SOIL BORING SB-02 (2 OF 2)

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aurelius Court, Suite 200
Naperville, Illinois 60540
(630) 305-3618

SOIL BORING LOG

PAGE 2 of 2
DATE 3/31/2010
LOGGED BY RJ
GSI JOB No. 09118

ROUTE FAP 345 (U.S. Route 20)
DESCRIPTION US 20 over McLean Boulevard, Elgin, Illinois Contract No. 60H45
SECTION 8R-R
LOCATION SEC. 22, TWP. 41N, RNG. 8E, 3rd PM, Elgin Township
COUNTY Kane
DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 045-0077
Station: 98+32.18
BORING NO. SB-02
Station: 95+40 US 20
Offset: 50' Right
Ground Surface Elev. 848.6

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 (%)
SAND & GRAVEL–brown–medium dense to very dense (A–1)			23		
			23		
		–45	17	NP	10
			20		
			15		
		–50	19	NP	15
			5		
			10		
		–55	15		NR
	790.6				
SAND & GRAVEL–gray–medium dense (A–1)			3		
			5		
		–60	7	NP	8
SAND & GRAVEL–gray–medium dense (A–1)	786.6				
SILTY LOAM–gray–loose to medium dense (A–4)			3		
			3		
		–65	6	NP	20
			5		
			5		
		–70	7	NP	22
			5		
			7		
	773.6	–75	7	NP	20
End Of Boring @ –75.0' Hollow Stem Augers To –10.0' Rotary Drilling To Completion 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

SOIL BORING SB-03 (1 OF 2)

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DESCRIPTION US 20 over McLean Boulevard, Elgin, Illinois Contract No. 60H45
SECTION 8R-R
LOCATION SEC. 22, TWP. 41N, RNG. 8E, 3rd PM, Elgin Township
COUNTY Kane
DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 045-0077
Station: 98+32.18
BORING NO. SB-03
Station: 96+95 US 20
Offset: 34' Left
Ground Surface Elev. 849.5

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 (%)
15.0" ASPHALT	848.2				
			50/1"		
Clayey SAND & GRAVEL–dark brown–very dense (Fill)				–	12
	846.0				
SANDY CLAY LOAM–dark brown & gray–medium dense (Fill)			4		
			7		
		–5	7	–	11
	844.0				
SILTY CLAY–dark brown–stiff (A–6) Fill, Wet			9		89
			4	1.1S@	
			6	11.3%	26
			4		
			4		
		–10	6	1.75P	26
	839.0				
CLAY to CLAY LOAM–brown & gray–stiff (A–6) Fill			5		107
			8		
			8	1.7B	20
			4		106
			6		
		–15	8	1.8B	21
			4		105
			6		
			10	1.6B	22
			4		110
			4		
		–20	8	1.9B	20
CLAY to CLAY LOAM–stiff (A–6) Fill	829.0				
SILTY CLAY–dark brown & black–stiff (A–6) Wet			4		
			4		
			6	2.0P	28
	826.5				
SILTY CLAY LOAM–brown–stiff (A–4)			4		
			4		
		–25	4	1.5P	21
	824.0				
SANDY LOAM–brown–loose (A–2)			4		
			4		
			4	NP	17
	821.5				
SAND & GRAVEL–brown–dense to very dense (A–1)			12		
			19		
		–30	22	NP	12
			13		
			11		
		–35	22	NP	11
			21		
			24		
		–40	24	NP	16

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B–Bulge, S–Shear, P–Penetrometer) ST–Shelby Tube Sample VS=Vane Shear Test
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Station: 98+32.18
BORING NO. SB-03
Station: 96+95 US 20
Offset: 34' Left
Ground Surface Elev. 849.5

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 (%)
SAND & GRAVEL–brown–dense to very dense (A–1)			30		
			50/1"		
		–45		NP	17
	802.0				
SILTY LOAM to LOAM–brown–dense (A–4)			15		
			25		
		–50	25	NP	18
	798.5				
SANDY LOAM with Gravel–gray–dense (A–2)			15		
			15		
		–55	15	NP	15
	792.5				
SAND & GRAVEL–gray–medium dense to dense (A–1)			24		
			18		
		–60	10	NP	9
SAND & GRAVEL–gray–medium dense to dense (A–1)			18		
			22		
		–65	14	NP	8
			26		
			20		
		–70	18	NP	8
	774.5	–75	22	NP	17
End Of Boring @ –75.0' Hollow Stem Augers To –10.0' Rotary Drilling To Completion 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
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