DLZ Ohio, Inc. * 6121 Huntley Road, Columbus, Ohio 43229 * (614) 888-0040

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

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.

Depth (ft)	Elev. (ft)	Blows per 6"	Recovery	Sample No. Drive	Sample No. Press / Core	Hand Penetrometer (tsf)	DESCRIPTION	Graphic Log	GRADATION % Aggregate	% C. Sand	% M. Sand	% F. Sand	% Silt	% Clay
	759.7													
1.5	758.2						Asphalt Concrete Pavement - 8" Aggregate Base - 5"							
		10 8 4	6	1			Medium dense brown GRAVEL (A-1-a), trace to little fine to coarse sand, trace to little silty clay; damp to moist.		71	11	---	7	--11--	
		1 4 14	2	2			@ 3.2', encountered large rock fragments.		98	1	---	1	--0--	
4.5	755.2													
5		5 7 8	18	3		3.0	Very stiff to hard brown SANDY SILT (A-4a), some fine to coarse sand, little gravel; damp.		13	14	---	16	31	26
		5 6 9	14	4		3.0								
		4 11 15	13	5		4.5+	@ 8.5', becomes gray.							
10														
		7 12 15	18	6		4.5+			12	11	---	20	37	20
13.0	746.7													
		17 38 31	18	7			Very dense brown and gray GRAVEL WITH SAND (A-1-b), some silt; wet.		21	32	---	24	--23--	
15														
15.5	744.2													
		7 10 16	18	8		4.5+	Hard gray SANDY SILT (A-4a), little gravel; damp to moist.							
		8 12 20	18	9		4.5+			12	13	---	22	33	20
20														
		9 15 23	18	10		4.5+								
		8 25 34	6	11		4.5+								
25	734.7													

STANDARD PENETRATION (N60)
Natural Moisture Content, % -
PL ⊢——⊣ *LL*
Blows per foot - ○ / Non-Plastic - NP
10 20 30 40

NP
NP
NP
73
62