

BORING LOGS

VTrans Working to Get You There
 STATE OF VERMONT
 AGENCY OF TRANSPORTATION
 MATERIALS & RESEARCH SECTION
 SUBSURFACE INFORMATION

BORING NUMBER: B-103
 SHEET 1 of 1
 DATE STARTED: 3/19/09
 DATE COMPLETED: 3/19/09

PROJECT NAME: SOUTH BURLINGTON-WINOOSKI
 SITE NAME: I-89
 STATION:
 OFFSET:
 VTSFG: N 719161.29 ft E 1461806.74 ft

PROJECT NUMBER: IM SCRP(3)
 SITE NUMBER: CULVERT REPLACEMENT
 GROUND ELEVATION:
 GROUNDWATER DEPTH: None Taken
 PROJECT PIN NUMBER: 07A104

BORING CREW
 CREW CHIEF: PORTER
 DRILLER: PORTER
 LOGGER: WERNER

BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER
 BORING TYPE: HOLLOW STEM AUGER
 SAMPLE TYPE: SPLIT BARREL
 CHECKED BY: NSM

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
5		A-4, SaSi, brn, Moist, Rec. = 1.6 ft	4	19.4	0.2	35.3	64.5
		A-4, SiSa, brn, Moist, Rec. = 1.9 ft	11	20.8	0.7	56.6	42.7
		A-2-4, SiSa, brn, Moist, Rec. = 1.3 ft	11	17.4	2.4	69.5	28.1
10		Field Note: No Recovery. Rock pieces in end of sampler.	54				
		A-4, Si, brn-gry, Wet, Rec. = 1.6 ft	20	20.1	0.1	17.5	82.4
15		Field Note: No Recovery.	30				
		A-4, SiSa, gry, Moist, Rec. = 1.6 ft	26	16.9	2.5	52.2	45.3
		A-4, SiSa, gry, Moist, Rec. = 1.6 ft	35	16.5	0.0	58.1	41.9
20		A-4, SiSa, gry, Moist, Rec. = 1.8 ft	28	17.7	0.7	54.9	44.4
		A-2-4, SiSa, gry, Wet, Rec. = 0.4 ft	10	30.8	5.6	59.3	35.1
25		Hole stopped @ 24.0 ft					

VTrans Working to Get You There
 STATE OF VERMONT
 AGENCY OF TRANSPORTATION
 MATERIALS & RESEARCH SECTION
 SUBSURFACE INFORMATION

BORING NUMBER: B-104
 SHEET 1 of 1
 DATE STARTED: 3/13/09
 DATE COMPLETED: 3/13/09

PROJECT NAME: SOUTH BURLINGTON-WINOOSKI
 SITE NAME: I-89
 STATION:
 OFFSET:
 VTSFG: N 719486.38 ft E 1462256.10 ft

PROJECT NUMBER: IM SCRP(3)
 SITE NUMBER: CULVERT REPLACEMENT
 GROUND ELEVATION:
 GROUNDWATER DEPTH: Hole collapsed at 8.0 ft
 PROJECT PIN NUMBER: 07A104

BORING CREW
 CREW CHIEF: PORTER
 DRILLER: PORTER
 LOGGER: WERNER

BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER
 BORING TYPE: HOLLOW STEM AUGER
 SAMPLE TYPE: SPLIT BARREL
 CHECKED BY: NSM

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
5									
		A-4, SiSa, brn, Moist, Rec. = 1.2 ft	21	15.5	0.3	56.9	42.8		
10		A-4, SaSi, brn, Moist, Rec. = 1.2 ft	11	16.7	1.2	44.0	54.8		
		A-4, SaSi, brn, Moist, Rec. = 1.6 ft	25	15.0	0.9	46.4	52.7		
15		A-4, SaSi, brn, Moist, Rec. = 1.7 ft	22	16.4	0.0	46.4	53.6		
		A-4, SaSi, brn, Moist, Rec. = 1.9 ft, A very small layer of Clay was noticeable.	18	18.3	0.0	20.5	79.5		
		A-4, SaSi, gry, Moist, Rec. = 1.7 ft	14	19.2	0.0	30.9	69.1		
20		A-4, SiSa, gry, Wet, Rec. = 1.6 ft	19	21.8	0.2	61.7	38.1		
		A-4, Si, gry, Moist, Rec. = 1.9 ft	10	22.5	0.0	10.8	89.2		
25		A-4, Si, gry, Moist, Rec. = 1.8 ft	10	24.3	0.0	3.6	96.4	28	2
		A-4, Si, gry, Wet, Rec. = 1.5 ft	11	28.3	0.0	2.0	98.0	29	3
30		Hole stopped @ 28.0 ft							

VTrans Working to Get You There
 STATE OF VERMONT
 AGENCY OF TRANSPORTATION
 MATERIALS & RESEARCH SECTION
 SUBSURFACE INFORMATION

BORING NUMBER: B-105
 SHEET 1 of 1
 DATE STARTED: 3/12/09
 DATE COMPLETED: 3/13/09

PROJECT NAME: SOUTH BURLINGTON-WINOOSKI
 SITE NAME: I-89
 STATION:
 OFFSET:
 VTSFG: N 719486.04 ft E 1462226.87 ft

PROJECT NUMBER: IM SCRP(3)
 SITE NUMBER: CULVERT REPLACEMENT
 GROUND ELEVATION:
 GROUNDWATER DEPTH: Hole collapsed at 6.0 ft
 PROJECT PIN NUMBER: 07A104

BORING CREW
 CREW CHIEF: PORTER
 DRILLER: PORTER
 LOGGER: WERNER

BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER
 BORING TYPE: HOLLOW STEM AUGER
 SAMPLE TYPE: SPLIT BARREL
 CHECKED BY: NSM

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
5		A-4, SaSi, brn, Moist, Rec. = 1.6 ft	8	21.9	5.3	24.1	70.6		
		A-4, SaSi, brn, Moist, Rec. = 1.6 ft	6	13.3	1.6	47.9	50.5		
		A-4, SiSa, brn, Moist, Rec. = 1.6 ft	4	12.7	0.6	53.0	46.4		
		A-4, SaSi, brn, Moist, Rec. = 1.9 ft, A very small layer of Clay was noticeable.	17	14.4	0.1	36.4	63.5		
10		A-4, SaSi, brn, Moist, Rec. = 1.7 ft	14	18.4	0.0	40.3	59.7		
		A-4, SaSi, brn, Moist, Rec. = 1.7 ft	15	15.1	0.3	46.9	52.8		
		A-4, SaSi, gry, Moist, Rec. = 2.0 ft	25	15.4	0.4	32.4	67.2		
15		A-4, SaSi, gry, Moist, Rec. = 1.5 ft	9	19.6	0.0	24.3	75.7	24	1
		A-4, SaSi, gry, Wet, Rec. = 1.7 ft	15	21.8	0.5	42.6	56.9		
20		A-4, SaSi, gry, Moist, Rec. = 1.7 ft	20	18.4	0.0	38.6	61.4		
		A-4, Si, gry, Moist, Rec. = 1.6 ft	20	23.6	0.0	4.1	95.9	30	5
		A-4, SiSa, gry, Moist, Rec. = 0.9 ft	10	18.3	0.0	57.4	42.6		
		A-4, SiSa, gry, Wet, Rec. = 1.1 ft	7	27.2	0.0	5.5	94.5	31	7
		A-4, Si, gry, Moist, Rec. = 1.9 ft	7	27.5	0.0	4.7	95.3	29	5
25		A-4, Si, gry, Moist, Rec. = 1.6 ft	18	28.9	0.0	1.3	98.7	28	4
30		Hole stopped @ 28.0 ft							

PROJECT NAME: SOUTH BURLINGTON
 PROJECT NUMBER: IM SCRP(3)
 FILE NAME: d07a104_frm.dgn
 PROJECT LEADER: K. UPMAL
 DESIGNED BY: B. KIPP/B. McADAMS
 BORING LOGS 2

PLOT DATE: 13-JAN-2010
 DRAWN BY: B. KIPP
 CHECKED BY: B. KIPP
 SHEET 67 OF 69