



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

BORING NUMBER: B-1
SHEET 1 of 1
DATE STARTED: 1/26/06
DATE COMPLETED: 2/08/06

PROJECT NAME: RANDOLPH
SITE NAME: TH-64
STATION: 100+81.0
OFFSET: -1.00
VTSPG: N 520679.569 ft E 1625838.865 ft

PROJECT NUMBER: BHO 1444(44)
SITE NUMBER: Braley Covered Bridge
GROUND ELEVATION: 579.4 ft
GROUNDWATER DEPTH: 10.3 ft 2/08/06

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: DAVISON

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: DLG

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
			RUN	REC (%)	ROD (%)	Dip (deg)	Drill Rate (min/ft)
		A-1-b, SiGrSa, brn, Moist, Rec. = 2.0 ft, Frozen material	R	11.8	31.1	45.3	23.6
		A-1-b, GrSiSa, brn, Moist, Rec. = 1.4 ft	27	13.4	24.5	50.2	25.3
		A-1-b, SiGrSa, brn, Moist, Rec. = 0.8 ft	11	6.7	29.0	50.3	20.7
		A-1-b, SiGrSa, brn, Moist, Rec. = 1.45 ft	10	11.1	23.5	56.3	20.2
10		A-2-4, SiSa, brn, Moist, Rec. = 2.0 ft	8	24.3	10.4	57.5	32.1
		A-1-b, GrSa, brn, Wet, Rec. = 0.8 ft	9	18.9	24.4	61.9	13.7
		A-1-b, SaGr, brn, MTW, Rec. = 0.8 ft	10	16.4	43.8	43.0	13.2
		No Recovery, 14.0 ft - 16.0 ft	8				
		No Recovery, 16.0 ft - 18.0 ft	18				
20		A-4, Si, gry, Moist, Rec. = 1.05 ft, Sample tested "NP" for Limits	10	32.5	0.0	1.7	98.3
		A-4, Si, gry, Moist, Rec. = 1.7 ft, Sample tested "NP" for Limits	10	27.5	0.0	12.1	87.9
		A-4, SiSa, brn-gry, Moist, Rec. = 1.0 ft	10	24.5	2.7	54.0	43.3
30		A-2-4, Sa, brn, MTW, Rec. = 1.2 ft	8	24.8	8.3	76.9	14.8
		A-2-4, Sa, brn, MTW, Rec. = 1.15 ft	17	23.6	9.9	73.2	16.9
40		A-2-4, SiSa, brn, MTW, Rec. = 1.4 ft, Started using drillers mud	16	24.4	7.8	64.0	28.2
		A-4, SiSa, brn-gry, Moist, Rec. = 1.3 ft	17	20.1	0.1	54.6	45.3
50		A-2-4, SiSa, gry, Moist, Rec. = 1.0 ft	9	22.3	0.8	66.4	32.8
		Top of Bedrock @ 53.5 ft					
		Gray, Meta-Limestone, with interbedded phyllite. Moderately hard. Drilling brecks from 55.5 feet to 56.2 feet. Intact rock is unweathered. Rock fragments from 55.5 feet to 56.2 feet are slightly weathered. Poor competency., Moderately hard, NXMDC, 53.5 ft - 58.5 ft, Rec. = 3.5 ft	1	70	44	35	6 5 6 6 7
60		Gray, Phyllite, Fair competency., Moderately soft, Slightly weathered, NXMDC, 58.5 ft - 59.5 ft, Rec. = 1.0 ft	2 3	100 100	60 100	40 40	18 13 17
		Gray, Meta-Limestone, with interbedded phyllite. Competent., Moderately hard, Unweathered, NXMDC, 59.5 ft - 61.5 ft, Rec. = 2.0 ft					
		Hole stopped @ 61.5 ft					

LOG OF BORING: RANDOLPH BHO 1444(44).GPI VT.ADT.GDT 3/23/06



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BORING NUMBER: B-2
 SHEET 1 of 1
 DATE STARTED: 2/09/06
 DATE COMPLETED: 2/14/06

PROJECT NAME: RANDOLPH
 SITE NAME: TH-64
 STATION: 100+96.0
 OFFSET: 5.00
 VTSPG: N 520670.311 ft E 1625851.411 ft

PROJECT NUMBER: BHO 1444(44)
 SITE NUMBER: Braley Covered Bridge
 GROUND ELEVATION: 580.83 ft
 GROUNDWATER DEPTH: 10.0 ft 2/14/06

BORING CREW
 CREW CHIEF: GARROW
 DRILLER: GARROW
 LOGGER: DAVISON

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
 BORING TYPE: WASH BORE
 SAMPLE TYPE: SPLIT BARREL
 CHECKED BY: DLG

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
			RUN	REC (%)	ROD (%)	Dip (deg)	Drill Rate (min/ft)
		A-1-b, SiGrSa, brn-gry, Moist, Rec. = 0.7 ft, Material was frozen.	R	12.3	27.4	47.5	25.1
		4.3 ft - 5.0 ft, Cleaned out casing A-2-4, SiSa, brn, Moist, Rec. = 0.8 ft	7	18.6	19.6	53.1	27.3
10		A-2-4, SiGrSa, brn, Moist, Rec. = 0.7 ft	6	19.6	27.8	48.5	23.7
		12.0 ft - 14.0 ft, Cobble stones					
		No Recovery. Trace of sand in sampler, brn, Moist, 15.0 ft - 17.0 ft	11				
20		A-2-4, SiSa, brn, MTW, Rec. = 1.2 ft	11	25.9	3.7	67.2	29.1
		A-2-4, Sa, brn, MTW, Rec. = 0.9 ft, Some fine graded broken rock material was within sample.	12	18.3	2.0	81.9	16.1
30		No Recovery. Appears to be fine sand, 30.0 ft - 32.0 ft	16				
		A-1-b, Sa, gry-brn, MTW, Rec. = 1.4 ft	13	19.7	4.3	80.1	15.6
		37.0 ft - 40.0 ft, Casing plugged up, Started using mud, Lost our water					
40		A-2-4, SiSa, gry-brn, MTW, Rec. = 1.2 ft	18	19.8	1.6	68.9	29.5
		A-4, SiSa, gry, MTW, Rec. = 1.1 ft	18	19.1	7.2	55.8	37.0
50		50.0 ft - 50.25 ft, No Rec., Hit Bedrock Gray, Meta-Limestone, with thin phyllite beds. Competent., Medium hard, Unweathered, NXMDC, 50.25 ft - 55.25 ft, Rec. = 4.7 ft	R 1	94	86	40	14 18 14 12 11
		Hole stopped @ 55.25 ft					
60							

LOG OF BORING RANDOLPH BHO 1444(44).GPI VT ADT.GDT 3/23/06



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BORING NUMBER: B-3
SHEET 1 of 1
DATE STARTED: 2/15/06
DATE COMPLETED: 2/22/06

PROJECT NAME: RANDOLPH
SITE NAME: TH-64
STATION: 101+46.0
OFFSET: -5.00
VTSPG: N 520668.394 ft E 1625902.209 ft

PROJECT NUMBER: BHO 1444(44)
SITE NUMBER: Braley Covered Bridge
GROUND ELEVATION: 582.71 ft
GROUNDWATER DEPTH: 13.0 ft 2/22/06

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: RUSSELL

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: DLG

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
			RUN	REC (%)	ROD (%)	Dip (deg)	Drill Rate (min/ft)
	× × ×	Fill Material, No sample, 0.0 ft - 2.0 ft					
		A-2-4, SiSa with some Wood material, brn, Moist, Rec. = 0.5 ft	2	16.8	5.3	70.2	24.5
10		A-2-4, SiSa with some Wood material, brn, Moist, Rec. = 0.9 ft	4	27.5	10.1	65.8	24.1
		A-1-b, GrSa, brn, MTW, Rec. = 0.7 ft	8	22.5	20.3	66.6	13.1
20		A-1-b, GrSa, brn, MTW, Rec. = 1.0 ft	6	18.9	27.4	60.1	12.5
		Cleaned out casing., 23.6 ft - 25.0 ft					
		A-1-b, GrSa, gry-brn, MTW, Rec. = 1.2 ft	16	15.0	32.2	51.8	16.0
30		A-4, SaSi, gry-brn, MTW, Rec. = 1.2 ft	15	25.7	2.0	43.0	55.0
		A-2-4, Sa, brn-gry, MTW, Rec. = 1.1 ft	18	18.3	18.0	68.1	13.9
		Cleaned out casing., 39.2 ft - 40.0 ft					
40		A-1-b, GrSa, brn-gry, MTW, Rec. = 1.1 ft	17	16.4	24.7	59.8	15.5
		A-2-4, Sa, gry, MTW, Rec. = 1.0 ft	13	22.1	5.1	80.2	14.7
50		A-1-b, Sa, gry, MTW, Rec. = 0.5 ft	15	18.3	18.9	66.5	14.6
		A-1-b, SaGr with Broken Rock within sample., gry, MTW, Rec. = 1.3 ft	R	9.9	52.7	31.2	16.1
		Gray, Phyllite, Poor competency., Moderately soft, Unweathered, BXMDC, 56.5 ft - 58.0 ft, Rec. = 0.5 ft	1	33	0	40	
60		Gray, Phyllite, Fair competency., Moderately soft, Unweathered, BXMDC, 58.0 ft - 61.0 ft, Rec. = 1.8 ft	2	60	50	40	
		Gray, Phyllite, Competent., Moderately soft, Unweathered, BXMDC, 61.0 ft - 64.0 ft, Rec. = 2.7 ft	3	90	73	40	
		Hole stopped @ 64.0 ft					

LOG OF BORING RANDOLPH BHO 1444(44).SPL VT ADT.GDT. 3/23/06



STATE OF VERMONT
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SUBSURFACE INFORMATION

BORING NUMBER: B-4
SHEET 1 of 1
DATE STARTED: 1/20/06
DATE COMPLETED: 1/25/06

PROJECT NAME: RANDOLPH
SITE NAME: TH-64
STATION: 101+54.5
OFFSET: 14.00
VTSPG: N 520647.972 ft E 1625906.016 ft

PROJECT NUMBER: BHO 1444(44)
SITE NUMBER: Braley Covered Bridge
GROUND ELEVATION: 582.43 ft
GROUNDWATER DEPTH: 12.0 ft 1/25/06

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: DAVISON

BORING RIG: LARGE SKID RIG w/AUTO HAMMER
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: DLG

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
			RUN	REC (%)	ROD (%)	Dip (deg)	Drill Rate (min/ft)
		A-2-4, GrSiSa, brn, Moist, Rec. = 1.1 ft	2	19.0	22.8	51.7	25.5
		A-1-a, SaGr, brn, Moist, Rec. = 0.75 ft	5	6.9	52.2	38.6	9.2
		A-2-4, SiSa, brn, Moist, Rec. = 0.9 ft	2	14.5	18.6	58.8	22.6
		A-2-4, GrSiSa, brn, Moist, Rec. = 1.0 ft	5	17.9	26.6	41.2	32.2
		A-1-b, GrSa, brn, Moist, Rec. = 0.5 ft	14	12.9	29.4	51.3	19.3
10		A-2-4, GrSiSa, brn, MTW, Rec. = 1.0 ft, Cleaned out casing	7	23.6	20.2	56.4	23.4
		A-1-b, Sa, brn, MTW, Rec. = 0.8 ft	7	20.4	20.0	63.6	16.4
		A-1-b, GrSa, brn, MTW, Rec. = 0.55 ft	6	23.6	21.8	61.6	16.6
		A-1-b, GrSa, brn, Wet, Rec. = 1.0 ft	6	22.4	26.9	59.0	14.1
		A-1-b, GrSa, brn, MTW, Rec. = 0.75 ft	7	18.6	31.8	54.5	13.7
20		A-1-b, GrSa, brn, Wet, Rec. = 0.8 ft	11	15.5	32.7	49.4	17.9
		A-4, SaSi, brn, MTW, Rec. = 1.15 ft	13	26.0	0.0	49.2	50.8
30		A-1-b, GrSa, brn, MTW, Rec. = 1.15 ft	35	14.5	28.8	57.3	13.9
		A-1-b, Sa, brn, MTW, Rec. = 1.15 ft	14	21.7	5.8	77.1	17.1
40		A-2-4, Sa, brn, Wet, Rec. = 1.0 ft	12	21.9	8.3	75.4	16.3
		A-1-b, SaGr, brn, Wet, Rec. = 0.95 ft	32	12.8	48.0	36.2	15.8
50		A-1-b, SiGrSa, gry, MTW, Rec. = 0.5 ft	R	12.1	31.6	46.5	21.9
		Top of Bedrock @ 51.7 ft					
		Gray, Meta-Limestone, interbedded with phyllite. Competent., Moderately hard, Unweathered, NXMDC, 51.7 ft - 56.7 ft, Rec. = 5.0 ft	1	100	86	50	7 10 8 7 6
60		Gray, Meta-Limestone, interbedded with phyllite. Competent., Moderately hard, Unweathered, NXMDC, 56.7 ft - 61.7 ft, Rec. = 4.75 ft	2	95	95	50	6 5 4 4 5
		Hole stopped @ 61.7 ft					

LOG OF BORING RANDOLPH BHO 1444(44).GPI VT AOT.GDT 1/23/06