Illinois Department of Transportation
Division of Highways
Applied GeoScience

SOIL BORING LOG

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Date 6/17/10

ROUTE FAU 1537 DESCRIPTION LOGGED BY FM

SECTION LOCATION , SEC. , TWP. , RNG.

COUNTY Cook DRILLING METHOD SS HAMMER TYPE

STRUCT. NO.
Station
BORING NO. D-01
Station
Offset
Ground Surface Elev. 620.11 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Dry Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Silty clay, trace stone, gray, hard (continued)					
	577.11				
Clay Loam, trace stone, gray, hard			21		
			26	5.8	11.5
		-45	25		
	572.11				
Sandy clay & stone, gray, very dense			19		
			32		10.9
		-50	50		
	567.11				
Crushed limestone, gray, wet, very dense			36		
			50		8.0
		-55			
	564.11				
Rock core - Dolomitic limestone, fresh, hard, light gray, top broken, lower solid					
		-60			

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	559.11				
End of Boring					
		-65			
		-70			
		-75			
		-80			

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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Page 1 of 2

Date 6/15/10

ROUTE FAU 1537 DESCRIPTION LOGGED BY FM

SECTION LOCATION , SEC. , TWP. , RNG.

COUNTY Cook DRILLING METHOD SS HAMMER TYPE

STRUCT. NO.
Station
BORING NO. D-02
Station
Offset
Ground Surface Elev. 619.31 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Dry Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
7" concrete over 12" crushed stone					
	617.71		5		
Stone & silty clay, brown, moist, medium dense			7		24.1
	615.81		8		
Silty clay, trace gravel, brown, stiff			3		
			4	1.3	20.0
	614.31	-5	5		
Silty clay, trace gravel, brown & gray, very stiff			2		
			4	2.2	21.9
	611.31		5		
Silty clay, trace sand & gravel, brown & gray, hard			4		
			5	4.7	20.0
		-10	10		
	608.31				
Clay, trace gravel, gray, very stiff			3		
			6	3.2	16.8
			9		
	606.31				
Clay, trace gravel, gray, hard			7		
			9	4.8	13.9
		-15	12		
			7		
			9	6.0	16.9
			12		
			7		
			9	3.6	17.2
		-20	12		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Clay, trace gravel, gray, hard (continued)					
			5		
			8	5.8	15.8
			9		
			5		
			10	5.6	12.1
		-25	16		
	593.31				
Silty clay, trace gravel & sand, gray, very stiff			7		
			12	3.5	11.6
			20		
	591.31				
Silty clay, trace gravel, gray, hard			7		
			12	4.9	12.2
		-30	19		
			9		
			12	8.2	13.6
		-35	18		
	581.31				
Silty clay, some gravel & silt, gray, hard			22		
			30	1.8	8.6
		-40	50		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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COUNTY Cook DRILLING METHOD SS HAMMER TYPE

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Station
BORING NO. D-02
Station
Offset
Ground Surface Elev. 619.31 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Dry Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Silty clay, some gravel & silt, gray, hard (continued)					
			22		
			50	2.8	10.5
		-45			
	573.31				
Fractured limestone & clayey silt, gray, wet, very dense					
			50		
	570.31				
Rock core - Dolomitic limestone, solid, fresh, hard, light gray, recovery: RQD:					11.9
		-50			
	565.31				
End of Boring					
		-55			
		-60			

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)

FILE NAME = P:\60155877\000_CAD\001_Drawings\Sheets\Structure\016-7726_IDOT-sht57_Boring_Logs.dgn

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USER NAME = dabezied	DESIGNED - DD	REVISED -	
PLOT SCALE = 0:1 ':' / IN.	DRAWN - DD	REVISED -	
PLOT DATE = 1/21/2011	CHECKED - EJO	REVISED -	
	DATE - 01/10/2011	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS

SCALE: SHEET NO. 57 OF 61 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1537	06-00050-00-GS	COOK	209	151

CONTRACT NO. 63556

ILLINOIS FED. AID PROJECT