

VT Trans Working to Get You There Vermont Agency of Transportation		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-113		
				Williston-Essex STP SGNL(46) VT 2A		Page No.: 1 of 1		
						Pin No.: 15017		
						Checked By: ZMH		
Boring Crew: JUDKINS, GARROW		Casing		Sampler		Groundwater Observations		
Date Started: 5/16/16 Date Finished: 5/16/16		Type: WB SS		ID.: 4 in 1.5 in		Date Depth Notes		
VTSPG NAD83: N 733236.44 ft E 1489560.88 ft		Hammer Wt: N.A. 140 lb.		Hammer Fall: N.A. 30 in.		05/16/16 4.0 W.T. taken during		
Station: 23+31.80 Offset: 31.40		Hammer/Rod Type: Auto/AWJ		Rig: CME 55 TRACK CE = 1.41				
Ground Elevation: 507.3 ft								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Blows* (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-2-4, SiSaGr, brn, Moist, Rec. = 1.2 ft		4-7-4 4 (11)	8.1	46.8	27.6	25.6
		A-4, SaSi, gry, Moist, Rec. = 1.5 ft		9-9- 10-12 (19)	11.2	17.9	37.4	44.7
		A-4, SaSi, gry-brn, Moist, Rec. = 1.6 ft		11-10- 5-7 (15)	12.2	16.5	29.3	54.2
		A-4, SaSi, brn, Moist, Rec. = 1.7 ft		1-12- 7-8 (19)	11.9	22.9	39.5	37.6
		Field Note: Cleaned out casing						
10		A-1-b, GrSiSa, brn, Moist, Rec. = 1.0 ft		17-13- 21-15 (34)	9.7	37.4	38.3	24.3
		Field Note: Cleaned out casing						
		A-1-b, SiGrSa, gry, Moist, Rec. = 0.4 ft		25- R@3.5" (R)	9.0	48.2	30.0	21.8
15		Field Note: Cleaned out casing						
		A-2-4, SiSaGr, gry, Moist, Rec. = 1.2 ft, Lab Note: Broken rock was within sample.		19-14- 12-19 (26)	10.4	44.5	28.1	27.4
		Field Note: Cleaned out casing						
20		A-2-4, SaSiGr, gry, Moist, Rec. = 1.2 ft, Lab Note: A lot of broken rock was within sample.		17-33- 33- R@2" (66)	9.1	44.5	25.9	29.6
		Field Note: Cleaned out casing						
25		Visual Description: Broken rock, gry, Moist, Rec. = 0.1 ft, Lab Note: Insufficient sample size for testing.		R@1" (R)				
		Hole stopped @ 25.1 ft						
Remarks: Hole collapsed at 14.0 feet. 1.) Moved hole due to utilities								
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. <<SUB>><<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.								

VT Trans Working to Get You There Vermont Agency of Transportation		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-114		
				Williston-Essex STP SGNL(46) VT 2A		Page No.: 1 of 1		
						Pin No.: 15017		
						Checked By: ZMH		
Boring Crew: NIETO, GARROW, COLETTI		Casing		Sampler		Groundwater Observations		
Date Started: 5/18/16 Date Finished: 5/19/16		Type: WB SS		ID.: 4 in 1.5 in		Date Depth Notes		
VTSPG NAD83: N 733498.54 ft E 1492820.82 ft		Hammer Wt: N.A. 140 lb.		Hammer Fall: N.A. 30 in.		05/19/16 7.6 W.T. before and after		
Station: 265+26.00 Offset: -34.70		Hammer/Rod Type: Auto/AWJ		Rig: CME 55 TRACK CE = 1.41				
Ground Elevation: 485.5 ft								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Blows* (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		A-2-4, SiSa, brn, Moist, Rec. = 1.6 ft, Lab Note: Grass and grass roots were within sample.		1-2-3- 4 (5)	11.5	14.3	63.1	22.6
		A-2-4, SiSa, LUbrn, Moist, Rec. = 1.8 ft		4-3-3- 3 (6)	8.6	4.3	71.9	23.8
		A-4, SiSa, LUbrn, Moist, Rec. = 1.9 ft		3-6-6- 7 (12)	10.5		59.4	40.6
		A-4, SaSi, brn, Moist, Rec. = 1.7 ft		6-7-7- 9 (14)	21.3	0.4	24.0	75.6
		A-4, Si, brn, Moist, Rec. = 1.6 ft		5-4-5- 6 (9)	27.4		15.9	84.1
10		A-4, Si, brn, Moist, Rec. = 2.0 ft, Lab Note: Sample tested non-plastic. Sample had a very strong smell like sewer.		3-2-2- 1 (4)	31.0	0.1	15.2	84.7
		Field Note: Cleaned out casing						
15		A-4, Si, brn, MTW, Rec. = 1.7 ft		1-WH- 1-2 (1)	33.4		2.9	97.1
		Field Note: Cleaned out casing						
20		A-4, Si, brn, MTW, Rec. = 1.8 ft, Lab Note: Sample tested non-plastic.		WH- WH- WH-1 (0)	34.0		3.1	96.9
		Field Note: Cleaned out casing						
25		A-4, Si, brn, MTW, Rec. = 1.7 ft		1-1-1- WH (2)	35.9	0.2	3.6	96.2
		Field Note: Cleaned out casing						
30		A-4, Si, brn, MTW, Rec. = 1.3 ft		WH- WH-3- 4 (3)	28.5		4.0	96.0
		Field Note: Cleaned out casing						
35		A-4, Si, brn, MTW, Rec. = 1.4 ft		WH- WH- WH- (0)	34.0		3.6	96.4
		Hole stopped @ 37.0 ft						
40		Remarks: Hole collapsed at 34.6 feet.						
		Field Note: Cleaned out casing						
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. <<SUB>><<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.								

PROJECT NAME:	WILLISTON-ESSEX
PROJECT NUMBER:	STPG SGNL(46)
FILE NAME: t151017fm.dgn	PLOT DATE: 3/21/2017
PROJECT LEADER: M. LACROIX	DRAWN BY: K. RECORD
DESIGNED BY: K. RECORD	CHECKED BY: M. LACROIX
BORING LOG SHEET 7	SHEET 14 OF 66