Geo Services Inc.
Geotechnical, Environmental & Civil Engineering
805 Arbor Lake Drive Suite 204
Naperville, Illinois 60565
(630) 904-2609

SOIL BORING LOG

PAGE 1 of 2
DATE 12/28/2011
LOGGED BY RJ
GSI JOB No. 09173

ROUTE IL Route 59 (FAP 338) DESCRIPTION Illinois Route 59–Aurora Avenue/New York Street To Ferry Road
SECTION (112 & 113) WRS–5 LOCATION SEC. 3, 9–10, 15–16, 21–22 TWP. 38N, RNG. 9E, Naperville Township
COUNTY DuPage DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. No. 022–2030 NB
Station: 4058+30.47 IL Rte. 59
BORING NO. **BS–04**
Station: 4059+26 IL Rte. 59
Offset: 113.6' Left
Ground Surface Elev. 705.8

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry to –10.0'
Upon Completion n/a
After ____ Hrs. ____

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	Description
				6.0" TOPSOIL–black
705.3				
	AS	–	33	
	6			
	6			
	7	1.75P	22	CLAY LOAM–dark brown to black–stiff (A–6) Fill
	6			
	5			
–5	7	1.5P	28	
700.3				
	3		98	
	5			
	7	2.3B	22	CLAY–brown & gray–very stiff to hard (A–6)
	5		106	
	9			
–10	14	6.2B	19	
695.3				
	4		107	
	5			CLAY–gray–very stiff (A–6)
	8	2.8B	21	
692.8				
	8			CLAYEY SAND & GRAVEL–gray medium dense (A–2)
	9			
–15	11	–	12	
690.3				
	3			
	7			
	11	1.0P	10	CLAY LOAM with Gravel–gray–stiff (A–6)
	5			
	5			
–20	8	1.75P	11	

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	Description
	4		121	CLAY LOAM with Gravel–gray–stiff (A–6)
	4			
	7	1.4B	12	
682.8				
	3			CLAY LOAM–gray–stiff (A–6)
	4			
–25	6	–	15	
	3		122	
	10			
	8	1.4B	14	
	4			
	5			
–30	6	1.4B	18	
	5			
	8			
	9			
–35	9	1.4B	13	
668.8				
	4		102	CLAY–gray–stiff to very stiff (A–6)
	5			
–40	6	2.3B	22	

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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Offset: 113.6' Left
Ground Surface Elev. 705.8

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry to –10.0'
Upon Completion n/a
After ____ Hrs. ____

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	Description
				CLAY–gray–stiff to very stiff (A–6)
	5		88	
	9			
–45	17	1.6B	25	
668.8				
	51			SANDY LOAM–gray–medium dense to very dense (A–2)
	22			
–50	95/2"	NP	9	
	13			
	8			
–55	12	NP	11	
648.8				
	10			CLAY LOAM–gray–hard (A–6)
	11			
–60	11	5.6B	13	

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	Description
				CLAY LOAM–gray–hard (A–6)
643.8				
	14			SANDY CLAY LOAM with Gravel–gray–dense to very dense (A–2)
	15			
–65	20	–	13	
	37			
	41			
–70	52	NP	9	
633.8				
	100/1"			FRACTURED ROCK–gray–very dense (A–1)
631.8				
–75		NP	25	
				Drillers Observation: Possible Bedrock
628.8				
				End Of Boring @ –77.0'
				Hollow Stem Augers to –10.0'
				Rotary Drilling To Completion
				CME Automatic Hammer
				10.0' Of 4.0"ø Casing Used
–80				

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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KNIGHT Engineers & Architects		DESIGNED - GSI	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS S.N. 022–2029 (SB) TOLLWAY B.N. 826 S.N. 022–2030 (NB) TOLLWAY B.N. 825 SHEET NO. SA–59 OF 63 SHEETS
		CHECKED - WPM	REVISED		
SCALE - NONE		DRAWN - TB	REVISED		
DATE - 10/15/2012		CHECKED - WPM	REVISED		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	(112 & 113) WRS–5	DUPAGE	963	643
		CONTRACT NO. 60I31		
	ILLINOIS FED. AID PROJECT			