



**Illinois Department of Transportation**  
Division of Highways  
Geotech Engineering & Testing, Inc.

### SOIL BORING LOG

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Date 12/1/10

ROUTE FAS 1388 (IL 8) DESCRIPTION IL 8 Over Kickapoo Creek LOGGED BY C. Farmer

SECTION (Z-1D-BR-1) BR LOCATION SE 1/4, SEC. 24, TWP. 9N, RNG. 0E, 4<sup>th</sup> PM

COUNTY Peoria DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	D	B	U	M	Surface Water Elev.	Stream Bed Elev.	D	B	U	M
072-0047	792+64.23	Pier 04	801.95.96	25.0 ft RT	499.39	(ft)	(#)	(tsf)	(%)	489.04	488.00	(ft)	(#)	(tsf)	(%)
TOPSOIL															
	497.88					4	2	0.7	19	Very Firm, Brown, Wet to Saturated, SAND w/ Small Aggregate	477.89	11	8		13
						2				Firm, Brown, Saturated, Coarse SAND		17			
						2				Firm, Black, Saturated SANDY LOAM	475.89	12			
						3	1.8		10	Firm, Brown, Wet to Saturated, Coarse SAND	475.39	10	6		13
	494.39					3	B					9			
						2				Firm, Dark Brown to Black, moist, SILTY CLAY		10			14
						4	1.6		23			16			
	492.39					4	B					20			
						2				Soft, Brown, Moist SANDY CLAY LOAM	471.89	23			14
						1	1.8		23	Dense, Brown, Wet to Saturated, Coarse SAND w/ Shale Fragments		18			
	489.39					2	B					18			
						1				Very Loose, Brown, Wet, SANDY LOAM	469.39	30			
						1	0.4		23	Borehole continued with rock coring.					
						1	B								
						1									
	484.39					3				Firm, Brown, Wet, GRAVEL w/ Sand		35			
						5									
						6									
	481.89					4				Loose, Brown to Tan, Wet to Saturated, SANDY LOAM					
						4									
						4									
	479.39														

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, form 137 (Rev. 8-99)



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BACON | FARMER | WORKMAN ENGINEERING & TESTING INC.

### ROCK CORE LOG

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Date 12/1/10

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SECTION (Z-1D-BR-1) BR LOCATION SE 1/4, SEC. 24, TWP. 9N, RNG. 0E, 4<sup>th</sup> PM

COUNTY Peoria CORING METHOD Rotary, Surf Set Diamond Bit

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	D	C	O	R	CORE	S
072-0047	792+64.23	Pier 04	801.95.96	25.0 ft RT	499.39	(ft)	(#)	(%)	(%)	(min/ft)	(tsf)
Dark Gray, Highly Weathered, Stratified, CLAY SHALE with Dark Gray CLAY Seams											
						P4C1	88	62	2	29.5	
Rock Core P4C1 from 30.0' to 37.0' depth. Rock Mass Rating = 33 (Class No. IV - Poor Rock)											
Dark Gray, Highly Weathered, Stratified, CLAY SHALE											
						P4C2	85	52	2		
Rock Core P4C2 from 37.0' to 45.0' depth. Rock Mass Rating = 30 (Class No. IV - Poor Rock)											
End of Boring											

Color pictures of the cores Yes  
Cores will be stored for examination until 12/8/12  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
BBS, form 138 (Rev. 8-99)