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

SOIL BORING LOG

PAGE 1 of 4
DATE 2/8-9/2012
LOGGED BY DR
GSI JOB No. 09174

ROUTE FAP 353 (US 30) DESCRIPTION US Route 30 @ EJ&E/CN Railroad, IDOT Job No. D-91-046-12
SECTION 11-Y-A LOCATION SEC 20 & 29, T 35 N, R 15 E, 3rd PM
COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. --
Station --
BORING NO. **BS-02**
Station 276+82
Offset 25.4' Right
Ground Surface Elev. 632.4

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 624.4
Upon Completion n/a
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4.0" ASPHALT, 6.0" SAND & GRAVEL	631.6				
Clayey TOPSOIL-black	629.4		2, 3, 4	2.5P	25
SILTY CLAY-brown & gray-stiff (A-6) Wet	626.9	-5	3, 5, 6	1.8B	*83*, 26
SANDY CLAY LOAM-brown & gray-very loose (A-2)	624.4		1, 1, 2	–	21
SILTY LOAM-gray-loose (A-4)	621.9	-10	2, 3, 4	NP	19
LOAM-gray-loose (A-2/A-4)	619.4		3, 5, 5	NP	25
SILTY CLAY LOAM-gray-loose (A-4)	616.9	-15	3, 4, 5	0.3B	*106*, 22
SILTY LOAM-gray-loose (A-4)			3, 3, 4	NP	23
		-20	2, 2, 5	1.75P	29
SILTY LOAM-gray-loose (A-4)	611.9		2, 4, 5	1.0B	*101*, 25
SILTY CLAY LOAM-gray-medium stiff to stiff (A-4/A-6)		-25	2, 5, 4	0.5B	*104*, 23
			3, 4, 5	1.1B	*104*, 23
		-30	3, 3, 3	0.5B	*95*, 29
SILTY LOAM-gray-loose (A-4)	600.4	-35	2, 2, 3	NP	24
SAND-gray-loose to medium dense (A-3)	595.4	-40	3, 4, 6	NP	22

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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Upon Completion n/a
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND-gray-loose to medium dense (A-3)		-45	4, 5, 5	NP	23
		-50	3, 4, 6	NP	20
		-55	5, 6, 9	NP	24
SILTY CLAY-gray-medium stiff (A-6) Wet	575.4	-60	7, 7, 10	0.6B	*99*, 26
SILTY CLAY-gray-medium stiff (A-6) Wet	570.4		10, 16, 21	NP	18
SAND-gray-dense (A-3)	565.4	-65	11, 11, 9	NP	19
SAND & GRAVEL-gray-medium dense (A-1)	560.4	-70	15, 18, 20	NP	21
SILTY LOAM-gray-medium dense to dense (A-4)		-75	5, 9, 11	2.0B	*101*, 25
		-80	11, 17, 21	NP	20

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Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY LOAM-gray-medium dense to dense (A-4)		-85	7, 10, 13	NP	26
		-90	9, 12, 16	NP	22
	540.4				
CLAY-gray-very stiff (A-6)		-95	5, 9, 11	2.0B	*101*, 25
		-100	5, 10, 14	2.4B	*112*, 19
CLAY-gray-very stiff (A-6)	530.4				
SANDY CLAY LOAM with Gravel-gray-very dense (A-2)		-105	8, 32, 40	1.9B	*137*, 9
		-110	32, 50/5",	NP	10
		-115	50/3",	NP	14
Drillers Observation: Apparent Bedrock	516.4				
Silurian System, Niagaran Series Dolomite RUN 1 (-117.0' to -127.0') Gray & fine grained with horizontal bedding becoming light gray mottled gray & slightly porous @ -120.3'.	515.4	-120	RUN 1		

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