

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Illinois Department of Transportation
Division of Highways
G&G CONSULTANTS INC.

SOIL BORING LOG

Page 1 of 2

Date 8/24/09

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' 52.0" N 89° 41' 39.3" W, SEC. 22, TWP. 7N, RNG. 7E, 4th PM, Latitude, Longitude

COUNTY Peoria DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. 072-0228
Station 337+89.89
BORING NO. B-6 East Pier
Station 337+09
Offset 48.90ft LT
Ground Surface Elev. 450.90 ft

Description	DEPTH (ft)	BLOW COUNT (ft)	UCS (tsf)	MOISTURE (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev.: First Encounter (ft)	Upon Completion (ft)	After 24 Hrs. (ft)	DEPTH (ft)	BLOW COUNT (ft)	UCS (tsf)	MOISTURE (%)
Brown SILTY LOAM (fill), trace gravel, organics	2				429.90					7			24
	1		27		429.40					2			15
	2									4			
					427.40								
	446.90	2			426.90					26			
Brown SILTY CLAY LOAM (fill) trace gravel, obstructions (concrete debris)	6	2.7	15							30			15
	8									100/0'			
	2		12										
	1												
	2		23										
	-10	2								-30			
					439.90								
Brown, Fine to Medium, Moist, SAND, trace gravel	1		28		439.40								
	3		18										
Loose Brown and Gray, Fine to Medium, Wet SAND, and gravel, Coal Seam at 14.5'	3				437.40								
	3		18										
Loose Brown, Medium Grained, Wet SAND	4									-35			
	-15												
	2		21										
	3		17		433.90								
Very Loose Brown and Gray, Wet GRAVEL, and sand, trace clay	3												
	2												
	1		17										
	2									-40			

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)



Illinois Department of Transportation
Division of Highways
G&G CONSULTANTS

ROCK CORE LOG

Page 2 of 2

Date 8/24/09

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' 52.0" N 89° 41' 39.3" W, SEC. 22, TWP. 7N, RNG. 7E, 4th PM, Latitude, Longitude

COUNTY Peoria CORING METHOD Rotary, Diamond Bit Core Barrel

STRUCT. NO. 072-0228
Station 337+89.89
BORING NO. B-6 East Pier
Station 337+09
Offset 48.90ft LT
Ground Surface Elev. 450.90 ft

Description	DEPTH (ft)	CORING BARREL TYPE & SIZE	RECOVERY (%)	CORRECTION (%)	CORE LENGTH (min/ft)	STRENGTH (tsf)
SHALE, Dark Gray, Damp, Thin Horizontal Lamination, Aphanitic, Highly Weathered, Very Soft Field Hardness (Core Run 1, RMR: 49, Rock Class III: Fair Rock)	-25	NX 5' split barrel	100	80	6	
SANDY SHALE, Gray, Damp, Aphanitic, Slightly Weathered, Medium Field Hardness	425.40					
Depth 27' 2", Moisture Content: 6.2%, Dry Density: 153.3 pcf						81.3
Depth 28' 5", Moisture Content: 5.2%, Dry Density: 155.1 pcf						97.6
Depth 29', Moisture Content: 5.9%, Dry Density: 154.2 pcf	421.40					130.4
SHALE, Dark Gray, Damp, Thin Horizontal Lamination, Aphanitic, Slightly Weathered, Soft Field Hardness, Occasional Limestone Lenses <2" in Thickness. (Core Run 2, RMR: 47, Rock Class III: Fair Rock)	-30		100	89	6	98.6
Depth 30.5', Moisture Content: 7.2%, Dry Density: 152.8 pcf						
3.5" Lens LIMESTONE, Gray, Damp, Aphanitic, Slightly Weathered, Medium Field Hardness						
Depth 34', Moisture Content: 6.4%, Dry Density: 152.0 pcf (Core Run 3, RMR: 47, Rock Class III: Fair Rock)	-35		100	70	6	104.8
3" Lens LIMESTONE, Gray, Damp, Aphanitic, Slightly Weathered, Medium Field Hardness						
Depth 37', Moisture Content: 6.3%, Dry Density: 152.0 pcf						163.6
3" Lens SANDY SHALE, Gray, Damp, Aphanitic, Slightly Weathered, Medium Field Hardness	411.40					
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 VI & ROCK CORE LOG
U.S. ROUTE 24 & IL ROUTE 9 OVER LA MARSH CREEK
STATION 337+89.89 STRUCTURE NO. 072-0228

SHEET NO. 37 OF 39 SHEETS	F.A.P. RTE. 317	SECTION 45BR-2	COUNTY PEORIA	TOTAL SHEETS 122	SHEET NO. 85
			CONTRACT NO. 68719		
10-15-10		ILLINOIS FED. AID PROJECT			

GRAEF 8501 W. Higgins Road, Suite 280
Chicago, Illinois 60631
(773) 399-0112

H:\Jobs\2010\201003014\cadd\cadd\structural\vdgn\08\537_BORING_LOGS_VI.dgn 10/18/2010

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