STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 200
Naperville, Illinois 60563
(630) 305-3848

PAGE 1 of 2
DATE 9-24-10-22-2008
LOGGED BY MD

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-19
Station: 1262+00 (I-57)
Offset: 60.5' Left
Ground Surface Elev. 634.3

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

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
11.0" ASPHALT, 3.0" CRUSHED STONE 633.1		28		
CRUSHED ASPHALT & STONE– medium dense (Fill) 631.3		8 / 4	NP	1
		3		107
CLAY–brown & gray– very stiff to hard (A–6) Fill	–5	4 / 6	5.2B	18
		3		109
		5 / 7	5.5B	19
		3		107
	–10	5 / 6	3.2B	19
		5		108
		6 / 6	3.0B	20
		4		
	–15	6 / 7	3.5P	20
		4		111
		5 / 7	3.9B	19
		4		110
	–20	6 / 8	5.0B	20
CLAY–brown & gray– very stiff to hard (A–6) Fill	–25	7 / 10	4.7B	21
		5		107
	–25	7 / 9	4.9B	19
		5		103
		7 / 9	2.8B	23
		5		104
	–30	5 / 6	3.1B	21
601.3				
SILTY LOAM with Fractured Rock– gray–very dense (A–4)		5		
	–35	6 / 18	NP	10
		37		
	–40	50/4"	NP	12

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	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY LOAM with Fractured Rock– gray–very dense (A–4) 573.9				
Drillers Observation: Apparent Bedrock 573.8				
RUN 1 (–61.5' to –71.5') Silurian System Niagaran Series Dolomite				
SILTY LOAM with Fractured Rock– gray–very dense (A–4)		28		
		50/4"		
	–45		NP	10
Light gray mottled gray with horizontal bedding. Fine grained with some varving. Horizontal fractures @ –62.0', –62.1', –64.2', –65.3', –65.4', –65.7', –66.2', –66.5', –67.0', –67.3', –67.5' & –68.2'. Vertical fracture with intersecting horizontal fractures from –69.7' to –71.0'.	–65			
Recovery=97.0% R.Q.D.=65.0%		50/2"		
	–50		NR	
	–70			
562.8				
End Of Boring @ –71.5' Straight Flight Augers To –10.0' Rotary Drilling To Completion CME Automatic Hammer 10.0' of 4.0"* Casing Used 61.5' of 3.0"* Casing Used		50/4"		
	–55		NP	11
	–75			
		50/0"		
	–60		NR	
	–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
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

BORING LOGS 4
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. 60
62 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1414.2B	COOK	516	373
		CONTRACT NO. 60J27		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

P:\60254057-294)\STRUCTURAL\I-57 OVER RAMP B\final submittal 03-17-2010\final submittal 03172010\016252-60J27-060-BORING4.dgn 9:55:13 AM 3/18/2010