SB-129

SOIL BORING LOG

PAGE 1 of 4
DATE 5/7-8/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE 170/IL3
DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08
SECTION 82-2-1HVB-1
LOCATION I-70 & Illinois Route 3
COUNTY St. Clair
DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 082-0329
Station: --
BORING NO. SB-129
Station: 1681+48
Offset: 80.5' Left
Ground Surface Elev. 416.8

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After 24 Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY LOAM with Cinders-black (Fill)	415.8		AS	NP	12
SILTY CLAY-dark brown, gray & black-soft to stiff (A-7) Wet			2		
			2	1.25P	25
			0		79
			1		
		-5	1	0.48	40
SILT-brown & gray-loose (A-4)	411.3		2		
			3		
			3	NP	25
		-10	ST	NP	20
			3		
			3		
			3	NP	29
			2		
			2		
		-15	2	NP	29
SANDY LOAM-brown & gray-very loose to loose (A-2)	398.8		2		
			2		
			2	NP	34
			3		
		-20	2	NP	27
SANDY LOAM-brown & gray-very loose to loose (A-2)	393.8		3		
			1		
			2	NP	30
			4		
		-25	5	NP	26
SAND-brown & gray-mecium dense to dense (A-3)			8		
			7		
			8	NP	26
			5		
		-30	7	NP	29
			17		
			22		
			25	NP	22
			16		
			19		
		-35	24	NP	22
			12		
			15		
			25	NP	24
			7		
		-40	8	NP	25

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

SB-129

SOIL BORING LOG

PAGE 2 of 4
DATE 5/7-8/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE 170/IL3
DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08
SECTION 82-2-1HVB-1
LOCATION I-70 & Illinois Route 3
COUNTY St. Clair
DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 082-0329
Station: --
BORING NO. SB-129
Station: 1681+48
Offset: 80.5' Left
Ground Surface Elev. 416.8

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After 24 Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND-medium dense to dense (A-3)	376.3				
SILTY CLAY LOAM-brown & gray-soft (A-4/A-6) Wet			4		89
			3		
			3	0.38	31
SAND-brown & gray-medium dense (A-3)	373.8		7		
			8		
		-45	10	NP	28
			6		
			6		
			8	NP	26
			5		
			4		
		-50	8	NP	25
			6		
			8		
			10	NP	29
			7		
			7		
		-55	10	NP	28
SANDY LOAM-gray-medium dense (A-2)	361.3		7		
			6		
			10	NP	27
			4		
		-60	9	NP	27
SANDY LOAM-medium dense (A-2)	356.3				
			6		
			6		
			11	NP	26
			11		
SAND-gray-medium dense to dense (A-3)			13		
		-65	12	NP	21
			6		
			13		
			17	NP	23
			11		
			12		
		-70	13	NP	22
			13		
			14		
			9	NP	23
Trace organics from -73.5' to -75.0'.			8		
			11		
		-75	14	NP	26
SAND with Gravel-brown & gray-medium dense (A-1-b)	338.8		9		
			12		
			13	NP	21
			10		
		-80	10	NP	17

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

SB-129

SOIL BORING LOG

PAGE 3 of 4
DATE 5/7-8/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE 170/IL3
DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08
SECTION 82-2-1HVB-1
LOCATION I-70 & Illinois Route 3
COUNTY St. Clair
DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 082-0329
Station: --
BORING NO. SB-129
Station: 1681+48
Offset: 80.5' Left
Ground Surface Elev. 416.8

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After 24 Hrs. n/a

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND with Gravel-brown & gray-medium dense (A-1-b)			9		
			9		
			9	NP	14
			9		
			9		
		-85	9	NP	12
SAND-brown & gray-medium dense (A-3)	331.3		6		
			13		
			16	NP	15
			12		
			9		
		-90	12	NP	14
			9		
			9		
			10	NP	13
			8		
			12		
		-95	13	NP	17
			11		
			7		
			8	NP	15
			9		
			10		
		-100	10	NP	19
SAND-medium dense (A-3)	316.3				
			14		
			16		
			22	NP	13
SAND with Gravel-brown & gray-dense to very dense (A-1-b)			25		
			44		
		-105	34	NP	12
			50/5"		
				NP	12
			50/4"		
		-110		NP	11
			20		
			30		
			50/5"	NP	39
			28		
			50/6"		
		-115		NP	27
Drillers Observation: Apparent Bedrock	300.8				
RUN 1 (-116.5' to -126.5') Mississippian System, Valmeyeron Series Limestone	300.3				
Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -117.1', -117.5', -118.3', -119.5', -119.7', -120.4', -120.7', -121.5'.		-120			RUN 1

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