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

BORING LOG

Hyde Park Bridge #42
STP CULV (26)

Boring No.: B-4
Page No.: 1 of 1
Pin No.:
Checked By: DTH

Boring Crew: J. Wimett (GeoDesign), J. Leonhardt (TransTech)
Date Started: 8/16/12 Date Finished: 8/16/12
VTSPG NAD83: N 762589.00 ft E 1612302.00 ft
Station: 4+29 Offset: 15' R
Ground Elevation: 633.0 ft

	Casing	Sampler
Type:	H.S.A.	SS
I.D.:	3.25 in	1.38 in
Hammer Wt:	N.A.	140 lb.
Hammer Fall:	30 in.	30 in.
Hammer/Rod Type:	Auto/AWJ	
Rig:	CME 75 TRACK	CE = 1.43

Groundwater Observations		
Date	Depth (ft)	Notes
08/16/12	15.0	Wet soil.
08/16/12	25.7	In augers (30 min)
08/16/12	25.0	In augers (70 min)

BOTTOM OF ABUT. #2
ELEV. 622.00

APPROX. PILE TIP @ ABUT #2
ELEV. 605.80

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Asphalt, 0.0 ft – 0.3 ft							
		Visual Description (Burmister), S1 (0.5'–2'): Medium dense, brown fine to coarse SAND, some (–) fine to coarse Gravel, little (–) Silt, slightly moist, (AASHTO M145 Classification: A-1-b) Rec. = 1.08 ft	11-14-15 (29)	3.5	35.6	51.5	12.9		
5		Visual Description (Burmister), S2 (5'–7'): Very loose, light brown fine SAND, little Silt, slightly moist, Rec. = 1.42 ft, (AASHTO M145 Classification: A-2-4)	3-3-1-2 (4)	6.7	1.6	78.7	19.7		
10		Visual Description (Burmister), S3 (10'–12'): Loose gray SILT, trace brown fine Sand (concentrated in one 3" seam), trace Silty Clay, moist (sand) to very moist (silt/clay), Rec. = 1.58 ft, (AASHTO M145 Classification: A-4)	2-4-5-4 (9)	22.2		4.6	95.4	23	2
15		Visual Description (Burmister), S4 (15'–17'): Loose, gray and brown SILT, trace fine Sand, very moist to wet (perched), Rec. = 1.42 ft, (AASHTO M145 Classification: A-4)	2-2-3-3 (5)	26.5		5.1	94.9		
20		Visual Description (Burmister), S5 (20'–22'): Medium dense, olive brown SILT, little fine Sand, little fine Gravel, wet, Rec. = 0.67 ft, (AASHTO M145 Classification: A-4)	4-6-6-10 (12)	19.0	20.7	12.5	66.8		
		Field Note, Inferred Gravelly Sandy Silt.							
25		Rec. = 1.0 ft	9-16-52 (68)	6.2	63.8	24.3	11.9		
		Visual Description (Burmister), S6 (25'–26.5'): Refusal, dark gray DECOMPOSED ROCK (fine to coarse Gravel and fine to coarse Sand), wet, (AASHTO M145 Classification: A-1-a)	50/2.5	10.9	62.0	29.3	8.7		
		Visual Description (Burmister), S7 (27'–27.2'): Refusal, dark gray pulverized and fractured WEATHERED ROCK (fine to coarse Sand and fine to coarse Gravel), wet, Rec. = 0.21 ft, (AASHTO M145 Classification: A-1-a)							
30		Hole stopped @ 27.2 ft HSA refusal in inferred bedrock.							
35									
40									
45									

Remarks:
1) Ground surface elevation, coordinates, and stationing are estimated from an electronic site plan provided by TY Lin and taped measurements in the field.
2) Augered to 6" deep prior to sampling S1.
3) Note consistent auger grinding and rig chatter below 23' deep through inferred gravelly sandy silt soils
4) Infer top of weathered rock at 25.5' based on auger resistance.
5) Hollow stem auger refusal at 27' deep on inferred bedrock.
6) SPT N-values were performed according to ASTM D1586.
7) Lab testing gradations reported are 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.

BROWN LOG (EDITED) 888-042 HYDE PARK.GPJ VERMONT AOT.GDT 10/12/12

PROJECT NAME: HYDE PARK
PROJECT NUMBER: STP CULV(26)

T·Y LIN INTERNATIONAL

FILE NAME: z11b292bdrborlog4.dgn
PROJECT LEADER: R. HEBERT
DESIGNED BY: J. OLUND
BORING LOGS 4

PLOT DATE: 11/6/2013
DRAWN BY: S. MORGAN
CHECKED BY: J. OLUND
SHEET 28 OF 60