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

SOIL BORING LOG

PAGE 1 of 2
DATE 10/12/2010
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-05**
Station: 1269+60
Offset: 36.5' Right
Ground Surface Elev. 641.3

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 628.8 ▼
Upon Completion n/a ▽
After ____ Hrs. ____

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
4.0" ASPHALT	640.9				
CLAY LOAM-brown-medium dense (A-4)	639.3		3, 4, 11	0.75P	15
SAND & GRAVEL-brown-dense (A-1) Fill	635.3	-5	5, 8, 31	-	10
TOPSOIL-black	633.3		7, 3, 4	0.5P	30
SAND & GRAVEL-brown-loose to medium dense (A-1)	▼628.8	-10	2, 3, 6, 23, 17, 9	NP	8, 4
SANDY CLAY LOAM-gray-loose to dense (A-2)	623.3	-15	12, 18, 12, 3, 3, 3	NP	9, 10
SANDY LOAM with Fractured Rock-gray-medium dense to very dense (A-2)		-20	5, 8, 11	-	12
SANDY LOAM with Fractured Rock-gray-medium dense to very dense (A-2)	613.3	-25	28, 25, 33, 25, 38, 53	NP	8, 7
FRACTURED ROCK-gray very dense (A-1)		-30	27, 33, 50/2", 38, 37, 32	NP	8, 11
Clayey SAND & FRACTURED ROCK-gray-medium dense (A-2)	604.3	-35	38, 50/4"	NP	13
		-40	13, 13, 13	NP	11

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

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

SOIL BORING LOG

PAGE 2 of 2
DATE 10/12/2010
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-05**
Station: 1269+60
Offset: 36.5' Right
Ground Surface Elev. 641.3

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 628.8 ▼
Upon Completion n/a ▽
After ____ Hrs. ____

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Clayey SAND & FRACTURED ROCK-gray-medium dense (A-2)	598.3				
Drillers Observation: Apparent Bedrock	597.3		50/0"		NR
RUN 1 (-44.0' to -54.0') Silurian System, Niagaran Series Dolomite Light gray mottled gray with horizontal to wavy bedding. Soft & argillaceous with some varving. Numerous weathered horizontal fractures with some clay partings. 1.0" clay parting @ -44.3' & 1.5" clay parting @ -51.9'. Recovery=100.0% R.Q.D.=62.5%	587.3	-45, -50	RUN 1		
End Of Boring @ -54.0' Hollow Stem Augers To -20.0' Rotary Drilling To Completion CME Automatic Hammer 20' of 5"ø Casing Used 45' of 3"ø Casing Used		-55, -60, -65, -70, -75, -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
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

h:\jobs2010\2010303\cad\structural\dgn\045-0039_final\00\D160133-s093-boring-sb5.dgn
6/14/2012 6:11:10 PM

GRAEF
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-5
STRUCTURE NO. 045-0039
SHEET NO. S93 OF 116 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
349	(10 & 11VB) R-3	KANE	507	314

CONTRACT NO. 60133
ILLINOIS FED. AID PROJECT