

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: <b>B-104</b>					
		STRAFFORD BF 0177(10) VT-132 BR-29		Page No.: 1 of 1		Pin No.: 13J088					
		Checked By: CEE									
Boring Crew: HOOK, DAIGNEAULT		Type: WB		Casing Sampler		Groundwater Observations					
Date Started: 1/15/14 Date Finished: 1/16/14		I.D.: 4 in 1.5 in		Date		Depth (ft)					
VTSPG NAD83: N 486464.52 ft E 1677459.89 ft		Hammer Wt: N.A. 140 lb		01/16/14		7.5 AM					
Station: 12+52 Offset: 17.50		Hammer Fall: N.A. 30 in		01/16/14		5.3 Casing removed.					
Ground Elevation: 881.0 ft		Hammer/Rod Type: Auto/AWJ									
		Rig: CME 45C TRACK		C <sub>e</sub> = 1.34							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate (min/ft)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		A-3, Sa, brn, Moist, Rec. = 0.2 ft					2-1-WH-(1)	38.4	5.5	86.9	7.6
		A-2-4, Sa, brn, Moist, Rec. = 1.1 ft, Lab Note: Wood chunks were within sample.					1-2-2-3(4)	19.9	11.7	76.6	11.7
5		A-1-b, SaGr, Lt/brn, Moist, Rec. = 0.5 ft, Lab Note: Broken Rock was within sample.					2-5-10-7(15)	9.0	50.0	43.3	6.7
		A-1-b, GrSa, gry-brn, MTW, Rec. = 1.5 ft, Lab Note: Broken Rock was within sample.					5-8-9-7(17)	16.5	34.0	56.7	9.3
		A-1-b, GrSa, brn, Wet, Rec. = 2.0 ft, Cleaned out with roller cone.					6-6-8-9(14)	18.7	25.5	65.3	9.2
10		A-2-4, GrSa, brn, Moist, Rec. = 0.9 ft, Cleaned out with roller cone.					5-7-7-11(14)	15.8	25.4	56.6	18.0
		A-1-b, GrSa, brn, Moist, Rec. = 1.1 ft, Cleaned out with roller cone.					12-15-27-23(42)	12.2	30.5	54.8	14.7
15		A-1-b, GrSa, brn, Moist, Rec. = 1.1 ft, Lab Note: Broken Rock was within sample.					9-21-31-R@1.0"(52)	10.9	38.6	46.1	15.3
		Field Note: NXDC, Cleaned out casing.					15-14-22-20(36)	13.5	32.6	51.5	15.9
		A-2-4, GrSa, brn, Moist, Rec. = 1.2 ft, NXDC, Cleaned out casing.					12-11-16-28(27)	12.7	34.5	52.3	13.2
20		A-1-b, GrSa, brn, Moist, Rec. = 1.1 ft, Lab Note: Broken Rock was within sample.									
		Field Note: NXDC, Cleaned out casing.									
25		A-2-4, SiGrSa, brn, Moist, Rec. = 0.9 ft					45-R@6.0"(R)	15.5	28.1	51.4	20.5
		Field Note: Cobble/Hardpan, NXDC, Cleaned out casing.									
30		30.0 ft - 32.0 ft, Gray, Micaceous quartz-rich Limestone, Hard, Unweathered, Fair rock, NXDC, RMR = 57		1 (60)	100 (0)	6 5	Top of Bedrock @ 30.0 ft				
		32.0 ft - 35.0 ft, Gray, Micaceous quartz-rich Limestone, Hard, Unweathered, Good rock, NXDC, RMR = 71		2 (60)	100 (87)	7 8 7					
35		35.0 ft - 40.0 ft, Gray, Micaceous quartz-rich Limestone, Hard, Unweathered, Good rock, NXDC, RMR = 71		3 (60)	86 (80)	6 7 5 6 5					
40		Hole stopped @ 40.0 ft									
		Remarks: Hole collapsed at 7.6 ft.									
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C <sub>e</sub> is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.											

ABUT 2 BTM.  
EL 875.10

EST. PILE TIP  
EL 851.0

BORING LOG 2 STRAFFORD BF 0177(10).GPJ VERMONT AOT.GDT 1/2/14

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: <b>B-201</b>					
		STRAFFORD BF 0177(10) VT-132 BR-29		Page No.: 1 of 1		Pin No.: 13J088					
		Checked By: MLM									
Boring Crew: GARROW, JUDKINS, COLETTI		Type: WB		Casing Sampler		Groundwater Observations					
Date Started: 6/02/16 Date Finished: 6/03/16		I.D.: 4 in 1.5 in		Date		Depth (ft)					
VTSPG NAD83: N 486467.83 ft E 1677434.11 ft		Hammer Wt: N.A. 140 lb		06/03/16		10.5 W.T. during drilling					
Station: 12+50 Offset: -8.00		Hammer Fall: N.A. 30 in		06/03/16		13.1 W.T. before drilling					
Ground Elevation: 888.3 ft		Hammer/Rod Type: Auto/AWJ									
		Rig: CME 45C SKID		C <sub>e</sub> = 1.42							
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate (min/ft)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Asphalt Pavement, 0.0 ft - 0.7 ft									
		Field Note: NXDC, Cleaned out casing, Cobbles, Lost water return at 6.0 feet									
10		Field Note: NXDC, Cleaned out casing, cobbles and boulders									
20		Field Note: NXDC, Cleaned out casing, Cobbles									
30		Field Note: NXDC, Cleaned out casing, Cobbles									
		Field Note: Changed to 3.0 inch casing, Started mud drilling with bentonite due to sand									
40		43.5 ft - 48.5 ft, Gray, Phylitic muscovite-biotite-quartz META-LIMESTONE, with rare pyrite. Hard, Unweathered, Good rock, BX, RMR=66		1 (60)	94 (80)	11 9 8 7 8	Top of Bedrock @ 43.5 ft				
50		48.5 ft - 53.5 ft, Gray, Phylitic muscovite-biotite-quartz META-LIMESTONE, with rare pyrite. Some joint surfaces are brown, rust stained, and slightly vuggy. Hard, Very slightly weathered, Fair rock, BX, RMR=52		2 (60)	98 (47)	8 7 7 5 7					
		Hole stopped @ 53.5 ft									
		Remarks: Hole Collapsed at 16.9 feet.									
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C <sub>e</sub> is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.											

ABUT 2 BTM.  
EL 875.10

EST. PILE TIP  
EL 844.8

BORING LOG 2 STRAFFORD BF 0177(10).GPJ VERMONT AOT.GDT 6/13/16

PROJECT NAME:	STRAFFORD
PROJECT NUMBER:	BF 0177(10)
FILE NAME:	s13J088boring.dgn
PROJECT LEADER:	K. HIGGINS
DESIGNED BY:	J. GRIGAS
BORING LOGS 2	
PLOT DATE:	31-AUG-2016
DRAWN BY:	J. GRIGAS
CHECKED BY:	T. MATTHEWS
SHEET	20 OF 52