



Project: Wells G & H Remedial Investigation
 TDD No.: F1-8409-01
 Sheet: 1 of 3
 Hole No.: S84
 Location: Rifle Range Road 300 fet from Well G
 Angle from Horiz.: Vertical

Begun: 5 MAR 85
 Completed: []
 Driller: NEBC
 Drill Make & Model: Mobile B-53
 Hole Dia.: 3.5"
 Overburden (ft): 81.5
 Rock (ft): 10
 Total Depth: 91.5
 Core Recovery (ft): 10
 Core Bxs: 1
 Samples: 15
 El. Top of Casing: []
 Ground El.: S84S-45.90, S84M-45.99, S84D-46.13
 Depth to Top of Rock: 81.5
 Sample Hammer Weight/Fall: 140 lbs/30"
 Casing Solid Screen: Sch 80 PVC 1.5" I.D. 0.010 slot
 NUS Inspector: Ross

Depth	Sample No.	ROCK		SOIL			Well Construction	Stratum Description	Notes
		Core/Rec (in)	RQD	Pen/Rec (in)	Depth Interval (ft)	Blows/6"			
5	01			24/14	0-2	4/4/5/6	46 [Well Construction Diagram]	1t BN F/M SAND	
	02			24/12	5-7	22/23/23/25		1t BN F/M SAND, SO C SAND, TR F/C Gravel	1
	03			24/22	10-12	13/17/21/25		1t BN C SAND and F/C Gravel, TR M Sand S84S Top of Ottawa Sand 11' S84S Top of screen 13'	
04			24/6	15-17	10/8/36/92	1t BN F/C GRAVEL, SO M Sand S84S Bottom of screen 18'			
05			24/10	25-27	13/12/14/25	1t BN F/M SAND, TR F Gravel			
06			24/22	30-32	5/7/14/28	Green-BN M/C SAND, TR Gravel, TR F Sand			

GRANULAR SOILS PROPORTIONS ABBREVIATIONS
 Blows/Ft Density (USED)
 0-4 V. Loose Trace (TR) 0-10% F-Fine
 4-10 Loose Little (LI) 10-20% M-Medium
 10-30 M. Dense Some (SO) 20-35% C-Coarse
 30-50 Dense And 35-50% F/M-Fine to Medium
 >50 V. Dense F/C-Fine to Coarse
 V-Very
 GR-Gray
 BN-Brown
 YEL-Yellow

1. S84S sealed in overburden with cement/bentonite slurry from 11' to GS.



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 Sheet: 2 of 3
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Depth	ROCK			SOIL		Well Construction	Stratum Description	Notes
	Sample No.	Core/Rec. (in)	RQD	Pen/Rec (in)	Depth Interval (ft)			
				24/6	35-37	39/26/14/13	GR-BN F/C GRAVEL, SO It BN F Sand, TR Silt	
40				24/22	40-42	10/17/25/21	S84M Top of Ottawa Sand 39' S84M Top of screen 40' It BN M/C SAND, SO F Sand TR Gravel	2
45				24/24	45-47	11/8/13/14	S84M Bottom of screen 45' It BN-Green M SAND SO F Sand, TR C Sand, TR F/M Gravel	
50				11/6	50-52	32/52.5	It BN M/C SAND, TR F Sand	
55				24/18	55-57	22/30/35/34	It BN-Green C SAND, SO M Sand, TR F SAND, TR C Gravel	
60				12/12	60-62	44/110 R	It BN-Green F/M SAND, SO C Sand, SO F/M Gravel, TR Silt, TR Clay	
65				18/18	65-67	49/78/74	It BN-Green C SAND and F Gravel, SO F/M Sand, TR Silt, TR Clay	

REMARKS:

2. S84M sealed in overburden with cement/bentonite slurry from 39' to GS.



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 Sheet 3 of 3
 Date No.: S84

Location: Rifle Range Road 300 ft from Well G

Depth	ROCK			SOIL		Well Construction	Stratum Description	Notes
	Sample No.	Core/Rec (in)	ROD	Pen/Rec (in)	Depth Interval (ft)			
70				24/5	70-72	50/47/88/72	C SAND and F/M Gravel	
							S84D Top of screen 73'	
75				12/8	75-76	62/100.6	C SAND and F/M Gravel, Tr Silt, TR Clay	
							S84D Bottom of screen 78'	
80							Bedrock 81.5'	
							Dedham Granodiorite for 1' with 4' of Salem Gabbrodiorite cored to ensure bedrock	4
85								
90							EOB - 91.5'	

REMARKS:

- S84D sealed in overburden with cement/bentonite slurry from 68' to GS.
- S84D was cored to ensure bedrock. Coring was backfilled with cement/bentonite slurry to 78.5'. Six inches of Ottawa sand was added to bring total well depth to 78'.