



Illinois Department  
of Transportation  
Division of Highways  
District 6

### SOIL BORING LOG

Page 1 of 1

Date 12/13/12

ROUTE RT 48 DESCRIPTION IL 48 over Bear Creek LOGGED BY M. Tappan

SECTION 4 (I); 136B-1 LOCATION SE 1/4, SEC. 33, TWP. 12N, RNG. 3W, 3 PM

COUNTY Christian Co. DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 011-0514  
Station 627+01  
BORING NO. 3 N. Pier  
Station 627+32  
Offset 40.0ft LT  
Ground Surface Elev. 589.0 ft

Surface Water Elev. 584.0 ft  
Stream Bed Elev. 583.0 ft  
Groundwater Elev.:  
First Encounter 575.0 ft  
Upon Completion Washed ft  
After 7 Days Hrs. 585.0 ft

DEPTH (ft)	SOIL DESCRIPTION	DEPTH (ft)	BLU (ft)	UCS (tsf)	MOIST (%)
0	Gray Moist SILTY CLAY LOAM with Brown Iron Oxidation Stains (Disturbed)	4	P		
0		8			
1		100			10
2		6"			
585.50	Dark Gray Moist SILTY CLAY (Disturbed)				
1					
1					23
2					
2					27
2					
580.00	Brown and Light Blue GRAY Very Moist LOAM to CLAY LOAM				
0					24
1					
573.00	Light Gray Wet SAND LOAM				
0					20
1					
575.50	Gray Fine SAND				
0					
1					
1					
571.00	Gray Medium SAND with Some Pea GRAVEL Washed				
1					
1					
571.00	Gray Medium SANDY GRAVEL to Light Blue Moist Shaly CLAY Washed				
1					
2					16

File Name: S:\SOLIS\GINT\FILES\CHRISTIAN\011-0514 BEAR CREEK.GPJ Data Type: Data DATE: 12/13/12 10:01:01 AM Job Number: D-95-5033-05

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)  
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced By Weight of Pipe, B.S. - Before Seating  
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)

Note:  
N. Pier in Boring Logs refers to Pier 2 in plans.



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### ROCK CORE LOG

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Date 12/13/12

ROUTE RT 48 DESCRIPTION IL 48 over Bear Creek LOGGED BY M. Tappan

SECTION 4 (I); 136B-1 LOCATION SE 1/4, SEC. 33, TWP. 12N, RNG. 3W, 3 PM

COUNTY Christian Co. CORING METHOD Water

STRUCT. NO. 011-0514  
Station 627+01  
BORING NO. 3 N. Pier  
Station 627+32  
Offset 40.0ft LT  
Ground Surface Elev. 589.0 ft

CORING BARREL TYPE & SIZE NQ2WL  
Core Diameter 2 in  
Top of Rock Elev. 568.00 ft  
Begin Core Elev. 585.00 ft

DEPTH (ft)	RECOVERY (%)	ROQ (%)	CORE TIME (min/ft)	STRENGTH (tsf)
1	35	35		
25				225.2
562.90				
2	100	77		
221				
3	100	73		
325.7				
562.90				
4	100	60		
200.8				
546.00				
Boring Complete				

ROCK CORE 011-0514 BEAR CREEK.GPJ DATE: 12/13/12

Color pictures of the cores Yes, On File  
Cores will be stored for examination until 5 Years after Construction  
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
RQD is the ratio of the total length of sound core specimens >4" to total length of core run BBS, form 138 (Rev. 8-99)



USER NAME = \$OPERATOR\$	DESIGNED - TJZ	REVISED
FILE NAME = 0110514-72A61.dgn	CHECKED - CWC	REVISED
PLOT SCALE = 0:2.0000" = 1"	DRAWN - DLH	REVISED
PLOT DATE = 8/16/2013	CHECKED - TJZ	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BORING LOGS  
STRUCTURE NO. 011-0514

SHEET NO. 24 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(4)I; 136B-1	CHRISTIAN	97	64
	75 (IL 27) & 714 (IL 48)	CONTRACT NO. 72A61		

ILLINOIS FED. AID PROJECT