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

BORING NUMBER: B-305
SHEET 1 of 1
DATE STARTED: 4/16/07
DATE COMPLETED: 4/17/07

PROJECT NAME: BETHEL
SITE NAME: VT-107
STATION: 128+02.00
OFFSET: -34.00
VTSPG: N 483898.90 ft E 1605659.07 ft

PROJECT NUMBER: BRF 022-1(14)
SITE NUMBER: BR-15
GROUND ELEVATION: 526.8 ft
GROUNDWATER DEPTH: 3.0 ft 4/18/07
PROJECT PIN NUMBER: 78F161

BORING CREW
CREW CHIEF: PORTER
DRILLER: PORTER
LOGGER: WERNER

BORING RIG: LAG TRACK 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 / RUN	M.C. (%) / REC (%)	GRAVEL (%) / RQD (%)	SAND (%) / Dip (deg)	FINES (%) / Drill Rate (min/ft)
		Field Note:, Fill material to level sight.					
		Field Class:, Cobbles & Boulder, NXDC, Cored ahead					
5		A-2-4, SiSa, brn, Wet, Rec. = 0.9 ft	4	22.8	7.7	59.3	33.0
		Field Note:, No recovery, Wet sand in barrel., NXDC, Cored ahead	4				
		A-1-b, SaGr with Wood pieces., brn, Wet, Rec. = 1.0 ft	40	17.7	48.6	35.1	16.3
ABUTMENT #2 BOT. PILE CAP EL=516.00 10		A-1-b, SaGr, brn, Wet, Rec. = 0.9 ft	38	12.2	44.3	37.8	17.9
		A-2-4, SiSa, brn, Wet, Rec. = 1.0 ft	13	23.9	4.9	69.6	25.5
15		A-2-4, SiSa, brn-gry, Wet, Rec. = 2.0 ft	14	22.4	3.5	69.7	26.8
		A-4, Si, gry, Wet, Rec. = 2.0 ft	24	21.7	0.2	18.6	81.2
		A-4, SaGrSi, gry, Wet, Rec. = 1.7 ft	72	14.5	23.6	21.9	54.5
20		A-4, SaGrSi, gry, Wet, Rec. = 0.75 ft	R	13.0	30.8	24.7	44.5
			R	17.2	31.4	30.9	37.7
25		A-4, SaGrSi, gry, Wet, Rec. = 0.2 ft		Top of Bedrock @ 25.2 ft			
ESTIMATED PILE TIP EL= 498.5		Light gray, Quartz-biotite gneiss, Competent, Very hard, Unweathered, NXMDC, 25.2 ft - 30.2 ft, Rec. = 5.0 ft	1	100	67	60	10 10 7 7 7
30		Light gray, Quartz-biotite gneiss, Competent, Very hard, Unweathered, NXMDC, 30.2 ft - 35.2 ft, Rec. = 5.0 ft	2	100	94	60	9 9 9 8 8
35		Hole stopped @ 35.2 ft					

STATE OF VERMONT
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SUBSURFACE INFORMATION

BORING NUMBER: B-306
SHEET 1 of 1
DATE STARTED: 3/27/07
DATE COMPLETED: 3/30/07

PROJECT NAME: BETHEL
SITE NAME: VT-107
STATION: 128+02.00
OFFSET: 25.00
VTSPG: N 483867.63 ft E 1605709.31 ft

PROJECT NUMBER: BRF 022-1(14)
SITE NUMBER: BR-15
GROUND ELEVATION: 531.81 ft
GROUNDWATER DEPTH: Hole Caved In
PROJECT PIN NUMBER: 78F161

BORING CREW
CREW CHIEF: GARROW
DRILLER: GARROW
LOGGER: CARRIERE

BORING RIG: SMALL SKID RIG
BORING TYPE: WASH BORE
SAMPLE TYPE: SPLIT BARREL
CHECKED BY: DLG

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT / RUN	M.C. (%) / REC (%)	GRAVEL (%) / RQD (%)	SAND (%) / Dip (deg)	FINES (%) / Drill Rate (min/ft)
		A-1-b, GrSa, brn, Moist, Rec. = 1.4 ft	20	34.1	31.7	53.5	14.8
		Visual Class:, SiSaGr, brn, Moist, Rec. = 0.5 ft, Insufficient sample for testing.	R				
		Field Note:, NXDC, Cleaned out casing.					
		Visual Class:, Broken Rock, Rec. = 0.7 ft	25				
10		A-1-b, SaGr, brn, Moist, Rec. = 0.8 ft	8	12.9	53.0	32.5	14.5
		A-2-4, SiGrSa, gry, Moist, Rec. = 0.8 ft	21	15.7	33.9	37.6	28.5
		A-2-4, Sa, brn, Moist, Rec. = 0.4 ft	10	24.7	12.7	72.1	15.2
		A-4, SiSa, gry, Moist, Rec. = 1.0 ft	17	30.6	6.1	49.5	44.4
ABUTMENT #2 BOT. PILE CAP EL=516.00		A-2-4, SiSa, brn, MTW, Rec. = 0.5 ft	13	32.9	1.2	71.2	27.6
		Field Note:, No Sample	R				
20		Field Note:, No Sample	56				
		A-1-b, SiSaGr, gry, Moist, Rec. = 1.2 ft	38	9.6	41.7	36.3	22.0
30		Field Note:, NXMDC, Cleaned out casing.					
ESTIMATED PILE TIP EL= 498.5				Top of Bedrock @ 35.0 ft			
		Light gray, Quartz-biotite gneiss, Competent, Very hard, Unweathered, NXMDC, 35.0 ft - 40.0 ft, Rec. = 4.2 ft	1	84	76	50	22 13 14 16
40		Light gray, Quartz-biotite gneiss, Competent, Very hard, Unweathered, NXMDC, 40.0 ft - 41.8 ft, Rec. = 1.8 ft	2	100	100	50	25 25
		Light gray, Quartz-biotite gneiss, with quartz veins. Competent. Moderately weathered zone at 44.4 ft., Very hard, Unweathered, NXMDC, 41.8 ft - 45.0 ft, Rec. = 3.1 ft	3	97	93	60	31 23 21 18
		Hole stopped @ 45.0 ft					
		DRILLER'S NOTES: 1. Water table on .3/29/07 was around 12.4 ft.					
50							

BORING LOG SHEET 3

PROJECT NAME: BETHEL
PROJECT NUMBER: BRF 022-1(14)

FILE NAME: sf161bor.dgn
PROJECT LEADER: M. EVANS-MONGEON
DESIGNED BY: S. SCRIBNER
BORING LOG SHEET 3

PLOT DATE: 20-MAY-2011
DRAWN BY: G. ROKES
CHECKED BY: S. SCRIBNER
SHEET 57 OF 148