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 5/19/2010
LOGGED BY DR
GSI JOB No. 10024

ROUTE FAP 0307
DESCRIPTION IL 64 Bridge Over Des Plaines River, IDOT Job No. D-91-183-10IL-64
SECTION 541-Y-3
LOCATION Riverside Township SEC. 1, TWP. 39 N, RNG. 12 E, 3rd P.M.
COUNTY Cook
DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 016-0501
Station 120+43.0
BORING NO. **B-04**
Station: 98+60
Offset: 42.7' Right
Ground Surface Elev. 624.8

Surface Water Elev. 614.3
Stream Bed Elev. 606.8
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After ___ Hrs.

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
SILTY CLAY LOAM to SILTY LOAM- gray-medium dense to dense (A-4)	582.8				
CLAY LOAM-gray-very stiff (A-6)			15		*124*
		-45	15 24	3.0B	13
			14		*123*
		-50	27 20	2.4B	13
			21		*129*
		-55	21 23	3.5B	11
	567.8				
CLAY LOAM with Fractured Rock- gray-very dense (A-2)	565.8		50/5"		
Drillers Observation: Possible Bedrock		-60	-		11

Drillers Observation: Possible Bedrock 563.3

End Of Boring @ -61.5'
Hollow Stem Augers To -25.0'
Rotary Drilling To Completion
25.0' 4.0"ø Casing Used
CME Automatic Hammer

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Peretrometer) 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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ROUTE FAP 0307
DESCRIPTION IL 64 Bridge Over Des Plaines River, IDOT Job No. D-91-183-10IL-64
SECTION 541-Y-3
LOCATION Riverside Township SEC. 1, TWP. 39 N, RNG. 12 E, 3rd P.M.
COUNTY Cook
DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 016-0501
Station 120+43.0
BORING NO. **B-05**
Station: 99+13
Offset: 43.1 Right
Ground Surface Elev. 624.8

Surface Water Elev. 613.8
Stream Bed Elev. 606.8
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After ___ Hrs.

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
12.0" Bridge Deck	623.8				
Air		-5			
		-10			
	613.8				
Water		-15			
	606.8				
CRUSHED STONE- loose to medium dense (Fill)		-20	7 19 14	NP	14
CRUSHED STONE- loose to medium dense (Fill)		-25	2 2 2 3		NR
			11 10 8 4	NP	10
	598.8				
SILTY CLAY-gray-hard (A-6)			5 8 10 11	4.5P	20
	596.8				
SILTY LOAM-gray- medium dense to dense (A-4)		-30	4 7 12	NP	22
		-35	5 10 14	NP	19
		-40	31 33	NP	15

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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LOCATION Riverside Township SEC. 1, TWP. 39 N, RNG. 12 E, 3rd P.M.
COUNTY Cook
DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 016-0501
Station 120+43.0
BORING NO. **B-05**
Station: 99+13
Offset: 43.1 Right
Ground Surface Elev. 624.8

Surface Water Elev. 613.8
Stream Bed Elev. 606.8
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After ___ Hrs.

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
SILTY LOAM-gray- medium dense to dense (A-4)	582.8				
CLAY LOAM-gray-hard (A-6)			11 18		
		-45	21	4.5+P	13
	577.8				
SILTY CLAY LOAM-gray- dense to very dense (A-4)			21 40		
		-50	42	-	11
			16 21		
		-55	23	-	11
	566.3				
Drillers Observation: Possible bedrock.	565.8				
Silurian System, Niagaran Series Dolomite RUN 1 (-59.0' to -69.0')		-60	RUN 1		

Light gray to gray with horizontal to wavy bedding. Porous & weathered with numerous horizontal fractures throughout & some thin clay partings.

Recovery=98.5.%
R.Q.D.=73.0%

RUN 1

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
	555.8				
		-65			
		-70			
		-75			
		-80			

End Of Boring @ -69.0'
Hollow Stem Augers To -25.0'
Rotary Drilling To Completion
25.0' 4.0"ø Casing Used
60.0' 3.0"ø Casing Used
CME Automatic Hammer

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

FILE NAME = W:\191-130_IDOT_IL64\CADD_Sheets\structural\D160J11-sht-48_SoilBoringLogs IV.dgn

Bollinger, Lach & Associates, Inc.
ITASCA, ILLINOIS

USER NAME =	DESIGNED - JMT	REVISED
	CHECKED - JJI	REVISED
PLOT SCALE =	DRAWN - GM	REVISED
PLOT DATE = 8/15/2013	CHECKED - JJI	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS IV
STRUCTURE NO. 016-3035
SHEET NO. 59 OF 62 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	541Y-3-B	COOK	143	120
		CONTRACT NO. 60J11		
		ILLINOIS FED. AID PROJECT		