Illinois Department of Transportation
Division of Highways
IDOT – Region 3/Dist 5

SOIL BORING LOG

Page 1 of 1

Date 6/5/09

ROUTE FAI 74 DESCRIPTION Mast Arm on I-74EB Exit Ramp A to US 150 LOGGED BY CNA

SECTION LOCATION SE, SEC. 10, TWP. 19N, RNG. 12W, 2nd PM

COUNTY Vermilion DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 5C092I074R210.00
Station 111+74

BORING NO. 1 Mast Arm
Station 111+64
Offset 3.0 ft Lt. of EOP
Ground Surface Elev. 639.0 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 631.0 ft ▼
Upon Completion PLUGGED ft
After ___ Hrs. WASHED ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt Shoulder PAVEMENT	638.0				
Brown Dirty Poorly Sorted GRAVEL (Embankment)	636.0				
Brown Clean Medium SAND (Dry)			5		
			6		
		-5	10		
			4		
	632.0		10		
Gray Dense SILT to SILTY CLAY with Sand Seams ▼			14		
			6		
			13	10.0	11
(2 Feet of Sand Blow In – Washed)		-10	14	S	
			8		
			13		17
			23		
	626.0				
Gray SANDY CLAY LOAM TILL			5		
			10	10.1	8
		-15	15	S	
	623.0				
Brown Oxidized Poorly Sorted Coarse SAND			10		
			17		18
			24		
			10		
	619.5		15	5.0	9
Brown Dense SANDY LOAM TILL		-20	15	B	

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Dense SANDY LOAM TILL (continued)			5		
			15	7.4	8
			15	S	
			10		
			20		8
	614.0	-25	30		
End of Boring					
		-30			
		-35			
		-40			

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.

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, from 137 (Rev. 8-99)

6/8/2009 10:44:09 AM S:\SOILS\BORING LOGS\VERMILION CNTY\MAST ARMS ON US 150 @ FAI 74.GPJ

Illinois Department of Transportation
Division of Highways
IDOT – Region 3/Dist 5

SOIL BORING LOG

Page 1 of 1

Date 6/5/09

ROUTE FAI 74 DESCRIPTION Mast Arm on US 150 EB Offramp to FAI 74EB/WB LOGGED BY CNA

SECTION LOCATION SW, SEC. 10, TWP. 19N, RNG. 12W, 2nd PM

COUNTY Vermilion DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 5C092U150L000.36
Station 427+00

BORING NO. 2 Mast Arm
Station 426+91
Offset 18.0 ft Lt.
Ground Surface Elev. 648.6 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 638.6 ft ▼
Upon Completion PLUGGED ft
After ___ Hrs. WASHED ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt Shoulder PAVEMENT	647.6				
Brown SANDY CLAY LOAM (Embankment)	645.6				
Brown Mottled CLAY LOAM			3		
			3		
		-5	5		
			3		
			3	2.1	26
			5	B	
	640.6				
Brown Mottled SANDY LOAM to SILT			2		
			3	1.0	16
		▼ -10	3	E	
			3		
			2		22
			2		
	634.6		2		
Gray/Dark Gray SILT with Sand & Till Seams			6		14
		-15	6		
			2		
			5		17
			7		
			3		
			4	1.4	14
		-30	5	B	

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray/Dark Gray SILT with Sand & Till Seams (continued)			2		
			4		14
			5		
			3		
(2 Feet of Sand Blow In – Washed)			4		12
		-25	5		
	619.6		3		
Dark Gray/Brown SANDY CLAY LOAM TILL			3	5.4	11
		-30	6	S	
			3		
			7	4.7	18
	613.6	-35	11	S	
End of Boring					
		-40			

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.

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, from 137 (Rev. 8-99)

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*FAU 7052 / FAP 729

FILE NAME = c:\pw_work\PWIDOT\BUCKLESJJ\d0132727\D570315-sht-blog.dgn	USER NAME = bucklesjj	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 12/7/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.* RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(36X,36X-1,34Z-3)RS-1	VERMILION	58	48
		CONTRACT NO. 70315		
		ILLINOIS FED. AID PROJECT		