BORING LOG

GEODESIGN INCORPORATED

Geotechnical / Construction / Environmental Engineers and Scientists

P.O. Box 000, Windsor, VT 05089, Phone: 802-674-2033/Fax: 802-674-5043
1233 Shelburne Rd., Suite 360, So. Burlington, VT 05403, Phone: 802-652-5140

Project Name: Stowe STP 0235(17), Stowe, VT

Boring No.: B-3 (IC) | **Page No.:** 1 of 3 | **File No.:** 750-09.9 | **Checked By:** JFW

Boring Company:	SJB Drilling		
Foreman:	Tom Farrell		
GeoDesign Rep.:	Robert Marshall		
Date Started:	December 5, 2012	Date Finished:	December 6, 2012
N. Coordinate:	730185	E. Coordinate:	1572547
Ground Surface Elevation (feet):	1053		
Station:		Offset:	ft

	Casing:	Sampler:
Type:	FJ	SS
I.D.:	5.0 in.	1.38 in.
Hammer Wt.:	140/300	140 lbs
Hammer Fall:	30 in.	30 in.
Rig Type:	CME 550X	
Hammer Type:	Automatic	

Groundwater Observations

Date	Depth (ft)	Elev. (ft)	Notes
12/6/12, 7:00	6.5	1046.5	Overnight; casing at 40'

Sample Information (Classification System: Burmister)

Depth (ft)	Casing Blows/ft	Number	Type	Penetration (inches)	Recovery (inches)	Depth (ft)	0 - 6	6 - 12	12 - 18	18 - 24	Coring Time (min./ft)	Moisture Content (%)	Strata Description (Depth & Elevation (feet))	Sample Description
		S1	SS	24	15	0	1	2	2	2			Fill (Sand/Gravel)	S1) Loose, brown fine to medium SAND, little fine to coarse Gravel, little (-) Silt, moist.
	930/5'													
5		S2	SS	24	7	5	5	5	5	5		10.7		S2) Medium dense, brown fine to medium SAND, little fine to coarse Gravel, trace Silt, moist.
	965/5'												8.5 1044.5 Silty Gravelly Sand (Kame Terrace)	
10		S3	SS	24	12	10	9	17	13	11		7.1		S3) Medium dense, brown to gray brown fine to coarse SAND, some fine to coarse Gravel, trace Silt, moist.
	1020/5'													
15		S4	SS	24	15	15	15	20	18	18		7.5		S4) Dense, brown to gray brown fine to coarse SAND and fine to coarse GRAVEL, little Silt, moist.
	1045/5'													
20		S5	SS	24	14	20	41	22	21	22				S5) Dense, brown to gray brown fine to medium SAND, some fine to coarse Gravel, little Silt, moist.
	1042/5'													
25														

Remarks

1) Northing, easting, and ground surface elevation shown based on taped measurements made in the field by GeoDesign personnel and on an electronic site plan titled, "d12c388_nu1.dgn" provided by VTrans on December 10, 2012.
2) Moisture in samples S2 through S9 may be affected by use of water as a drilling fluid.
3) Boring advanced to 50 feet using 5-inch diameter flush joint casing and wash-and drive method. Casing advanced using auto hammer to 25 feet; 300-pound donut used to advance casing to 50 feet. Bentonite added to drilling fluid at 40 feet.

Notes:
1) Stratification Lines Represent Approximate Boundary Between Material Types, Transitions May Be Gradual.
2) 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.
A.C. = After casing; N.R. = Not Recorded.
3) Sample Type Coding: A=Auger; C=Core; D=Driven; G=Grab; PD=Piston Sampler; SS=Split Barrel (Split Spoon); ST=Shelby Tube; [illegible]
WOR/H=Weight of Rod/Hammer
4) Proportions Used: Trace = 1-10%; Little = 10-20%; Some = 20-35%; and = 35-50%
5) Stratification lines represent approximate boundary between material types, transitions may be gradual.

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SMALL REMARK FONT STANDARD 750-09.9 STOWE 108.GPJ GEODESIGN STANDARD .GDT 12/2/13

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													Silty Gravelly Sand (Kame Terrace) (Continued)	
30		S6	SS	24	5	30	14	19	20	18				S6) Similar to S5.
	334/5'													
35													36 1017.0 Sand & Silt	
	405/5'													
40		S7	SS	24	17	40	18	20	23	22		25.5		S7) Dense, gray brown SILT and fine SAND, moist.
45														
50														

Remarks

4) Strata change inferred at approximately 52.5 feet based on rate of drilling advance; continued open hole to 60 feet.
5) Upon completion, 80mm ID inclinometer casing installed with 2 feet stickup and protective steel riser.

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		S8	SS	24	16	50	16	26	35	37		20.5	Sand & Silt (Continued)	S8) Very dense, gray brown fine SAND, little (-) Silt.
													52.5 1000.5 Glacial Till	
55														
		S9	SS	17	15	57.5	36	40	50/5"					S9) Refusal, gray brown fine to medium SAND and SILT, little fine to coarse Gravel.
60													60 993.0 Bottom of Exploration at 60.0 ft	
65														
70														
75														

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