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-030-0-08 | *Location:* Sta. 194+14.54, 24.17' LT., BL I-70 WB | *Date Drilled:* 7/20/2008 to 7/23/2008

WATER OBSERVATIONS:
Water seepage at: 16.0'
Water level at completion: 13.6' (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)
	686.7						Very dense gray COARSE AND FINE SAND (A-3a), little gravel, little to some silty clay; wet.								
55		41 50/6	10	19			@ 53.5', 0.7 feet sand heave.								50+ ○
60		24 39 45	13	20											86 ○
62.0	674.7														
							Very dense gray FINE SAND (A-3), trace silt, trace gravel; wet.								
65		16 31 41	15	21											73 ○
67.0	669.7														
							Very dense gray GRAVEL WITH SAND (A-1-b), trace to little silty clay; wet.		49	29	---	13	--9--		
70		33 50/5	9	22											50+ ○
75	661.7	43 50/3	9	23											50+ ○