



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

BORING NUMBER: B-201
 SHEET 1 of 1
 DATE STARTED: 6/01/05
 DATE COMPLETED: 6/03/05

PROJECT NAME: HUBBARDTON
 SITE NAME: ELEVATE ROADWAY
 STATION: 7+90
 OFFSET: 5.00
 VTSPG: N 439352.42 ft E 1459225.58 ft

PROJECT NUMBER: ST 0161(23)
 SITE NUMBER: RT-30
 GROUND ELEVATION: 412.29 ft
 GROUNDWATER DEPTH: 3.5 ft 6/03/05
 PROJECT PIN NUMBER: 03C044

BORING CREW
 CREW CHIEF: TALLMAN
 DRILLER: TALLMAN
 LOGGER: RUSSELL

BORING RIG: TRUCK
 BORING TYPE: WASH BORE
 SAMPLE TYPE: SPLIT BARREL & TUBE
 CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
			RUN	REC (%)	RQD (%)	Dip (deg)	Drill Rate (min/ft)		
0.0 - 0.4		Asphalt, 0.0 ft - 0.4 ft							
5		A-1-a, SaGr, gry, Moist, Rec. = 0.5 ft	22	15.6	51.7	33.0	15.3		
10		A-1-a, Gr, gry, Moist, Rec. = 1.0 ft	6	25.3	74.8	14.9	10.3		
12.0 - 13.0		Visual Class: Wood material, 12.0 ft - 13.0 ft							
15		A-8, Peat (49.9%), gry, MTW, Rec. = 1.25 ft, 15.0 ft - 17.0 ft, Consolidation sample		290.6					
20		A-8, Organic Soil (20.9%), gry, MTW, Rec. = 1.5 ft, 20.0 ft - 21.3 ft, Consolidation sample		146.3					
20		A-4, ClSI, gry, MTW		32.2	0.0	2.5	97.5	30	9
25		25.0 ft, Top of Bedrock or Fill.....Greenish gray, Slate, RQD=0, Possible Fill Material, Moderately hard, Unweathered, BXGDC, 25.0 ft - 30.0 ft, Rec. = 1.5 ft	1	30	0		6 6 5		
30		Greenish gray, Slate, RQD=0, Possible Fill Material, Moderately hard, Unweathered, BXGDC, 30.0 ft - 33.5 ft, Rec. = 1.5 ft	2	43	0				
33.5		Hole stopped @ 33.5 ft							

LOG OF BORING HUBBARDTON ST0161(23).GPI VT AOT.GBT 9/7/06



STATE OF VERMONT
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MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING NUMBER: B-202
SHEET 1 of 1
DATE STARTED: 6/03/05
DATE COMPLETED: 6/07/05

PROJECT NAME: HUBBARDTON
SITE NAME: ELEVATE ROADWAY
STATION: 8+70
OFFSET: -9.00
VTSPG: N 439433.47 ft E 1459220.35 ft

PROJECT NUMBER: ST 0161(23)
SITE NUMBER: RT-30
GROUND ELEVATION: 411.08 ft
GROUNDWATER DEPTH: 2.0 ft 6/07/05
PROJECT PIN NUMBER: 03C044

BORING CREW
CREW CHIEF: TALLMAN
DRILLER: TALLMAN
LOGGER: RUSSELL

BORING RIG: LARGE SKID RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL & TUBE
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
			RUN	REC (%)	RQD (%)	Dip (deg)	Drill Rate (min/ft)		
0.0 - 0.4		Asphalt, 0.0 ft - 0.4 ft							
4.0 - 5.0		Cleaned out casing, 4.0 ft - 5.0 ft							
5.0 - 5.75		A-1-a, SaGr, gry, Moist, Rec. = 0.5 ft	R	13.2	56.6	29.1	14.3		
5.75 - 7.0		Cleaned out casing, 5.75 ft - 7.0 ft							
7.0 - 9.0		Visual Class: Broken Rock (Slate), gry, Moist, Rec. = 1.1 ft, 7.0 ft - 9.0 ft	25	13.0					
9.0 - 10.7		A-4, SaSl with a Trace of Organics (4.0%), gry, Moist, Rec. = 0.7 ft, Sample was tested for Limits	22	32.2	19.4	33.0	47.6		
10.7 - 13.0		A-4, Si with Little Organics (13.3%), brn, MTW, Rec. = 0.7 ft, Possible log mat 10.0'-13.0'	22	80.7					
13.0 - 14.0		Shelby Tube, brn, MTW, Rec. = 1.25 ft, 14.0 ft - 16.0 ft							
14.0 - 17.0		A-8, Peat (79.8%), brn, MTW, Rec. = 1.4 ft, 17.0 ft - 19.0 ft	3	375.1					
17.0 - 19.0		A-8, Peat (84.1%), brn, MTW, Rec. = 1.85 ft, 19.0 ft - 21.0 ft, Consolidation sample		382.2					
19.0 - 21.0									
21.0 - 22.2		A-4, Si with Little Organics (12.2%), brn, MTW, Rec. = 1.6 ft	1	93.9					
22.2 - 25.0		A-4, Si, gry, MTW		30.4	0.3	4.5	95.2	21	3
25.0 - 26.2		Broken Rock material, gry, Moist, Rec. = 0.2 ft, 26.0 ft - 26.2 ft	R	Top of Bedrock @ 26.2 ft					
26.2 - 27.0		Greenish gray, Slate, Competent, Moderately hard, Unweathered, NXMDC, 26.2 ft - 31.2 ft, Rec. = 4.15 ft	1	83	40	20	10		
27.0 - 28.0							9		
28.0 - 29.0							9		
29.0 - 30.0							9		
30.0 - 31.2							9		
31.2 - 36.2		Greenish gray, Slate, Competent, Moderately hard, Unweathered, NXMDC, 31.2 ft - 36.2 ft, Rec. = 5.0 ft	2	100	96	10	9		
36.2 - 37.0							9		
37.0 - 38.0							9		
38.0 - 39.0							9		
39.0 - 40.0							9		
40.0 - 41.0							9		
41.0 - 42.0							9		
42.0 - 43.0							9		
43.0 - 44.0							9		
44.0 - 45.0							9		
45.0 - 46.0							9		
46.0 - 47.0							9		
47.0 - 48.0							9		
48.0 - 49.0							9		
49.0 - 50.0							9		
50.0 - 51.0							9		
51.0 - 52.0							9		
52.0 - 53.0							9		
53.0 - 54.0							9		
54.0 - 55.0							9		
55.0 - 56.0							9		
56.0 - 57.0							9		
57.0 - 58.0							9		
58.0 - 59.0							9		
59.0 - 60.0							9		
60.0 - 61.0							9		
61.0 - 62.0							9		
62.0 - 63.0							9		
63.0 - 64.0							9		
64.0 - 65.0							9		
65.0 - 66.0							9		
66.0 - 67.0							9		
67.0 - 68.0							9		
68.0 - 69.0							9		
69.0 - 70.0							9		
70.0 - 71.0							9		
71.0 - 72.0							9		
72.0 - 73.0							9		
73.0 - 74.0							9		
74.0 - 75.0							9		
75.0 - 76.0							9		
76.0 - 77.0							9		
77.0 - 78.0							9		
78.0 - 79.0							9		
79.0 - 80.0							9		
80.0 - 81.0							9		
81.0 - 82.0							9		
82.0 - 83.0							9		
83.0 - 84.0							9		
84.0 - 85.0							9		
85.0 - 86.0							9		
86.0 - 87.0							9		
87.0 - 88.0							9		
88.0 - 89.0							9		
89.0 - 90.0							9		
90.0 - 91.0							9		
91.0 - 92.0							9		
92.0 - 93.0							9		
93.0 - 94.0							9		
94.0 - 95.0							9		
95.0 - 96.0							9		
96.0 - 97.0							9		
97.0 - 98.0							9		
98.0 - 99.0							9		
99.0 - 100.0							9		
100.0 - 101.0							9		
101.0 - 102.0							9		
102.0 - 103.0							9		
103.0 - 104.0							9		
104.0 - 105.0							9		
105.0 - 106.0							9		
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107.0 - 108.0							9		
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109.0 - 110.0							9		
110.0 - 111.0							9		
111.0 - 112.0							9		
112.0 - 113.0							9		
113.0 - 114.0							9		
114.0 - 115.0							9		
115.0 - 116.0							9		
116.0 - 117.0							9		
117.0 - 118.0							9		
118.0 - 119.0							9		
119.0 - 120.0							9		
120.0 - 121.0							9		
121.0 - 122.0							9		
122.0 - 123.0							9		
123.0 - 124.0							9		
124.0 - 125.0							9		
125.0 - 126.0							9		
126.0 - 127.0							9		
127.0 - 128.0							9		
128.0 - 129.0							9		
129.0 - 130.0							9		
130.0 - 131.0							9		
131.0 - 132.0							9		
132.0 - 133.0							9		
133.0 - 134.0							9		
134.0 - 135.0							9		
135.0 - 136.0							9		
136.0 - 137.0							9		
137.0 - 138.0							9		
138.0 - 139.0							9		
139.0 - 140.0							9		
140.0 - 141.0							9		
141.0 - 142.0							9		
142.0 - 143.0							9		
143.0 - 144.0							9		
144.0 - 145.0							9		
145.0 - 146.0							9		
146.0 - 147.0							9		
147.0 - 148.0							9		
148.0 - 149.0							9		
149.0 - 150.0							9		
150.0 - 151.0							9		
151.0 - 152.0							9		
152.0 - 153.0							9		
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156.0 - 157.0							9		
157.0 - 158.0							9		
158.0 - 159.0							9		
159.0 - 160.0							9		
160.0 - 161.0							9		
161.0 - 162.0							9		
162.0 - 163.0							9		
163.0 - 164.0							9		
164.0 - 165.0							9		
165.0 - 166.0							9		
166.0 - 167.0							9		
167.0 - 168.0							9		
168.0 - 169.0							9		
169.0 - 170.0							9		
170.0 - 171.0							9		
171.0 - 172.0							9		

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION			BORING NUMBER: B-203 SHEET 1 of 2 DATE STARTED: 6/08/05 DATE COMPLETED: 6/09/05				
PROJECT NAME: HUBBARDTON SITE NAME: ELEVATE ROADWAY STATION: 10+20 OFFSET: -5.00 VTSPG: N 439582.14 ft E 1459240.61 ft		PROJECT NUMBER: ST 0161(23) SITE NUMBER: RT-30 GROUND ELEVATION: 410.6 ft GROUNDWATER DEPTH: 2.0 ft 6/09/05 PROJECT PIN NUMBER: 03C044							
BORING CREW CREW CHIEF: TALLMAN DRILLER: TALLMAN LOGGER: RUSSELL		BORING RIG: LARGE SKID RIG BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL & TUBE CHECKED BY: CAA							
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
		Asphalt, 0.0 ft - 0.4 ft							
5		A-1-b, SaGr, gry, Moist, Rec. = 1.0 ft	8	12.6	45.4	39.2	15.4		
		Advanced casing, 6.0 ft - 8.0 ft							
10		A-1-b, SaGr, gry, Moist, Rec. = 0.4 ft	26	11.5	48.6	35.4	16.0		
		A-1-b, SiGrSa, gry, Moist, Rec. = 1.0 ft, Some wood material was within sample	14	16.1	33.8	44.3	21.9		
		A-1-b, GrSa, gry, Moist, Rec. = 1.0 ft, Some wood material was within sample	17	15.2	39.4	41.7	18.9		
15		A-1-b, GrSa, gry, Moist, Rec. = 0.6 ft	10	13.0	45.5	41.4	13.1		
		Visual Class: Wood with some Organic material, Rec. = 0.75 ft, 17.0 ft - 19.0 ft, No Recovery on Shelby Tube attempt		86.8					
20		Visual Class: Wood with some Organic material, brn, MTW, Rec. = 1.8 ft, 19.0 ft - 20.0 ft	2	121.0					
		Visual Class: Wood material, brn, MTW, 20.0 ft - 20.6 ft		177.2					
		A-8, Peat (26.6%), brn, MTW, 20.6 ft - 21.0 ft		183.3					
		A-8, Peat (28.6%), brn, Wet, Rec. = 1.85 ft, 22.0 ft - 24.0 ft, Consolidation sample		499.1					
25		A-8, Peat (56.1%), brn, Wet, Rec. = 1.0 ft, 24.0 ft - 26.0 ft	WH	499.1					
		A-8, Peat (50.8%), brn, Wet, Rec. = 1.9 ft, 27.0 ft - 29.0 ft, Consolidation sample		466.4					
30		A-8, Peat (22.0%), brn, MTW, Rec. = 2.0 ft, 29.0 ft - 29.5 ft	WH	198.3					
		A-4, SaSi, gry, MTW		38.4	0.1	22.6	77.3	27	6
		Shelby Tube, gry, MTW, Rec. = 2.0 ft, 32.0 ft - 34.0 ft							
		A-6, SiCl, gry, MTW, Rec. = 2.0 ft	WH	46.0	0.0	1.2	98.8	38	18

LOG OF BORING HUBBARDTON ST0161(23).GPI VT AOT.GDT 9/7/06

VT Trans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION			BORING NUMBER: B-203 SHEET 2 of 2 DATE STARTED: 6/08/05 DATE COMPLETED: 6/09/05				
PROJECT NAME: HUBBARDTON SITE NAME: ELEVATE ROADWAY STATION: 10+20 OFFSET: -5.00 VTSPG: N 439582.14 ft E 1459240.61 ft		PROJECT NUMBER: ST 0161(23) SITE NUMBER: RT-30 GROUND ELEVATION: 410.6 ft GROUNDWATER DEPTH: 2.0 ft 6/09/05 PROJECT PIN NUMBER: 03C044							
BORING CREW CREW CHIEF: TALLMAN DRILLER: TALLMAN LOGGER: RUSSELL		BORING RIG: LARGE SKID RIG BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL & TUBE CHECKED BY: CAA							
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
		A-7-6, Cl, gry, MTW, Rec. = 2.0 ft, Consolidation sample		62.3	0.0	0.7	99.3	56	32
40		A-6, Cl, gry, MTW, Rec. = 2.0 ft	WR	51.0	0.0	1.1	98.9	39	20
		A-6, SiCl, gry, MTW, Rec. = 2.0 ft, Triaxial sample		38.4	0.0	5.2	94.8	32	16
45		A-4, SaSi, gry, Wet, Rec. = 1.5 ft	2	23.6	5.3	28.7	66.0		
		A-4, SaSi, gry, Wet, Rec. = 0.8 ft	WR	30.8	0.6	20.6	78.8		
		Top of Bedrock @ 47.9 ft							
50		Greenish gray & purple, Slate, Low RQD may be due to mechanical breakage, Moderately hard, Unweathered, NXMDC, 47.9 ft - 52.9 ft, Rec. = 4.3 ft	1	86	0	10	8		
							7		
							8		
							10		
							10		
55		Purple, Slate, Competent, Low RQD may be due to mechanical breakage, Moderately hard, Unweathered, NXMDC, 52.9 ft - 57.9 ft, Rec. = 5.0 ft	2	100	50	10	10		
							9		
							10		
							9		
							9		
60		Hole stopped @ 57.9 ft							
65									

LOG OF BORING HUBBARDTON ST0161(23).GPI VT AOT.GDT 9/7/06



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

BORING NUMBER: B-204
SHEET 1 of 2
DATE STARTED: 6/10/05
DATE COMPLETED: 6/14/05

PROJECT NAME: HUBBARDTON
SITE NAME: ELEVATE ROADWAY
STATION: 11+50
OFFSET: 8.50
VTSPG: N 439709.91 ft E 1459268.15 ft

PROJECT NUMBER: ST 0161(23)
SITE NUMBER: RT-30
GROUND ELEVATION: 411.27 ft
GROUNDWATER DEPTH: 1.0 ft 6/14/05
PROJECT PIN NUMBER: 03C044

BORING CREW
CREW CHIEF: TALLMAN
DRILLER: TALLMAN
LOGGER: RUSSELL

BORING RIG: LARGE SKID RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL & TUBE
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
0.0 - 0.5		Asphalt, 0.0 ft - 0.5 ft							
3.0 - 4.0		Cleaned out casing, 3.0 ft - 4.0 ft							
4.0 - 6.0	x x x	Visual Class: Possible Fill material, Broken Rock (Slate), gry, Moist, Rec. = 1.2 ft, 4.0 ft - 6.0 ft	14						
6.0 - 7.5		A-4, Si with Trace of Organics (6.6%), gry, MTW, Rec. = 1.5 ft	3	46.9					
7.5 - 8.9		A-4, Si with Trace of Organics (6.6%), gry, MTW, Rec. = 1.4 ft	2	55.5					
8.9 - 12.0		Visual Class: Wood material, brn, MTW, Rec. = 0.4 ft, 12.0 ft - 14.0 ft	7						
12.0 - 14.0		A-4, Si with Little Organics (16.2%), brn, MTW, Rec. = 0.2 ft	3	108.9					
14.0 - 17.0		Visual Class: Wood material, brn, MTW, Rec. = 0.25 ft, 17.0 ft - 19.0 ft	4						
17.0 - 19.0		Visual Class: Wood material, brn, MTW, Rec. = 0.1 ft, 19.0 ft - 21.0 ft	16						
19.0 - 22.0		No Rec., Traces of Wood, 22.0 ft - 24.0 ft	2						
22.0 - 25.0		A-8, Peat (40.0%), brn, MTW, Rec. = 1.1 ft, 25.0 ft - 27.0 ft	3	484.6					
25.0 - 28.0		A-8, Peat (27.6%), brn, MTW, Rec. = 1.2 ft, 28.0 ft - 30.0 ft, Consolidation sample		408.0					
28.0 - 30.0		A-4, Cisi, gry, MTW, Rec. = 2.0 ft	WH	47.1	0.0	20.4	79.6	30	7
30.0 - 35.0		A-6, SiCl, gry, MTW, Rec. = 2.0 ft, Sample was bagged from failed Shelby Tube attempt		44.9	0.1	11.4	88.5	35	11

LOG OF BORING HUBBARDTON_ST0161(23).GPJ VT_ADT.GDT 9/7/06



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

BORING NUMBER: B-204
SHEET 2 of 2
DATE STARTED: 6/10/05
DATE COMPLETED: 6/14/05

PROJECT NAME: HUBBARDTON
SITE NAME: ELEVATE ROADWAY
STATION: 11+50
OFFSET: 8.50
VTSPG: N 439709.91 ft E 1459268.15 ft

PROJECT NUMBER: ST 0161(23)
SITE NUMBER: RT-30
GROUND ELEVATION: 411.27 ft
GROUNDWATER DEPTH: 1.0 ft 6/14/05
PROJECT PIN NUMBER: 03C044

BORING CREW
CREW CHIEF: TALLMAN
DRILLER: TALLMAN
LOGGER: RUSSELL

BORING RIG: LARGE SKID RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL & TUBE
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
			RUN	REC (%)	ROD (%)	Dip (deg)	Drill Rate (min/ft)		
2.0		A-4, Si, gry, MTW, Rec. = 2.0 ft, Consolidation sample		34.4	0.0	2.2	97.8	30	6
4.0		A-6, SiCl, gry, MTW, Rec. = 2.0 ft	WR	50.2	0.3	5.1	94.6	39	17
4.0 - 43.0		Shelby Tube, gry, MTW, Rec. = 2.0 ft, 41.0 ft - 43.0 ft							
45.0		A-4, Cisi, gry, MTW, Rec. = 2.0 ft	WR	43.0	0.0	2.5	97.5	35	10
48.0		A-7-6, Cl, gry, MTW, Rec. = 2.0 ft, Consolidation sample		49.5	0.0	0.7	99.3	48	27
50.0		A-6, SiCl, gry, MTW, Rec. = 2.0 ft	WR	46.7	1.1	3.4	95.5	30	11
51.0 - 53.0		Shelby Tube, gry, MTW, Rec. = 2.0 ft, 51.0 ft - 53.0 ft							
55.0		A-4, Si, gry, MTW, Rec. = 2.0 ft	WR	31.0	0.0	5.6	94.4	22	6
58.5		A-4, Si, gry, MTW, Rec. = 1.35 ft, Consolidation sample		27.9	0.0	4.2	95.8	22	5
58.5		A-4, SiSa, gry, Wei, Rec. = 0.3 ft	WR	28.0	0.8	50.5	48.7		
58.5		Top of Bedrock @ 58.5 ft							
60.0		Purple, Slate, Competent, Moderately hard, Unweathered, NXMDC, 58.5 ft - 63.5 ft, Rec. = 4.5 ft	WR 1	90	65	15	9		
60.0 - 63.5		Hole stopped @ 63.5 ft					9		
63.5							8		
63.5							9		

LOG OF BORING HUBBARDTON_ST0161(23).GPJ VT_ADT.GDT 9/7/06



PROJECT NAME: HUBBARDTON
SITE NAME: ELEVATE ROADWAY
STATION: 13+15
OFFSET: 5.00
VTSPG: N 439874.31 ft E 1459282.59 ft

PROJECT NUMBER: ST 0161(23)
SITE NUMBER: RT-30
GROUND ELEVATION: 413.17 ft
GROUNDWATER DEPTH: 1.8 ft 6/17/05
PROJECT PIN NUMBER: 03C044

BORING CREW
CREW CHIEF: TALLMAN
DRILLER: TALLMAN
LOGGER: RUSSELL

BORING RIG: LARGE SKID RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL & TUBE
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
		Asphalt, 0.0 ft - 0.8 ft							
5		A-1-b, SiSaGr, gry, Moist, Rec. = 0.8 ft	12	20.8	44.1	32.5	23.4		
10		A-4, Si with a Trace of Organics (7.0%), brn, MTW, Rec. = 1.8 ft	WH	74.3					
		A-4, Si with Little Organics (10.7%), brn-gry, MTW, Rec. = 1.95 ft		87.5	0.2	19.4	80.4		
15		A-4, Si with a Trace of Organics (3.5%), brn-gry, MTW, Rec. = 1.0 ft	6	36.2					
		Visual Class: A-2-4, Si Gr Sa, gry, MTW, Rec. = 0.2 ft, 16.0 ft - 18.0 ft, Insufficient sample for testing	11						
20		A-4, SaSi with Little Organics (15.2%), brn, MTW, Rec. = 1.4 ft	2	112.2					
		A-8, Organic Soil with Silt (22.1%), brn, MTW, Rec. = 1.95 ft		110.4					
25		A-8, Peat (68.2%), brn, MTW, Rec. = 1.7 ft, 23.0 ft - 25.0 ft	2	397.0					
		A-8, Peat (32.4%), brn, MTW, Rec. = 1.45 ft, 26.0 ft - 28.0 ft, Consolidation sample		320.3					
30		A-8, Peat (44.0%), brn, MTW, Rec. = 2.0 ft, 28.0 ft - 30.0 ft	1	276.3					
		A-8, Organic Silt (14.7%), brn-gry, MTW, Rec. = 1.75 ft, 31.0 ft - 32.0 ft, Consolidation sample		125.2					
35		A-7-6, Cl with 4.3% Organics, gry, MTW	WH	68.4	0.0	3.0	97.0	52	24
		A-4, SaSi, gry, MTW, Rec. = 2.0 ft, Sample was tested for Limits		40.7	0.2	45.9	53.9		
		Shelby Tube, gry, MTW, Rec. = 2.0 ft, 36.0 ft - 38.0 ft							
40		A-4, Si, gry, Wet, Rec. = 2.0 ft	WR	29.3	0.0	13.0	87.0	25	5
		A-4, Si, gry, Wet, Rec. = 2.0 ft, Consolidation sample		29.4	0.0	9.9	90.1	24	4

LOG OF BORING HUBBARDTON ST0161(23).GPJ VT AOT.GDT 9/7/06



PROJECT NAME: HUBBARDTON
SITE NAME: ELEVATE ROADWAY
STATION: 13+15
OFFSET: 5.00
VTSPG: N 439874.31 ft E 1459282.59 ft

PROJECT NUMBER: ST 0161(23)
SITE NUMBER: RT-30
GROUND ELEVATION: 413.17 ft
GROUNDWATER DEPTH: 1.8 ft 6/17/05
PROJECT PIN NUMBER: 03C044

BORING CREW
CREW CHIEF: TALLMAN
DRILLER: TALLMAN
LOGGER: RUSSELL

BORING RIG: LARGE SKID RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL & TUBE
CHECKED BY: CAA

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
			RUN	REC (%)	ROD (%)	Dip (deg)	Drill Rate (min/ft)		
45		A-6, SiCl, gry, Wet, Rec. = 2.0 ft	WR	46.9	3.3	6.1	90.6	39	19
		A-7-6, Cl, gry, Wet, Rec. = 2.0 ft		37.5	0.0	0.6	99.4	45	21
50		A-7-6, SiCl, gry, Wet, Rec. = 2.0 ft	WR	54.0	0.0	1.9	98.1	42	19
		A-6, SiCl, gry, Wet, Rec. = 2.0 ft, Attempted Shelby Tube, No Rec.	WR	47.0	0.2	3.4	96.4	37	16
55		A-6, SiCl, gry, Wet, Rec. = 1.9 ft, Consolidation sample		46.4	0.0	3.0	97.0	40	19
		A-6, SiCl, gry, Wet, Rec. = 2.0 ft	WR	43.7	4.6	3.4	92.0	38	18
60		Shelby Tube, gry, Wet, Rec. = 1.6 ft, 59.0 ft - 61.0 ft							
65		A-4, ClSi, gry, Wet, Rec. = 2.0 ft	WR	35.5	0.0	1.4	98.6	29	10
		A-7-6, Cl, gry, Wet, Rec. = 2.0 ft, Consolidation sample		40.5	0.0	1.3	98.7	47	25
70		A-4, SaGrSi, gry, Wet, Rec. = 1.0 ft	WR	17.3	29.4	28.2	42.4	18	5
		Possible Boulders, 73.0 ft - 76.0 ft							
75		Gray, Greywacke, Possible Fill material, Hard, Unweathered, NXMDC, 76.0 ft - 77.0 ft, Rec. = 3.1 ft	1	62	40		12		
		White, Quartz, Possible Fill material, Very hard, Unweathered, 77.0 ft - 77.5 ft					15		
		Purple, Slate, Possible Fill material, Very hard, Unweathered, 77.5 ft - 81.0 ft					10		
80		Hole stopped @ 81.0 ft					8		
							8		
85									

LOG OF BORING HUBBARDTON ST0161(23).GPJ VT AOT.GDT 9/7/06