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-043-0-08 | *Location:* Sta. 215+73.16, 1.06' LT., BL I-70 WB | *Date Drilled:* 7/16/2008 to 7/20/2008

WATER OBSERVATIONS:
Water seepage at: 37.0', 77.0'
Water level at completion: 14.4' (includes drilling water)

FIELD NOTES:
Advanced boring using 3.25" diameter hollowstem augers.

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	STANDARD PENETRATION (N60) Natural Moisture Content, % - ● PL ⊢ LL Blows per foot - ○ / Non-Plastic - NP (10 20 30 40)
	743.1														
1.9	741.2	3 8 13	13	1			Asphalt Concrete - 9" Portland Cement Concrete - 9" Aggregate Base - 5"								
3.5	739.6						Medium dense brown GRAVEL WITH SAND, SILT, AND CLAY (A-2-6), some silty clay; damp.								
5		7 7 15	10	2		4.5+	Hard gray SANDY SILT (A-4a), some fine to coarse sand, trace gravel; damp.								
6.0	737.1														
		7 25 30	18	3			Very dense grayish brown SANDY SILT (A-4a), some fine to coarse sand, trace gravel; moist.		13	13	---	26	38	10	NP 58
9.0	734.1	7 12 45	1	4			@ 7.5'-9.0', rock blocking sampler.								60
10		10 31 46	18	5		4.5+	Hard gray SANDY SILT (A-4a), some fine to coarse sand, trace gravel; damp.		9	13	---	19	37	22	81
10.5	732.6														
		12 40 46	18	6		4.5+	Hard gray SILT AND CLAY (A-6a), some to "and" fine to coarse sand, trace to little gravel; damp.		7	21	---	19	33	20	90
		7 12 24	18	7		4.5+									
15		12 28 49	10	8		4.5+	@ 13.5'-15.0', contains sand seams.								81
		7 19 39	18	9		4.5+									61
20		39 49 42	18	10		4.5+									96
		12 24 42	18	11		4.5+									69
		17 42 42	18	12		4.5+			17	12	---	18	33	20	88
25	718.1														