

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-201							
MIDDLESEX BRF 024-1(37) VT-12 BR-77		Page No.: 1 of 1		Pin No.: 10C220							
Checked By: NSM		Casing		Sampler							
Groundwater Observations		Date		Depth (ft)							
Notes		Date		Depth (ft)							
Boring Crew: GARROW, SALISBURY, PORTER		Type: WB		SS							
Date Started: 1/18/12 Date Finished: 1/25/12		I.D.: 4 in		1.5 in							
VTSPG NAD83: N 660731.08 ft E 1619938.77 ft		Hammer Wt: N.A.		140 lb.							
Station: 28+97.41 Offset: 22.39		Hammer Fall: N.A.		30 in.							
Ground Elevation: 724.0 ft		Hammer/Rod Type: Auto/AWJ		Rig: CME 45C TRACK C = 1.34							
Depth (ft)	Strata (1)	Run (Dip deg.)	Core Rec. % (ROD %)	Drill Rate (minutes/ft)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
5	A-2-4, GrSa, brn, Moist, Rec. = 0.8 ft Field Note: NXDC, Cobbles Field Note: No Recovery. Stone in sampler				WH-2-3-R (5) 8-5-2-2 (7)	16.8	26.8	55.1	18.1		
10	Field Note: NXDC, Cobbles A-2-4, GrSiSa, brn, Moist, Rec. = 1.5 ft				9-16-19-22 (35)	13.9	27.8	38.7	33.5		
15	Field Note: NXDC, Cobbles A-1-b, SiSaGr, brn, Moist, Rec. = 0.6 ft				10-27-52-41 (79)	8.0	53.5	26.3	20.2		
20	Field Note: NXDC, Boulder A-1-b, SiGrSa, brn, MTW, Rec. = 1.1 ft				4-10-18-17 (28)	10.8	38.5	38.9	22.6		
25	Visual Classification, SiGrSa, brn, MTW, Rec. = 0.5 ft, Similar material as 19-21 ft. Field Note: NXDC, Boulder				R@6.0"	11.0					
30	A-1-b, SiGrSa, brn, MTW, Rec. = 1.2 ft				13-23-25-22 (48)	10.8	35.9	39.5	24.6		
35	A-1-b, GrSa, brn, MTW, Rec. = 0.3 ft 33.8 ft - 35.2 ft, Grayish green, Chlorite-plagioclase-quartz-muscovite Schist, Moderately hard, Unweathered, Good rock, NXMDC, RMR = 79 35.2 ft - 38.8 ft, Grayish green, Chlorite-plagioclase-quartz-muscovite Schist, Moderately hard, Unweathered, Good rock, NXMDC, RMR = 79	1 (75)	100 (100)	6 (100)							
40	38.8 ft - 43.8 ft, Grayish green, Chlorite-plagioclase-quartz-muscovite Schist, Moderately hard, Unweathered, Good rock, NXMDC, RMR = 76	3 (75)	92 (74)	9 (74)							
45	Hole stopped @ 43.8 ft										
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.											

BOTTOM OF PILE CAP
ELEV. 718.00

ESTIMATED PILE
TIP ELEV. 690.00

BORING LOG 2 MIDDLESEX BRF 024-1(37).GPJ - VERMONT AOT.GDT 10/28/14

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-202							
MIDDLESEX BRF 024-1(37) VT-12 BR-77		Page No.: 1 of 1		Pin No.: 10C220							
Checked By: NSM		Casing		Sampler							
Groundwater Observations		Date		Depth (ft)							
Notes		Date		Depth (ft)							
Boring Crew: GARROW, SALISBURY, PORTER		Type: WB		SS							
Date Started: 1/26/12 Date Finished: 1/31/12		I.D.: 4 in		1.5 in							
VTSPG NAD83: N 660793.58 ft E 1619918.87 ft		Hammer Wt: N.A.		140 lb.							
Station: 29+46.53 Offset: -21.09		Hammer Fall: N.A.		30 in.							
Ground Elevation: 724.0 ft		Hammer/Rod Type: Auto/AWJ		Rig: CME 45C TRACK C = 1.34							
Depth (ft)	Strata (1)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %			
5	Field Note: NXDC, Sand, No Recovery. A-1-b, SaGr, brn, Moist, Rec. = 1.2 ft	1-3-5-4 (8)	15.4	41.4	39.7	18.9					
10	Field Note: NXDC, Gravel, No Recovery. A-1-b, GrSa, brn, Moist, Rec. = 1.5 ft	12-20-19-17 (39)	16.0	36.9	45.4	17.7					
15	Field Note: NXDC, Cobbles A-4, Si, gry, Moist, Rec. = 1.5 ft	3-3-2-3 (5)	40.4	0.3	2.2	97.5	38	6			
20	A-4, GrSaSi, brn, Moist, Rec. = 1.5 ft Field Note: NXDC, Gravel, No Recovery.	10-11-14-16 (25) 16-19-17-15 (36)	13.3	23.8	35.5	40.7					
30	Field Note: NXDC, Cobbles A-1-b, SiGrSa, gry, Moist, Rec. = 1.0 ft, Broken rock was within sample. Field Note: NXDC, Cobbles	8-16-22-R@2.5"	7.5	38.7	39.9	21.4					
35	Field Note: NXDC, Cobbles A-2-4, GrSiSa, brn, Moist, Rec. = 0.9 ft	5-5-6-8 (11)	13.1	20.1	46.0	33.9					
40	Field Note: NXDC, Cobbles A-2-4, SaSiGr (HP), gry, MTD, Rec. = 1.2 ft	32-40-30-R@0.0"	8.5	36.9	27.8	35.3					
45	Field Note: NXDC, Gravel, No Recovery. A-4, GrSaSi (HP), gry, MTD, Rec. = 0.5 ft	R@6.0"	9.1	20.0	38.7	41.3					
50	Hole stopped @ 48.5 ft No Ledge to Depth.										
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.											

BOTTOM OF PILE CAP
ELEV. 718.00

ESTIMATED PILE
TIP ELEV. 665.00

BORING LOG 2 MIDDLESEX BRF 024-1(37).GPJ - VERMONT AOT.GDT 10/28/14

PROJECT NAME: MIDDLESEX
PROJECT NUMBER: BRF 024-1(37)

FILE NAME: si0c220bor.dgn PLOT DATE: 13-JAN-2015
PROJECT LEADER: C. CARLSON DRAWN BY: C. BURRALL
DESIGNED BY: MATERIALS & RESEARCH CHECKED BY: H. SALLS
BORING LOGS SHEET 17 OF 46