



SOIL BORING LOG

Date 12/6/11

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI

SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E, Latitude , Longitude

COUNTY Fulton DRILLING METHOD CME 750 w/HSA HAMMER TYPE AUTO

STRUCT. NO. N/A Station N/A
 BORING NO. B-09 Station 12+00.85 Offset 94.1 ft RT
 Ground Surface Elev. 493.16 ft

DEPTH (ft)	DESCRIPTION	U.C.S. (tsf)	M.O.I.S.T.	DEPTH (ft)	DESCRIPTION	U.C.S. (tsf)	M.O.I.S.T.
491.74	SILTY CLAY: Dark brown, with fine sand (A-6)	29		472.16	SANDY SHALE: Gray (continued)		
488.74	SHALEY CLAY: Light brown, with sandstone fragments (A-7)	16			Auger refusal at 21.0 ft.		
488.49	Trace fine to medium sand and gravel	21			Borehole continued with rock coring.		
488.49	Coal seam observed at bottom of recovery						
	CLAYEY SHALE: Light gray, with iron staining	16					
	Becomes dark gray						
481.58	0.5-inch coal seam	16					
481.49	CLAYEY SHALE: Dark gray, with iron staining						
480.16	SILTSTONE: Light gray, with iron staining	8					
	SHALE: Light gray	8					
	Becomes gray	9					

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

Date 12/6/11

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI

SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E, Latitude , Longitude

COUNTY Fulton CORING METHOD Rotary, surface set diamond bit

STRUCT. NO. N/A Station N/A
 BORING NO. B-09 Station 12+00.85 Offset 94.1 ft RT
 Ground Surface Elev. 493.16 ft

DEPTH (ft)	DESCRIPTION	CORING BARREL TYPE & SIZE	RECOVERY (%)	ROQ (%)	CORE TIME (min/ft)	STRENGTH (tsf)
472.16	SANDSTONE: Gray	NX conv dbl bbl split inner	100	81		
467.45	25' 5" - 3/8-inch dark gray clay seam					
467.12	SANDSTONE interbedded with clay layers					
	25' 10" - 1-inch clay seam					
	SANDSTONE: Gray					
	26' 0.5" - 8.5-inch joint, near vertical					
	27' 6" - 1.5-inch clay and coal seam					
	Becomes thinly bedded, with dark gray shale					
461.41	31' 6" - 0.25-inch coal seam					
461.03	SHALEY CLAY: Dark gray					
	SHALE: Light gray, moderately to highly weathered					
458.68	SILTSTONE: Light gray, moderately weathered					
457.76	Very thinly layered light gray sandstone and black shale (varved)					
456.84	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)
 BBS, form 138 (Rev. 8-99)