

## **SOIL BORING LOG**

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Date 12/6/11

ROUTE	C. H. 11	DES	SCR	IPTION	١	PTB	155-45 W. O. 16 - Slope Failure	L	OGG	ED BY	s	CI
SECTION	N/A		_ ι	_OCAT	ION _	Dunca	n Mills, Illinois, SEC. 8, TWP. 4N,	RNG. 3E.				
							de , Longitude					
COUNTY	Fulton DI	RILLING	ME	THOD		CI	ME 750 w/HSA HAMMI	R TYPE		Αl	JTO	
							I					
STRUCT. NO.	N/A		D	В	U	M	Surface Water Elev. N	A ft	D	В	U	M
Station	N/A		E	L	С	0	Stream Bed Elev. N	/A ft	E	L	С	0
			Р	0	S	1			Р	0	S	
BORING NO.	B-09		Т	W		S	Groundwater Elev.:		T	W		S
Station	B-09 12+00.85		Н	S	Qu	T	First Encounter N	/A ft	Н	S	Qu	T
Offset	94.1 ft RT						Upon Completion N	/A ft				
Ground Surfa	ace Elev. 493.16	ft	(ft)	(/6")	(tsf)	(%)	After N/A Hrs. N	<u>/A</u> ft	(ft)	(/6")	(tsf)	(%)
SILTY CLAY:	Dark brown, with						SANDY SHALE: Gray (continu	 ed)				
fine sand	,			1			Auger refusal at 21.0 ft.			1		
(A-6)		491.74		1		29				50/2"		3 /
SHALEY CLAY	Y: Light brown, with		_	1	0.9	23	Borehole continued with rock coring.		_			
sandstone frag	ments			3	В	16	comig.			1		
(A-7)			_		1.1				_			
				1	В	Λ						
Trace fine t	o medium sand and		_	1		1			_			
gravel	o medium sand and	488.74		3	1.7	21						
Coal seam obs	served at bottom of	488.49	-5	4	В.	- '			-25			
recovery	served at bottom of	1 .	5	· ·					-25			
	LE: Light gray, with	7	_	1					_			
iron staining	LE. Light gray, with			4								
<b>3</b>			_	7	2.4	16			_			
				10	2.4 B	10						
			_	10	Ь				_			
			_	40					_			
				10 14	>4.5	14						
			_	16	<b>/</b> 4.5   P	14			-30			
			-10	10	Ρ				-30			
			_						_			
				6								
Becomes d	ark gray eam	481.58	. —	13	>4.5	16						
				18	>4.5   P	10						
CLAYEY SHAI	LE: Dark gray, with	100 10	_						_			
		<u>480.16</u>		1								
SILTSTONE:	Light gray, with iron		_	14					_			
staining				18	>4.5	8						
			-	21	74.5 P	°			=			
		477.66	-15		F				-35			
OUAL E. Lista		4//.00	_	-					_			
SHALE: Light	gray			24								
			_	48	>4.5	8			_			
				40  50/4"		°						
		475.46	_	30/4	<b>├</b>	$\vdash$			_			
		<u>475.16</u>		-								
SANDY SHAL	•		_	47					_			
Becomes g	ray			17	>4.5	-						
			-	30/4	>4.5 P	9			40			
			-20	1	n P	П	II .		-40	i	ı	1

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)



## **ROCK CORE LOG**

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Date <u>12/6/11</u>

ROUTE	C. H. 11	DESCRIPTION	PTB 155-45 V	V. O. 16 - Slope Failure	_ LO	GGED	вү	SCI		
SECTION	N/A	LOCATION	Duncan Mills, Illi	inois, SEC. 8, TWP. 4N, RN	<b>3.</b> 3E,				-	
COUNTY	Fulton	CORING METHOD Ro	tary, surface set o	•	R	ь	CORE	S	]	
STRUCT. NO.	N/A	CORING BARRE	EL TYPE & SIZE	NX conv dbl bbl split inner	Ċ	·	T	Ŕ		

Offset	N/A N/A B-09 12+00.85 94.1 ft RT	CORING BARREL TYPE  Core Diameter Top of Rock Elev.  Begin Core Elev.	1.9 472.16 472.16	split ii in ft ft		DEPTH	CORE	COVERY	Q D	T I M E	R E N G T H
Ground Surface Ele	v. <u>493.16</u>	<sub>.</sub> ft			470.40	( ft)	(#)	(%)	` ′	(min/ft)	(tsf)
SANDSTONE: Gray					472.16	-25	1	100	81		
25' 5" - 3/8-inch dark					<u>467.45</u> 467.12	4					
SANDSTONE interbi 25' 10" - 1-inch clay s SANDSTONE: Gray 26' 0.5" - 8.5-inch joil 27' 6" - 1.5-inch clay	nt, near vertical	ayers ——————————			_467.12 . _J		2	100	57		
Becomes thinly be	edded, with dark	gray shale				-30					
31' 6" - 0.25-inch coa	l seam				461.41						
SHALEY CLAY: Dar					461.03	-					
SHALE: Light gray, i	noderately to hiç	phly weathered				_	3	100	100		
SILTSTONE: Light of	ray, moderately	weathered			<u>458.68</u>	-35					
		ne and black shale (varved)			<u>457.76</u> 456.84	П					
End of Boring					100.01	-					
						-40					

Color pictures of the cores	Yes	_
Cores will be stored for exan	nination until	
The "Strength" column repre	sents the uniaxial compres	sive strength of the core sample (ASTM D-2938)
		BBS, form 138 (Rev. 8-99)

						_									
LE NAME =	USER NAME = aubreygs	DESIGNED -	REVISED -									SECTION	COUNTY	TOTAL SHEETS	SHEET
ROING FILE-sheets .dgn		DRAWN -	REVISED -	STATE OF ILLINOIS	SOIL BORINGS LOG					RTE. 317	(18)[	FULTON	47	24	
	PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRACT	NO. 6	8A25
efault	PLOT DATE = 3/21/2013	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT		