

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



Illinois Department of Transportation  
Division of Highways  
GEO CONSULTANTS INC.

SOIL BORING LOG

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ROUTE FAP 317 (US24/IL 9) DESCRIPTION US 24/ IL9 Over LaMarsh Creek (Hollis Road District) LOGGED BY RJC

SECTION 45BR-2 LOCATION 40° 34' 51.5" N 89° 41' 40.5" W, SEC. 22, TWP. 7N, RNG. 7E, 4<sup>th</sup> PM,  
*Latitude, Longitude*

COUNTY Peoria DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. <u>072-0228</u> Station <u>337+89.89</u>	D E P T H (ft)	B L O W S (/ft)	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev. <u>-</u> ft	D E P T H (ft)	B L O W S (/ft)	U C S Qu (tsf)	M O I S T (%)
BORING NO. <u>B-7 West Pier</u> Station <u>338+12</u> Offset <u>48.90ft LT</u> Ground Surface Elev. <u>447.50</u> ft					Stream Bed Elev. <u>-</u> ft				

Description	D E P T H (ft)	B L O W S (/ft)	U C S Qu (tsf)	M O I S T (%)	D E P T H (ft)	B L O W S (/ft)	U C S Qu (tsf)	M O I S T (%)
Brown CLAY LOAM (fill), trace organics, sand lenses	3		2.2 B	33	426.50	100/5		12
	2				425.90			
Loose Brown, Fine to Medium SAND	3			18	443.50			
	1							
	4			18	441.00			
Very Stiff, Gray, CLAY LOAM, organics	2		3.9 B	24	440.50			
	4							
Brown, Medium SAND	2				438.50			
	2			20				
Gray, Fine to Medium, Wet, SAND, trace gravel, organics	1				437.50			
	10							
Very Soft Gray, Wet SILTY CLAY LOAM	2							
	4		<0.25 B	43				
	8				433.50			
	4			13				
Loose Gray, Wet GRAVEL, trace sand	4				431.50			
	4							
	2			17	430.50			
Gray, Coarse Wet SAND, trace gravel	2							
	5			15				
Gray, Wet GRAVEL, trace sand	5				429.00			
	13							
Hard Gray SHALEY CLAY	20		7.1 B	15				
	30							
	20							

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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ROCK CORE LOG

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ROUTE FAP 317 (US24/IL 9) DESCRIPTION US 24/ IL9 Over LaMarsh Creek (Hollis Road District) LOGGED BY RJC

SECTION 45BR-2 LOCATION 40° 34' 51.5" N 89° 41' 40.5" W, SEC. 22, TWP. 7N, RNG. 7E, 4<sup>th</sup> PM,  
*Latitude, Longitude*

COUNTY Peoria CORING METHOD Rotary, Diamond Bit Core Barrel

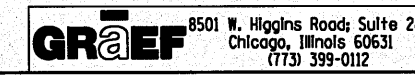
STRUCT. NO. <u>072-0228</u> Station <u>337+89.89</u>	CORING BARREL TYPE & SIZE <u>NX 5' split barrel</u>	D E P T H (ft)	C O R E (#)	R E C O V E R Y (%)	R Q D (%)	C O R E T I M E (min/ft)	S T R E N G T H (tsf)
BORING NO. <u>B-7 West Pier</u> Station <u>338+12</u> Offset <u>48.90ft LT</u> Ground Surface Elev. <u>447.50</u> ft							

Description	D E P T H (ft)	C O R E (#)	R E C O V E R Y (%)	R Q D (%)	C O R E T I M E (min/ft)	S T R E N G T H (tsf)
SHALE, Dark Gray, Damp, Thin Horizontal Lamination, Aphanitic, Highly Weathered, Very Soft Field Hardness (Core Run 1, RMR: 43, Rock Class III: Fair Rock)	1	82	67	3		
SANDY SHALE, Gray, Dry, Aphanitic, Slightly Weathered, Medium Field Hardness						
	25					
Depth 25' 4", Moisture Content: 4.4%, Dry Density: 155.6 pcf						171.2
3" Lens LIMESTONE, Gray, Dry, Aphanitic, Slightly Weathered, Medium Field Hardness Very soft clay or shale lens at 26'-2"						
	27					
Depth 27' 6", Moisture Content: 6.0%, Dry Density: 154.0 pcf						122.5
SHALE, Dark Gray, Damp, Thin Horizontal Lamination, Aphanitic, Moderately Weathered, Soft Field Hardness, Occasional Limestone Lenses <2" in Thickness (Core Run 2, RMR: 38, Rock Class IV: PoorRock)	2	88	49	5		
	30					
Depth 29' 9", Moisture Content: 7.2%, Dry Density: 152.5 pcf						88.1
	35					
SANDY SHALE, Gray, Damp, Aphanitic, Slightly Weathered, Medium, Occasional Limestone Lenses <2" in Thickness (Core Run 3, RMR: 45, Rock Class III: Fair Rock)	3	100	51	7		
	37					
Depth 37' 7", Moisture Content: 7.1%, Dry Density: 149.0 pcf						295.7
End of Boring						
	40					

Color pictures of the cores Yes  
Cores will be stored for examination until 2/25/10  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

BORING LOGS VII & ROCK CORE LOG				
U.S. ROUTE 24 & IL ROUTE 9 OVER LA MARSH CREEK				
STATION 337+89.89		STRUCTURE NO. 072-0228		
SHEET NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
S38 OF 39 SHEETS	317	45BR-2	PEORIA	122
			SHEET NO. 86	
			CONTRACT NO. 68719	
		ILLINOIS FED. AID PROJECT		



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DESIGNED	J.A.Z.
CHECKED	E.E.J.
DRAWN	S.R.K.
CHECKED	J.A.Z.