SOIL BORING WB11-07

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aurora Court, Suite 200
Naperville, Illinois 60563
(630) 305-3838

SOIL BORING LOG

PAGE 1 of 1
DATE 4/22/2010
LOGGED BY RJ
GSI JOB No. 09118

ROUTE FAP 345 (U.S. Route 20)
DESCRIPTION US 20 over McLean Boulevard, Elgin, Il. IDOT Job No. D-91-632-09
SECTION 8R-R
LOCATION SEC. 22, TWP. 41N, RNG. 8E, 3rd PM, Elgin Township
COUNTY Kane
DRILLING METHOD 3.25" Hollow Stem Auger
Hammer TYPE Diedrich Automatic

STRUCT. NO. 045-W011
Station –
BORING NO. WB11-07
Station: 10+68 Ramp B
Offset: 14' Right
Ground Surface Elev. 825.3

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

Description	Elev. (ft)	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
12.0" TOPSOIL	824.3		AS	–	19
SILTY CLAY–brown–stiff to very stiff (A–6) Wet			2, 4, 4	2.75P	27
			2, 2		
		–5	2	1.0P	29
	819.8				
SAND & GRAVEL–brown–very dense (A–1)			15, 20, 25	NP	3
			30, 50/3"		
		–10		NP	4
			30, 45, 50/1"	NP	4
			16, 32, 50/1"	NP	3
		–15			
			30, 40, 50/1"	NP	2
End Of Boring @ –20.0' Hollow Stem Augers Diedrich Automatic Hammer	805.3	–20	42, 50/3"	NP	2
		–25			
		–30			
		–35			
		–40			

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 WB11-08

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GSI JOB No. 09118

ROUTE FAP 345 (U.S. Route 20)
DESCRIPTION US 20 over McLean Boulevard, Elgin, Il. IDOT Job No. D-91-632-09
SECTION 8R-R
LOCATION SEC. 22, TWP. 41N, RNG. 8E, 3rd PM, Elgin Township
COUNTY Kane
DRILLING METHOD 3.25" Hollow Stem Auger
Hammer TYPE Diedrich Automatic

STRUCT. NO. 045-W011
Station –
BORING NO. WB11-08
Station: 11+38 Ramp B
Offset: 9' Right
Ground Surface Elev. 827.1

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

Description	Elev. (ft)	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
7.0" TOPSOIL	826.4		AS	–	21
SILTY CLAY–brown–very stiff (A–6)			2, 4, 8	2.0P	21
	824.1				
			8, 19		
		–5	12	NP	5
			10, 12, 12	NP	4
SAND & GRAVEL–brown–medium dense to very dense (A–1)			11, 22, 28	NP	6
		–10			
			13, 25, 34	NP	5
			50/6"		
		–15			NR
			32, 38, 44	NP	3
End Of Boring @ –20.0' Hollow Stem Augers Diedrich Automatic Hammer	807.1	–20	22, 30, 32	NP	3
		–25			
		–30			
		–35			
		–40			

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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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SECTION 8R-R
LOCATION SEC. 22, TWP. 41N, RNG. 8E, 3rd PM, Elgin Township
COUNTY Kane
DRILLING METHOD 3.25" Hollow Stem Auger
Hammer TYPE Diedrich Automatic

STRUCT. NO. 045-W011
Station –
BORING NO. WB11-09
Station: 12+07 Ramp B
Offset: 14' Right
Ground Surface Elev. 827.5

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

Description	Elev. (ft)	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL–dark brown to black	826.5		AS	–	22
SILTY CLAY–brown–very stiff (A–6)			2, 4, 8	2.25P	24
	824.5				
			6, 8, 10	NP	8
		–5			
			8, 9, 11	NP	7
SAND & GRAVEL–brown–medium dense to very dense (A–1)			33, 30, 30	NP	2
		–10			
			36, 39, 42	NP	3
			44, 31, 27	NP	7
		–15			
			183, 26, 32	NP	7
End Of Boring @ –20.0' Hollow Stem Augers Diedrich Automatic Hammer	807.5	–20	36, 42, 42	NP	3
		–25			
		–30			
		–35			
		–40			

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