

LEGEND - CLAUDE H. HURLEY COMPANY TEST BORING LOGS

A-1 to A-8 Engineering classifications of soil in accordance with AASHTO M 145 standard specification. Q_u, kPa Unconfined compression strength of soil in kilopascals determined in accordance with AASHTO T 208 standard specification.

Silty Clay Loam Textural classification of soil in accordance with IDOT Triangular Chart. $w, \%$ Natural moisture content of soil and bedrock in percent determined in accordance with AASHTO T 265 standard specification and AASHTO T 265/ASTM D 2216 for bedrock.

Laminated Coal Textural and engineering classification of bedrock in accordance with conventional practice.

N,Bp0.15m N-value or standard penetration test value. Number of blows required to drive a standard split-spoon sampler 0.15 m as conducted in accordance with AASHTO T 206 standard specification. $Y_d, kgpm^3$ Dry unit weight of soil and bedrock in kilograms per cubic meter determined in accordance with standard practice.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GROUNDWATER DATA
DD Water Level During Drilling
BAR Water Level Before Auger Removal
AAR Water Level After Auger Removal
DC Dry Cave Level
WC Wet Cave Level
d Days
h Hours

DRILLING METHOD
FA Flight Auger
RW Rotary Wash
HSA Hollow Stem Auger

SAMPLE TYPE
AU Auger
SS Standard Split-barrel
ST Thin-walled Tube
DB Core Barrel

NOTES
1. The abbreviations, symbols and definitions in this Legend are commonly used and understood in the engineering and construction practices and are presented only for information and communication.
2. The Geotechnical Data presented in this Legend and on the Boring Logs are to be interpreted by personnel educated, trained, experienced and licensed to practice Geotechnical Engineering, and in direct communication with the Claude H. Hurley Company.

ROUTE No.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	*	TAZEWELL	1366	1324
STA.		TO STA.		
F.H.W.A. REGION		ILLINOIS	PROJECT	

* (90-11R-2;90(13,14,14-11R-1) CONTRACT NO. 68201

CLAUDE H. HURLEY COMPANY BORING LOG

PROJECT NO. 3-50-04 BORING NO. 5B-363

PROJECT FAI-74 IMPROVEMENTS - MAIN STREET CORRIDOR

LOCATION MAINLINE HWY. 93 RAMP E-2BL 10+777.8 TO 7+61 FOXIA & TAZEWELL COUNTIES, ILLINOIS

DRILLING CONTRACTOR P. S. G. DRILLING, INC.

DATE OF DRILLING: STARTED 12-15-97 COMPLETED 12-15-97 SURFACE ELEVATION 151.08

DRILLED BY J. SCITEX LOGGED BY J. DALTON

Elev.	CLASSIFICATION	Depth	GROUNDWATER DATA				DATE	DEPTH	HOUR	RIG TYPE	METER TYPE	DRILLING METHOD
			Q _u (kPa)	w (%)	Y _d (kgpm ³)	Moist. (%)						
150.62	DR SAND, A-2-4	4	-	-	-	12-15	13	15	MEITAC B-52	150-150	DR	
148.73	DR OR TO GR SANDHATED CLAY SHALE	2	-	-	-	12-16	7	12	150-150	DR		
148.97	DR SAND, A-2-4	3	-	-	-							
148.14	DR SAND, A-2-4	4	-	-	-							
147.88	DR SAND, A-2-4	5	-	-	-							
145.39	DR SAND, A-2-4	6	-	-	-							
145.29	DR SAND, A-2-4	7	-	-	-							
144.23	DR OR TO GR SANDHATED CLAY SHALE	8	-	-	-							



SOIL BORING LOG

ROUTE FAI-74 DESCRIPTION Overhead Sign Truss

SECTION 72.6, 7.8, 9, 1.80, 11.90, 12, 13, 14 LOCATION SEC. TWP. RNC.

COUNTY Peoria & Tazewell DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. Station 153+381

BORING NO. SSSB-19L Station 103+771

Offset 3.50m Et of WB CL

Ground Surface Elev. 151.59 m

Elev.	DESCRIPTION	Depth	Q _u (kPa)	w (%)	Y _d (kgpm ³)	DATE	DEPTH	HOUR	RIG TYPE	METER TYPE	DRILLING METHOD	HAMMER TYPE	AUTO
150.62	No Sample Taken	0	-	-	-								
150.73	Dark Brown / Dark Gray Fine Medium SAND w/ poorly cemented sandstone fragments (continued)	2	144.63	40									
148.97	Light Brown SILTY CLAY w/ coal & sandstone fragments @ 22.8' (6.95m)	2											
148.14	Light Brown SILTY LOAM	4											
147.88	Light Brown, Brown & Reddish Brown Fine SAND	3											
145.39	Light Brown, Brown & Reddish Brown Fine SAND	3											
145.29	Light Brown, Brown & Reddish Brown Fine SAND	3											
144.23	DR OR TO GR SANDHATED CLAY SHALE	8											

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 T208) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE FAI-74 DESCRIPTION Overhead Sign Truss

SECTION 72.6, 7.8, 9, 1.80, 11.90, 12, 13, 14 LOCATION SEC. TWP. RNC.

COUNTY Peoria & Tazewell DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO. Station 153+381

BORING NO. SSSB-19L Station 103+771

Offset 3.50m Et of WB CL

Ground Surface Elev. 152.96 m

Elev.	DESCRIPTION	Depth	Q _u (kPa)	w (%)	Y _d (kgpm ³)	DATE	DEPTH	HOUR	RIG TYPE	METER TYPE	DRILLING METHOD	HAMMER TYPE	AUTO
152.96	No sample taken 0-1.5' (0-46m)	0	-	-	-								
152.90	Lt. Brown SILTY CLAY LOAM	4	197	12									
151.74	Gray to Dr. Gray SANDY CLAY LOAM	3	24	45									
150.88	Brown/Gray Fine SAND w/ trace of clay	4	31	12									
149.46	Brown CLAY LOAM	2	515	12									
148.99	Gray CLAY LOAM	3	197	12									
147.17	Brown & Gray CLAY LOAM	3	110	14									

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 T208) BBS, from 137 (Rev. 8-99)

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LEGEND - IDOT TEST BORING LOG

Silty Clay Loam Textural classification of soil in accordance with IDOT Triangular Chart.

BLOWS/150mm Number of blows required to drive a standard soil sampling device 150 mm as conducted in accordance with AASHTO T 206 standard specification.

Q_u, kPa Unconfined compression strength of soil in kilopascals determined in accordance with AASHTO T 208 standard specification.

Moist. % Natural moisture content of soil and bedrock in percent determined in accordance with AASHTO T 265 standard specification and AASHTO T 265/ASTM D 2216 for bedrock.

DESIGNED	RJW	2084
CHECKED	KJN	
DRAWN	RJW	
CHECKED	KJN	

SIGNING SHEET 73 OF 74

**SIGN STRUCTURES
SOIL BORING LOGS**

ILLINOIS DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
W.B. I-74 STA. 153+410, S.N. 4S0901074L095.3
W.B. I-74 STA. 153+772, S.N. 4C0901074L095.6

TAZEWELL CO., IL. DATE: 12-20-04