STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 202
Naperville, Illinois 60563
(630) 305-3530

SOIL BORING LOG

PAGE 1 of 2
DATE 10/21/2008
LOGGED BY DR
JOB NUMBER P-91-186-08
GSI JOB No. 08015

ROUTE I-294 & I-57
DESCRIPTION I-57 & I-294 Interchange Improvements (PTB 146, Item 1)
SECTION –
LOCATION I-57/I-294 Ramp C Fly-Over Bridge
COUNTY Cook
DRILLING METHOD Straight Flight Auger/Rotary
HAMMER TYPE CME Automatic

STRUCT. NO. XXX
Station –
BORING NO. RMP C B-21
Station: 1260+91 (I-57)
Offset: 5.0' Right
Ground Surface Elev. 634.7

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 (%)
13.0" ASPHALT	633.6				
			3		107
			4		
			5	3.0P	15
			2		104
CLAY-brown & gray-very stiff to hard (A-6) Fill			3		
		–5	8	2.5P	19
			4		105
			4	2.6S@	
			8	14.1%	20
			4		
			6		
		–10	8	4.5+P	20
			4		
			7		
			10	1.5P	27
			4		109
			8		
		–15	10	4.1B	19
			3		107
			5		
			7	3.4B	21
			5		112
			5		
		–20	8	4.3B	19
CLAY-brown & gray-very stiff to hard (A-6) Fill					
			6		
			8		
			9	3.2B	21
			4		104
			5	3.0S@	
		–25	8	14.1%	21
			4		109
			5		
			8	6.0B	19
			5		105
			6		
		–30	7	3.3B	20
	602.7				
SILTY LOAM-gray-medium dense (A-4)					
			4		
			5		
		–35	10	NP	25
	597.7				
CLAY LOAM-gray-hard (A-6)					
			38		
			35		
		–40	39	4.5+P	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

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Upon Completion n/a
After ___ Hrs. ___

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-gray-hard (A-6)	592.7				
			32		
			50/3"		
		–45		NP	11
SILTY LOAM with Fractured Rock-gray-very dense (A-4)					
			50/6"		
		–50		NP	11
			50/3"		
		–55		NP	11
	576.7				
Drillers Observation: Apparent Bedrock	576.2				
RUN 1 (–58.5' to –68.5') Silurian System Niagaran Series Dolomite			RUN 1		
		–60			

RUN 1 (–58.5' to –68.5')
Silurian System Niagaran Series Dolomite

Light gray mottled gray with horizontal bedding. Fine grained with some varving. Horizontal fractures @ –60.0, –60.3, –62.25, –62.6', –62.7, –63.4', –63.6 & –64.0'. Vertical with intersecting horizontal fractures from –64.0' to –64.7'. Horizontal fractures @ –65.0', –65.7' & –66.2'. Vertical fracture with intersecting horizontal fractures from –66.6' to –67.4'. Horizontal fracture @ –67.8'.

Recovery = 96.0%
R.Q.D. = 68.75%

RUN 1

566.2

End Of Boring @ –68.5'
Straight Flight Augers To –10.0'
Rotary Drilling To Completion
CME Automatic Hammer
10.0' of 4.0"* Casing Used
58.5' of 3.0"* Casing Used

–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
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NR-No Recovery

BORING LOGS 5
S.N. 016-1252

TY·LIN INTERNATIONAL

DESIGNED	-	DY
CHECKED	-	AD,LS
DRAWN	-	DY,EI
CHECKED	-	LS,SP,PDF
DATE	-	03/18/10

REVISIONS	
NAME	DATE

SHEET NO. 61
62 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1414.2B	COOK	516	374
		CONTRACT NO. 60J27		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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