P	Illinois Department of Transportation
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SOIL BORING LOG

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Date 12/8/11

ILLINOIS DOT									
<b>ROUTE</b> <u>C. H. 11</u>	DE:	DESCRIPTION PTB 155-45 W. O. 16 - Slo			pe Failure	LOGGED B	Y SCI		
SECTIONN/A		LOCATION _[			Dunca	n Mills, Illinois, SEC. 8, de , Longitude	<b>6.</b> 3E,		
COUNTY Fulton D	RILLING	LLING METHOD			CME 750 w/HSA		HAMMER TY	YPEA	UTO
STRUCT. NO. N/A   Station N/A		D E P	B L O	U C S	M O I	Surface Water Elev Stream Bed Elev			
BORING NO. B-08   Station 13+55.16   Offset 105.2 ft RT   Ground Surface Elev. 495.90		T H (ft)	W S (/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion After <u>N/A</u> Hrs.	N/A N/A N/A	ft	
TOPSOIL - 14 inches		. ,	. ,	. ,	. ,				
SANDY CLAY: Brown (A-6)	494.73		2 5	>4.5	12				
	492.90	_	7	Р					
CLAY: Brown, with sand and sandstone fragments, trace gravel (A-7)			3	4.5	14				
		-5	6	S					
SANDY CLAY: Brown, with	489.73		3		10				
sandstone fragments and sandstone layers (A-6)			7 5	2.3 P	16				
Becomes gray 0.25-inch coal seam	487.15 ⁄ <del>487.</del> 10		wон	<del>&lt;0.25</del>	23				
SHALEY CLAY: Gray, with iron staining, trace coal	]	-10	3 5	P 1.9	15				
(A-7) CLAYEY SHALE: Light gray, with	485.40			S					
iron staining		_	5 12	4.2	8				
			22	S					
			10						
Becomes greenish gray, with sand		-15	19 30	3.9 S	16				
	479.90	_							
SANDSTONE (hard drilling)			50/3"		8				
Auger refusal at 18.5 ft.	477.40		E0/0"						
Borehole continued with rock coring.		-20	50/2"		6				

<b>A</b>	Illinois	Depar	tment
	of Trans	sporta	
	C. H. 11	[	
	N//	4	
	Fulton		G METHOD Rota
STRUCT. NO. Station	N/A		CORING BARREI
BORING NO.	13+55.		Core Diameter Top of Rock Ele Begin Core Ele
Offset Ground Surfa	105.2 ft ace Elev4		ft
SANDSTONE		lightly weat	hered
21' 0.5" - shale Approximately		countered.	No return of drillin
SANDSTONE 22' 8" - 12.5-in No clay, so	ch vertical joir	ighly weath t(mostly op	nered, some clay ben)
CLAYEY SHA	LE: Light gray	,	
Becomes d	ark gray		
Interbedded la	yers of shaley	clay and s	iltstone
Very thinly lay	ered light gray	sandstone	and black shale
End of Boring			
Color pictures	of the cores		Yes

Cores will be stored for examination until The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

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, form 137 (Rev. 8-99)

FILE NAME =	USER NAME = aubreygs	DESIGNED -	REVISED -						
BROING FILE-sheets .dgn		DRAWN -	REVISED -	STATE OF ILLINOIS				BORINGS	
	PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					
Default	PLOT DATE = 3/21/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	ī

N \_Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E, Latitude , Longitude R CORE S Rotary, surface set diamond bit Е R т NX conv dbl bbl C O V E т R . Q REL TYPE & SIZE \_\_\_\_\_\_ split inner DC Е 1 E O P R T E М Ν 1.9 \_\_ in . D er \_\_\_\_\_ Е G Elev. 479.90 ft R Elev. 477.40 т . ft н Υ н (ft) (#) (%) (%) (min/ft) (tsf) 79 477.40 71 1 -20 63.5 474.40 lling fluid afterwards. \_\_\_\_\_473.40 2 100 72 \_\_\_\_\_470.90 \_\_\_\_ 5.2 -3 100 69 -30 464.98 \_\_\_\_\_ \_\_\_\_\_463.98 462.40 -35

BBS, form 138 (Rev. 8-99)

COUNTYTOTAL<br/>SHEETSSHEET<br/>NO.FULTON4723 F.A.P RTE. SECTION S LOG 317 (18)I CONTRACT NO. 68A25 S STA. TO STA. ILLINOIS FED. AID PROJECT

Date 12/8/11

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**ROCK CORE LOG** 

PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI