _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782893</u>		PROJECT NAME: <u>Centredale Manor, North Providence RI</u>	
BORING NUMBER: <u>CMS 405</u>		COORDINATES:	DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: <u>6/23/99</u>
ENGINEER/GEOLOGIST: <u>B. Bowen</u>	Depth	Date/Time	DATE COMPLETED: <u>6/23/99</u>
DRILLING METHODS: <u>Geoprobe</u>			PAGE <u>1</u> OF <u>1</u>

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 405A		12	Fill Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown, moist.	GM			FID 2.5 ppm
2	CMS 405B		12	Sand and silt, medium to fine sand, gray to dark gray, moist.	SM			FID 25 ppm
3	CMS 405C		12	Sand and silt, medium to fine sand, gray to dark gray, moist.	SM			FID 12 ppm
4	CMS 405D		12	Gravel sand and silt, medium to fine gravel, coarse to fine sand, gray to dark gray, wet	GM			FID 35 ppm
5	CMS 405E		12	Gravel sand and silt, medium to fine gravel, coarse to fine sand, dark gray.	GM			FID 45 ppm
			0	No Recovery, wet				No Recovery.

NOTES:

Drilling Contractor Zebra
 Drilling Equipment Geoprobe
 Driller: _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence RI		
BORING NUMBER: CMS-417	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/24/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 6/24/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 417A		12	Fill, Gravel, sand and silt, medium to fine gravel, coarse to fine sand, brown, moist.	GM			FID 700.0 ppm
2	CMS 417B		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, dark brown, moist, plastic drum bung.	GM			FID 150 ppm
3	CMS 417C		12	Gravel sand and silt, fine gravel, coarse to fine sand, dark brown to dark gray, moist.	GM			OVUM 50 ppm
4	CMS 417D		12	Gravel sand and silt, fine gravel, coarse to fine sand, dark brown to dark gray, wet.				OVUM 150 ppm EOB 4ft
5								

NOTES:

Drilling Contractor E. Zebra

Drilling Equipment Geoprobe

Driller: _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence RI		
BORING NUMBER: CMS-411	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/24/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 6/24/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 411A		12	Fill, Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown, moist.	GM			FID 0.0ppm
2	CMS 411B		12	Fill, Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown, moist	GM			FID 2.5ppm
3	CMS 411C		12	Fill, Gravel sand and silt, medium to fine gravel, coarse to fine sand, brick fragments, dark brown, moist	GM			FID 25ppm
4	CMS 411D		12	Fill, Gravel sand and silt, medium to fine gravel, coarse to fine sand, dark brown, moist, Brick fragments.	GM			FID 112 ppm
5	CMS 411E		12	Sandy silt, fine sand, dark gray, moist to wet.	SM			FID 22ppm EO13 5ft

NOTES:

Drilling Contractor Zebra

Drilling Equipment Geoprobe

Driller: _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence RI		
BORING NUMBER: CMS-410	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/24/99
ENGINEER/GEOLOGIST: B. Power	Depth	Date/Time	DATE COMPLETED: 6/24/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 410-A		12	Fill, Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown, moist	GM			FID 9.7ppm
2	CMS 410-B		12	Fill, Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown, moist.	GM			FID 5.8ppm
3	CMS 410-C		12	Gravel sand and silt, medium to fine gravel, coarse to fine sand, white granules in a gray matrix, moist.	GM			FID 15ppm
4	CMS 410-D		12	Gravel sand and silt, medium to fine gravel, coarse to fine sand, dark gray, moist	GM			FID 12.5ppm
5	CMS 410-E		12	Sand and silt, coarse to fine sand, dark brown, wet.	SM			FID 0.0ppm
	CMS 410-F		12	Gravel sand and silt, medium to fine gravel, coarse to fine sand, dark brown, wet.	GM			FID 0.0ppm

NOTES:

Drilling Contractor Zebrca

Drilling Equipment Geoprobe

Driller: _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782 893</u>		PROJECT NAME: <u>Centre Lake Manor, North Providence RI</u>	
BORING NUMBER: <u>CMS 415</u>		COORDINATES:	DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: <u>6/25/99</u>
ENGINEER/GEOLOGIST: <u>B. Bowen</u>	Depth	Date/Time	DATE COMPLETED: <u>6/25/99</u>
DRILLING METHODS: <u>Geoprobe</u>			PAGE <u>1</u> OF <u>1</u>

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 415A		12	Fill, Gravel, Sand and silt, fine gravel, coarse to fine sand, brown, moist.	GM			PID 1.1ppm
2	CMS 415B		12	Fill, Gravel, Sand and silt, fine gravel, coarse to fine sand, brown to dark brown.	GM			PID 0.0ppm
3	CMS 415C		12	Fill, Gravel, sand and silt, fine gravel, coarse to fine sand, brown, moist.	GM			PID 1.5ppm
4	CMS 416D		12	Gravel sand and silt, fine gravel, coarse to fine sand, rootlets, dark brown, wet.	GM			PID 1.1ppm E03 4ft
5								

NOTES:

Drilling Contractor Zebra
 Drilling Equipment Geoprobe
 Driller: _____



VISUAL CLASSIFICATION OF SOILS

OBJECT NUMBER: 782 893	PROJECT NAME: Centricale Manor, North Providence RI		
BORING NUMBER: CMS 412	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/25/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 6/25/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 412A		12	Fill, Gravel, sand and silt, ash, fine gravel, coarse to fine sand, dark brown, moist.	GM			PID 12 ppm
2	CMS 412B		12	Fill, Gravel, sand and silt, ash, fine gravel, coarse to fine sand, dark gray, moist.	GM			PID 12 ppm
3	CMS 412C		12	Fill, Gravel, sand and silt, ash, fine gravel, coarse to fine sand, dark gray, moist.	GM			PID 1.4 ppm
4	CMS 412D		12	Fill, Gravel sand and silt, ash or filter cake material, medium to fine gravel, coarse to fine sand tan to beige, wet.	GM			PID 1.1 ppm EOB 4ft
5								

NOTES:

Drilling Contractor Zebra

Drilling Equipment Geoprobe

Driller: _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782893	PROJECT NAME: Centralec le Maro - , North Providence , RI		
BORING NUMBER: CMS - 413	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/25/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 6/25/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 413A		12	Fill, Sand and silt, coarse to fine sand, brown, moist.	SM			FID 19ppm
2	CMS 413B		12	fill, Gravel, sand and silt, ash, fine gravel, coarse to fine sand, brown and white mottled, moist.	GM			FID 13ppm
3	CMS 413C		12	Gravel, sand and silt, fine gravel, coarse to fine sand, brown to dark brown, wet.	GM			FID 15 ppm EOB 3ft
4								
5								

NOTES:

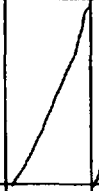
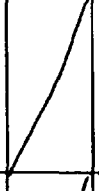
Drilling Contractor _____

Drilling Equipment _____

Driller: _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782 893</u>	PROJECT NAME: <u>Centredale Manor, North Providence RI</u>	
BORING NUMBER: <u>CMS 414</u>	COORDINATES:	DATE:
ELEVATION:	GWL: Depth Date/Time	DATE STARTED: <u>6/25/99</u>
ENGINEER/GEOLOGIST: <u>B. Bowen</u>	Depth Date/Time	DATE COMPLETED: <u>6/25/99</u>
DRILLING METHODS: <u>Geoprobe</u>		PAGE <u>1</u> OF <u>1</u>

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 414A		12	Fill, Gravel sand and silt, medium to fine gravel, coarse to fine sand, ash, brown to dark brown, moist.	GM			FID 27 ppm
2	CMS 414B		12	Fill, Gravel sand and ash, fine gravel, coarse to fine sand, dark brown, moist.	GM			FID 35 ppm
3	CMS 414C		12	Gravel sand and silt, fine gravel, coarse to fine sand, brown, moist.	GM			FID 44 ppm
4	CMS 414D		12	Gravel sand and silt, fine gravel, coarse to fine sand, brown, moist.	GM			FID 27 ppm EOB 4ft
5								

NOTES:

Drilling Contractor Zebra

Drilling Equipment Geoprobe

Driller: _____



US EPA ARCHIVE DOCUMENT

DEPTH (ft.)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 89A		12	Grass, 0-2", Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown, dry, fill.	GM			FID 0.0ppm
2	CMS 89B		12	Fill, Gravel sand and silt, fine gravel, coarse to fine sand, brown to dark brown, moist	GM			FID 0.0ppm
3	CMS 89C		12	Gravel, sand and silt, fine gravel, coarse to fine sand, dark brown, moist.	GM			FID 0.0ppm
4	CMS 89D		12	Gravel, sand and silt, fine gravel, coarse to fine sand, brown, moist to wet at 4ft.	GM			FID 0.0ppm EOB 4ft
5								

Drilling Contractor Zebra
Drilling Equipment Geoprobe
Driller: _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centre Lake Manor North Providence, RI		
BORING NUMBER: CMS 408	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/28/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 6/28/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 408A		12	Fill, Asphalt 0.2", Gravel, Sand and silt, fine gravel, coarse to fine sand, brown, moist.	GM			FID 22ppm
2	CMS 408B		12	Fill, Gravel sand and silt, fine gravel, coarse to fine sand, dark brown, moist.	GM			FID 39ppm
3	CMS 409C		12	Fill, Gravel sand and silt, fine gravel, coarse to fine sand, dark brown, wet at 3.5 ft	GM			FID 75ppm EOB 3ft
4								
5								

NOTES:

Drilling Contractor Zebra
 Drilling Equipment Geoprobe
 Driller: _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence RI		
BORING NUMBER: CMS 407	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/28/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 6/28/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 407A		12	Fill, 2" Asphalt, Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown to dark brown, moist.	GM			FID 12ppm
2	CMS 407B		12	Gravel, sand and silt, fine gravel coarse to fine sand, dark brown, moist.	GM			FID 27ppm
3	CMS 407C		12	Sand and silt, coarse to fine sand, dark brown, moist, metal and glass fragments.	SM			FID 15ppm
4	CMS 407D		4	Sand and silt, coarse to fine sand, dark brown, wet.	SM			FID 6ppm EOB 4ft
5								

NOTES:

Drilling Contractor Zebra

Drilling Equipment Geoprobe

Driller: _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence RI		
BORING NUMBER: CMS 076	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/29/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 6/29/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 076A		12	Sand and silt, coarse to fine sand, rootlets, dark brown, moist.	SM			PID 0.0ppm
2	CMS 076B		12	Gravel, sand and silt, fine gravel, coarse to fine sand, dark brown, moist.	GM			PID 1.5ppm
3	CMS 076C		12	Sand and silt, coarse to fine sand, brown, moist.	SM			PID 3ppm EOB 3ft
4								
5								

NOTES:

Drilling Contractor Zebra
 Drilling Equipment Geoprobe
 Driller: _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence RI		
BORING NUMBER: CMS 094	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/29/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 6/29/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 094A		12	Sand and silt, coarse to fine sand, brown, wet at 1ft.	SM			FID 12ppm EOB 1ft.
2								
3								
4								
5								

NOTES:

Drilling Contractor Zebra

Drilling Equipment Geoprobe

Driller: _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782 893</u>	PROJECT NAME: <u>Centredale Manor, North Providence RI</u>		
BORING NUMBER: <u>CMS 102</u>	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: <u>6/29/99</u>
ENGINEER/GEOLOGIST: <u>B. Bowen</u>	Depth	Date/Time	DATE COMPLETED: <u>6/29/99</u>
DRILLING METHODS: <u>Geoprobe</u>			PAGE <u>1</u> OF <u>1</u>

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 102A		12	Fills. Gravel, sand and silt, fine gravel, coarse to fine sand, brown, moist.	GM			FID 22 ppm
2	CMS 102B		12	Silty sand, coarse to fine sand, brown, moist to wet at 2 ft.	SM			FID 35 ppm EOB 2 ft
3								
4								
5								

NOTES:

Drilling Contractor: ~~Geoprobe~~ Zebra

Drilling Equipment: Geoprobe

Driller: _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence RI		
BORING NUMBER: CMS 232	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/29/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 6/29/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 232A		12	Fill, Gravel, sand and silt, fine gravel, coarse to fine sand, brown, moist.	GM			FID 10ppm
2	CMS 232B		12	Silty sand, coarse to fine sand, brown, moist to wet.	SM			FID 22ppm EOB 2ft.
3								
4								
5								

NOTES:

Drilling Contractor Zebra

Drilling Equipment Geoprobe

Driller: _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence RI		
BORING NUMBER: CMS 82	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/29/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 6/29/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 82A		12	Fills Gravel, sand and silt. fine gravel, coarse to fine sand, brown, moist.	GM			FID 10ppm
2	CMS 82B		12	Silty Sand, coarse to fine sand, brown, moist to wet at 2ft.	SM			FID 51ppm EOB 2ft
3								
4								
5								

NOTES:

Drilling Contractor Zebra
 Drilling Equipment Geoprobe
 Driller: _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence RI		
BORING NUMBER: CMS 81	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 6/29/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 6/29/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 81A			Fill, Gravel sand and silt, fine gravel, coarse to fine sand, brown, moist.	GM			FID 13ppm
2	CMS 81B			Gravel, sand and silt, fine gravel, coarse to fine sand, brown to gray, wet at 2ft.	GM			FID 10ppm EOB 2ft
3								
4								
5								

NOTES:

Drilling Contractor Zebra

Drilling Equipment Geoprobe

Driller: _____



US EPA ARCHIVE DOCUMENT

DEPTH (ft.)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 060A		12	Gravel Sand and silt, medium to fine gravel, coarse to fine sand, brown, dry	GM			PID 0.0ppm
2	CMS 060B		12	Gravel Sand and silt, medium to fine gravel, coarse to fine sand, brown moist.	GM			PID 0.0ppm
3	CMS 060C		12	Gravel, sand and silt, medium gravel, coarse to fine sand, brown, moist.	GM			PID 0.0ppm
4	CMS 060D		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, brown moist	GM			PID not working.
5	CMS 060E		12	Gravel, sand and silt medium to fine gravel, coarse to fine sand, dark brown, wet at 4.7 ft.	GM			PID not working. EOB 5 ft.

Drilling Contractor Zebra
Drilling Equipment Geo probe
Driller: _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782 B93</u>		PROJECT NAME: <u>Centreckle Manor, North Providence RI</u>	
BORING NUMBER: <u>CMS 069</u>		COORDINATES: _____	
ELEVATION: _____		GWL: Depth _____ Date/Time _____	DATE: _____
ENGINEER/GEOLOGIST: <u>B. Bowen</u>		Depth _____ Date/Time _____	DATE STARTED: <u>6/30/99</u>
DRILLING METHODS: <u>Geoprobe / Hand auger</u>		DATE COMPLETED: <u>6/30/99</u>	
		PAGE <u>1</u> OF <u>2</u>	

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 069A		12	Gravel, sand and silt, medium to fine gravel, medium to fine sand, brown, moist.	GM			PID 0.0ppm
2	CMS 069B		12	Gravel, sand and silt, coarse to fine gravel, medium to fine sand, brown, moist.	GM			Not Screened.
3	CMS 069C		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, brown, dry.	GM			PID 0.0ppm
4	CMS 069D		12	Gravel, sand and silt, medium gravel, coarse to fine sand, brown, moist.	GM			PID 0.0ppm
5	CMS 069E		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, brown, moist.	GM			PID 0.0ppm
6	CMS 069F		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, brown, moist.	GM			PID 0.0ppm

NOTES:

Drilling Contractor Zebra
 Drilling Equipment Hand auger to 2 ft, then Geoprobe
 Driller: _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence RI	
BORING NUMBER: CMS 069	COORDINATES:	DATE:
ELEVATION:	GWL: Depth Date/Time	DATE STARTED: 6/30/99
ENGINEER/GEOLOGIST: B. Bowen	Depth Date/Time	DATE COMPLETED: 6/30/99
DRILLING METHODS: Geo probe		PAGE 2 OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
7	CMS 069E		12	Gravel Sand and Silt, medium gravel, coarse to fine sand, brown, moist.	GM			PIB 0.0ppm
8	CMS 069H		12	Gravel Sand and Silt, medium to fine gravel, coarse to fine sand, brown, wet at 7.5 ft.	GM			PIB 0.0ppm EOB 8ft
9								
10								
11								
12								

NOTES:

Drilling Contractor: Zebra

Drilling Equipment: Geo probe

Driller:



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence R.	
BORING NUMBER: CMS 075	COORDINATES:	DATE:
ELEVATION:	GWL: Depth Date/Time	DATE STARTED: 6/30/99
ENGINEER/GEOLOGIST: B. Bowen	Depth Date/Time	DATE COMPLETED: 6/30/99
DRILLING METHODS: Geoprobe	PAGE 1 OF 1	

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 075A		12	Fill, Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown, dry.	GM			PID 0.0ppm
2	CMS 075B		12	Fill, Gravel sand and silt, Ash, fine gravel, coarse to fine sand, brown, dry to moist.	GM			PID 0.0ppm
3	CMS 075C		12	Fill, Gravel sand and silt, concrete and brick, fine gravel, coarse to fine sand, brown, moist.	GM			PID 0.0p
4	CMS 076D			Fill, Gravel sand and silt, Ash, fine gravel, coarse to fine sand, brown, rootlets wet at 4ft.	GM			PID EOB 4ft
5								

NOTES

Drilling Contractor: Zebra
Drilling Equipment: Geoprobe
Driller:

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence RI		
BORING NUMBER: CMS 424	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/2/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 7/2/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 424A		12	Asphalt 0-2", Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown, moist.	GM			FID 0.0ppm
2	CMS 424B		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, brown to gray, moist.	GM			FID 0.0ppm
3	CMS 424C		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, brown to gray, moist.	GM			FID 12ppm
4	CMS 424D		12	Gravel, sand and silt, coarse to fine gravel, coarse to fine sand, brownish gray, wet at 3.5 ft hgs.	GM			FID 9ppm
5	CMS 424E		12	Gravel, sand and silt, coarse to fine gravel, coarse to fine sand, grayish brown, wet.	GM			FID 0.0ppm
	CMS 424F		12	Gravel, sand and silt, medium to fine gravel, coarse to medium sand, grayish brown, wet	GM			FID 12ppm

NOTES:

Drilling Contractor Zebra
 Drilling Equipment Geoprobe
 Driller: _____

US EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
7	CMS 424G		12	Gravel, sand and some silt, medium to fine gravel, coarse to fine sand, grayish brown, wet.	GM			FID 18 ppm
8	CMS 424H		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, grayish brown, wet.	GM			FID 0.0 ppm
9								

Driller: _____



US EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 422H		12	Asphalt, 0-2" fill, Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown, moist.	GM			FID 0.0ppm
2	CMS 422B		12	Fill, Gravel, Sand and silt medium to fine sand, dark brown, moist.	GM			FID 0.0ppm
3	CMS 422C		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, brown to dark brown, moist.	GM			FID 12ppm
4	CMS 422D		12	Sand and silt, coarse to fine sand, brown, wet at 3.5 ft.	SM			FID 0.0ppm EOB 4ft
5								

Drilling Contractor Zebru
Drilling Equipment Geoprobe
Driller: _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782 893</u>	PROJECT NAME: <u>Centredale Manor - North Providence R</u>		
BORING NUMBER: <u>CMS 420</u>	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: <u>7/2/99</u>
ENGINEER/GEOLOGIST: <u>B. Bowen</u>	Depth	Date/Time	DATE COMPLETED: <u>7/2/99</u>
DRILLING METHODS: <u>Geoprobe.</u>			PAGE <u>1</u> OF <u>1</u>

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (in)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 420A		12	Asphalt 0-2", Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown, moist.	GM			FID 0.0ppm
2	CMS 420B		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, brown, moist	GM			FID 0.0ppm
3	CMS 420C		12	Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown, moist.	GM			FID 0.0pp
4	CMS 420D		12	6" Gravel sand and silt, same as above then 6" silty sand, coarse to fine sand, rootlets, dark brown wet.	GM SM			FID 0.0ppm EOB 4ft
5								

NOTES

Drilling Contractor Zebra

Drilling Equipment Geoprobe

Driller _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence RI		
BORING NUMBER: CMS 427	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/6/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 7/6/99
DRILLING METHODS: Geo probe			PAGE 1 OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 427A		12	Asphalt 0-2", Gravel, sand and silt, coarse to fine gravel, coarse to fine sand, grayish brown, moist, fill.	GM			FID 20ppm
2	CMS 427B		12	Fill, Gravel sand and silt, wood, medium to fine gravel, coarse to fine sand, grayish brown, moist.	GM			FID 57ppm
3	CMS 427C		12	Gravel, sand and silt, coarse to fine gravel, coarse to fine sand, gray to dark gray moist.	GM			FID 42ppm
4	CMS 427D		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, dark gray, moist to wet at 4ft.	GM			FID 62ppm
5	CMS 427E		12	Silty Sand, coarse to fine sand, dark gray, wet.	SM			FID 12ppm
	CMS 427F		12	Silty Sand, coarse to fine sand, brown, wet.	SM			FID 8ppm

NOTES

Drilling Contractor Zebra
 Drilling Equipment Geoprobe
 Driller: _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centerville Manor, North Providence R		
BORING NUMBER: CMS 427	COORDINATES:	DATE:	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/6/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 7/6/99
DRILLING METHODS: Geoprobe			PAGE 2 OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
7	CMS 4276		12	Silty sand, coarse to fine sand, grayish brown, wet	SM			FID 6ppm
8	CMS 427H		12	Silty sand, coarse to fine sand, grayish brown, wet	SM			FID 6ppm EOB 8ppm
9								
10								
11								

NOTES

Drilling Contractor Zebra
Drilling Equipment Geoprobe
Driller _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence RI		
BORING NUMBER: CWS 419	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/7/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 7/7/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 2

DEPTH (ft.)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CWS 419A		12	Fill, Asphalt 0-2", Gravel sand and silt, coarse to fine gravel, coarse to fine sand, Brown, moist	GM			FID 5.0ppm
2	CWS 419B		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, grayish brown moist.	GM			FID 17ppm
3	CWS 419C		12	Gravel, sand and silt, fine gravel, coarse to fine sand, brown, moist.	GM			FID 16ppm
4	CWS 419D		12	Gravel, sand and silt, fine gravel, coarse to fine sand, dark brown, moist to wet at 4ft bgs.	GM			FID 25ppm
5	CWS 419E		12	Silty sand, coarse to fine sand, dark brown, wet.	SM			FID 8ppm
	CWS 419F		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, dark Brown, wet.	GM			FID 6ppm

NOTES:

Drilling Contractor Zebra
 Drilling Equipment Geoprobe
 Driller: _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centerville Manor, North Portland Rd.	
BORING NUMBER: CMS 419	COORDINATES:	DATE:
ELEVATION:	GWL: Depth Date/Time	DATE STARTED: 7/7/99
ENGINEER/GEOLOGIST: B. Bowen	Depth Date/Time	DATE COMPLETED: 7/7/99
DRILLING METHODS: Geoprobe		PAGE 2 OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
7	CMS 419G		12	Gravel, sand and silt, coarse to fine gravel, coarse to fine sand, grayish brown, wet.	GM			FID 2ppm
8	CMS 419H		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, dark brown, wet.	GM			FID 19ppm EOB 8ft
9								
10								
11								

NOTES:

Drilling Contractor _____

Drilling Equipment _____

Driller _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782 893</u>	PROJECT NAME: <u>Centredale Manor, North Providence RI</u>		
BORING NUMBER: <u>CMS-423</u>	COORDINATES:		DATE: <u>7</u>
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: <u>7/7/99</u>
ENGINEER/GEOLOGIST: <u>B. Bowen</u>	Depth	Date/Time	DATE COMPLETED: <u>7/7/99</u>
DRILLING METHODS: <u>Geoprobe</u>			PAGE <u>1</u> OF <u>2</u>

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (in)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 423A		12	Fill Asphalt 0-2", Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown, moist.	GM			FID 0.0ppm
2	CMS 423B		12	Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown, moist.	GM			FID 0.0ppm
3	CMS 423C		12	Silty sand, coarse to fine sand, brown, moist.	SM			FID 0.0ppm
4	CMS 423D		12	Gravel sand and silt, fine gravel, coarse to fine sand, brown, moist to wet at 3.5 ft bgs.	GM			FID 0.0ppm
5	CMS 423E		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, brown wet.	GM			FID 1.5ppm
	CMS 423F		12	Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown wet	GM			FID 2.5ppm

NOTES

 Drilling Contractor Zebra

 Drilling Equipment Geoprobe

Driller _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centricale Manor, North Providence R.	
BORING NUMBER: CMS 423	COORDINATES:	DATE:
ELEVATION:	GWL: Depth Date/Time	DATE STARTED: 7/7/99
ENGINEER/GEOLOGIST: B. Bowen	Depth Date/Time	DATE COMPLETED: 7/7/99
DRILLING METHODS: Geoprobe	PAGE 2 OF 2	

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
7	CMS 423G		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, brown, wet.	GM			FID 1.0ppm
8	CMS 423H		12	Gravel, sand and silt, fine gravel, coarse to fine sand, brown, wet.	GM			FID 0.0ppm EOB 8ft
9								
10								

NOTES

Drilling Contractor: Zebra
 Drilling Equipment: Geoprobe
 Driller:



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centerville Manor, North Providence RI		
BORING NUMBER: CMS 4260	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/7/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 7/7/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 426A		12	Fill, Asphalt 0-2", Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown, moist.	GM			FID 0.0ppm
2	CMS 426B		12	Gravel sand and silt, organic material, rootlets, medium to fine gravel, coarse to fine sand, dark brown, moist.	GM			FID 0.0ppm
3	CMS 426C		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, brown, moist	GM			FID 0.0ppm
4	CMS 426D		12	Gravel sand and silt, fine gravel, coarse to fine sand, brown, moist to wet at 4ft.	GM			FID 0.0ppm
5	CMS 426E		12	Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown wet.	GM			FID 0.0ppm
	CMS 426F		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, brown, wet.	GM			FID 0.0ppm

NOTES:

Drilling Contractor Zebra
 Drilling Equipment Geoprobe
 Driller _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence R.		
BORING NUMBER: CWS 426	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/7/99
ENGINEER/GEOLOGIST: B. Brown	Depth	Date/Time	DATE COMPLETED: 7/7/99
DRILLING METHODS: Geoprobe			PAGE 2 OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
7	CWS 426G		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, brown, wet.	GM			FID 0.0ppm
8	CWS 426H		12	Gravel, sand and silt, fine gravel, coarse to fine sand, grayish brown, wet.	GM			FID 0.0ppm EOB 8ft
9								
10								
11								

NOTES:

Drilling Contractor Zebra
Drilling Equipment Geoprobe
Driller: _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782 893</u>	PROJECT NAME: <u>Centerville Manor, North Providence RI</u>		
BORING NUMBER: <u>CMS-425</u>	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: <u>7/8/99</u>
ENGINEER/GEOLOGIST: <u>B. Bowen</u>	Depth	Date/Time	DATE COMPLETED: <u>7/8/99</u>
DRILLING METHODS: <u>Geoprobe</u>			PAGE <u>1</u> OF <u>2</u>

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 425A		12	Fill, Asphalt 0-2", Gravel, sand and silt, coarse to fine gravel, coarse to fine sand, ~~sand~~ brown, moist.	GM			PID 0.0ppm
2	CMS 425B		12	Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown to tan, moist	GM			PID 0.0ppm
3	CMS 425C		12	Gravel, sand and silt, fine gravel, coarse to fine sand, dark brown, moist.	GM			PID 0.0ppm
4	CMS 425D		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, brown, moist to wet at 4ft.	GM			PID 0.0ppm
5	CMS 425E		12	Gravel, sand and silt, fine gravel, coarse to fine sand, dark brown, wet.	GM			PID 0.0ppm
	CMS 425F		12	Gravel, sand and silt, fine gravel, coarse to fine sand, brown, wet	GM			PID 0.0ppm

NOTES

Drilling Contractor Zebra
 Drilling Equipment Geoprobe
 Driller _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER:	782 893	PROJECT NAME:	Centricale Manor, North Providence RI
BORING NUMBER:	CMS-425	COORDINATES:	DATE:
ELEVATION:		GWL: Depth	Date/Time
ENGINEER/GEOLOGIST:	B. Bowen	Depth	Date/Time
DRILLING METHODS:	Geoprobe		DATE COMPLETED: 7/8/99
			PAGE 2 OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
7	CMS 4256		12	Gravel sand and silt, medium to fine gravel, coarse to fine sand, dark brown, wet.	GM			PID 0.0ppm
8	CMS 4254		12	Gravel sand and silt, coarse to fine gravel, coarse to fine sand, dark brown, wet.	GM			PID 0.0ppm EOB 8ft
9								
10								
11								

NOTES

Drilling Contractor Zebra

Drilling Equipment Geoprobe

Driller _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence RI		
BORING NUMBER: CMS-429	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/8/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 7/8/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 429A		12	Fill, Asphalt 0-2", Gravel, sand and silt, coarse to fine gravel, coarse to fine sand, brown, moist.	GM			FID 0.0ppm
2	CMS 429B		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, dark brown, moist.	GM			FID 0.0ppm
3	CMS 430C		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, dark brown, moist.	GM			FID 52ppm
4	CMS 430D		12	Silty sand, medium to fine sand, dark brown, moist to wet at 4ft.	SM			FID 15ppm
5	CMS 430E		12	Silty sand, coarse to fine sand, brown to dark brown, wet.	SM			FID 7ppm
	CMS 430F		12	Silty sand, coarse to fine sand, brown, wet.	SM			FID 0ppm

NOTES:

Drilling Contractor: Zebra

Drilling Equipment: Geoprobe

Driller:

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782 893</u>	PROJECT NAME: <u>Centredale Manor North Providence R.I.</u>		
BORING NUMBER: <u>CMS-429</u>	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: <u>7/8/99</u>
ENGINEER/GEOLOGIST: <u>B. Bowen</u>	Depth	Date/Time	DATE COMPLETED: <u>2/8/99</u>
DRILLING METHODS: <u>Geoprobe</u>			PAGE <u>2</u> OF <u>2</u>

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
7	CMS 4306		12	Silty sand, coarse to fine sand, brown, wet.	SM			FID 5ppm
8	CMS 4304		12	Gravel, sand and silt, granite cobble, medium to fine gravel, coarse to fine sand, dark brown, wet	GM			FID 0ppm
9								
10								
11								

NOTES:

Drilling Contractor _____

Drilling Equipment _____

Order _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782 893</u>	PROJECT NAME: <u>Centredale Manor, North Providence RI</u>		
BORING NUMBER: <u>CMS 421</u>	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: <u>7/8/99</u>
ENGINEER/GEOLOGIST: <u>B. Bowen</u>	Depth	Date/Time	DATE COMPLETED: <u>7/8/99</u>
DRILLING METHODS: <u>Geoprobe</u>			PAGE <u>1</u> OF <u>2</u>

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 421A		12	Fill, Asphalt 0-2", Gravel sand and silt, medium to fine gravel and sand, brown moist.	GM			FID 0.0ppm
2	CMS 421B		11	5" Gravel sand and silt, same as above then 6" silty sand, coarse to fine sand, dark gray, moist.	GM SM			FID 0.0ppm
3	CMS 421C		12	Silty sand, medium to fine sand, dark gray with white streaks, rootlets moist	SM			FID 0.0ppm
4	CMS 421D		12	Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown, wet at 3.5 ft.	GM			FID 1.5ppm
5	CMS 421E		12	Gravel, sand and silt, coarse to fine gravel, coarse to fine sand, dark gray, wet	GM			FID 0.0ppm
	CMS 421F		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, dark gray, wet.	GM			FID 0.0ppm

NOTES

Drilling Contractor Zebra
 Drilling Equipment Geoprobe
 Driller _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER:	782 893	PROJECT NAME:	Centredale, Maine - North Providence			
BORING NUMBER:	CMS 421	COORDINATES:			DATE:	
ELEVATION:		GWL: Depth	Date/Time	DATE STARTED:		7/8/99
ENGINEER/GEOLOGIST:	B. Bowen	Depth	Date/Time	DATE COMPLETED:		7/8/99
DRILLING METHODS:	Geoprobe				PAGE	2 OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
7	CMS 4216		12	Gravel sand and silt, coarse to fine gravel, coarse to fine sand, dark gray, wet.	GM			FID 0.0ppm
8	CMS 4214		12	Gravel sand and silt, coarse to fine gravel, coarse to fine sand, dark gray, wet.	GM			FID 2.5ppm EOB 8ft
9								
10								
11								

NOTES

Drilling Contractor Zebra

Drilling Equipment Geoprobe

Driller: _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence R.I.		
BORING NUMBER: CMS-430	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/9/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 7/9/99
DRILLING METHODS: Exoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 430A		12	Fill. #Grass 0-2", Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown, moist.	GM			PID 0.0ppm
2	CMS 430B		12	Gravel, sand and silt, coarse to fine gravel, coarse to fine sand, brown, moist.	GM			PID 0.0ppm
3	CMS 430C		12	Gravel, sand and silt, fine gravel, coarse to fine sand, Dark brown, wet.	GM			PID 0.0ppm EOB 3ft
4								
5								

NOTES:

Drilling Contractor Zebra
 Drilling Equipment Geoprobe
 Driller _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence RI		
BORING NUMBER: CMS-431	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/9/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 7/9/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (in)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 431A		12	Fill Grains 0-2", Gravel sand and silt, medium to fine gravel, coarse to fine sand, brown, moist.	GM			PID 0.0ppm
2	CMS 431B		12	Sandy silt, coarse to fine sand, wood debris, fine sand, brown, moist.	SM			PID 0.0ppm
3	CMS 431C		12	Silty sand, wood fragments coarse to fine sand, dark brown, wet at 3ft.	SM			PID 3.4ppm EOB 3ft
4	CMS 431D		12					
5								

NOTES

Drilling Contractor Zebra
 Drilling Equipment Geoprobe
 Driller _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782 893</u>	PROJECT NAME: <u>Centerville Manor, North Providence R.I.</u>	
BORING NUMBER: <u>CMS-432</u>	COORDINATES:	DATE:
ELEVATION:	GWL: Depth Date/Time	DATE STARTED: <u>7/9/99</u>
ENGINEER/GEOLOGIST: <u>B. Bowen</u>	Depth Date/Time	DATE COMPLETED: <u>7/9/99</u>
DRILLING METHODS: <u>Geoprobe</u>		PAGE <u>1</u> OF <u>1</u>

DEPTH (ft.)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 432A		12	Fill, Gravel 0-2", Gravel, sand and silt, Brick-concrete debris, coarse to fine gravel, coarse to fine sand, dark brown, moist.	GM			PID 0.0ppm
2	CMS 432B		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, brown, moist.	GM			PID 0.0ppm
3	CMS 432C		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, grayish brown, moist.	GM			PID 0.0ppm
4	CMS 432D		12	Gravel, sand and silt, brick fragments, medium to fine gravel, coarse to fine sand, dark brown, moist.	GM			PID 0.0ppm
5	CMS 432E		12	Silty sand, coarse to fine sand, gray, wet.	SM			PID 0.0ppm EOB 5ft.

NOTES

Drilling Contractor Zebra
 Drilling Equipment Geoprobe
 Driller _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782-893	PROJECT NAME: Centredale Manor North Providence RI		
BORING NUMBER: CMS-442	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/13/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 7/13/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 442A			Silty sand, coarse to fine sand, rootlets, brown, moist	sn			PID 0.0ppm EOB 1ft Refusal
2								
3								
4								
5								

NOTES

Drilling Contractor Zebra

Drilling Equipment Geoprobe

Driller _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782 893</u>	PROJECT NAME: <u>Centreale Manor, North Providence RI</u>	
BORING NUMBER: <u>CMS 439</u>	COORDINATES:	DATE:
ELEVATION:	GWL: Depth Date/Time	DATE STARTED: <u>7/13/99</u>
ENGINEER/GEOLOGIST: <u>B. Bowen</u>	Depth Date/Time	DATE COMPLETED:
DRILLING METHODS: <u>Geoprobe</u>		PAGE <u>1</u> OF <u>1</u>

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 439A		12	Silty sand, coarse to fine sand, rootlets, brown, moist.	SM			PID 0.0ppm
2	CMS 439B		12	Silty sand, coarse to fine sand, rootlets, brown, wet at 2ft.	SM			PID 0.0ppm
3								
4								
5								

NOTES

Drilling Contractor Zebra
 Drilling Equipment Geoprobe
 Driller _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence RI		
BORING NUMBER: CMS-438	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/13/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 7/13/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 438A		12	Silty sand, coarse to fine sand, rootlets, brown, moist	SM			PID 0.0ppm
2	CMS 438B		12	Silty sand, coarse to fine sand, rootlets, brown	SM			PID 0.0ppm EOB 2ft
3	CMS 438C							
4								
5								

NOTES

Drilling Contractor Zebra

Drilling Equipment Geoprobe

Driller _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor		
BORING NUMBER: Cms 446	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/14/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 7/14/99
DRILLING METHODS: Stainless Steel Travel			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	Cms 446H		3"	Gravel sand and silt, Coarse to fine gravel, coarse to fine sand, brown, dry	GM			FID 0.0ppm EOB 3"
2								
3								
4								
5								

NOTES

Drilling Contractor NA

Drilling Equipment NA

Order _____



US EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 447		3"	Gravel sand and silt, coarse to fine gravel, coarse to fine sand, brown, clay.	GM			FID 0.0ppm EOB 3"
2								
3								
4								
5								

Drilling Contractor N/A
Drilling Equipment N/A
Driller

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782 893</u>	PROJECT NAME: <u>Centredale Manor North Providence RI</u>		
BORING NUMBER: <u>CMS-023</u>	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: <u>7/14/97</u>
ENGINEER/GEOLOGIST: <u>B. Bowen</u>	Depth	Date/Time	DATE COMPLETED: <u>7/14/97</u>
DRILLING METHODS: <u>Geoprobe</u>			PAGE <u>1</u> OF <u>1</u>

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 023A		12	Gravel sand and silt, rootlets, medium to fine sand, brown, moist.	GM			FID 0.0ppm
2	CMS 023B		12	Silty sand, medium to fine sand, rootlets, brown, moist.	SM			FID 0.0ppm
3	CMS 023C		12	Silty sand, medium to fine sand, brown, wet.	SM			FID 0.0ppm EOB 3ft.
4								
5								

NOTES

Drilling Contractor: Zebra

Drilling Equipment: Geoprobe

Driver: _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centruole Manor, North Providence RI		
BORING NUMBER: CMS-024	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/14/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 7/14/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 024A		12	Gravel, sand and silt, brown moist.	GM			FID 0.0ppm
2	CMS 024B		12	Sandy silt, medium to fine sand, dark brown, wet.	SM			FID 0.0ppm EOB 2ft
3								
4								
5								

NOTES:

Drilling Contractor: Zebra

Drilling Equipment: Geoprobe

Driller: _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence R.I.		
BORING NUMBER: CMS 445	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/19/99
ENGINEER/GEOLOGIST: R. Bowen	Depth	Date/Time	DATE COMPLETED: 7/19/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 455A		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, rootlets, brown moist.	GM			PID 0.0ppm EOB 1ft.
2								
3								
4								
5								

NOTES:

Drilling Contractor Zebon
 Drilling Equipment Geoprobe
 Driller _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centerville Manor, North Providence RI	
BORING NUMBER: CMS 444	COORDINATES:	DATE:
ELEVATION:	GWL: Depth Date/Time	DATE STARTED: 7/14/99
ENGINEER/GEOLOGIST: B. Bowen	Depth Date/Time	DATE COMPLETED: 7/14/99
DRILLING METHODS: Geoprobe	PAGE 1 OF 1	

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 444A		12	Gravel sand and silt, medium to fine gravel, coarse to fine sand, rootlets, brown, moist	Gm	/	/	PID 0.0ppm EOB 1ft Refers
2								
3								
4								
5								

NOTES:

Drilling Contractor E. Zeb. u
 Drilling Equipment Geoprobe
 Driller _____



INTERNATIONAL
TECHNOLOGY
CORPORATION

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centredale Manor, North Providence R.I.		
BORING NUMBER: CMS-443	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/14/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 7/14/99
DRILLING METHODS:			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 443A			Silty sand, coarse to fine sand, brown, moist.	SM			PIED 0.0ppm EOB 1 ft below
2								
3								
4								
5								

NOTES

Drilling Contractor: Zebra

Drilling Equipment: Geoprobe

Driller:



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893	PROJECT NAME: Centerville Manor, North Providence, RI		
BORING NUMBER: CMS 455	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/19/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 7/19/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1			12	2" Asphalt, Gravel, sand, and silt, medium to fine gravel, coarse to fine sand, brown to orange brown, moist	GM			No sample collected.
2			12	Gravel, sand, and silt, medium to fine sand, coarse gravel, coarse to fine sand, iron & brown to brown, moist.	GM			No sample collected.
3	CMS 455C		12	Gravel, sand, and silt, medium to fine gravel, coarse to fine sand, dark brown, moist to wet.	GM			FID = 15 ppm
4	CMS 455D		12	Gravel, sand and silt, fine gravel, coarse to fine sand, dark brown, moist.	GM			FID = 12 ppm.
5	CMS 455E		12	Silty sand, coarse to fine sand, dark brown, moist to wet at 5 ft	SM			Sample not screened
6	CMS 455F		12	6" Silty sand, medium to fine sand, dark brown, wet. 6" Gravel, sand silt, medium to fine sand medium to fine gravel, wet	SM GM			FID = 1.5 ppm.

NOTES

Drilling Contractor: Z & D

Drilling Equipment: Geoprobe

Driller:



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782893</u>	PROJECT NAME: <u>Centredale Manor, North Providence, RI</u>		
BORING NUMBER: <u>CMS 455</u>	COORDINATES:	DATE: <u>7/19/99</u>	
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: <u>7/19/99</u>
ENGINEER/GEOLOGIST: <u>P. Bowen</u>	Depth	Date/Time	DATE COMPLETED: <u>7/19/99</u>
DRILLING METHODS: <u>Geoprobe</u>			PAGE <u>2</u> OF <u>2</u>

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
7	CMS 455G		12	Gravel, sand, and silt, medium to fine gravel, coarse to fine sand. tan, wet.	GM			FID = 1.5 ppm
8	CMS 455H		12	Silty sand, medium to fine sand. tan. wet.	SM			FID = 1.5 ppm
9	CMS 455I		12	Silty sand, coarse to fine sand, tan, wet.	SM			Sample not screen
10	CMS 455J		12	Gravel, silty sand, coarse to fine sand, medium gravel, tan, wet.	GM			FID = 7.2 ppm

NOTES

Drilling Contractor Zebra

Drilling Equipment Geoprobe

Driller: _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782 813</u>		PROJECT NAME: <u>Centredale Manor</u>	
BORING NUMBER: <u>CMS 428</u>		COORDINATES:	DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: <u>7/20/99</u>
ENGINEER/GEOLOGIST: <u>B. Brown</u>	Depth	Date/Time	DATE COMPLETED: <u>7/28/99</u>
DRILLING METHODS: <u>Geo probe</u>			PAGE <u>1</u> OF <u>1</u>

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 428A		12	Gravel, sand, and silt, 3" grass, roots, leaves, soil 9' medium to fine gravel, coarse to fine sand, brown, moist.	Gm			PI = 1.5 ppm
2	CMS 428B		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, brown to tan, moist	Gm			PI = 1.5 ppm.
3	CMS 428C		12	Gravel, sand, silt, fine gravel, coarse to fine sand - moist to wet at 3 ft.	Gm			PI = 1.5 ppm
4	CMS 428D		12	Gravel, sand, and silt. Medium to fine gravel, coarse to fine sand, brown to orange wet,	Gm			PI = 0 ppm
5	CMS 428E		12	Gravel, sand, silt. Coarse to fine gravel, coarse to fine sand, brown to orange brown wet,	Gm			PI = 1.1 ppm
5	CMS 428F		12	Gravel, sand, silt. Coarse to fine gravel, coarse to fine sand, brown, wet	Gm			PI = 0.5 ppm

NOTES:

 Drilling Contractor Zehner

 Drilling Equipment Geoprobe

Driller _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782 893.	PROJECT NAME: Centredale Mansr, North Providence, RI		
BORING NUMBER: Cms 449	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/20/99
ENGINEER/GEOLOGIST: B. Burch	Depth	Date/Time	DATE COMPLETED: 7/20/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 2

DEPTH ()	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY ()	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1				2" asphalt				
2			49	3'10" medium to fine sand and silt. Tan. moist	SM			no sample collected.
3								
4								
5	Cms 449E		12	2" medium to fine sand and silt. Tan. moist. 10" Gravel, sand, and silt. medium to fine gravel, coarse to fine sand, dark brown, moist.	SM GM			PID = 0.0 ppm
6	Cms 449F		12	Silty sand. Coarse to fine sand. Brown. moist.	SM			PID = 1.5 ppm

NOTES

Drilling Contractor 2:22

Drilling Equipment Geoprobe

Driller:



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 732 893	PROJECT NAME: Centredale Manor, North Providence, R.I.		
BORING NUMBER: CMS 449	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/20/99
ENGINEER/GEOLOGIST: B. Burch	Depth	Date/Time	DATE COMPLETED: 7/20/99
DRILLING METHODS: Geoprobe			PAGE 2 OF 2

DEPTH ()	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY ()	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
7.6	CMS 449G		12	Silty sand, coarse to fine sand, dark brown, moist.	SM			PI = 0 ppm
7.8	CMS 449H		12	Silty sand, coarse to fine sand, dark brown, moist.	SM			PI = 1.5 ppm.
8.0	CMS 449I		12	Silty sand, coarse to fine sand, dark brown, moist.	SM			PI = 0 ppm
9.0	CMS 449J		12	Gravel, sand and silt, medium to fine gravel, coarse to fine sand, dark brown, moist.	GM			PI = 0 ppm.
10.0								

NOTES

Drilling Contractor: Zedra
Drilling Equipment: Geoprobe
Driller:



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 792 993	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS 451	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/20/99
ENGINEER/GEOLOGIST: B. Bismen	Depth	Date/Time	DATE COMPLETED: 7/20/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 2

DEPTH ()	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY ()	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1				2" asphalt				
				3" Gravel, sand, and silt.				
2				3'7" Silty sand, medium to fine sand. Tan, moist.	SM			No samples collected
3			49					
4								
5	CMS 451E		12	3" Silty sand, medium to fine sand, tan, moist 9" Gravel, sand, and silt, fine gravel, coarse to fine sand. Dark brown, moist.	GM			FID = 0 ppm
6	CMS 451F		12	Gravel, sand, and silt. Fine gravel, coarse to fine sand, dark brown, moist.	GM			FID = 0 ppm

NOTES:

Drilling Contractor Zebra

Drilling Equipment Geoprobe

Driller _____



US EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
7	CMS 451G		12	Silty sand and trace gravel. Coarse to fine sand. Dark Brown moist.	SM			PI = 0 ppm
8	CMS 451H		12	Silty sand, coarse to fine sand. Dark Brown, moist	SM			PI = 0 ppm.
9	CMS 451I		12	Silty sand, coarse to fine sand. moist to wet, Dark Brown.	SM			PI = 0 ppm.
10	CMS 451J		12	Silty sand, coarse to fine sand. tan to wet	SM			PI = 0 ppm
11								

Drilling Contractor Leppa
Drilling Equipment Caspride
Driller: _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 792893	PROJECT NAME: Centredale Manor, North Providence, RI		
BORING NUMBER: CMS 456	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/20/91
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 7/20/91
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	REMARKS
1	CMS 456 A		12	Silty sand, coarse to fine sand, dark brown, wet	SM			FID = 3ppm
2	CMS 456B		12	Silty sand, coarse to fine sand and organics, dark brown, wet	SM			Sample not screened
				Refusal at 2 ft				

NOTES:

Drilling Contractor: Zebra
Drilling Equipment: ~~in Ground~~ Hand Auger
Driller:



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 792 893	PROJECT NAME: Centredale Manor, North Providence RI		
BORING NUMBER: CMS 449	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/20/99
ENGINEER/GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 7/20/99
DRILLING METHODS: Geoprobe			PAGE 1 OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 448A		12	2" asphalt 10" Silty sand, medium to fine sand, tan, moist	SM			FID=0 ppm
2	CMS 448B		12	Silty sand, medium to fine sand, tan, moist	SM			FID=0 ppm
3	CMS 448C		12	Silty sand, medium to fine sand, tan, moist	SM			FID=0 ppm
4	CMS 448D		12	Silty sand, medium to fine sand, tan, moist.	SM			FID=0 ppm
5	CMS 448E		12	Silty sand, medium to fine sand, tan, moist.	SM			FID=0 ppm
6	CMS 448F		12	Silty sand, medium to fine sand, moist, tan.	SM			FID=0 ppm

NOTES

Drilling Contractor: Zebra
Drilling Equipment: Geoprobe
Driller:

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>752893</u>		PROJECT NAME: <u>Centredale Manor, North Providence, R.I.</u>	
BORING NUMBER: <u>CMS 454</u>		COORDINATES:	DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: <u>7/21/99</u>
ENGINEER/GEOLOGIST: <u>B. Brown</u>	Depth	Date/Time	DATE COMPLETED: <u>7/21/99</u>
DRILLING METHODS: <u>Geoprobe</u>			PAGE <u>1</u> OF <u>1</u>

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
			12	2" asphalt 12" silty sand, medium to fine sand, tan, moist	SM			No sample collected.
1	CMS 454B		12	Gravel, sand, and silt, medium to fine gravel, coarse to fine sand. Dark Brown, moist	GM			PI = 0 ppm
2	CMS 454C		12	Gravel, sand, silt, medium to fine gravel, coarse to fine sand. Dark Brown, moist	GM			PI = 0 ppm
3	CMS 454D		12	Gravel, sand, silt, fine gravel, coarse to fine sand. Dark Brown, moist	GM			PI = 0 ppm
4	CMS 454E		12	Silty sand, coarse to fine sand, tan to light tan light brown, moist	SM			PI = 0 ppm
5	CMS 454F		12	Silty sand, coarse to fine sand, tan to light brown, moist	SM			PI = 0. Refusal at 64 due to granite rubble & shales

NOTES:

Drilling Contractor: Zebra

Drilling Equipment: Geoprobe

Driller: _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782 893</u>		PROJECT NAME: <u>Centredale Manor, North Providence RI</u>	
BORING NUMBER: <u>CMS 450</u>		COORDINATES:	DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: <u>7/21/99</u>
ENGINEER/GEOLOGIST: <u>B. Bowen</u>	Depth	Date/Time	DATE COMPLETED: <u>7/21/99</u>
DRILLING METHODS: <u>Geoprobe</u>			PAGE <u>1</u> OF <u>2</u>

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (T:1)	WELL CONSTRUCTION	REMARKS
1			12	Silty sand, medium to fine sand, tan, moist	SM			No sample collected
2			12					
3			12					
4	CMS 450D		12	Gravel, sand, silt. medium to fine gravel, coarse to fine ^{tan} sand. Dark brown, moist	GM			FID=0ppm
5	CMS 450E		12	Gravel, sand, and silt, medium to fine gravel, coarse to fine sand. Dark brown, moist	GM			FID=0ppm
6	CMS 450F		12	Gravel, sand, and silt. medium to fine gravel, coarse to fine sand. Dark brown, moist	GM			FID=0ppm

NOTES:

Drilling Contractor: Zebra

Drilling Equipment: Geoprobe

Driller: _____



US EPA ARCHIVE DOCUMENT

DEPTH (ft.)	SAMPLE TYPE & NO	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
7	CM5 450 G		12	Gravel, Sand, and Silt, medium to fine gravel. Coarse to fine sand. Dark Brown, moist.	Gm	/	/	FID = 0 ppm.
8	CM5 450 H		12	Gravel, Sand, and Silt, medium to fine ~~Gravel~~ Gravel, medium to fine sand. Dark Brown, moist.	Gm	/	/	FID = 0 ppm
9	CM5 450 J		12	Gravel, Sand, and Silt, medium to fine gravel. Coarse to fine sand. Dark Brown Wet.	Gm	/	/	FID = 0 ppm
9	CM5 450 J		12	Gravel, Sand, and Silt, medium to fine gravel. Coarse to fine Sand. Dark Brown, Wet.	Gm	/	/	FID = 0 ppm
10								

Drilling Contractor Lebra
Drilling Equipment Geoprobe
Diller _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER	292 473	PROJECT NAME	Centredale Manor, North Providence RI
BORING NUMBER:	CM5 453	COORDINATES:	
ELEVATION:		GWL. Depth	Date/Time
ENGINEER/GEOLOGIST:	B. Rosen	Depth	Date/Time
DRILLING METHODS		PAGE	1 OF 2

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1			12	12" asphalt. Silty sand, medium to fine sand tan, moist.				913 sample collected
2			12					
3			12					
4	CM5 453 D		12	Gravel, Sand, and Silt. Fine gravel. Coarse to fine sand. Dark Brown, moist.	GM			FID = 0 ppm.
9	CM5 453 E		12	Gravel, Sand, and Silt. Fine gravel, coarse to fine sand. Dark Brown, moist.	GM			FID = 12.5 ppm.
5	CM5 453 F		12	Gravel, Sand and Silt. fine gravel, coarse to fine sand. Dark Brown, moist.	GM			FID = 13.5 ppm.

NOTES:

Drilling Contractor Zebra

Drilling Equipment Geoprobe

Driller: _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>75-993</u>		PROJECT NAME: <u>Centredale Manor, North Providence RI</u>	
BORING NUMBER: <u>CR: 452</u>		COORDINATES:	DATE:
ELEVATION:		GWL: Depth Date/Time	DATE STARTED: <u>7/21/91</u>
ENGINEER/GEOLOGIST: <u>F. GSWEN</u>		Depth Date/Time	DATE COMPLETED: <u>7/21/91</u>
DRILLING METHODS: <u>Geoprobe</u>			PAGE: <u>1</u> OF <u>2</u>

DEPTH (ft.)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1			12	2" Geoprobe Silty sand. Medium to fine sand. Tan. ^{SP} moist.				No sample collected
2			12					
3			12					
4			12					
4	CRS 452E		12	Gravel, Sand, and silt, Medium to fine gravel, Coarse to fine sand. + brick fragments. Dark Brown. Moist.	GM	/	/	FID=0 ppm
5	CRS 452F		12	Gravel, Sand, Silt. Fine gravel, Coarse to fine sand.				FID=12 ppm

NOTES:

Drilling Contractor: Zebra

Drilling Equipment: Geoprobe

Driller: _____

PROJECT NUMBER: 782911	PROJECT NAME: Centredale Mns.	
BORING NUMBER: CMS 452	COORDINATES:	DATE:
ELEVATION:	GWL: Depth Date/Time	DATE STARTED: 7/21/99
ENGINEER/GEOLOGIST: B. B. Green	Depth Date/Time	DATE COMPLETED: 7/21/99
DRILLING METHODS: Geoprobe	PAGE 2 OF 2	

NOTES

Drilling Contractor Zebra

Drilling Equipment Geoprobe

Driller: _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: <u>782 493</u>	PROJECT NAME: <u>Centredale Manor, North Providence RI</u>		
BORING NUMBER: <u>CMS 215</u>	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: <u>7/24/91</u>
ENGINEER/GEOLOGIST: <u>B. Bower</u>	Depth	Date/Time	DATE COMPLETED: <u>7/24/91</u>
DRILLING METHODS: <u>Geoprobe</u>	PAGE		1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 2.5A (MS/MIS)		12	Silty sand, organic material. Fine sand. Brown, moist.	SM			PID = 0 ppm
2	CMS 2.5B CMS 2.5BGP		12	Silty sand and organic material. Fine sand. Brown, wet.	SM			PID = 0 ppm
3	CMS 2.5C CMS 2.5C-GC		12	6" Silty sand and organic material. Fine sand. Brown, wet. 6" Fine to medium sand, light brown to grey, wet.	SM			~~Sample is SP~~ ~~Sample is SP~~ PID = 0 ppm
4	CMS		12	Silty sand, coarse to fine sand, brown, wet.	SM			PID = 0 ppm
				water table at 4 ft bgs.				

NOTES:

Drilling Contractor Zebra

Drilling Equipment Geoprobe

Driller: _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER	782 895	PROJECT NAME:	Centredale Manor, North Providence, R.I.
BORING NUMBER	CMS 457	COORDINATES:	DATE:
ELEVATION:		GWL: Depth	Date/Time
ENGINEER/GEOLOGIST:	B. Kinn	Depth	Date/Time
DRILLING METHODS:	Geoprobe	PAGE	1 OF 1

DEPTH (/2)	SAMPLE TYPE & NO	BLOWS ON SAMPLE PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 457A		12	~~Coarse to fine sand, gravel, sand, silt, and clay.~~ Coarse to fine gravel. Coarse to fine sand. Brown	G-M	/	/	P/O = approx.
2				Refuse at 1 foot bgs.				
3								
4								
5								

NOTES:

Drilling Contractor Zebec

Drilling Equipment Geoprobe

Driller: _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 782993	PROJECT NAME: Centerville, North Providence, RI		
BORING NUMBER: CMS 458	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/25/91
ENGINEER GEOLOGIST: B. Bowen	Depth	Date/Time	DATE COMPLETED: 7/25/91
DRILLING METHODS: Geoprobe			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	UNCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 458A			Gravel Sand and S. + Coarse to Fine gravel, Coarse to fine sand. Brown	GTR			P10=0
				Refusal at 1 ft 7 in. SPT				

NOTES:

Drilling Contractor: Zebra

Drilling Equipment: Geoprobe

Driller:



US EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CGMS 4522		10	Gravel, Sand, and silt - fine sand, Coarse to fine ~~silt~~ sand, tan, med. Refusal at 10" dia to concrete	GM			P 10 = 68 p.m.

Drilling Contractor Zabr.
Drilling Equipment Geoprobe
Driller: _____



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 792915	PROJECT NAME: Captredale Manor, Norw. Providence RI		
BORING NUMBER: CM5 468	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date: Time	DATE STARTED: 7/27/99
ENGINEER GEOLOGIST: B. Brown	Depth	Date: Time	DATE COMPLETED: 7/27/99
DRILLING METHODS: Geoprobe & Hand Auger			PAGE 1 OF 1

DEPTH (ft)	SAMPLE TYPE AND NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CORRECTION	REMARKS
1	CM5 468		TL	Coarse sand, gravelly silt. mod. to fine rounded gravel, coarse to fine sand. Brown br.	GM			F 10 = 5 ppm
2								
3								
4								
5								

NOTES:

Drilling Contractor: Zebra

Drilling Equipment: Hand Auger

Driller:



US EPA ARCHIVE DOCUMENT

[illegible]

Drilling Contractor Zebra
Drilling Equipment Hand Auger
Driller: _____



US EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WATER CONTENT (%)	REMARKS
1	CMS 477 A		12	Sandy silt, fill, and fine sand. Brown, Dry.	SM			FID = 0 ppm
2	CMS 477 B		12	Silt, fill, and sand. silt, fine sand, gray-s. brown, dry to moist.	SM			FID = 0 ppm
3			12	Refused at 2 ft off at 7 location in 10 ft radius of original hole	SM			no sample collected
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Drilling Contractor Lebrun
Drilling Equipment Hammer
Driller: _____

VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 792815		PROJECT NAME: Centigale Manor, North Providence, RI	
BORING NUMBER: CMS 471		COORDINATES:	
ELEVATION		GWL Depth	Date/Time
ENGINEER/GEOLOGIST: B. Borer		Depth	Date/Time
DRILLING METHODS: Hand Auger		DATE STARTED: 7/29/99	
		DATE COMPLETED: 7/29/99	
		PAGE 1 OF 1	

DEPTH (ft)	SAMPLE TYPE & NO	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CM5 471 A		12	Silty sand, medium to fine sand, ~~very~~ moist, dark brown, wet. 0-10' Dark brown, 10-15" Tan.	SM			FID = 2 ppm
2	CM5 471 B		12	Silty sand, coarse to fine sand, dark brown, wet.	SM			FID = 2 ppm
3	CM5 471 C		16 SAL		SM			FID = 2 ppm
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

NOTES:

Drilling Contractor Zoban

Drilling Equipment Hand Picked

Driller: _____



US EPA ARCHIVE DOCUMENT

[illegible]

Drilling Contractor Zebra
Drilling Equipment Hard Boyer
Driller _____



US EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CM5 473A		12	~~2" fish, nails, weeds and grass. Tentative dry.~~ 0"-2" grass and weeds. 2"-2" fish, nails. tentative dry.	-	/	/	1-30 = 5 ppn.
2								

Drilling Contractor Zebra
Drilling Equipment Hand Auger
Driller: _____

PROJECT NUMBER: 752 895	PROJECT NAME: Contradale Mar., North Providence.		
BORING NUMBER: CMS 474	COORDINATES		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/29/99
ENGINEER GEOLOGIST: B. Power	Depth	Date/Time	DATE COMPLETED: 9/29/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

NOTES:

Drilling Contractor Zeban

Drilling Equipment Hand auger

Driller: _____



US EPA ARCHIVE DOCUMENT

[illegible]

Drilling Contractor Leben
Drilling Equipment Hand Auger
Driller: _____



US EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	5ms 475 A		12	0-2" grass roots. 2"-12" Gravel, some sand silt w/ fill, glass, and metal. Medium to fine gravel.	GP	/	/	FO = 8ppm

Drilling Contractor Lepra
Drilling Equipment Hand Auger
Driller

PROJECT NUMBER: 752 893	PROJECT NAME: Centradale Manor North Providence, RI		
BORING NUMBER: CTS 478	COORDINATES:		DATE
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/29/11
ENGINEER/GEOLOGIST: B. Dwyer	Depth	Date/Time	DATE COMPLETED: 8/24/11
DRILLING METHODS: Hand auger			PAGE 1 OF 1

NOTES:

Drilling Contractor Zebron

Drilling Equipment Hand Auger

Driller _____



US EPA ARCHIVE DOCUMENT

[illegible]

Drilling Contractor: Zebron
Drilling Equipment: Hard Edge
Driller: _____



US EPA ARCHIVE DOCUMENT

[illegible]

Driver: _____

PROJECT NUMBER: 792-833	PROJECT NAME: Concrete manure, North Providence, RI		
BORING NUMBER: CM3 492	COORDINATES:		DATE:
ELEVATION:	GWL: Depth	Date/Time	DATE STARTED: 7/30/99
ENGINEER/GEOLOGIST: J. Brown	Depth	Date/Time	DATE COMPLETED: 7/30/99
DRILLING METHODS: Hand Auger			PAGE 1 OF 1

NOTES:

Drilling Contractor Zebra

Drilling Equipment High Angle

Driller: _____



US EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 454 A		12	Silty Sand. Coarse to fine sand. Brown, moist	SM	/	/	F _{SC} = 0 pps
2	CMS 484 B		12		SM	/	/	F _{SC} = 0 pps
3			12	V	M	/	/	F _{SC} = 0 pps

Drilling Contractor Zebrn
Drilling Equipment Hand Auger
Driller _____



US EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WET CONSTRUCTION	REMARKS
1.05 - 1.35 1.2			12	Gravel, sand, and silt. Medium to fine gravel, coarse to fine sand. Brown, m. s.	GW	/	/	J.T.D. = 2 p.p.m.

Drilling Contractor 220-12
Drilling Equipment High Angle Rig
Driller _____



US EPA ARCHIVE DOCUMENT

[illegible]

Drilling Contractor Esso
Drilling Equipment Hand Auger
Driller _____



US EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMC 454A			3-2" Gravel and Rotten 2-12" Gravel, Sand, and Silt, medium to fine gravel. Coarse to medium. Brown clay.	GM			FIG = 3 p.p.m.

Drilling Contractor 23110
Drilling Equipment Hand Auger
Diameter _____



US EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 437 F			Grass and roots. Gravel, sand, and silt, medium to fine grain, coarse to fine sand. brown, dry	GM	/	/	FLP = 0 ppm

Drilling Contractor Zebra
Drilling Equipment Hardy Rig
Driller: _____



US EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CMS 490A		100	0-2" rootlets. 2-12" Gravel, sand, silt, fine gravel, coarse to fine sand. Cobble, fill, Brown, Dry.	Gm	/	/	FID = 0 ppm
2	CMS 490B		100	Gravel, Sand, silt, Cobble. Coarse to fine sand. Brown. Dry	Gm	/	/	FID = 0 ppm

0.00



US EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
	CMS 4916		12	0-2" Gravel 2-12" Gravel sand, and 1/2 med. to fine gravel coarse to fine sand. Brown, dry	Sm			FIP = 3 ppm

Drilling Contractor _____
Drilling Equipment Hand Rig
Driller: _____



US EPA ARCHIVE DOCUMENT

[illegible]

Dr. er: _____



US EPA ARCHIVE DOCUMENT

[illegible]

Drilling Contractor _____
Drilling Equipment Hand Auger
Driller: _____



US EPA ARCHIVE DOCUMENT

[illegible]

Drilling Contractor _____
Drilling Equipment Hand Auger
Driller: _____



US EPA ARCHIVE DOCUMENT

[illegible]

Drilling Contractor _____
Drilling Equipment Arctia Hord A Bore
Driller _____



US EPA ARCHIVE DOCUMENT

[illegible]

Drilling Contractor _____
Drilling Equipment: Hand Auger
Driller _____



US EPA ARCHIVE DOCUMENT

[illegible]

Drilling Contractor _____
Drilling Equipment Hand Auger
Driller _____



US EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	cms 499A			0-4' Sand, silt & organics ~~F~~ fine sand. Dark Brown 12 3-12" Sand and silt; fine sand. Light Tan.	SM			FI0-5ppm

Driller: _____



US EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
5.75 5.50 5.25			1/2	~~Silt~~ Silty silt, fine sand Lignite	SM			FID = 3.8%

Drilling Contractor _____
Drilling Equipment Hand Auger
Driller: _____



US EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
	C70- 501A		72	Sandy Silt. Finesand, Light tan.	SM	/	/	F16=0ppm.

Drilling Contractor _____
Drilling Equipment Hand Auger
Driver: _____



U.S. EPA ARCHIVE DOCUMENT

[illegible]

Drilling Contractor _____
Drilling Equipment Hand Auger
Driller: _____



US EPA ARCHIVE DOCUMENT

[illegible]

Drilling Contractor _____
Drilling Equipment: Hand Auger
Driller: _____



U.S. EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
	CMS 497A		12	0-3" Sand & silt. finesand. w/organics. Dark Brown. 3-12" Sand & silt. Fine sand. Light tan.	SM			FID = 0 ppm

Drilling Contractor _____
Drilling Equipment Hand Auger
Driller: _____



US EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	Cms 408A		12	0-3" sand and silt and organics. Fine sand. Dark Brown. 3-12" sand and silt. Fine sand. - lignite.	SM			F10 = Off m.

Drilling Contractor _____
Drilling Equipment Hand Rig
Driller: _____



U.S. EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (ISI)	WELL CONSTRUCTION	REMARKS
1	cms 499A			0-2' Sand, silt and Organics. Fine Sand Dark Brown. 12 3-12" Sand and Silt; Fine sand. Light Tan.	SM			FI0=5ppm

Drilling Contractor _____
Drilling Equipment Hand Auger
Driller: _____



US EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
5.75 40.50 5.75			1/2	1/2 Silt, Silty silt, Fine sand - 19.1% - 100%	SM			FID = 0.0 ppm

Drilling Contractor _____
Drilling Equipment Hand Auger
Driller: _____



US EPA ARCHIVE DOCUMENT

[illegible]

Drilling Contractor _____
 Drilling Equipment Hand Auger
 Driller: _____



CONSTITUTIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	CM5 505A		12	Gravel, sand, and silt. fine gravel. fine sand. gray brown.	Gm			Sample Not Screened

Drilling Contractor _____
Drilling Equipment Hand Auger
Driller: _____



U.S. EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1	505A		12	Sand and silt. fine sand. Light brown - some roots.	SM			Sample not screened

Drilling Contractor _____

Drilling Equipment _____

Driller _____



U.S. EPA ARCHIVE DOCUMENT

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
	CRS-1 X-056 R1 A		R	Gravel, sand, and silt. Fine gravel. Fine sand. Light brown	GM			F10 not used, not functioning.

Drilling Contractor _____
Drilling Equipment Hand Auger
Driver _____



U.S. EPA ARCHIVE DOCUMENT

[illegible]

Caller: _____



US EPA ARCHIVE DOCUMENT

[illegible]

Drilling Contractor _____
Drilling Equipment Hand Auger
Driller: _____