

VTans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: B316b SHEET 1 of 4 DATE STARTED: 7/15/13 DATE COMPLETED: 7/17/13						
PROJECT NAME: Newport City STP 134-3(22) SITE NAME: Route 191 Landslide STATION: - OFFSET: - VTSPG: N 888534.05 ft E 1721175.80 ft		PROJECT NUMBER: GAI 133-87312 SITE NUMBER: - GROUND ELEVATION: 748.37 ft GROUNDWATER DEPTH: 21.25 ft 7/18/13 PROJECT PIN NUMBER: -		BORING CREW: New Hampshire Boring DRILLER: Rich Leonard LOGGER: Helena Hollauer BORING RIG: Mobile B-53 Track						
BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL HAMMER TYPE: ROPE & CATHEAD CHECKED BY:		BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL HAMMER TYPE: ROPE & CATHEAD CHECKED BY:								
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	WELL DIAGRAM	BLOWS PER 6 IN (N VALUE)	M.C. (%)	AASHTO GRAVEL (%)	AASHTO SAND (%)	AASHTO FINES (%)	LL (%)	PI (%)
		Top of Well Elevation: 750.63 ft								
		S1: 0.0 ft - 0.33 ft, Topsoil and rootmat, Rec. = 1.5 ft		2-3-7-9 (10)						
		0.33 ft - 2.0 ft, A-4, gray-brown, slightly moist, loose, fine SAND, grading to a silty fine SAND, trace gravel, trace roots, (FILL), (ML).								
		S2: 5.0 ft - 7.0 ft, A-2-4, dark gray, slightly moist, loose, fine sandy SILT, grading to a silty fine (SM), Rec. = 1.5 ft		4-3-2-2 (5)						
		S3: 10.0 ft - 12.0 ft, A-4, brown, moist, soft, SILT, trace medium to coarse sand, trace wood, slight structure, possible native surface, (ML), Rec. = 0.67 ft		3-2-2-3 (4)						
		S4: 15.0 ft - 17.0 ft, A-4, gray-brown (slightly mottled), moist, medium stiff, fine sandy SILT, trace clay, trace gravel, Pocket of clean medium to coarse sand, depositional structure, (ML), Rec. = 1.67 ft		3-3-4-6 (7)						
		S5: 20.0 ft - 22.0 ft, A-4, gray-brown, wet, medium stiff, clayey SILT, trace fine to medium sand, trace gravel, trace wood, (ML), Rec. = 0.83 ft		4-5-3-5 (8)						

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		S6: 25.0 ft - 27.0 ft, Rec. = 0.0 ft		4-4-5-7 (9)						
		S7: 30.0 ft - 32.0 ft, A-4, gray-brown (slightly mottled), moist, hard, fine sandy SILT, trace gravel, (ML), Rec. = 1.0 ft		10-31-64-32 (95)	13.6	4.0	37.2	58.8		
		S8: 35.0 ft - 37.0 ft, A-4, gray-brown (slightly mottled), moist, very stiff, fine sandy SILT, trace gravel, (ML), Note: Cobble in spoon tip, Rec. = 0.17 ft		10-12-10-18 (22)						
		S9: 40.0 ft - 42.0 ft, A-4, gray, slightly moist, hard, fine to coarse sandy SILT, trace gravel, (ML), Rec. = 1.17 ft		10-19-28-37 (47)	12.4					18 2
		S10: 45.0 ft - 47.0 ft, A-4, gray, slightly moist, hard, fine to coarse sandy SILT, trace gravel, (ML), Rec. = 1.67 ft		25-28-45-38 (73)	11.6	10.2	31.3	58.5		

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		S11: 50.0 ft - 50.4 ft, A-4, dry, hard, fine sandy SILT, trace gravel, (ML), Note: Bottom 3" of sample had a mix of weathered rock, Rec. = 0.83 ft		50-50/5" (R)						
		S12: 55.0 ft - 57.0 ft, A-1-b, gray-brown, wet, very dense, fine to medium SAND, little silt, trace gravel (SM), Rec. = 1.5 ft		33-50-43-47 (93)	16.6	6.7	77.2	16.1		
		S13: 60.0 ft - 62.0 ft, A-2-4, gray-brown, wet, very dense, fine to medium SAND, little silt, trace gravel (SM), Rec. = 1.83 ft		28-40-44-66 (84)	16.4	5.0	76.7	18.3		
		S14: 65.0 ft - 66.0 ft, A-6, gray-brown and orange, dry, hard, silty CLAY, fine sand varves, (CL), Rec. = 1.33 ft		18-52-65-66 (117)						
		66.0 ft - 66.9 ft, A-3, gray-brown, moist, very dense, clean fine SAND, trace silt, (SP)								
		66.9 ft - 67.0 ft, A-4, gray-brown, dry, SILT, (ML)								
		S15: 70.0 ft - 72.0 ft, A-7-5, gray and brown, slightly moist, hard, CLAYEY SILT, thin fine sand varves, (CH-MH), Rec. = 1.33 ft		17-30-30-40 (60)	30.5				58	28

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		S16: 75.0 ft - 77.0 ft, A-7-5, gray and brown, slightly moist, hard, CLAYEY SILT, thin fine sand varves, (CH-MH), Rec. = 1.67 ft		17-24-28-37 (52)	34.0	0.0	0.4	99.6	58	25
		78.0 ft - 80.0 ft, A-7-5, U1; Shelby tube taken with about 800lbs of applied pressure, Rec. = 2.0 ft, (MH).								
		S17: 80.0 ft - 82.0 ft, A-7-5, gray and brown, slightly moist, hard, CLAYEY SILT, thin fine sand varves, (CH-MH), Note: Varves spaced wider than at Sample D15 (1/8-1/4"), Rec. = 1.0 ft		16-23-26-42 (49)	33.3	2.0	1.4	96.6	56	26
		84.0 ft - 85.2 ft, A-7-5, U2; Shelby tube taken with about 1000lbs of applied pressure, Rec. = 1.5 ft, (CH-MH).								
		S18: 87.0 ft - 89.0 ft, A-7-5, gray and brown, very slightly moist, hard, CLAYEY SILT, thin fine sand varves, (CH-MH), Rec. = 1.83 ft		12-16-24-32 (40)	35.5				58	27
		91.0 ft - 92.6 ft, U3; Shelby tube attempted with about 1000lbs of applied pressure (19" push), No recovery.								
		Hole stopped @ 92.6 ft								
		Notes: - 2" well installed, Screen from 55 to 60 ft; sand pack from 53 to 61.5 ft; bentonite chips from 50 to 53 ft grouted from 50 to ground surface. Hole backfilled below 61.5 ft with alternating layers of sand and bentonite chips.								

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