PARSONS ENGINEERING SCIENCE
SOIL BORING LOG AND WELL CONSTRUCTION RECORD

Client CEHNC
Site Memphis Depot
Boring I.D. SB-6
Geologist/Engineer Bryan Burkingstock
Drilling Method 4 1/4" HSA
Sampling Method 3" Diameter Split Spoon
Date Started 8/12/98
Date Completed 8/18/98
Driller Atlanta Testing and Engineering
Borehole Diameter (in) 8
Depth Drilled (ft) 71.5
Ground Elevation (ft) 288.41
Depth to Water (ft) 65.21
Date Measured 8/26/98

Project I.D. 732283.02
Well I.D. MW-56
Date Installed 8/17/98
Date Grouted 8/18/98
Casing Material 2" Diameter sch 40 PVC
Screen Material 0.010 Slot 2" PVC
Casing Interval (ft) 0-59
Screened Interval (ft) 59-69
Sump Installed? NO
Well Depth (ft) 69.5
TOC Elevation (ft) 288.55
Water Level (ft) 223.34
Date Measured 8/26/98

DEPTH (feet)	SAMPLE	BLOWS/6 IN	% REC.	HNu/OVA (ppm)	LITHOLOGIC DESCRIPTION	SOIL CLASS	GRAPHIC LOG
0		6,8, 9,10	85	0	CLAY, some silt, firm, reddish yellow (7.5YR-6/6), dry, (loess).	CL	
		4,11, 12,15	90	0	SILT, some clay, firm, reddish yellow (7.5YR-6/6), dry, (loess).	ML	
5		5,7, 7,7	100	0	SILT, as above.		
		3,4, 4,7	95	0	SILT, little clay, soft, reddish yellow (7.5YR-6/6), wet, (loess).		
10		3,3, 3,3	90	0	SILT, as above.		
		3,3, 4,7	90	0	SILT, as above, firm, moist.		
15		5,5, 6,10	95	0	SILT, some clay, brown (7.5YR-5/4), sl. moist, firm, (loess).		
20		2,3, 4,7	80	0.3	SILT and CLAY, soft to firm, reddish yellow (7.5YR-6/6), sl. moist.	ML	
25		0,1, 4,6	85	0	SILT and CLAY, 24-25.5' as above, 25.5-26' SILT, some clay, red (2.5YR-5/8), slightly moist, soft to firm, (loess).		
		19,25, 33, -	90	0.3		SW	
30							

WELL DIAGRAM: Riser; Bentonite Slurry; WRAP

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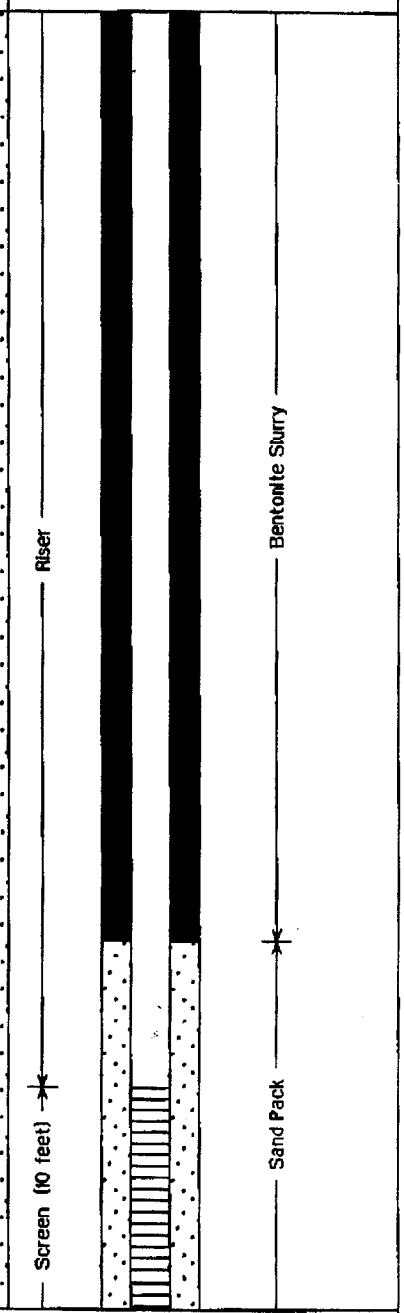
DEPTH (feet)	SAMPLE	BLOWS/6 IN	%REC.	HNu/OVA (ppm)	LITHOLOGIC DESCRIPTION	SOIL CLASS	GRAPHIC LOG
30					SAND, fine to medium, well sorted, slightly moist, (2.5YR-4/8) red with yellow mottles (7.5YR-5/8), very firm.	SW	
35		18,36, 49, -	80	1.1	SAND, medium, well sorted, red (2.5YR-4/8), moist, very firm to dense.		
40		17,36, 50, -	80	2	SAND, medium, well sorted, orange, (5YR-5/8), few yellow mottles, (10YR-7/8), firm to dense, moist.		
45		7,16, 25, -	80	1.1	SAND, as above, loose to very firm.		
50		7,13, 17, -	80	1.9	SAND, loose to firm, orange, (7.5YR-6/8), interbedded sand layers with orange/yellow color changes, medium grained, well sorted, (2.5YR-7/4), moist.		
55		10,22, 42, -	80	2.7	SAND, loose to dense, medium to coarse, well sorted, orange (7.5YRyr-6/8), moist, ~ 55' fluvial gravel mixed with sand.		
60		10,23, 38, -	80	2.5	SAND, strong brown, (7.5YR-5/8), coarse sand intermixed fluvial gravel, loose to dense, moist.		
65		10,26, 48, -	80	3.2	SAND, as above, w/ yellow band (10YR-7/8), moist.		

WELL DIAGRAM



WRAP

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DEPTH (feet)	SAMPLE	BLOWS/6 IN	%REC.	HNu/OVA (ppm)	LITHOLOGIC DESCRIPTION	SOIL CLASS	GRAPHIC LOG	WELL DIAGRAM
65					SAND, as above, wet.	SW		
		18,42, 62, –	80	2.1	SAND, coarse with subangular to rounded gravel, strong brown (7.5YR-5/6), wet.			
		16,41, 66, –	80	0	SAND, as above to ~70.5', abrupt change to CLAY, with silt at 70.5' top 4" of clay has subangular gravel embedded within, clay has striations of kaolinitic clay, white (10YR-8/1).			
70		8,11, 9, –	80	0		CL		
					Boring terminated at 71.5' BGS.			
75								
80								
85								
90								
95								
100								

WELL DIAGRAM: Sand Pack

WRAP