STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 9/17/08

ROUTE FAP 116 (IL 130) DESCRIPTION Lost Creek LOGGED BY E. Sandschafer

SECTION (112BRI)B LOCATION SE 1/4, SEC. 25, TWP. 10 N, RNG. 9 E, 3 PM

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

STRUCT. NO. 018-0059
Station 375+54

BORING NO. 1
Station 374+56
Offset 10.00ft Lt
Ground Surface Elev. 540.66 ft

Surface Water Elev. 526.54 ft
Stream Bed Elev. 523.81 ft

Groundwater Elev.:
First Encounter 506.2 ft
Upon Completion 522.2 ft
After 216 Hrs. 526.5 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
13.5" asphalt pavement.			
539.56			
Stiff, damp, red/brown/gray, CLAY.			
	4		
	5	1.7	11
	8	B	
-5	2		
	4	1.1	16
534.86	5	B	
Tan, fluffy, fine grained, SAND.			
533.66			
Medium to very soft, very damp, brown, SANDY LOAM.	1		
	2	0.1	12
	3	S	
-10	1		
	3	0.8	18
	3	BS	
	0		
	1	0.1	18
	1	B	
-15	0		
	0	0.1	24
	0	B	
523.66			
Soft, very damp, dark gray, SILTY LOAM.	0		
522.66	2	0.3	38
Gray, SANDY LOAM.	3	B	
522.36			
Gray, SILTY CLAY.			
521.16			
-20	0		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Very soft, damp, gray, sticky, SILTY LOAM. *(continued)*	1	0.2	34
	1	B	
518.66			
Very soft, very damp, gray, SILT.	0		
	0	0.1	42
	0	B	
516.16			
Shelby Tube			
-25			
513.16			
Shelby Tube			
-30			
510.16			
Shelby Tube			
507.16			
Shelby Tube			
-35			
504.16			
Shelby Tube			
501.16			
Shelby Tube			
-40			

Latitude W 88 deg 08 .727 min. Longitude N 39 deg 15.511 min. Map Datum WGS 84

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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ROUTE FAP 116 (IL 130) DESCRIPTION Lost Creek LOGGED BY E. Sandschafer

SECTION (112BRI)B LOCATION SE 1/4, SEC. 25, TWP. 10 N, RNG. 9 E, 3 PM

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

STRUCT. NO. 018-0059
Station 375+54

BORING NO. 1
Station 374+56
Offset 10.00ft Lt
Ground Surface Elev. 540.66 ft

Surface Water Elev. 526.54 ft
Stream Bed Elev. 523.81 ft

Groundwater Elev.:
First Encounter 506.2 ft
Upon Completion 522.2 ft
After 216 Hrs. 526.5 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Shelby Tube *(continued)*			
498.16			
Shelby Tube			
496.16			
Very dense, very damp, gray, gravelly, LOAM.	13		
-45	35		8
	50/4"		
491.16			
Very stiff, damp, blue/gray, SANDY CLAY SHALE.	3		
-50	17	2.9	11
	50/4"	S	
	50		
485.36	50/2"		9
Borehole continued with rock coring.	50/2"		
-60			

Latitude W 88 deg 08 .727 min. Longitude N 39 deg 15.511 min. Map Datum WGS 84

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 CORE LOG

Date 9/17/08

ROUTE FAP 116 (IL 130) DESCRIPTION Lost Creek LOGGED BY E. Sandschafer

SECTION (112BRI)B LOCATION SE 1/4, SEC. 25, TWP. 10 N, RNG. 9 E, 3 PM

COUNTY Cumberland CORING METHOD Rotary, surf set diamond bit

STRUCT. NO. 018-0059
Station 375+54

CORING BARREL TYPE & SIZE NW, conv dbl bbl, split inner
Core Diameter 2.06 in
Top of Rock Elev. 491.16 ft
Begin Core Elev. 485.36 ft

BORING NO. 1
Station 374+56
Offset 10.00ft Lt
Ground Surface Elev. 540.66 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	RQD (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Gray, moderate to severe weathering, SILTY CLAY SHALE w/ estimated limestone fragments. *Rock core B1C1 from 55.6' to 56.1' depth Qu = 6.3 tsf.*	B1C1	54	18	1.7	
485.36					
-60					
480.36					
Moderately weathered, SANDY CLAY SHALE. *Rock core B1C2 from 60.8' to 61.3' depth Qu = 44.8 tsf.*	B1C2	100	47	2.2	
478.96					
Gray, hard, Estimated LIMESTONE. *Rock core B1C3 from 62.4' to 62.9' depth Qu = 5.8 tsf.*					
477.26					
Gray, moderately weathered, SANDY CLAY SHALE.					
-65	B1C3	100	67	4.1	
-70					
	B1C4	31	10	2.2	
-75					

Color pictures of the cores Available on request
Cores will be stored for examination until 09/17/09
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)

DESIGNED	SCD
CHECKED	DRB
DRAWN	THW
CHECKED	SCD

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SOIL BORINGS
S.N. 018-0064

SHEET NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
32 OF 33 SHEETS	116	(112BR1)B	CUMBERLAND	72	63
			CONTRACT NO. 74236		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		