

# SB-109

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SOIL BORING LOG										PAGE 1 of 4	
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08										DATE 5/11-12/2009	
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3										LOGGED BY DR	
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic										GSI JOB No. 08201	
STRUCT. NO. 082-W309										Surface Water Elev. n/a	
Station: ---										Stream Bed Elev. n/a	
BORING NO. SB-109										Groundwater Elevation:	
Station: 24+26										First Encounter n/a	
Offset: 37.5' Right										Upon Completion n/a	
Ground Surface Elev. 415.9										After 24 Hrs. n/a	
DEPTH	BLOW	UCS	MOIST	Surface Water Elev.		DEPTH	BLOW	UCS	MOIST	Stream Bed Elev.	
H	W	Qu	S	n/a		H	W	Qu	S	n/a	
(ft)	(/6")	(tsf)	(%)			(ft)	(/6")	(tsf)	(%)		
CINDERS-block-loose (Fill)											
	AS	NP	21								
	5			SANDY LOAM-brown-very loose to loose (A-2/A-3)			2				
	4						2				
	3	NP	23				1	NP	31		
412.9						392.9					
SILTY CLAY-brown-stiff (A-6) Wet											
	1						4				
	2						4				
	3	12SP	26				4	NP	24		
410.4						410.4					
SILTY LOAM-brown-loose (A-4)											
	1			SAND-brown-loose to dense (A-3)			10				
	2	NP	16				10	NP	25		
	1						18				
	2						24				
	2	NP	22				30	NP	22		
405.4						405.4					
SILTY CLAY-brown-very soft (A-7) Wet											
	2						16				
	1						20				
	1	<0.25	36				18	NP	23		
402.9						402.9					
SILTY LOAM-brown-very loose to loose (A-4)											
	2						9				
	3						10				
	2	<0.25	28				35	NP	25		
	1						7				
	1						8				
	2	NP	29				11	NP	25		
397.9						397.9					
SANDY LOAM-brown-very loose to loose (A-2/A-3)											
	3						5				
	2						4				
	2	NP	27				4	NP	25		
415.9						415.9					

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Ground Surface Elev. 415.9										After 24 Hrs. n/a	
DEPTH	BLOW	UCS	MOIST	Surface Water Elev.		DEPTH	BLOW	UCS	MOIST	Stream Bed Elev.	
H	W	Qu	S	n/a		H	W	Qu	S	n/a	
(ft)	(/6")	(tsf)	(%)			(ft)	(/6")	(tsf)	(%)		
SAND-brown-loose to dense (A-3) 375.4											
	6						6				
	3						8				
	5	NP	29				9	NP	27		
372.9						372.9					
SANDY LOAM-gray-loose (A-2)											
	6						7				
	7						6				
	7	NP	26				7	NP	27		
370.4						370.4					
SAND-brown-medium dense (A-3)											
	7						8				
	6						10				
	7	NP	28				12	NP	24		
365.4						365.4					
SAND-gray-loose to medium dense (A-3)											
	7						5				
	7						4				
	5	NP	24				7	NP	22		
362.4						362.4					
SANDY LOAM-gray-medium dense (A-2)											
	6						5				
	7						5				
	6	NP	25				7	NP	25		
357.9						357.9					
SAND & GRAVEL-brown & gray-medium dense (A-1)											
	13						13				
	9						9				
	8	NP	9				8	NP	9		
317.9						317.9					

SOIL BORING LOG										PAGE 3 of 4	
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Station: 24+26										First Encounter n/a	
Offset: 37.5' Right										Upon Completion n/a	
Ground Surface Elev. 415.9										After 24 Hrs. n/a	
DEPTH	BLOW	UCS	MOIST	Surface Water Elev.		DEPTH	BLOW	UCS	MOIST	Stream Bed Elev.	
H	W	Qu	S	n/a		H	W	Qu	S	n/a	
(ft)	(/6")	(tsf)	(%)			(ft)	(/6")	(tsf)	(%)		
SAND with GRAVEL-dense (A-1-b) 315.4											
	14						21				
	10						28				
	7	NP	10				36	NP	16		
332.9						332.9					
SAND & GRAVEL-brown & gray-medium dense (A-1)											
	14						50/5"				
	15						50/5"				
	12	NP	13				108	NP	11		
327.9						327.9					
SAND & GRAVEL-brown & gray-very dense (A-1)											
	24						50/5"				
	43						50/5"				
	17	NP	14					NP	13		
307.9						307.9					
SAND-brown & gray-medium dense to dense (A-3)											
	13						50/5"				
	10						50/5"				
	12	NP	14				110	NP	NR		
302.9						302.9					
SAND with GRAVEL-brown & gray-very dense (A-1-b)											
	12						50/5"				
	12						50/5"				
	13	NP	15					NP	17		
302.9						302.9					
SANDY LOAM-brown-very dense (A-2)											
	13						50/5"				
	15						50/5"				
	20	NP	14				300.9-115	NP	37		
300.9						300.9					
RUN 1 (-115.0' to -125.0') Mississippi System, Valmeyeran Series Limestone											
	11									RUN 1	
	9										
	9	NP	15								
317.9						317.9					
SAND with GRAVEL-brown & gray-dense (A-1-b)											
	13										
	15										
	20	NP	15								
120						120					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)  
NR-No Recovery

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)  
NR-No Recovery

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)  
NR-No Recovery

11/11/2011 10:54:55  
 \\s01p001\p001\MS.DGN ... 0820328 CONN 99-001-MS.DGN  
 NEWARK, NJ 08104  
 871-2202-26886-001\STRUCT\CAD\01 DESIGN\0820328\01\0820328-CONN-10-005-SH1-MS.DGN

FILE NAME =	USER NAME = suser*	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b> IL 3 OVER I-70	<b>SOIL BORING LOGS</b> 1 OF 21			F.A.P. RTE. 998	SECTION 82-2-1HVB-1	COUNTY ST. CLAIR	TOTAL SHEETS 345	SHEET NO. 172
*FILE#		DRAWN - TCG	REVISED -		SCALE:			SHEET NO. SA-37 OF SA-57 STA. 1683+43.17 TO STA.			SN 082-0328 CONTRACT NO. 76D05	
		CHECKED - JLR	REVISED -		FED. ROAD DIST. NO.			ILLINOIS		FED. AID PROJECT		
		DATE - 05/13/11	REVISED -									

