SOIL BORING WB11-01

Geo Services Inc.
Geotechnical, Environmental & Civil Engineering
805 Amberley Court, Suite 100
Naperville, Illinois 60563
(630) 355-3515

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 Hollow Stem Auger/Rotary Hammer TYPE Diedrich Automatic

STRUCT. NO. 045-W011
Station –
BORING NO. WB11-01
Station: 6+13 Ramp B
Offset: 39' Right
Ground Surface Elev. 823.0

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 (%)
18.0" TOPSOIL-black	821.5		AS	–	18
SILTY CLAY-brown- medium stiff to very stiff (A-6) Wet			2		
			4		
			6	NP	24
			6		*91*
			8		
		–5	10	2.8B	28
			1		*86*
			2		
			3	0.5B	34
SILTY CLAY LOAM-gray-loose (A-4)	815.0		1		
			1		
		–10	1	0.25P	29
SANDY LOAM-brown- medium dense (A-2)	812.5		3		
			6		
			6	NP	16
SAND & GRAVEL-brown- medium dense to very dense (A-1)	810.0		9		
			16		
		–15	16	NP	11
			8		
			14		
			14	NP	16
			12		
		–20	12	NP	13

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND & GRAVEL-brown- medium dense to very dense (A-1)			14		
			14		
			16	NP	11
			12		
			12		
		–25	18	NP	12
			12		
			12		
			14	NP	16
			13		
			506"		
		–30		NP	11
			9		
			11		
		–35			NR
End Of Boring @ –40.0' Hollow Stem Augers To –10.0' Rotary Drilling To Completion Diedrich Automatic Hammer	783.0	–40	32		
			503"		
				NP	9

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 WB11-02

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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/Rotary Hammer TYPE Diedrich Automatic

STRUCT. NO. 045-W011
Station –
BORING NO. WB11-02
Station: 6+83 Ramp B
Offset: 28' Right
Ground Surface Elev. 822.0

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 (%)
18.0" TOPSOIL-black	820.5		AS	–	31
SILTY CLAY-brown- stiff to very stiff (A-6) Wet			2		
			4		
			6	2.25P	26
			3		*90*
			4		
		–5	5	1.1B	29
Clayey SAND & GRAVEL-brown- medium dense (A-2)	816.5		10		
			10		
			12	NP	15
SAND & GRAVEL-brown- dense to very dense (A-1)	814.0		11		
			17		
		–10	12	NP	26
			9		
			11		
			11	NP	14
			9		
			12		
		–15	9	NP	7
			3		
			6		
			6	NP	16
			14		
		–20	7	NP	18

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND & GRAVEL-brown- dense to very dense (A-1)			12		
			14		
			16	NP	17
			13		
			13		
		–25	13	NP	15
			16		
			30		
			15	NP	16
			12		
			14		
		–30	16	NP	10
SAND-brown-dense (A-3)	790.0		13		
			13		
		–35	16	NP	23
SAND & GRAVEL-brown-dense (A-1)	785.0				
End Of Boring @ –40.0' Hollow Stem Augers To –10.0' Rotary Drilling To Completion Diedrich Automatic Hammer	782.0	–40	19		
			19		
			28	NP	7

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 WB11-03

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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/Rotary Hammer TYPE Diedrich Automatic

STRUCT. NO. 045-W011
Station –
BORING NO. WB11-03
Station: 7+73 Ramp B
Offset: 20' Right
Ground Surface Elev. 820.8

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 (%)
			AS	–	23
			4		
			6		
TOPSOIL-black			8	–	32
			3		
	816.3		7		
		–5	9	–	34
			2		*94*
SILTY CLAY-brown- medium stiff to very stiff (A-6) Wet			4		
			4	1.6B	28
			1		*100*
			2		
		–10	2	0.8B	26
	810.3		2		
			3		
Clayey SAND & GRAVEL-brown- medium dense (A-2)			7	–	18
			6		
			12		
		–15	16	NP	31
	805.3		10		
			14		
SAND & GRAVEL-brown- dense to very dense (A-1)			19	NP	11
			16		
			24		
		–20	36	NP	15

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SAND & GRAVEL-brown- dense to very dense (A-1)			30		
			32		
			34	NP	7
			36		
			42		
		–25	44	NP	12
			10		
			27		
			32	NP	15
	792.8		12		
			14		
Clayey SAND & GRAVEL-brown- dense (A-2)		–30	16	NP	17
	788.8		13		
			11		
SILTY LOAM-brown-medium dense (A-4)		–35	18	NP	18
	783.8				
SAND-brown-very dense (A-3)			22		
End Of Boring @ –40.0' Hollow Stem Augers To –10.0' Rotary Drilling To Completion Diedrich Automatic Hammer	780.8	–40	27		
			34	NP	18

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
US 20 OVER MCLEAN BOULEVARD

SOIL BORING LOGS
1 OF 4

SCALE: SHEET NO. RW11-15 OF RW11-18 STA. 5+99.65 TO STA. 14+20.74

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
345	8R-HB-2-BY-1	KANE	434	295
	SN 045-W011	CONTRACT NO. 60K90		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		