STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 9251	28-3 BR-1	ST. CLAIR	101	41
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 18
18 SHEETS

Contract #76394

Illinois Department of Transportation
Division of Highways
District 8 Materials

SOIL BORING LOG

Page 1 of 2
Date 2/13/02

ROUTE FAU 9251 DESCRIPTION IL 177 over Loop Creek LOGGED BY Larry Ford
SECTION 28-3BR-I LOCATION SW 14, SEC. 30, TWP. 1N, RNG. 7W, 3 PM
COUNTY St. Clair DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic 140#

STRUCT. NO. 082-0057
Station
BORING NO. 1 W. Abut
Station 245+71
Offset 19.00ft LT CL
Ground Surface Elev. 462.11 ft

Surface Water Elev. 460.4 ft
Stream Bed Elev. 458.4 ft
Groundwater Elev.:
First Encounter 450.1 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Asphalt Shoulder/Stone Subbase 461.11			
Gray Silt LOAM	2		
	2	0.5	
	2	S/S	
458.11			
Brown Silty Clay LOAM -5	2		
	2	1.4	
	3	S/S	
	2		
	3	1.1	
	3	S/10	
453.11			
Gray Silty CLAY -10	2		
	2	1.1	
	1	S/10	
450.61			
Brown Silty CLAY	2		
	3	1.1	
	5	B	
-15	3		
	5	1.8	
	7	S/10	
445.61			
Gray and Brown CLAY	3		
	5	3.1	
	10	S/10	
443.11			
Gray Very Weathered SHALE -20	3		

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Gray Very Weathered SHALE (continued)	5	3.9	
	12	S/S	
440.61			
Gray and Brown Slightly Weathered SHALE	14		
	26	4.8	
	33	S/15	
-25	16		
436.61	50/4"	5.7	
Borehole continued with rock coring.		S/S	
-30			
-35			
-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, from 137 (Rev. 8-99)

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ROCK BORING LOG

Page 2 of 2
Date 2/13/02

ROUTE FAU 9251 DESCRIPTION IL 177 over Loop Creek LOGGED BY Larry Ford
SECTION 28-3BR-I LOCATION SW 14, SEC. 30, TWP. 1N, RNG. 7W, 3 PM
COUNTY St. Clair CORING METHOD Tri-Cone Roller Bit

STRUCT. NO. 082-0057
Station
BORING NO. 1 W. Abut
Station 245+71
Offset 19.00ft LT CL
Ground Surface Elev. 462.11 ft

CORING BARREL TYPE & SIZE
Core Diameter 2 in
Top of Rock Elev. 436.61 ft
Begin Core Elev. 436.11 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
436.61					
Gray Shaley LIMESTONE				2	
434.11					
				2	
Gray LIMESTONE with Shale Seams				1.5	
-30				1.5	
				1.5	
430.11					
				1.5	
Gray SHALE 429.11				1.5	
Gray Shaley LIMESTONE				2.5	
-35				1.5	
426.11					
				0.5	
Gray SHALE 424.11				0.5	
End of Boring					
-40					
-45					

Color pictures of the cores
Cores will be stored for examination until
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

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Division of Highways
District 8 Materials

SOIL BORING LOG

Page 1 of 2
Date 2/14/02

ROUTE FAU 9251 DESCRIPTION IL 177 over Loop Creek LOGGED BY Larry Ford
SECTION 28-3BR-I LOCATION SW 14, SEC. 30, TWP. 1N, RNG. 7W, 3 PM
COUNTY St. Clair DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic 140#

STRUCT. NO. 082-0057
Station 246+33.80
BORING NO. 2 E. Abut
Station 246+88
Offset 19.00ft RT CL
Ground Surface Elev. 463.11 ft

Surface Water Elev. 460.4 ft
Stream Bed Elev. 458.4 ft
Groundwater Elev.:
First Encounter 451.6 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Aggregate Shoulder/Stone Subbase 462.11			
Gray Silt LOAM (Fill)	4		
	5	1.4	
	6	S/10	
459.61			
Gray Silty Clay LOAM (Fill) -5	2		
	1	0.8	
	2	S/15	
	0		
	2	0.6	
	2	B	
453.11 -10	0		
	2	1.4	
Gray Silty CLAY	4	S/15	
	2		
	2	1.5	
	3	B	
-15	2		
	3	0.5	
	3	S/10	
446.61			
Brown and Gray Silt LOAM	2		
	3	1.5	
	5	S/10	
444.11			
Gray and Brown Silty Clay LOAM -20	1		

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Gray and Brown Silty Clay LOAM (continued)	2	1.2	
	3	S/15	
441.61			
Gray Silty CLAY	3		
	4	1.5	
	7	S/15	
439.11			
Gray Slightly Weathered SHALE	14		
437.61 -25	50/4"	3.6	
Borehole continued with rock coring.		S/15	
-30			
-35			
-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)
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ROUTE FAU 9251 DESCRIPTION IL 177 over Loop Creek LOGGED BY Larry Ford
SECTION 28-3BR-I LOCATION SW 14, SEC. 30, TWP. 1N, RNG. 7W, 3 PM
COUNTY St. Clair CORING METHOD Tri-Cone Roller Bit

STRUCT. NO. 082-0057
Station 246+33.80
BORING NO. 2 E. Abut
Station 246+88
Offset 19.00ft RT CL
Ground Surface Elev. 463.11 ft

CORING BARREL TYPE & SIZE
Core Diameter 2 in
Top of Rock Elev. 437.61 ft
Begin Core Elev. 437.61 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
437.61					
Gray Limey SHALE				1.5	
				1.5	
				3.5	
433.61				3.5	
				1.5	
Gray Shaley LIMESTONE -30				1.5	
				1.5	
430.61					
				4.5	
Gray LIMESTONE				5.5	
428.61 -35				1	
Gray Shaley LIMESTONE				1.5	
				1.5	
425.61					
End of Boring					
-40					
-45					

Color pictures of the cores
Cores will be stored for examination until
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

BORING LOGS
F.A.U. ROUTE 9251 - SECTION 28-3BR-I
ST. CLAIR COUNTY
STATION 246+33.80
STRUCTURE NO. 082-0398

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