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 6/13/2012
LOGGED BY JK
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 Diedrich Automatic

STRUCT. NO. ---
Station ---
BORING NO. **BS-12**
Station 282+10
Offset 45.6' Right
Ground Surface Elev. 633.8

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 625.8 ▼
Upon Completion n/a ▽
After ___ Hrs. ___

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
3.0" CRUSHED STONE	633.4		AS	–	4
TOPSOIL–black	632.3		5		*93*
			5	4.6S@	
			8	9.9%	25
SANDY CLAY LOAM–brown & gray–loose to medium dense (A–2)			3		
			4		
		–5	6	1.25P	17
			2		
			3		
			4	–	21
	625.8				
			5		
			6		
		–10	7	NP	18
LOAM–gray–medium dense (A–4)			3		
			4		
			6	NP	21
			3		
			5		
		–15	8	NP	25
	618.3				
SILTY LOAM–gray–loose to medium dense (A–4)			3		
			6		
			7	NP	20
			4		
			7		
		–20	7	NP	23
SILTY LOAM–gray–loose to medium dense (A–4)					
			5		
			6		
		–25	3	NP	22
			3		
			5		
			5	NP	21
			3		
			5		
		–30	5	NP	22
	601.8				
SAND & GRAVEL–gray–medium dense (A–1)			3		
			5		
		–35	7	NP	19
	596.8				
SAND–gray–medium dense (A–3)			9		
			11		
		–40	10	NP	24

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–medium dense (A–3)					
	591.8				
SAND & GRAVEL–gray–medium dense (A–1)			7		
			7		
		–45	10	NP	15
	586.8				
SAND–gray–dense (A–3)			15		
			17		
		–50	18	NP	24
SAND–gray–dense (A–3)			15		
			16		
		–55	19	NP	23
SAND–gray–dense (A–3)			19		
			21		
		–60	25	NP	21
SAND–gray–dense (A–3)					
			20		
			23		
		–65	24	NP	20
	566.8				
CLAY–gray–very stiff (A–6)			21		*110*
			26		
		–70	32	2.2B	20
	561.8				
SAND–gray–very dense (A–3)			43		
			50/3"		
		–75		NP	20
			41		
			50/4"		
		–80		NP	20

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Upon Completion n/a ▽
After ___ Hrs. ___

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND–gray–very dense (A–3)					
	551.8				
SANDY CLAY LOAM–gray–very dense (A–4/A–6)			18		*123*
			27		
		–85	34	3.7B	13
			20		*118*
			38		
		–90	50/4"	1.8B	16
			35		
			50/4"		
		–95		4.5+P	12
			31		*125*
			50/4"		
		–100		2.1B	13
			50/0"		
		–105			NR
			32		
			50/4"		
		–110		4.5+P	12
	522.8				
Drillers Observation: Apparent Bedrock	522.3				
Silurian System, Niagaran Series Dolomite RUN 1 (–111.0' to –121.0') Gray & fine grained with horizontal bedding becoming light gray mottled gray & slightly porous @ –114.9'. Horizontal fractures @ –111.1', –113.4', –115.8', –116.0', –117.1', –117.7', –118.4', –118.7' & –119.4'. Recovery=100.0% RQD=86.0%		–115			RUN 1
		–120			

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