STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.U. 7706	23(B-1)	LOGAN	179	133
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 49
52 SHEETS

Contract #72789

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 6/4/07

ROUTE FAU 7706 (BL-55) DESCRIPTION BL-55 (Old US 66) over Salt Creek LOGGED BY M. Tappan

SECTION 23(B-1) LOCATION NE 14, SEC. 2, TWP. 19 N, RNG. 3 W, 3 PM

COUNTY Logan DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 054-0005 Ex / 054-0512 Pr
Station 99+46

BORING NO. 0512-P2 Pier 2
Station 98+73
Offset 40.0ft Lt
Ground Surface Elev. 543.7 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 534.2 ft
Upon Completion Washed ft
After 72 Hrs. 536.7 ft

Description	Elev. (ft)	Depth (ft)	BLOWS /6"	Qu (tsf)	MOIST (%)
Brown and Dark Grey Moist SILTY CLAY			1		
			4	2.1	17
			5	S-10	
	540.20				
Brown and Dark Grey Moist Dirty Sandy GRAVEL			2		
		-5	3		
			5		
			1		
			3		
			4		
			5		
Grey Medium Grained Sandy GRAVEL w/Broken Concrete Free Water		-10	7		
			7		
			2		
Grey Medium Grained Sandy GRAVEL			3		
			4		
Washed			3		
		-15	4		
			4		
			3		
Washed			4		
			5		
			7		
	523.70	-20	14		13

Description	Elev. (ft)	Depth (ft)	BLOWS /6"	Qu (tsf)	MOIST (%)
Grey Moist Poorly Indurated Clayey SHALE Washed			11		
			13		
w/Calcareous Seams Washed			21		11
			37		
			12		
Grey Moist Poorly Indurated Clayey SHALE w/Calcareous Seams		-25	41		12
			59		
			/3"		
		-30	100		9
			/6"		
			22		
			50		
	508.70	-35	100		12
Boring Completed			/2"		
		-40			

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)

File Name S:\DOLP\LOGS\ FAU(B)\LOGAN\054-0512 AND 0513 IL 55 OVER SALT CREEK.GPJ Data Template DOT7BGPK.GDT Date Printed 6/6/07
Latitude 40 Deg 07.054 N Longitude 89 Deg 22.333 W Datum NAD83 Job Number 2006-255-B

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 6/6/07

ROUTE FAU 7706 (BL-55) DESCRIPTION BL-55 (Old US 66) over Salt Creek LOGGED BY M. Tappan

SECTION 23(B-1) LOCATION NE 14, SEC. 2, TWP. 19 N, RNG. 3 W, 3 PM

COUNTY Logan DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 054-0005 Ex / 054-0513 Pr
Station 99+46

BORING NO. 0513-P2 Pier 2
Station 98+71
Offset 42.0ft Rt
Ground Surface Elev. 544.0 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 537.5 ft
Upon Completion Washed ft
After Hrs. Plugged ft

Description	Elev. (ft)	Depth (ft)	BLOWS /6"	Qu (tsf)	MOIST (%)
Brown Medium Grained Moist SAND					
			1		
Anger Unstable – Drilled to 3.5'			2		
		-5	3		
			1		
Brown Medium Grained SAND Free Water			2		
			1		
			1		
Grey Medium Grained Sandy GRAVEL		-10	1		
			5		
			1		
			6		
			6		
			2		
Washed			5		
		-15	7		
			3		
Washed			4		
			4		
			2		
Washed			7		14
	524.00	-20	13		

Description	Elev. (ft)	Depth (ft)	BLOWS /6"	Qu (tsf)	MOIST (%)
SHALE					
Grey Moist Poorly Indurated Clayey SHALE			7		
			21		13
			21		
Borehole continued with rock coring.					
		-25			
		-30			
		-35			
		-40			

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)

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Latitude 40 Deg 07.054 N Longitude 89 Deg 22.333 W Datum NAD83 Job Number 2006-255-B

Illinois Department of Transportation
Division of Highways
District 6

ROCK CORE LOG

Page 1 of 1

Date 6/6/07

ROUTE FAU 7706 (BL-55) DESCRIPTION BL-55 (Old US 66) over Salt Creek LOGGED BY M. Tappan

SECTION 23(B-1) LOCATION NE 14, SEC. 2, TWP. 19 N, RNG. 3 W, 3 PM

COUNTY Logan CORING METHOD Water

STRUCT. NO. 054-0005 Ex / 054-0513 Pr
Station 99+46

CORING BARREL TYPE & SIZE NXBWL

Core Diameter 1.88 in
Top of Rock Elev. 524.00 ft
Begin Core Elev. 520.50 ft

BORING NO. 0513-P2 Pier 2
Station 98+71
Offset 42.0ft Rt
Ground Surface Elev. 544.0 ft

Description	Elev. (ft)	Depth (ft)	CORE (#)	RECOVERY (%)	RQD (%)	CORE TIME (min/ft)	STRENGTH (tsf)
SHALE (continued) Grey Moderately Indurated Clayey SHALE w/Calcareous Seams Open Joints Spaced at 2"-12"			1	98	44		
		-25					
							23.6
Split run 1 into two parts – RQD higher for bottom half			1A	98	50		
		-30					
							29.3
Grey Moderately Indurated Clayey SHALE w/Calcareous Seams Open Joints Spaced at 2"-12"			2	95	47		
		-35					
							59.8
							93.1
		-40					
							111.9
Boring Completed	500.90						

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)

ROCK CORE 054-0512 AND 0513 IL 55 OVER SALT CREEK.GPJ DOT7BGPK.GDT 6/6/07

DESIGNED	JJD
CHECKED	EML
DRAWN	JJD
CHECKED	EML

HORNER & SHIFRIN, INC.
ENGINEERS

BORING LOGS
F.A.U. ROUTE 7706 - SECTION 23(B-1)
LOGAN COUNTY
STATION 99+46.00
STRUCTURE NO. 054-0512