WB-05

Geo Services Inc.
Geotechnical, Environmental & Civil Engineering
805 Meridian Court, Suite 204
Naperville, Illinois 60565
630-355-1555

SOIL BORING LOG

PAGE 2 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 (%)
SAND-brown-medium dense (A-3)	XX				
SAND-gray-medium dense (A-3)			6		
			6		
			8	NP	26
			4		
			7		
		-45	12	NP	24
			9		
			8		
			5	NP	28
	XX				
SAND with Gravel-gray-medium dense (A-1-b)			7		
		-50	13	NP	16
	XX				
SAND-gray-medium dense to very dense (A-3)			12		
			12		
			12	NP	22
			11		
			12		
		-55	13	NP	23
			9		
			12		
			19	NP	20
			13		
			14		
		-60	18	NP	19
Trace organics from -61.0' to -62.5'.			10		
			16		
			38	NP	20
			17		
			12		
		-65	15	NP	20
SAND-gray-medium dense to very dense (A-3)			9		
			13		
			25	NP	25
			11		
			14		
		-70	20	NP	22
			15		
			29		
			33	NP	20
			16		
			11		
		-75	9	NP	20
			12		
			26		
			15	NP	16
	XX				
SAND with Gravel-loose (A-1-b)			10		
End Of Boring @ -80.0'			8		
Straight Flight Augers To -10.0'					
Rotary Drilling To Completion	XX	-80	8	NP	12

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

WB-06

Geo Services Inc.
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805 Meridian Court, Suite 204
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SOIL BORING LOG

PAGE 1 of 2
DATE 7/23-24/2009
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-06
Station: 143+75
Offset: 52.5' Left
Ground Surface Elev. 405.8

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 (%)
TOPSOIL-black	XX		AS	-	30
SILTY CLAY-brown-soft to stiff (A-6) Wet			2		88
			2		
			4	1.3B	32
			1		86
			3		
		-5	4	1.4B	34
			1		92
			2		
			2	0.3B	31
	XX				
SILTY LOAM-brown-loose (A-4)			1		
			2		
		-10	3	NP	25
	XX				
SAND-brown-loose to medium dense (A-3)			2		
			2		
			4	NP	26
			1		
			2		
		-15	5	NP	27
			3		
			4		
			7	NP	22
			5		
			6		
		-20	9	NP	21
SAND-loose to medium dense (A-3)	XX				
SANDY LOAM-gray-loose (A-2)			4		
			3		
			4	NP	33
	XX				
SAND with Gravel-brown-medium dense (A-1-b)			3		
			9		
		-25	9	NP	15
	XX				
			8		
			8		
			8	NP	25
			4		
			10		
		-30	19	NP	25
SAND-brown-medium dense to dense (A-3)			9		
			16		
			17	NP	19
			7		
			9		
		-35	11	NP	22
			4		
			9		
			12	NP	24
			4		
			5		
		-40	6	NP	24

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BORING NO. WB-06
Station: 143+75
Offset: 52.5' Left
Ground Surface Elev. 405.8

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-brown-medium dense to dense (A-3)			5		
			8		
			15	NP	24
	XX				
			7		
			6		
		-45	11	NP	24
			8		
			8		
			15	NP	26
SAND-gray-medium dense to dense (A-3)			8		
			9		
		-50	11	NP	25
			10		
			12		
			13	NP	25
			12		
			18		
		-55	21	NP	24
			9		
			12		
			14	NP	23
			8		
			12		
		-60	19	NP	22
SAND-gray-medium dense to dense (A-3)			10		
			14		
			24	NP	23
			13		
			17		
		-65	22	NP	22
			13		
			13		
			20	NP	22
	XX				
SAND with Gravel-gray-dense (A-1-b)			17		
			18		
		-70	20	NP	8
	XX				
SAND-gray-dense (A-3)			16		
			24		
			28	NP	14
			16		
			25		
		-75	18	NP	23
	XX				
SAND with Gravel-gray-medium dense (A-1-b)			50		
			14		
			10	NP	11
End Of Boring @ -80.0'			6		
Straight Flight Augers To -10.0'					
Rotary Drilling To Completion			7		
10.0' of 4.0"* Casing Used	XX	-80	9	NP	11

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

..\082203B-CONN-05-011-MS.DGN,..\082203B-CONN-05-011-MS.DGN,..\082203B-CONN-05-011-MS.DGN,..\082203B-CONN-99-001-BD.DGN
6/23/2010, 16:59:24 BDMCHLDD \\FS-08\14\MNVHAL_12-1\PNWS_B7\242-2259-001\STRUCT\CAD\01 DESIGN\082W234\SHEET\082W234-CONN-05-025-SHT-MS.DGN

FILE NAME = $FILE$	USER NAME = $USER$	DESIGNED -	REVISED -
		DRAWN - TCG	REVISED -
TENG	PLOT SCALE = $SCALE$	CHECKED -	REVISED -
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = $DATE$	DATE - 06/04/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
I-70 CONNECTION
RETAINING WALL

SOIL BORING LOGS
4 OF 11

SCALE: NTS | SHEET NO. W-7 OF W-14 | STA. 140+57.64 TO STA. 147+35.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB	ST. CLAIR	285	228
	SN 082-W234	CONTRACT NO. 76C44		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		