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

SOIL BORING LOG

PAGE 1 of 2
DATE 12/20/2011
LOGGED BY RT
GSI JOB No. 10196

ROUTE F.A.I. RTE. 57
DESCRIPTION I-57 at Stuenkel Road Interchange, Contract No. 60L69
SECTION 99-1HB-R-1
LOCATION SEC. 05 & 08, TWP. 34 N., RNG. 13 E., 3rd P.M., Monee Township
COUNTY Will
DRILLING METHOD Hollow Stem Auger
HAMMER TYPE CME Automatic

STRUCT. NO. 099-0526
Station: 16030+55.78
BORING NO. **BR-04**
Station: 16029+73
Offset: 84.5' Right
Ground Surface Elev. 758.0

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry To -10.0'
Upon Completion n/a
After ____ Hrs. ____

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
SAND, GRAVEL & STONE-black (Fill)	757.5				
CLAY- dark brown & gray-very stiff (A-6)			AS	-	6
			3		*102*
			3	2.7S●	
			4	14.1%	21
	755.0				
CLAY LOAM- brown & gray-very stiff to hard (A-6)			3		*108*
			4	4.0S●	
		-5	5	12.7%	19
			3		
			5		
			5	3.5P	19
			4		*114*
			6		
		-10	7	5.0B	16
	747.5				
SILTY CLAY-gray-very stiff (A-6)			5		*117*
			7		
			8	2.8B	16
	745.0				
SILTY LOAM-gray-medium dense (A-4)			4		
			7		
		-15	10	NP	18
	742.5				
CLAY LOAM-gray-very stiff (A-6)			7		*112*
			9		
			6	3.4B	17
			3		*111*
			5		
		-20	9	3.1B	16

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
CLAY LOAM-gray-very stiff (A-6)	737.5				
SILTY CLAY LOAM- gray-medium dense (A-4)			5		*103*
			7		
			9	1.0B	20
	735.0				
CLAY LOAM- gray-stiff to hard (A-6)			3		*118*
			6		
		-25	9	2.1B	15
			5		*106*
			8		
			8	1.0B	19
			3		*130*
			6		
		-30	9	2.5B	7
			5		*123*
			8		
		-35	11	3.8B	13
			8		*120*
			16		
		-40	20	11.4B	14

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-57
DESCRIPTION I-57 at Stuenkel Road Interchange, Contract No. 60L69
SECTION 99-1HB-R-1
LOCATION SEC. 05 & 08, TWP. 34 N., RNG. 13 E., 3rd P.M., Monee Township
COUNTY Will
DRILLING METHOD 3.25" Hollow Stem Auger
HAMMER TYPE CME Automatic

STRUCT. NO. 099-0526
Station: 16030+55.78
BORING NO. **BR-04**
Station: 16029+73
Offset: 84.5' Right
Ground Surface Elev. 758.0

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry To -10.0'
Upon Completion n/a
After ____ Hrs. ____

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
CLAY LOAM- gray-stiff to hard (A-6)	716.0				
SANDY LOAM-gray-dense (A-2)			9		
			21		
		-45	30	NP	19
	711.0				
SILTY CLAY LOAM- gray-dense (A-4/A-6)			20		
			26		
		-50	31	4.5+P	13
	706.0				
CLAY LOAM- gray-stiff to hard (A-6)			3		*122*
			4		
		-55	5	1.2B	14
			7		*123*
			9		
		-60	10	4.6B	13

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
CLAY LOAM- gray-stiff to hard (A-6)			3		*129*
			6		
		-65	9	2.6B	11
	691.0				
SANDY LOAM- gray-medium dense (A-2)			5		
			8		
		-70	10	NP	11
	686.0				
SANDY LOAM with Fractured Rock- gray-medium dense (A-2)			7		
			11		
		-75	15	NP	10
	681.0				
SAND-gray-dense (A-3)			15		
			25		
	678.0	-80	33	NP	21

End Of Boring @ -80.0'
Hollow Stem Augers To -10.0'
Rotary Drilling To Completion
10.0' Of 4.0"ø Casing Used
CME Automatic Hammer

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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TY·LIN INTERNATIONAL	USER NAME =	DESIGNED - PK	REVISED -
		CHECKED - SP	REVISED -
	PLOT SCALE =	DRAWN - PK	REVISED -
	PLOT DATE =	CHECKED - SP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 4
STRUCTURE NO. 099-0526
SHEET NO. 33 OF 35 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	99-1HB-R	WILL	63	55
		CONTRACT NO. 60T40		
		ILLINOIS FED. AID PROJECT		

5/4/2012

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