Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Arnheist Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

PAGE 1 of 1
DATE 3/16/2010
LOGGED BY MD
GSI JOB No. 09177

ROUTE FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10
SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township
COUNTY COOK DRILLING METHOD Hollow Stem Auger/ Rotary HAMMER TYPE CME Automatic

STRUCT. NO. –
Station –
BORING NO. **RW-17**
Station 515+00
Offset 22.5' Left
Ground Surface Elev. 879.1

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" SAND & GRAVEL-brown	878.1				
			4		103
			5		
			6	3.0B	17
			2		104
			3		
CLAY LOAM-dark brown & gray-stiff to very stiff (A-6) Fill		-5	5	1.9B	20
			3		99
			5		
			6	2.2B	23
			5		104
			9		
		-10	12	2.9B	20
	868.6				
TOPSOIL-black-medium stiff			1		90
	867.1		2		
			4	.075B	31
			3		112
			4		
CLAY-brown & gray-very stiff to hard (A-6)		-15	7	2.7B	19
			8		113
			8		
			11	2.8B	18
			6		103
			10		
		XX -20	14	4.8B	20

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
			7		
			10		
			16	1.5P	18
			4		109
			6		
		-25	9	2.3B	19
			3		112
			5		
CLAY-gray-very stiff to hard (A-6)			8	2.7B	19
			3		106
			5		
		-30	8	2.3B	21
			5		107
			7		
		-35	10	3.2B	20
			4		113
			6		
End Of Boring @ -40.0' Hollow Stem Augers To -10.0' Rotary Drilling To Completion 10' Of 4.0" Casing Used CME Automatic Hammer	839.1	-40	7	2.25B	18

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 FAP 339 (Il. Route 62) DESCRIPTION Il. Route 62 Widening (PTB 153-10) IDOT Job No. D-91-022-10
SECTION 116 Y-1-R-1 LOCATION S 1/2, SEC. 23, TWP. 42N, RNG. 9E, 3rd PM, Barrington Township
COUNTY COOK DRILLING METHOD Hollow Stem Auger/ Rotary HAMMER TYPE CME Automatic

STRUCT. NO. –
Station –
BORING NO. **RW-18**
Station 515+65
Offset 18.5' Left
Ground Surface Elev. 878.2

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
12.0" SAND & GRAVEL-brown	877.2				
			3		103
			4		
			6	3.4B	18
			3		99
			4		
CLAY LOAM-dark brown & gray-stiff to very stiff (A-6) Fill		-5	4	1.4B	21
			3		
			5		
			6	2.25P	27
			5		
			4		
		-10	3	3.75P	18
			2		97
			3		
			3	1.1B	25
	865.2				
			2		
			2		
TOPSOIL-black-medium stiff *Total Organic Conent=7.8%*		-15	3	0.75P	69
	861.7		1		
			1		
SILTY CLAY with organics-dark brown & gray-medium stiff (A-7) Wet			1	0.75P	47
	859.2		1		110
CLAY-gray-stiff to very stiff (A-6)		-20	2	1.0B	20

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
			4		112
			5		
			7	1.8B	19
			3		112
			5		
CLAY-gray-stiff to very stiff (A-6)		-25	7	1.9B	19
			4		
			6		
			8	2.0P	18
			4		112
			6		
		-30	10	2.8B	18
			8		110
			7		
		-35	7	2.0B	19
			5		109
			6		
End Of Boring @ -40.0' Hollow Stem Augers To -10.0' Rotary Drilling To Completion 10' Of 4.0" Casing Used CME Automatic Hammer	838.2	-40	8	3.6B	20

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