Division of Highways SCI Engineering, Inc.				Date 9/28/12			
ROUTE FAP Route 42 (IL 127) DESCRIPTION IL 127 Over Kaskaskia	River		_ LOGGED BY SCI (HHF				
ECTION1-1BR-2 LOCATION Carlyle, IL, SEC. 31, TWP. 2N Latitude , Longitude	, <b>RNG.</b> 2	W,					
COUNTY Clinton CORING METHOD Wireline				R	CORE	S T	
STRUCT. NO.    014-0014    CORING BARREL TYPE & SIZE    NX      Station    140+00    Core Diameter    2.3    in      30RING NO.    B-3x    Top of Rock Elev.    388.00    ft      Station    132+36    Begin Core Elev.    388.00    ft	D E P T H	C O R E	C O V E R Y	Q D	T I M E	R E N G T H	
Offset 8.5 ft LT Ground Surface Elev. 436.0 ft	( ft	<b>(#</b> )	(%)	(%)	(min/ft)	(tsf)	
IMESTONE: Gray, hard, slight weathering, fossiliferous3 CLAYEY SHALE: Gray, soft to very soft, highly weathered	37.50	1	88	0	3		
	3 <u>6.70</u> 50 	- 2	100	87	1	2.0	
Becomes fossiliferous	_						
CLAYEY SHALE: Gray, soft, moderately to highly weathered		3	97	95	3.4		
33 SHALE: Dark gray to black, moderately hard, slightly weathered, with thin coal seams	79.25	-					
	-		105			37.1	
Approximate 45 degree fracture, rock is wet	 	4	100	30	4.6		
SANDSTONE: Grav, fine grained hard calcareous	74.30 -	1					
HALE: Dark gray to black, moderately hard, slightly weathered, with thin coal seams		1					
Approximate 50 degree fracture, rock is wet Approximate 50 degree fracture, rock is wet		-					
1 inch COAL SEAM	7 <u>1.20</u> 65	5	100	73	5.2		
	_					7.2	
						1.2	



			-	
	1-1	BR-2	LOCA	TION <u>Car</u>
COUNTY	Clinton	COF	RING METHOD	Wireline
STRUCT. NO.		0014	CORING B	ARREL TY
Station	140	+00	Core Dia	meter
BORING NO.	B-3x		Top of R	ock Elev.
Station	132-	+36	Begin Co	ore Elev.
Offset	8.5 f	t LT	_	
Ground Surfa	ce Elev.	436.0	ft	
	E. Links and	nu ooft hi	المحمد واللاح ويربي بالوارم	

ROUTE FAP Route 42 (IL 127) DESCRIPTION IL 127 Over Kaskaskia River LOGGED BY SCI (HHF) rlyle, IL, SEC. 31, TWP. 2N, RNG. 2W, atitude , Longitude 
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S T R E N G T H PE & SIZE NX 2.3 in 388.00 ft 388.00 ft (ft) (#) (%) (%) (min/ft) (tsf) SHALE: Light gray, moderately hard, slightly to moderately weathered, trace sand 6 100 100 4 \_ \_\_\_\_\_7 100 93 1.1 5.6 \_\_\_\_\_ NE, AND SHALE <u>362.00</u> 8 100 100 2.25 slightly weathered, few -75 31.8 358.30 Boring terminated at 77.8 ft. -80 \_ \_ -85 \_\_\_\_

With sand
1 inch SANDSTONE SEAM
7 inch layers of INTERBEDDED SANDSTONE, SILTSTON
SANDSTONE: Dark gray, very fine grained, moderately hard, s
thin shale seams

Color pictures of the cores \_\_\_\_\_y\_\_\_\_ 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)

Color pictures of the cores	4
Cores will be stored for examination until	

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)



	USER NAME =	DESIGNED - RLM CHECKED - JTH	REVISED REVISED	STATE OF ILLINOISROCK CORE LOG B-3XDEPARTMENT OF TRANSPORTATIONSTRUCTURE NO. 014-0033		F.A.P. SECTION 42 1-18R	2 01	UNTY TOTAL SHEET SHEETS NO.	
ASTERS	PLOT SCALE =	DRAWN - PRC	REVISED		STRUCTURE NU. 014-0033			NTRACT NO. 76479	
ce great bridges.	PLOT DATE = 2/1/2013	CHECKED - RLM	REVISED		SHEET NO. 54 OF 61 SHEETS	ILLINOIS		ED. AID PROJECT	

## **ROCK CORE LOG**

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Date 9/28/12