

**STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH DIVISION
SUBSURFACE INFORMATION**




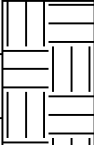
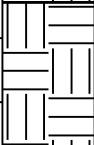
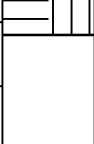
HOLE NO.: B-1
SHEET 1 OF 1
DATE STARTED: 6/18/99
DATE COMPLETED: 6/18/99

PROJECT NAME: GUILFORD
SITE NAME: BR-56
STATION: 40+118.50
GROUND EL.: 172.048

PROJECT NUMBER: BRO 1442 (24)
SITE NO.: TH-13
OFFSET: -6.50
G.W. DEPTH:

BORING CREW
CREW CHIEF: CHABOT
DRILLER: YOUNG
LOGGER: HOLT
ADDITIONAL CREW:

BORING RIG: TRACTOR
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, SaSi, gry, Moist, Rec. = 0.21m	R	10.2	17.9	35.8	46.3		
		BXDC, 2.49m-3.16m, No Rec. (Apparently silty-hardpan and stones.) Advanced casing to 3.86m							
			Top of bedrock @ 3.86 m						
		Run #1: BXMDC, 3.86m-4.58m, Rec. = 0.61m, See Geologist's Report.	RUN	REC%	RQD%	Dip°			
5		Run #2: BXMDC, 4.58m-5.72m, Rec. = 0.66m, See Geologist's Report.	1	85	14	50			
		Run #3: BXMDC, 5.72m-7.10m, Rec. = 1.32m, See Geologist's Report.	2	58	17	60			
			3	96	70	60			
		Hole stopped @ 7.10m							
		<p>Note:</p> <p>4.58m-5.72m: Many 0.05m to 0.08m layers of very soft rock. Some of which were ground up and washed out while coring.</p> <p>Material from surface to 0.75m below surface appeared to be a soft SaSi then changed to a dense gray material.</p>							

GEOLOGISTS REPORT:

RUN#1: Gray Interbedded Impure Limestone and Schist.
Moderately Hard. Moderately Weathered. Poor Competency.

RUN#2: Same as Run #1. Poor Competency.

RUN#3: Same as Run #1. But Unweathered and Competent.

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HOLE NO.: B-2
SHEET 1 OF 1
DATE STARTED: 6/17/99
DATE COMPLETED: 6/17/99

PROJECT NAME: GUILFORD
SITE NAME: BR-56
STATION: 40+128.50
GROUND EL.: 172.447

PROJECT NUMBER: BRO 1442 (24)
SITE NO.: TH-13
OFFSET: 6.50
G.W. DEPTH:

BORING CREW
CREW CHIEF: CHABOT
DRILLER: YOUNG
LOGGER: MCGLYNN
ADDITIONAL CREW:

BORING RIG: TRACTOR
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, SaSiGr HP, gry, Dry, Rec. = 0.18m	R	9.4	44.5	25.3	30.2		
		Top of bedrock @ 2.77 m							
		Run #1: BXMDC, 2.77m-3.74m, Rec. = 0.65m, See Geologist's Report.	RUN	REC%	RQD%	Dip°			
			1	67	41	60			
		Run #2: BXMDC, 3.74m-5.24m, Rec. = 1.48m, See Geologist's Report.	2	97	80	60			
5		Run #3: BXMDC, 5.24m-6.27m, Rec. = 0.96m, See Geologist's Report.	3	96	80	60			
		Hole stopped @ 6.27m							
		Note: Material from surface to 0.75m below surface appeared to be a soft SaSi then changed to a dense gray material.							
10									

GEOLOGISTS REPORT:

RUN#1: Gray Interbedded Impure Limestone and Schist.
Moderately Hard. Unweathered. Fair Competency.

RUN#2: Same as Run #1. Competent.

RUN#3: Same as Run #1. Competent.



STATE OF VERMONT
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BORING NUMBER: B-3
 SHEET 1 of 1
 DATE STARTED: 10/19/04
 DATE COMPLETED: 10/19/04

PROJECT NAME: GUILFORD PROJECT NUMBER: BRO 1442(24)
 SITE NAME: BR-56 SITE NUMBER: TH-13
 STATION: 40+118.50 GROUND ELEVATION: 172.27 m
 OFFSET: 6.50 GROUNDWATER DEPTH:
 VTSPG: N 34063.98 m E 490399.10 m PROJECT PIN NUMBER: 94J076

BORING CREW BORING RIG: LAG TRACK RIG
 CREW CHIEF: HOLT BORING TYPE: WASH BORE
 DRILLER: HOLT SAMPLE TYPE: SPLIT BARREL
 LOGGER: GARROW CHECKED BY: DLG

DEPTH (m)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 300mm	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
			RUN	REC (%)	RQD (%)	Dip (deg)	Drill Rate (min/0.3m)
0.33		A-2-4, Sa, brn, Moist, Rec. = 0.33 m	2	31.7	1.8	86.9	11.3
0.47		A-2-4, GrSiSa HP, gry, Moist, Rec. = 0.47 m	39	10.0	23.4	44.5	32.1
0.44		A-4, GrSaSi HP, gry, Moist, Rec. = 0.44 m	51	10.4	29.6	33.7	36.7
2.75		Top of Bedrock @ 2.75 m					
0.75		Light gray, Micaceous and Feldspathic Schist, Competent, Moderately hard, Unweathered, BXMDC, 2.75 m - 3.57 m, Rec. = 0.75 m	1	91	48	55	
1.40		Light gray, Micaceous and Feldspathic Schist, Competent, Moderately hard, Unweathered, BXMDC, 3.57 m - 5.07 m, Rec. = 1.40 m	2	93	79	55	
5.07		Hole stopped @ 5.07 m					
6.00		DRILLER'S NOTES: Station and offset were obtained from topographic features. Unable to obtain ground water elevations.					
7.00							
8.00							
9.00							
10.00							
11.00							
12.00							
13.00							
14.00							

LOG OF BORING GUILFORD BRO1442(24).GRJ VT AOT.GDT 9/15/06



STATE OF VERMONT
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BORING NUMBER: B-4
 SHEET 1 of 1
 DATE STARTED: 10/20/04
 DATE COMPLETED: 10/21/04

PROJECT NAME: GUILFORD PROJECT NUMBER: BRO 1442(24)
 SITE NAME: BR-56 SITE NUMBER: TH-13
 STATION: 40+128.50 GROUND ELEVATION: 172.24 m
 OFFSET: -6.50 GROUNDWATER DEPTH:
 VTSPG: N 34068.66 m E 490414.69 m PROJECT PIN NUMBER: 94J076

BORING CREW BORING RIG: LAG TRACK RIG
 CREW CHIEF: HOLT BORING TYPE: WASH BORE
 DRILLER: HOLT SAMPLE TYPE: SPLIT BARREL
 LOGGER: GARROW CHECKED BY: DLG

DEPTH (m)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 300mm	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
			RUN	REC (%)	RQD (%)	Dip (deg)	Drill Rate (min/0.3m)
0.35		A-1-b, GrSa, Dk/brn, Moist, Rec. = 0.35 m	5	23.9	36.3	49.5	14.2
0.41		A-1-b, SiSaGr HP, gry, Moist, Rec. = 0.41 m	51	7.2	55.1	22.5	22.4
0.42		A-4, GrSaSi HP, gry, Moist, Rec. = 0.42 m	46	11.0	20.2	36.7	43.1
0.60		A-4, GrSaSi HP, gry, Moist, Rec. = 0.60 m	80	10.4	30.8	31.9	37.3
0.29		A-4, SaSi HP, gry, Moist, Rec. = 0.29 m	R	10.1	18.2	35.9	45.9
		A-1-b, SaGr HP, gry, Moist	R	8.4	44.0	42.3	13.7
5.00 - 5.41		5.00 m - 5.41 m, Visual Class: Very Weathered Rock	R	19.1			
6.00 - 6.09		6.00 m - 6.09 m, Visual Class: Weathered Rock	R	9.1			
		Top of Bedrock @ 6.64 m					
6.64 - 7.71		Light gray, Micaceous and Feldspathic Schist, with closely spaced jointing, Not competent, Moderately hard, Moderately weathered, BXMDC, 6.64 m - 7.71 m, Rec. = 0.54 m	1	50	0	70	
7.71 - 8.83		Light gray, Micaceous and Feldspathic Schist, with closely spaced jointing, Not competent, Moderately hard, Moderately weathered, BXMDC, 7.71 m - 8.83 m, Rec. = 0.35 m	2	31	0	70	
8.83		Hole stopped @ 8.83 m					
		DRILLER'S NOTES: Station and offset were obtained from topographic features. Unable to obtain ground water elevations.					

LOG OF BORING GUILFORD BRO1442(24).GPR VT AOT.GDT 9/15/06