

GZA Geoenvironmental, Inc. Engineers and Scientists		Cornwall BRS 0172(6)S Cornwall, Vermont		Boring No.: B-201(OW) Page: 1 of 3 File No.: 22721.3 Check: TAD	
Contractor: NH Boring Foreman: Bob Doherty Logged by: Jay Hodgkinson Date Start/Finish: 9-18-01 / 9-21-01 Boring Location: Sta. 1+106.6, 13.9 mL GS Elev.: 49.0 +/- Datum: NAVD 88		Auger/Casing: HW Type: 102mm I.D.: 35mm Hammer Wt.: 136.1kg Hammer Fall: 0.76m Rig Type: CME 45		Sampler: SS Date: 9/21/01 Time: 1530 Depth: 1.33m Casing: deep well Stab: 15 min	
GROUNDWATER READINGS					
Date	Time	Depth	Casing	Stab	
9/21/01	1530	1.33m	deep well	15 min	
9/24/01	1430	1.25m	deep	3 days	
9/24/01		2.25m	shallow	3 days	
Sample Information					
Depth (m)	No.	Pen./Rec. (m)	Depth (m)	Blows (/0.15m)	N Value
1	S-1	0.61/0.30	1.52-2.13	5-5 6-8	11
2	S-2	0.61/0.20	2.13-2.74	11-12 11-12	23
3	S-3	0.61/0.56	2.74-3.35	4-6 5-7	11
4	S-4	0.61/0.61	3.35-3.96	14-11 13-13	24
5	S-5	0.61/0.61	3.96-4.57	5-6 5-6	11
6	S-6	0.61/0.61	4.57-5.18	7-7 5-6	12
7	S-7	0.61/0.51	6.10-6.71	2-2 2-3	4
8	S-8	0.61/0.61	6.71-7.32	3-3 2-3	5
9	U-1	0.61/0.56	7.32-7.92	push	
Description & Classification: Stiff, brown, Silty CLAY, mottled. (A-7-6) Very stiff, brown, Silty CLAY, with fine SAND and Silt seams, mottled. (A-7-5) Stiff, brown, Silty CLAY, with Silt seams, mottled. (A-7-6) Very stiff, brown, Silty CLAY with Silt seams and lenses, mottled. (A-7-6) Stiff, brown, Silty CLAY with Silt seams and lenses, mottled. (A-7-6) Stiff, brown, Silty CLAY with Silt seams and lenses, mottled. (A-7-6) Soft, gray, SILT & CLAY, with 51mm (2 inch) seam of brown, SILT and fine SAND. (A-6) Medium stiff, gray, Clayey SILT, trace fine Sand. (A-5) Gray, Silty CLAY. (A-7-6) VS=68.03 kPa, vane tip at 7.16m (23.5 feet). Tv=24.90 kPa (520 psf) Pp=47.88 kPa (1,000 psf)					
Equipment Installed: FILTER SAND, 25mm SCH. 40 PVC RISERS, BENTONITE SEAL, 4.88m, 3.96m, 4.88m, 6.10m, 25mm SCH. 40 PVC 0.01 SLOTTED SCREEN, 9.14m					
Remarks: 1. VS=Vane Shear Test. Split spoon sample was driven through soil disturbed by VS test. 2. Tv=Torvane, Pp= Pocket Penetrometer					
Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.					

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Sample Information					
Depth (m)	No.	Pen./Rec. (m)	Depth (m)	Blows (/0.15m)	N Value
9	S-9	0.61/0.61	9.14-9.75	4-7 9-7	16
10	S-10	0.61/0.51	10.67-11.28	5-1 9-4	10
11	S-11	0.61/0.43	12.19-12.80	9-7 7-6	14
12	S-12	0.61/0.28	13.72-14.33	8-5 6-7	11
13	S-13	0.61/0.25	15.24-15.85	4-4 4-4	8
14	S-14	0.61/0.23	16.76-17.37	7-4 6-11	10
15	S-15	0.61/0.51	18.29-18.90	5-4 3-1	7
Description & Classification: Very stiff, gray, Clayey SILT, trace fine Sand. (A-5) Loose, gray, fine SAND and Silt, trace Gravel. (A-4) Medium dense, gray, fine SAND, some Silt, trace Gravel. (A-2-7) Medium dense, gray, fine SAND, some Silt. (A-2-7) Loose, gray, fine SAND and Silt. (A-4) Loose, gray, fine SAND and Silt. (A-4) Loose, gray, fine SAND, some Silt. (A-2-7)					
Equipment Installed: 25mm SCH. 40 PVC RISER, FILTER SAND, 12.19m, BENTONITE SEAL, 13.72m, DRILL CUTTINGS, 25mm SCH. 40 PVC RISERS					
Remarks: 3. Drilling change at 10.36m (34 feet) below ground surface.					
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Sample Information					
Depth (m)	No.	Pen./Rec. (m)	Depth (m)	Blows (/0.15m)	N Value
20	S-16	0.61/0.15	19.81-20.42	2-2 2-5	4
21	S-17	0.61/0.03	21.34-21.95	18-17 12-10	29
22	S-18	0.61/0.15	22.86-23.47	13-12 20-28	32
23	S-19	0.25/0.05	24.38-24.64	14-43 100/ 152mm	143
24	S-20	0.61/0.25	25.91-26.52	16-9 12-13	21
Description & Classification: Very loose, gray, SILT and fine Sand. (A-5) Medium dense, gray, fine to coarse SAND, some Gravel, little Silt. (A-1-b) Dense, gray, fine to coarse SAND, some Silt, little Gravel. (A-2-4) Very dense, gray, fine to coarse SAND, some Gravel, little Silt. (A-1-b) Medium dense, gray, fine to medium SAND, some Silt, little Gravel. (A-2-4)					
Equipment Installed: 25mm SCH. 40 PVC RISER, FILTER SAND, BENTONITE SEAL, 12.19m, DRILL CUTTINGS, 25mm SCH. 40 PVC 0.01 SLOTTED SCREEN, 25.91m					
Remarks: 4. Drilling change at 21.03m (69 feet).					
Stratification lines represent approximate boundary between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.					

BORING LOG SHEET 6

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83(92)

PROJECT:	CORNWALL	PROJECT NO.:	BRS 0172 (6)
DESIGN FILE NAME:	z85e04bor logs.dgn	PLOT DATE:	2/5/2010
IPARM FILE NAME:		SURVEY DATE:	
SURVEYED BY:		DRAWN BY:	J. HODKINSON
SQUAD LEADER:	C. C. BENDA	DATE:	03/01
		SHEET:	74 OF 144