



Illinois Department
of Transportation
Division of Highways
Contract #

SOIL BORING LOG

Page 1 of 1

Date 5/22/09

ROUTE FAP 662 DESCRIPTION IL 4 Over Tributary of East Fork Otter Creek LOGGED BY M. Tappan

SECTION D(W-3,RS-11) LOCATION SE 1/4, SEC. 20, TWP. 12 N, RING. 6 W, 3 PM

COUNTY Macoupin DRILLING METHOD HSA HAMMER TYPE 140 lb Auto

STRUCT. NO. 059-7004 Ex Station 059-7101 Pr 449+82	D E P T H S F T	B L O C K S Q u a r t z	U C S I	M O I S T U R E	Surface Water Elev. 841.8 ft Stream Bed Elev. 840.8 ft Groundwater Elev.: First Encounter 831.8 ft Upon Completion 828.2 ft After Hrs. Plugged ft	D E P T H S F T	B L O C K S Q u a r t z	U C S I	M O I S T U R E
BORING NO. 1 Station 449+82 Offset 72.0 ft RT Ground Surface Elev. 846.3 ft	(ft)	(in)	(ft)	(%)		(ft)	(in)	(ft)	(%)
Brown and Black SILTY CLAY (FI)					Gray Moist CLAY LOAM (TI) (continued)				
	1					1			
	2	0.7	21			5	3.3	14	
	3					6			
641.88									
SILTY CLAY									
Gray Very Moist	1	0.4	25			4	2.5	17	
	2					5			
Very Dark Gray Very Moist									
	1	0.4	31						
	2								
Black Moist									
	1					2			
	2	0.6	27		Olive Brown and Gray Moist Clay Loam (III)	6	3.9	15	
	3					7			
Very Dark Gray Very Moist									
	1	0.2	23						
	2								
Gray SAND									
Dirty Fine	0				Light Blue Gray Moist Clayey SHALE	2			
Free Water	1					3			
	2				Boring Completed				
Medium to Coarse with Some Fleck Gravel					Refer Elevation to BM TJMM102=645.1 ft				
Gray Moist CLAY LOAM (III)					Refer Station to BM TJMM102 = 648+82.21 ft RT Increase to South				
	1								
	4	4.3	12						
	5								

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 Sealing
The SPT (N value) is the sum of the last two blow values in each sampling zone (ASTM D 1586, from 157 (Rev. 8-98))



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BORING NO. 2 Station 450+15 Offset 39.0 ft RT Ground Surface Elev. 843.0 ft	(ft)	(in)	(ft)	(%)		(ft)	(in)	(ft)	(%)
Gray Very Moist SILTY CLAY LOAM									
	1								
	2	0.1	25						
	3								
641.68									
Very Moist SILTY CLAY									
Dark Gray	1	0.1	25						
	2								
Black									
	1	0.6	25						
	2								
Dark Gray									
	1	0.0	25						
	2								
Olive Brown and Gray Moist SILTY CLAY									
	1	2.6	18						
	2								
Gray Moist SAND LOAM									
	1	0.3	11						
	2								
Boring Completed									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
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STRUCT. NO. 059-7004 Ex Station 059-7101 Pr 449+82	D E P T H S F T	B L O C K S Q u a r t z	U C S I	M O I S T U R E	Surface Water Elev. 841.8 ft Stream Bed Elev. 840.8 ft Groundwater Elev.: First Encounter 835.8 ft Upon Completion Plugged ft After Hrs. Plugged ft	D E P T H S F T	B L O C K S Q u a r t z	U C S I	M O I S T U R E
BORING NO. 3 Station 449+85 Offset 58.0 ft LT Ground Surface Elev. 848.6 ft	(ft)	(in)	(ft)	(%)		(ft)	(in)	(ft)	(%)
SILTY CLAY									
	1								
Very Dark Gray Moist	2	1.3	24						
	3								
Black Moist									
	1	1.0	25						
	2								
Gray Moist									
	1	0.9	23						
	2								
Gray Very Moist Free Water									
	1	0.1	23						
	2								
Gray Moist LOAM									
	1	0.0	24						
	2								
Gray Moist CLAY LOAM (TI)									
	1	1.1	13						
	2								
Boring Completed									

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BORINGS
STRUCTURE NO. 059-7101



Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL Design Firm
No. 184-001907

SHEET NO. 9
9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	D(W-3,RS-11,CR)	MACOUPIN	102	72
CONTRACT NO. 72765				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			