

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SUBSURFACE INFORMATION		HOLE NO.: B-1 SHEET 1 OF 1 DATE STARTED: 5/23/02 DATE COMPLETED: 5/28/02							
PROJECT NAME: BETHEL SITE NAME: BR 31 STATION: 3+11.00 GROUND EL.: 177.418		PROJECT NUMBER: BRF 0241(33) C/1 SITE NO.: VT 12 OFFSET: -4.00 G.W. DEPTH: Hole caved in							
BORING CREW CREW CHIEF: TALLMAN DRILLER: YOUNG LOGGER: SOMERS ADDITIONAL CREW:		BORING RIG: SMALL SKID RIG BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL							
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-2-4, SiSa, brn-gry, Moist, Rec. = 0.33m	4	16.9	10	66.4	23.6		
		A-4, SaSi, gry, Moist, Rec. = 0.50m	18	22	1.4	30.5	68.1		
		A-4, SaSi, gry, Moist, Rec. = 0.56m	51	12.8	16	35.5	48.5		
5		BXMDc, 5.48m-6.04m, Broke through Boulder							
		BXMDc, 6.24m-6.84m, Broke through Boulder							
		A-2-4, SiSaGr, gry, Moist, Rec. = 0.10m	R	11.5	37.4	35.4	27.2		
		BXMDc, 7.80m-8.10m, Broke through Boulder							
		Run#1: BXMDc, 8.53m-10.05m, Rec. = 1.52m, See Geologist's Report.	RUN	RECZ	RODZ	Dip°			
		Top of bedrock @ 8.53 m							
10		Run#2: BXMDc, 10.05m-11.57m, Rec. = 1.52m, See Geologist's Report.	2	100	95	50			
Hole stopped @ 11.57m									
Driller's Notes: 1. No ground water elevation. Hole caved in. 05/28/02 2. Moved hole 1.00m to the west.									
GEOLOGISTS REPORT: Run#1: Light gray hornblende gneiss, Hard to very hard, Unweathered, Competent. Run#2: Light gray hornblende gneiss, Hard to very hard, Unweathered, Competent.									

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SUBSURFACE INFORMATION		HOLE NO.: B-2 SHEET 1 OF 1 DATE STARTED: 5/21/02 DATE COMPLETED: 5/21/02							
PROJECT NAME: BETHEL SITE NAME: BR 31 STATION: 3+112.00 GROUND EL.: 176.790		PROJECT NUMBER: BRF 0241(33) C/1 SITE NO.: VT 12 OFFSET: 4.00 G.W. DEPTH:							
BORING CREW CREW CHIEF: TALLMAN DRILLER: TALLMAN LOGGER: SOMERS ADDITIONAL CREW:		BORING RIG: SMALL SKID RIG BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL							
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-4, SiSa, Lt/gry, Moist, Rec. = 0.40m	16	13.3	2.2	51.6	46.2		
		A-4, SiSa, brn-gry, Moist, Rec. = 0.28m	47	24.8	0.2	61.8	38		
5		A-4, SiSa, brn-gry, Moist, Rec. = 0.30m	42	21.5	56.1	43.9			
		A-2-4, SiGrSa, gry, Moist, Rec. = 0.25m	R	12.7	35.1	39.2	25.7		
		Broken Rock or Possible Ledge at 6.40m							
		Run#1: BXMDc, 7.31m-8.83m, Rec. = 1.23m, See Geologist's Report.	RUN	RECZ	RODZ	Dip°			
		Top of bedrock @ 7.31 m							
		Run#2: BXMDc, 8.83m-10.35m, Rec. = 1.52m, See Geologist's Report.	2	100	95	50			
10									
Hole stopped @ 10.35m									
GEOLOGISTS REPORT: Run#1: Gray hornblende gneiss, Hard to very hard, Unweathered, Competent. Run#2: Gray hornblende gneiss, Hard to very hard, Unweathered, Competent.									

TOP OF ABUT. #2 FTG. ELV. = 169.750

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SUBSURFACE INFORMATION		HOLE NO.: B-3 SHEET 1 OF 1 DATE STARTED: 4/26/02 DATE COMPLETED: 4/26/02							
PROJECT NAME: BETHEL SITE NAME: BR 31 STATION: 3+173.00 GROUND EL.: 175.972		PROJECT NUMBER: BRF 0241(33) C/1 SITE NO.: VT 12 OFFSET: -7.00 G.W. DEPTH:							
BORING CREW CREW CHIEF: TALLMAN DRILLER: TALLMAN LOGGER: SOMERS ADDITIONAL CREW:		BORING RIG: LARGE SKID RIG BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL							
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		A-2-4, SiSa, brn, Moist, Rec. = 0.29m	2	17.9	14	62.4	23.6		
		A-2-4, Sa, brn, Moist, Rec. = 0.18m	4	16.5	7.6	72.6	19.8		
		A-2-4, SiSa, brn, Moist, Rec. = 0.28m	2	17.2	8.4	67.6	24		
		Visual Class: Broken Brick, red, Dry, Rec. = 0.31m	8	24.8					
5		Visual Class: Various Fill Material, red-brn, Moist, Rec. = 0.22m	10	13.9					
		A-4, SaSi, brn, Moist, Rec. = 0.53m	2	29.3	12.3	41.1	46.6		
		A-4, SaSi, brn, Moist, Rec. 0.11m	R	32.7	0.1	46	53.9		
		VC: Weathered Rock, gry, Dry, Rec. = 0.11m		13.7					
		Run#1: BXGDC, 7.37m-8.87m, Rec. = 1.47m, See Geologist's Report.	RUN	RECZ	RODZ	Dip°			
		Top of bedrock @ 7.37 m							
		Run#2: BXGDC, 8.87m-10.37m, Rec. = 1.42m, See Geologist's Report.	2	95	52	40			
10									
Hole stopped @ 10.37m									
GEOLOGISTS REPORT: Run#1: Light gray hornblende gneiss, Hard to very hard, Unweathered, Competent. Run#2: Same as Run#1, but with quartz veins, Competent.									

TOP OF ABUT. #2 FTG. ELV. = 169.750

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SUBSURFACE INFORMATION		HOLE NO.: B-4 SHEET 1 OF 1 DATE STARTED: 4/29/02 DATE COMPLETED: 4/29/02							
PROJECT NAME: BETHEL SITE NAME: BR 31 STATION: 3+173.00 GROUND EL.: 175.725		PROJECT NUMBER: BRF 0241(33) C/1 SITE NO.: VT 12 OFFSET: -0.50 G.W. DEPTH: No water found (04/29/02)							
BORING CREW CREW CHIEF: TALLMAN DRILLER: TALLMAN LOGGER: RUSSELL ADDITIONAL CREW:		BORING RIG: LARGE SKID RIG BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL							
DEPTH	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 0.3 m	M.C. %	GRAVEL %	SAND %	FINES %	LL	PI
		No Rec.	8						
		A-3, Sa, brn, Moist, Rec. = 0.23m	5	28.1	0.2	89.9	9.9		
5		A-1-b, SiSaGr, brn, Moist, Rec. = 0.07m, Particles of Brick were within sample.	3	12	48.8	29.7	21.5		
		A-4, SaSi, brn, Moist, Rec. = 0.25m	4	30	16.4	38.4	45.2		
		A-4, SaSi, gry, Moist, Rec. = 0.10m, Wood particles were within sample.	4	41.7	4	41	55		
		Run#1: BXMDc, 8.83m-10.35m, Rec. = 1.50m, See Geologist's Report.	RUN	RECZ	RODZ	Dip°			
		Top of bedrock @ 8.83 m							
		Run#2: BXMDc, 10.35m-11.87m, Rec. = 1.48m, See Geologist's Report.	2	97	92	40			
10									
Hole stopped @ 11.87m									
Driller's Notes: 1. No ground water elevation found. 04/29/02									
GEOLOGISTS REPORT: Run#1: Light gray hornblende gneiss with quartz veins, Hard to very hard, Unweathered, Competent. Run#2: Light gray hornblende gneiss with quartz veins, Hard to very hard, Unweathered, Competent.									

PROJECT: BETHEL	PROJECT NO.: BRF 0241 (33) C/2
DESIGN FILE NAME: 02c180/Structures/s02c180bor.dgn	PLOT DATE: 15-APR-2005
IPARM FILE NAME: sc180bor2.i	SURVEY DATE: 10/99
SURVEYED BY: ORVIS	DRAWN BY: J. TOUCHETTE
SQUAD LEADER: C. C. BENDA	DATE: 06/02 BORING LOGS
	SHEET: 26 OF 130

