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

SOIL BORING LOG

PAGE 1 of 3
DATE 12/27/2010
LOGGED BY DR
GSI JOB No. 10023

ROUTE FAI 94 @ FAP 341
DESCRIPTION I-94/Stony Island Feeder Interchange Improvements #P-91-184-10
SECTION 1212B-1
LOCATION SEC. 11, 12, 13, & 14, TWP. 37 N., RNG. 14 E., 3rd P.M.
COUNTY Cook
DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. SN 016-2438
Station
BORING NO. **S38-B**
Station: 215+56
Offset: 12.5' Right
Ground Surface Elev. 586.0

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 (%)
9.5" ASPHALT, 9.5" CRUSHED STONE	584.4		30		
			50/4"	NP	24
SANDY TOPSOIL-black			15		
	581.0	-5	11 3	-	41
CLAY-brown & gray- stiff to very stiff (A-6)			2		*108*
			3 4	1.1B	20
			3		*104*
		-10	5 8	2.8B	20
	575.5				
CLAY-gray-stiff to very stiff (A-6)			4		*112*
			6 8	1.5P	19
			3		*112*
		-15	6 9	3.4B	19
			4		*109*
			6 9	2.7B	20
			4		*109*
		-20	4 8	2.6B	19
CLAY-gray-stiff to very stiff (A-6)	565.5		5		*119*
			11 16	5.9B	15
			10		*120*
		-25	12 13	6.6B	14
CLAY LOAM-gray- very stiff to hard (A-6)			9		*121*
			11 13	6.4B	14
			4		*123*
		-30	6 9	4.7B	13
			4		*120*
		-35	8 10	3.9B	14
			4		*122*
		-40	6 7	2.8B	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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After ___ Hrs.

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-gray- very stiff to hard (A-6)		5		*122*
		8 11	4.2B	14
	-45			
		13		
		33 35	-	18
	-50			
		9		*109*
		14 19	5.7B	20
	-55			
		16		*124*
		21 22	8.3S@ 14.1%	11
	-60			
CLAY LOAM-gray- very stiff to hard (A-6)		12		*127*
		13 16	5.6S@ 14.1%	11
	-65			
		22		*131*
		40 48	10.7S@ 14.1%	10
	-70			
		12		*126*
		19 24	5.1B	13
	-75			
		10		*123*
		50/2"	3.1B	14
	-80			

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After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-gray- very stiff to hard (A-6)	505.0				
SILTY SAND & FRACTURED ROCK- gray-very dense (A-2)			25		
		-85	37 50/3"	NP	9
	498.5				
Drillers Observation: Apparent Bedrock	498.0				
RUN 1 (-88.0' to -98.0') Silurian System Niagaran Series Dolomite Light gray to gray & fine grained with horizontal bedding. Recovery=97.0% R.Q.D.=96.5%		-90	RUN 1		
		-95			
	488.0				
		-100			
End Of Boring @ -98.0' Hollow Stem Augers To -10.0' Rotary Drilling To Completion CME Automatic Hammer 10.0' Of 4.0"ø Casing Used		-105			
		-110			
		-115			
		-120			

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