



Illinois Department of Transportation  
Division of Highways  
Illinois Department of Transportation

### SOIL BORING LOG

Page 1 of 1

ROUTE FAI 57/70 DESCRIPTION I-57/I-70 Three Lanes, US 45 Ramp A - Pipe Culvert LOGGED BY E. Sandschafer  
DATE 3/5/10

SECTION (25-3.4)R LOCATION N 1/2, SEC. 16, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. \_\_\_\_\_  
Station 025-170\_157 US 45 Ramp A  
BORING NO. US45A3  
Station 14+40  
Offset 18.00ft Lt  
Ground Surface Elev. 601.22 ft

DEPTH (ft)	BLOW COUNT (blows/6")	UCS (tsf)	MOISTURE (%)	Description	DEPTH (ft)	BLOW COUNT (blows/6")	UCS (tsf)	MOISTURE (%)
0				11 1/2" asphalt shoulder on 6" crushed stone subbase.	5	5	1.4	26
599.72					6	6	B	
				Skipped this trip.	7	7		
					12	12	5.0	14
					20	20	S	
				Stiff to medium, damp, red marbled gray, CLAY.	36	36		
					50/3"	50/3"		9
					50/2"	50/2"		
					30	30		
					50/5"	50/5"		8
					50/2"	50/2"		
				Very dense, damp, red, SANDY LOAM TILL.	20	20		
					35	35		10
					38	38		
				Extent of exploration.				
				Medium to stiff, damp, gray, SILTY CLAY.				
				Stiff, damp, brown/gray layered, CLAY.				
				Stiff, damp, gray, SILTY CLAY.				

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)

Latitude W 88 490 31.8891 min., Longitude N 38 498 08.814 min., Map Datum WGS 84



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### SOIL BORING LOG

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ROUTE FAI 57/70 DESCRIPTION I-57/I-70 Three Lanes, US 45 Ramp B - Pipe Culvert LOGGED BY E. Sandschafer  
DATE 3/5/10

SECTION (25-3.4)R LOCATION N 1/2, SEC. 16, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. \_\_\_\_\_  
Station 025-170\_157 US 45 Ramp B  
BORING NO. US45B4  
Station 24+80  
Offset 8.00ft Rt  
Ground Surface Elev. 601.28 ft

DEPTH (ft)	BLOW COUNT (blows/6")	UCS (tsf)	MOISTURE (%)	Description	DEPTH (ft)	BLOW COUNT (blows/6")	UCS (tsf)	MOISTURE (%)
0				7 1/2" asphalt shoulder on 10" crushed stone subbase.	2	2	1.3	22
599.78					4	4	B	
				Skipped this trip.	1	1		
					4	4	2.4	20
					4	4	B	
				Stiff, damp, gray, CLAY w/ Silt.	26	26		
					50/5"	50/5"		8
					50/3"	50/3"		
					33	33		
					50/4"	50/4"		9
					50/2"	50/2"		
				Very dense, damp, red, SANDY LOAM TILL.	20	20		
					32	32		13
					35	35		
				Extent of exploration.				
				Medium to stiff, damp, gray, SILTY CLAY.				
				Stiff, damp, brown/gray layered, CLAY.				
				Stiff, damp, gray, SILTY CLAY.				

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)

Latitude W 88 490 31.890 min., Longitude N 38 498 08.828 min., Map Datum WGS 84

S:\Projects\403-0002\_57-70 Bridges\Culverts\US 45\_Culverts under Ramps A & B\OGM\Final Plan Sheets\US 45.dgn

FILE NAME = US 45.dgn  
USER NAME = bbovbe  
DESIGNED -  
CHECKED -  
DRAWN - WJS  
CHECKED - CJF  
PLOT DATE = 3/5/20 PM 5/1/2013

BERNARDINI \* LOCHMUELLER & ASSOCIATES, INC.  
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DESIGNED -  
CHECKED -  
DRAWN - WJS  
CHECKED - CJF  
REVISED  
REVISED  
REVISED  
REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS

SHEET NO. 8 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57/70	(25-4)R	EFFINGHAM	1760	519
CONTRACT NO. 74295				
ILLINOIS FED. AID PROJECT				