WB-04

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
808 Quincy Court, Suite 304
Naperville, Illinois 60563
630-355-7838

SOIL BORING LOG

PAGE 1 of 2
DATE 7/22/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE I-70
DESCRIPTION I-70 Tri-Level Connection IDOT Job No. D-98-059-08
SECTION XX
LOCATION I-70 Curved Approach Structure-Retaining Wall
COUNTY St. Clair
DRILLING METHOD Straight Flight Auger/Rotary
HAMMER TYPE Diedrich Automatic

STRUCT. NO. XX
Station: 140+70 to 147+35
BORING NO. WB-04
Station: 142+73
Offset: 39.5' Left
Ground Surface Elev. 405.4

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 (%)
TOPSOIL-black	XX		AS	–	29
			1		*90*
			3		
			4	2.5B	32
SILTY CLAY-brown-medium stiff to stiff (A-6) Wet			1		*90*
			1		
		-5	1	1.1B	29
			1		
			1		
			1	0.5P	28
SANDY LOAM-brown-loose (A-2)	XX		2		
			3		
		-10	3	NP	23
SILTY CLAY-brown-medium stiff (A-6) Wet	XX		1		
			2		
			2	0.5P	30
SAND-gray-loose to medium dense (A-3)	XX		3		
			4		
		-15	3	NP	22
			6		
			12		
			14	NP	20
			8		
			6		
		-20	8	NP	20
SAND-loose to medium dense (A-3)	XX				
SANDY LOAM-gray-loose (A-2)	XX		1		
			5		
			1	–	30
			5		
			8		
		-25	10	NP	18
SAND-brown-medium dense (A-3)	XX		8		
			8	NP	21
			4		
			8		
		-30	11	NP	19
			14		
			14		
			12	NP	16
			7		
			9		
		-35	9	NP	19
SAND-gray-loose to dense (A-3)	XX		7		
			4		
			7	NP	26
			7		
			10		
		-40	10	NP	23

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

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ROUTE I-70
DESCRIPTION I-70 Tri-Level Connection IDOT Job No. D-98-059-08
SECTION XX
LOCATION I-70 Curved Approach Structure-Retaining Wall
COUNTY St. Clair
DRILLING METHOD Straight Flight Auger/Rotary
HAMMER TYPE Diedrich Automatic

STRUCT. NO. XX
Station: 140+70 to 147+35
BORING NO. WB-04
Station: 142+73
Offset: 39.5' Left
Ground Surface Elev. 405.4

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 (%)
			12		
			11		
			8	NP	22
			4		
SAND-gray-loose to dense (A-3)		-45	6	NP	17
			6		
Trace organics from -46.0' to -47.5'.			9		
			15	NP	28
			11		
		-50	12		
			8	NP	24
			7		
			7		
			10	NP	23
			13		
			12		
		-55	13	NP	22
			14		
			18		
			16	NP	20
			9		
			10		
		-60	10	NP	22
			19		
			17		
			12	NP	20
			11		
		-65	10	NP	23
			18		
			20		
			16	NP	21
			11		
		-70	11		
			8	NP	26
			5		
Trace organics from -71.0' to -72.5'.			4		
			4	NP	30
			11		
			14		
		-75	13	NP	16
			10		
			17		
			25	NP	17
SAND with Gravel-medium dense (A-1-b)	XX		13		
End Of Boring @ -80.0'					
Straight Flight Augers To -10.0'			7		
Rotary Drilling To Completion	XX -80		5	NP	16

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WB-05

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SOIL BORING LOG

PAGE 1 of 2
DATE 7/23/2009
LOGGED BY MR
GSI JOB No. 08201

ROUTE I-70
DESCRIPTION I-70 Tri-Level Connection IDOT Job No. D-98-059-08
SECTION XX
LOCATION I-70 Curved Approach Structure-Retaining Wall
COUNTY St. Clair
DRILLING METHOD Straight Flight Auger/Rotary
HAMMER TYPE Diedrich Automatic

STRUCT. NO. XX
Station: 140+70 to 147+35
BORING NO. WB-05
Station: 143+25
Offset: 51.5' Left
Ground Surface Elev. 405.7

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 TOPSOIL-black	XX		AS	–	27
			1		*88*
			2		
			4	1.5B	34
SILTY CLAY-brown-medium stiff to stiff (A-6) Wet			2		*89*
			2		
		-5	2	0.4B	31
SILTY LOAM-brown-very loose to loose (A-4) Wet	XX		1		
			2		
			2	NP	28
			1		
			1		
		-10	2	NP	29
SANDY LOAM-brown-very loose (A-2)	XX		3		
			5		
			3	NP	26
			4		
			5		
		-15	4	NP	24
SAND-brown-medium dense (A-3)	XX		2		
			5		
			8	NP	21
			3		
			4		
		-20	9	NP	21
SAND-brown-medium dense (A-3)			6		
			10		
			14	NP	19
			7		
		-25	11	NP	17
			6		
			11		
			13	NP	24
			7		
			7		
		-30	7	NP	21
			4		
			10		
			10	NP	18
			4		
			7		
		-35	10	NP	21
			6		
			9		
			14	NP	25
			NP		
			10		
		-40	13	NP	23

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NR-No Recovery