Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

PAGE 1 of 3
DATE 11/11-12/2010
LOGGED BY DR
GSI JOB No. 09172

ROUTE FAP 349 (US 30) DESCRIPTION US 30 from west of IL 31 to east of Burlington Northern Railroad
SECTION (10 & 11 VB) R-3 LOCATION Section 32, T. 38 N., R. 8 E., Aurora Township, 3rd P.M.
COUNTY Kane DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic
STRUCT. NO. SN 045-0039
Station 12171+21.00
BORING NO. **SB-22**
Station: 1274+15
Offset: 21.0' Left
Ground Surface Elev. 668.2

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 627.2
Upon Completion n/a
After ____ Hrs. ____

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
667.0				14.0" CONCRETE
	20			
	50/3"			CRUSHED ASPHALT & STONE-
665.7		NP	3	very dense (Fill)
	28			
	22			SILTY CLAY LOAM-brown & gray-
-5	19	-	6	dense (Fill)
662.2				
	2		*103*	
	4	1.9S@		
	6	12.7%	20	
	3			CLAY LOAM-dark gray-
	4			stiff to very stiff (A-6) Fill
-10	5	-	23	
	3			
	6			
	7	2.75P	24	
	3			
	4			
-15	6	-	14	
	3		*110*	
	5	1.8S@		
	10	12.7%	15	
	2		*104*	
	6	2.8S@		
-20	11	14.1%	20	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	5			
	8			CLAY LOAM-dark gray-
	10	2.75P	15	stiff to very stiff (A-6) Fill
644.2				
	5		*96*	
	6			
-25	9	2.5B	24	SILTY CLAY-brown-very stiff (A-6)
642.7				
	6			
	5			
	6	NP	8	
	9			SAND & GRAVEL-brown-
	10			medium dense (A-1)
-30	11	NP	4	
636.2				
	4			
	9			
-35	8	NP	7	SAND-brown-medium dense (A-3)
631.2				
	11			
	30			SAND & GRAVEL-brown-dense (A-1)
-40	19	NP	5	

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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Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 627.2
Upon Completion n/a
After ____ Hrs. ____

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				SAND & GRAVEL-brown-dense (A-1)
625.2				
	6			
	8			Silty SAND & GRAVEL-brown-
-45	11	NP	15	medium dense (A-2)
621.2				
	7			
	30			
-50	13	NP	11	SAND & GRAVEL-gray-
	21			dense to very dense (A-1)
	23			
-55	15	NP	10	
	46			
	50/5"			
-60		NP	8	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	67			SAND & GRAVEL-gray-
	37			dense to very dense (A-1)
-65	29	NP	10	
600.2				
	50/2"			FRACTURED ROCK-gray-
598.2 -70		NP	12	very dense (A-1)
				Drillers Observation: Apparent Bedrock
596.2				
-75				RUN 1 (-72.0' to -82.0') Silurian System, Niagaran Series Dolomite Light greenish gray becoming brownish gray @ -77.7'. Soft & argillaceous with numerous weathered horizontal fractures & clay partings throughout. 5.0" clay seam @ -72.75'. 1.5" clay parting @ -74.0' 2.0" clay parting @ -80.5' & -81.8'. Recovery=100.0% R.Q.D.=36.7%
-80				RUN 1

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

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GRÄEF
8501 W. Higgins Road; Suite 280
Chicago, Illinois 60631; (773) 399-0112

USER NAME =	DESIGNED - J.J.G. 6/15/2012	REVISED -	
	CHECKED - J.A.Z. 6/15/2012	REVISED -	
PLOT SCALE =	DRAWN - D.L.G. 6/15/2012	REVISED -	
PLOT DATE =	CHECKED - E.E.J. 6/15/2012	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG, SB-22
STRUCTURE NO. 045-0039
SHEET NO. S115 OF 116 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	(10 & 11VB) R-3	KANE	507	336
		CONTRACT NO. 60133		
	ILLINOIS FED. AID PROJECT			