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-034-0-08 | *Location:* Sta. 203+85.26, 56.62' LT., BL I-70 WB | *Date Drilled:* 8/7/2008 to 8/14/2008

WATER OBSERVATIONS:
Water seepage at: 5.5', 10.5', 20.5', 25.5', 62.0'
Water level at completion: 43.3' (measured inside casing)
At beginning of shift: 8/8 28.5, BOH 45.0'
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	STANDARD PENETRATION (N60) Natural Moisture Content, % - ● PL ⊢ LL Blows per foot - ○ / Non-Plastic - NP (10 20 30 40)
	676.5						Very dense gray GRAVEL WITH SAND (A-1-b), some silt; moist.								
80		25 38 50/5	15	25					28	31	---	9	--32--		NP ● 50+ ○
85		21 32 47	18	26											83 ○
87.0	664.5						Very dense gray SANDY SILT (A-4a), some gravel; moist.								
90		22 35 50/5	17	27											50+ ○
92.0	659.5						Very dense gray GRAVEL WITH SAND (A-1-b), "and" fine to coarse sand, little silt; wet.								
95		35 50/5	9	28											50+ ○
97.0	654.5						Very stiff gray SANDY SILT (A-4a), some fine to coarse sand, some gravel; possible cobbles; moist.								
		50/5	5	29		3.25									
100	651.5														50+ ○