



STATE OF VERMONT
AGENCY OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
BUREAU CENTRAL LABORATORY

BORING LOG

Springfield
STP CULV(47)
US-5

Boring No.: B-105

Page No.: 1 of 1

Pin No.: 13C346

Checked By: JFW

Boring Crew: T. Farrell (SJB), D. Howey (GeoDesign)
Date Started: 2/16/15 Date Finished: 2/16/15
VTSPG NAD83: N 304391.00 ft E 1664176.00 ft
Station: 470+34 Offset: 88' R
Ground Elevation: 319 ft

Casing: AUGER
Sampler: SS
Type: I.D.: 4.25 in 1.38 in
Hammer Wt: N.A. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Auto
Rig: CME 550X ATV CE = 1.35

Groundwater Observations (3)

Date	Depth (ft)	Notes
02/16/15	6.0	Wet sample.
02/16/15		See Remark 2.

Depth (ft)	Strata(1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)(2)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5		S1 (0' - 0.9'): Refusal, brown SILT, little fine to coarse Sand, trace Wood and Roots, frozen. Rec. = 0.4 ft (AASHTO M145 Classification: A-4.)	5-50/5 ⁿ	31.9		7.1	92.9	NP	NP
		S2 (2' - 4'): Medium dense, brown fine to coarse SAND and fine to coarse GRAVEL, little Silt, moist/frozen. Rec. = 0.4 ft (AASHTO M145 Classification: A-1-a.)	15-17-12-9 (29)	7.8	61.0	28.2	10.8	NP	NP
		S3 (4' - 6'): Medium dense, brown fine to coarse SAND and SILT, trace Wood and Root fibers, moist/frozen. Rec. = 0.2 ft (AASHTO M145 Classification: A-2-4.)	6-8-8-7 (16)	22.9	22.2	45.7	32.1	NP	NP
		S4 (6' - 8'): Medium dense, brown layered SILT, little fine to coarse Sand, little Wood, wet. Rec. = 1.3 ft	5-7-7-6 (14)	76.0				NP	NP
		S5 (8' - 10'): Medium dense, brown layered SILT, little fine Sand, wet. Rec. = 1.6 ft (AASHTO M145 Classification: A-4.)	6-7-6-6 (13)	27.8	4.5	21.1	74.4	NP	NP
		S6 (10' - 12'): Loose, brown layered SILT, trace fine Sand, wet. Rec. = 1.2 ft (AASHTO M145 Classification: A-4.)	4-3-4-6 (7)	29.4		11.0	89.0	NP	NP
		S7 (12' - 14'): Medium dense, gray layered SILT, trace fine Sand, wet. Rec. = 1.2 ft (AASHTO M145 Classification: A-4.)	5-5-6-7 (11)	29.4		10.5	89.5	NP	NP
		S8 (14' - 16'): Medium dense, no recovery. Rec. = 0.0 ft	9-8-8-8 (17)						
		S9 (16' - 18'): Loose, gray layered SILT, trace fine Sand, wet. Rec. = 1.2 ft (AASHTO M145 Classification: A-4.)	4-4-5-6 (9)	27.1		11.7	88.3	NP	NP
		S10 (18' - 20'): Medium dense, gray layered SILT, trace fine Sand, wet. Rec. = 1.4 ft (AASHTO M145 Classification: A-4.)	3-5-6-6 (11)	27.7	0.1	12.6	87.3	NP	NP
		S11 (20' - 22'): Loose, gray layered SILT, wet. Rec. = 1.2 ft (AASHTO M145 Classification: A-4.)	4-4-4-5 (8)	27.7		8.9	91.1	NP	NP
		25		S12 (25' - 27'): Medium dense, gray layered SILT, trace Clayey Silt (occasional ~1/8" seams), wet. Rec. = 1.7 ft (AASHTO M145 Classification: A-4.)	5-5-5-6 (10)	29.4		6.3	93.7
30		Hole stopped @ 27.0 ft							
35		<p>Remarks:</p> <ol style="list-style-type: none"> 1) U.S. Route 5 stationing, ground elevation, and coordinates shown are estimated from electronic files provided by VTTrans via email on 2/25/15 and taped measurements to existing features by GeoDesign personnel. All measurements are rounded to the nearest foot. 2) A water level reading was attempted following completion of boring, but it was inferred that readings were not representative due to wet spoils on sides of auger causing the water level indicator to trigger erratically. 3) Borehole was backfilled with auger cuttings. 4) Hammer energy correction factor is assumed based on hammer type. 5) Visual sample descriptions are per Burmister classification system. Laboratory testing results shown are based on testing performed by VTTrans with the Gravel/Sand/Silt breakdown shown per AASHTO M145. 							

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.
3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

GEODESIGN BORING LOG 750-08.17 SPRINGFIELD STP CULV(47) VPJ VERMONT AGT.DOT 3/4/15