Illinois Department of Transportation
Division of Highways
SCI Engineering, Inc.

SOIL BORING LOG

Date 09/08-12/05

ROUTE FAP 315 DESCRIPTION IL 336 Macomb Bypass (Northwest Corridor) - US 136 over IL 336 LOGGED BY SCI (BCR)

SECTION 55-3 LOCATION Prop. Center Pier, NE 1/4, SEC. 4, TWP. 5 N, RNG. 3 W, 4th PM, Latitude 40° 26' 53.276841" N, Longitude 90° 44' 16.925941" W

COUNTY McDonough DRILLING METHOD CME 1050 w/HSA HAMMER TYPE Automatic

STRUCT. NO. 055-0063
Station 513+75.51 (US 136)

BORING NO. B-602
Station 514+05 (US 136)
Offset 50.0 ft RT
Ground Surface Elev. 689.40 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 666.4 ft ▼
Upon Completion ft
After 72 Hrs. 684.1** ft ▽

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
FILL: Crushed rock	689.2				
FILL: Brown silty clay, A-6	688.4				
Brown and gray CLAY, A-7			3		
			2	1.5	30
			5	B	
			3		
			3	0.7	28
		-5	4	B	
			4		
			4	1.4	20
			5	B	
			3		
			3	1.4	25
		-10	4	B	
			3		
			4	1.9	24
			6	B	
			2		
			4	1.3	25
		-15	5	S	
			2		
			4	1.5	16
			6	B	
			3		
			6	3.2	13
		-20	11	B	
Brown and gray CLAY, A-7 (continued)			6		
			8	3.2	14
			14	B	
	665.9				
Brown SANDY LOAM, A-2	665.4		10		
Brown CLAY LOAM, A-4	664.9		8	3.5	13
Brown CLAY, A-7		-25	10	B	
	663.4				
Brown CLAY LOAM, A-4			15		
			21	0.4	19
	662.2		20	S	
Brown and gray CLAY, A-7					
			7		
			9	4.0	14
		-30	16	S	
Began mud rotary at 30 ft.					
			4		
			6	2.6	18
		-35	8	B	
	650.1		7		
Brown SANDY CLAY LOAM, A-2			21	1.9	14
		-40	20	B	

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)

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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown SANDY CLAY LOAM, A-2 (continued)					
	647.4				
Brown SAND, A-3			32		
			44		
		-45	50/4"		
	640.4		9		
Gray CLAY LOAM, A-6	639.8		20		13
		-50	51		
Gray SAND, A-3					
	637.4				
Gray CLAY, A-7					
			10		
			10	2.9	16
		-55	19	B	
			5		
			9	3.5	20
		-60	13	B	
Gray CLAY, A-7 (continued)					
	625.7		5		
Brown and gray CLAY LOAM, A-6			7	2.4	22
		-65	10	B	
			8		
			12	1.4	20
	619.6	-70	11	B	
Brown and gray CLAY, A-7					
	617.6				
GRAVEL (driller's observation)	617.4				
Brown and gray CLAY, A-7					
			9		
			13	3.2	21
		-75	21	B	
			11		
			13	3.3	22
		-80	27	B	

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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown and gray CLAY, A-7 (continued)					
			17		
	604.9		23		28
Black ORGANIC SILT, A-4		-85	50/5"		84
	603.1		22		
Brown and gray CLAY, A-7			33	3.4	15
			50/5.5"	S	
			22		
			31	4.6	12
		-90	49	B	
	598.5				
Gray CLAYEY SHALE			50/5.5"		
			50/3"		10
			50/1.5"		
	595.9				
Boring Terminated at 93.5 ft.			50/1.5"		
			50/0.5"		9
**Hole Collapsed at 8.3 ft		-95			
		-100			

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