

Client: ms consultants				Project: FRA-70-8.93				Job No. 0221-1004.01										
LOG OF: Boring B-041-0-08				Location:				Date Drilled: 6/23/2008 to 6/25/2008										
Depth (ft)	Elev. (ft)	Blows per 6"	Recovery	Sample No.		Hand Penetro-meter (tsf)	WATER OBSERVATIONS: Water seepage at: 13.0'-15.5', 52.0'-92.0' Water level at completion: 37.1' (includes drilling water) FIELD NOTES: Advanced boring using 4.0" diameter flush joint casing.	Graphic Log	GRADATION						STANDARD PENETRATION (N60) Natural Moisture Content, % - ● PL ——— LL Blows per foot - ○ / Non-Plastic - NP 10 20 30 40			
				Drive	Press / Core				% Aggregate	% C. Sand	% M. Sand	% F. Sand	% Silt	% Clay				
77.0	682.7						Very dense black, brown, and gray GRAVEL (A-1-a), little fine to coarse sand, trace silty clay; wet.											
80		6 18 33	4			23	Very dense brown and gray GRAVEL WITH SAND AND SILT (A-2-4); wet.											54
82.0	677.7						Very dense gray COARSE AND FINE SAND (A-3a), some silty clay, trace gravel; possible cobbles; wet.											
85		50/5	3			24												50+
90		37 50/5	11			25			5	17	—	44	—34—	NP				50+
92.0	667.7						Very dense brownish gray SANDY SILT (A-4a), trace gravel; damp.											50+
95		50/5	5			26												50+
100	659.7	33 50/5	11			27			9	8	—	21	42 20					50+