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)
	726.5														
		6 11 14	12	11			Medium dense gray GRAVEL (A-1-a), little to some fine to coarse sand, trace silt; contains few brick fragments (likely picked up at higher elevation); wet.		74	15	---	6	--5--		NP
28.5	723.0														
30		19 50/5	6	12			Very dense gray GRAVEL WITH SAND (A-1-b), little silt; wet.		36	34	---	15	--15--		NP 50+
31.0	720.5														
		6 4 4	18	13			Very loose to loose gray GRAVEL (A-1-a), little fine to coarse sand, trace silt; contains few brick fragments (likely picked up at higher elevation); wet.		81	12	---	4	--3--		NP
33.5	718.0														
35		19 30 26	18	14			Very dense gray GRAVEL WITH SAND (A-1-b), trace to little silt; wet.		33	30	---	21	--16--		NP 59
		8 11 26	14	15			@ 36.0'-37.5', contains 3/4"x1-1/2" steel fragment - possible conduit fragment (likely picked up at higher elevation); wet.								
38.5	713.0														
40		16 35 41	18	16			Very dense gray SILT (A-4b), trace silt, trace clay; contains occasional sand seams; wet.								80
41.0	710.5														
		8 8 9	18	17			Medium dense gray GRAVEL (A-1-a), little fine to coarse sand; wet.		87	9	---	3	--1--		NP
							@ 43.5'-44.0', fine sand seam.								
44.0	707.5	18 25 30	18	18		<0.25	Very soft gray SILT AND CLAY (A-6a), some fine to coarse sand, trace gravel; wet.								58
45															
47.0	704.5														
							Very dense gray GRAVEL (A-1-a), some fine to coarse sand; wet.								
50	701.5	8 28 50/5	8	19											50+