



STATE OF VERMONT  
AGENCY OF TRANSPORTATION  
MATERIALS & RESEARCH SECTION  
SUBSURFACE INFORMATION

BORING LOG

Highgate BO 1448 (43)  
(GeoDesign #750-09.16)  
Bridge #25, Highgate, VT

Boring No.: B-103  
Page No.: 1 of 1  
Pin No.: PS0171  
Checked By: JFW/SPK

Boring Crew: J. Burrowbridge (OCCA), A. Baribault (GeoDesign)  
Date Started: 8/18/14 Date Finished: 8/18/14  
VTSPG NAD83: N 885183.00 ft E 1514014.00 ft  
Station: 12+18 Offset: 1.00  
Ground Elevation: 221 ft

Type: \_\_\_\_\_  
I.D.: \_\_\_\_\_  
Hammer Wt: \_\_\_\_\_  
Hammer Fall: \_\_\_\_\_  
Hammer/Rod Type: \_\_\_\_\_  
Rig: \_\_\_\_\_

Casing: H.S.A. Sampler: SS  
3.25 in 1.38 in  
N.A. 140 lb.  
N.A. 30 in.  
Safety/AWJ  
CME 45C SKID CE = 1

Groundwater Observations (3)		
Date	Depth (ft)	Notes
08/18/14		None observed.

Depth (ft)	Strat(1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)(2)	Moisture Content %	Gravel %	Sand %	Fines %
		3" Asphalt					
2.5	x x x	S1 (0.5'-2'): Medium dense, brown fine to coarse SAND, little fine Gravel, little Silt, moist. (ROAD BASE) Rec. = 1.1 ft (AASHTO M145 Classification: A-1-b.)	17-13-15 (28)	4.7	31.3	56.5	12.2
2.5	x x x	S2 (2'-4'): Medium dense, brown fine to coarse SAND, little fine Gravel, little Silt, moist. (ROAD BASE) Rec. = 1.3 ft (AASHTO M145 Classification: A-1-b.)	13-9-8-8	5.6	26.3	62.2	11.5
5.0	x x x	S3 (4'-6'): Loose, brown with gray fine to coarse SAND, little Silt, trace fine Gravel, moist. (FILL) Rec. = 1.3 ft (AASHTO M145 Classification: A-2-4.)	6-5-4-4 (9)	7.4	20.9	59.6	19.5
7.5	x x x	S4 (6'-8'): Loose, brown with dark brown fine to coarse SAND, some Silt, little fine Gravel, trace Root Fibers, moist. (FILL) Rec. = 0.4 ft (AASHTO M145 Classification: A-2-4.)	4-3-2-2 (5)	15.9	25.0	48.9	26.1
10.0	x x x	S5 (8'-10'): Loose, brown fine to coarse SAND, some Silt, little fine Gravel, trace Wood (live Root), moist. (FILL) Rec. = 0.2 ft (AASHTO M145 Classification: A-2-4.)	1-1-2-1 (3)	22.6	20.8	59.2	20.0
10.0		S6 (10'-12'): Medium dense, brown fine to medium SAND, some Silt, trace fine Gravel, moist. Rec. = 0.4 ft (AASHTO M145 Classification: A-2-4.)	7-7-5-7 (12)	17.7	11.0	62.4	26.6

Hole stopped @ 12.0 ft  
HSAR - See Remark 3.

Remarks:

- 1) Sample S2 not performed in accordance with ASTM D 1586, (borehole not cleared with HSA prior to sampling).
- 2) Auger grinding/chatter from 9 to 10.5 feet deep
- 3) After sampling S6 from 10 to 12 feet deep, encountered HSA refusal at 10.5 deep while trying to advance augers to continue sampling. Infer auger refusal to be on abutment boulders. Exploration was terminated as a result of auger refusal.

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 of times and under conditions stated. Fluctuations of ground-water may occur due to other factors than those present at the time measurements were made.

GEODESIGN BORING LOG 750-09.16 HIGHGATE BRIDGE 25 BO 1448(43).DPT 2/11/15  
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