SOIL BORING S-01

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ambner Court, Suite 200
Naperville, Illinois 60563
(630) 305-2585

SOIL BORING LOG

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DATE 1/12/2011
LOGGED BY MR
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
HAMMER TYPE CME Automatic

STRUCT. NO. 1C0450020R015.1
Station:
BORING NO. S-01
Station: 83+49.0 US 20
Offset: 49.0' Right
Ground Surface Elev. 823.7

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 803.7
Upon Completion 808.7
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
7.0" ASPHALT, 8.0" SAND & GRAVEL	822.4				
			7		
SANDY CLAY LOAM-brown-medium dense (Fill)	820.7		8 / 4	–	12
			2		
SILTY CLAY-brown-stiff (A-6) Wet	818.2	–5	4 / 6	1.75P	27
			8		
			8 / 8	NP	4
			15		
			19 / 20	NP	4
SAND & GRAVEL-brown-medium dense to dense (A-1)		–10			
			15		
			16 / 20	NP	5
			12		
			12 / 12	NP	4
		–15			
			10		
			17 / 17	NP	4
			10		
			17 / 14	NP	4
		–20			
SAND & GRAVEL-brown-medium dense to dense (A-1)					
SAND-brown-medium dense (A-3)	795.7				
	793.7	–30			
End Of Boring @ –30.0' Hollow Stem Augers CME Automatic Hammer		–40			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	6		
	9 / NP		8
–25	10 / NP		11
	7		
	9 / NP		10
	7		
	8 / 11	NP	15
–35			

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 S-02

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SECTION 8R-R
LOCATION SEC. 22, TWP. 41N, RNG. 8E, 3rd PM, Elgin Township
COUNTY Kane
DRILLING METHOD Hollow Stem Auger
HAMMER TYPE CME Automatic

STRUCT. NO. 1C0450020L015.7
Station:
BORING NO. S-02
Station: 113+12.0 US 20
Offset: 31.0' Left
Ground Surface Elev. 825.6

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 803.6
Upon Completion 803.6
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" ASPHALT, 7.0" SAND & GRAVEL	824.3				
			5		95
SILTY CLAY-brown-stiff (A-6)	822.6		5 / 5	1.3S@ / 12.7S	23
			9		
		–5	18	NP	4
			17		
			22 / 23	NP	3
SAND & GRAVEL-brown-dense to very dense (A-1)					
			12		
			17 / 24	NP	4
		–10			
			25		
			23 / 18	NP	3
			27		
			50/2"		
		–15		NP	2
	809.6				
			21		118
CLAY LOAM-brown & gray-very stiff to hard (A-6)			24 / 11	3.5B	14
			4		
	806.1		8 / 10	4.5P	15
SAND & GRAVEL-medium dense (A-1)		–20			
SAND & GRAVEL-brown-medium dense (A-1)					
End Of Boring @ –30.0' Hollow Stem Augers CME Automatic Hammer		–40			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	9		
	11 / 11	NP	8
	4		
	12 / 12	NP	9
	6		
	11 / 15	NP	11
	19		
	10 / 9	NP	8
–35			

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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NR-No Recovery

SOIL BORING S-03

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SECTION 8R-R
LOCATION SEC. 22, TWP. 41N, RNG. 8E, 3rd PM, Elgin Township
COUNTY Kane
DRILLING METHOD Hollow Stem Auger
HAMMER TYPE CME Automatic

STRUCT. NO. 1C0450020L015.8
Station:
BORING NO. S-03
Station: 122+21.0 US 20
Offset: 32.0' Left
Ground Surface Elev. 822.2

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 797.2
Upon Completion 800.2
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" ASPHALT, 6.0" SAND & GRAVEL	821.2				
			8		118
SILTY CLAY-brown & gray-stiff to hard (A-6)			6 / 9	4.6B	13
			3		98
			6 / 8	2.8B	25
		–5			
			3		
			3 / 3	1.75P	25
	814.2				
			3		
			3 / 5	NP	8
SAND & GRAVEL-brown-loose to medium dense (A-1)		–10			
			5		
			7 / 5	NP	7
	809.2				
			2		
SAND-brown-loose (A-3)			3 / 5	NP	7
		–15			
	806.7				
			6		118
CLAY LOAM-gray-hard (A-6)			7 / 8	4.0B	14
			15		121
			12 / 10	4.4B	12
		–20			
CLAY LOAM-gray-hard (A-6)					
SAND & GRAVEL-brown-medium dense (A-1)					
End Of Boring @ –30.0' Hollow Stem Augers CME Automatic Hammer		–40			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	5		123
	8 / 10	4.6B	12
	7		125
	12 / 42	5.6B	11
	7		
	9 / 17	NP	6
	5		
	8 / 21	NP	8
–35			

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NR-No Recovery