STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Analyst Court, Suite 200
Naperville, Illinois 60563
(630) 305-2838

SOIL BORING LOG

PAGE 1 of 1
DATE 11/11-17/2008
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 Over I-294
COUNTY Cook DRILLING METHOD Straight Flight Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 016-1096 & 016-1097
Station –
BORING NO. I57-I294 B-7
Station: 258+67
Offset: 118.0' Right
Ground Surface Elev. 614.2

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 (%)
12.0" ASPHALT	613.2				
CLAY-brown & gray-very stiff to hard (A-6) Fill		–5	5, 3, 5	4.25P	19
			2, 6, 7	3.25P	18
			4, 13, 12	7.1B	18
			5, 7, 9	6.9B	19
SILTY CLAY LOAM-dark brown & gray-loose (A-4) Wet	603.7		2, 2, 3	0.25P	30
SANDY LOAM to LOAM-brown & gray-loose (A-4)	601.2	–15	4, 4, 3	–	22
SAND-gray-loose (A-3)	598.7		3, 4, 4	NP	19
SILTY LOAM to LOAM-gray-medium dense to very dense (A-4)	596.2	–20	8, 9, 9	NP	12

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SILTY LOAM to LOAM-gray-medium dense to very dense (A-4)		–25	20, 32, 32	NP	10
			48, 50/4"	NP	15
			31, 50/6"	NP	10
			45, 50/5"	NP	9
Drillers Observation: Fractured Rock.	582.2	–35			
		–40			

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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SOIL BORING LOG

PAGE 2 of 2
DATE 11/11-17/2008
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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 Over I-294
COUNTY Cook DRILLING METHOD Straight Flight Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 016-1096 & 016-1097
Station –
BORING NO. I57-I294 B-7
Station: 258+67
Offset: 118.0' Right
Ground Surface Elev. 614.2

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 (%)
Drillers Observation: Fractured Rock.	570.2				
Run 1 (–44.0' to –54.0') Silurian System Niagaran Series Dolomite Light gray to gray with horizontal bedding. Fine grained with some varving. Horizontal fracture @ –44.2', –44.5' & –45.4'. Horizontal fracture with thin clay parting @ –50.0'. Horizontal fractures @ –53.0' & –53.6'. Recovery=99.0% R.Q.D.=90.3%		–45			
		–50	RUN 1		
End Of Boring @ –54.0' Straight Flight Augers To –10.0' Rotary Drilling To Completion CME Automatic Hammer 10.0' 4.0"* Casing Used 3.0"* Casing Used	560.2	–55			
		–60			

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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ROCK CORE LOG

PAGE 1 of 1
DATE 11/11-17/2008
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 Over I-294
COUNTY Cook CORING METHOD Rotary Wash

STRUCT. NO. 016-1096 & 016-1097
Station –
BORING NO. I57-I294 B-7
Station: 258+67
Offset: 118.0' Right
Ground Surface Elev. 614.2

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 570.2
Begin Core Elev. 570.2

Description	Elev.	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Run 1 (–44.0' to –54.0') Silurian System Niagaran Series Dolomite Light gray to gray with horizontal bedding. Fine grained with some varving. Horizontal fracture @ –44.2', –44.5' & –45.4'. Horizontal fracture with thin clay parting @ –50.0'. Horizontal fractures @ –53.0' & –53.6'.	570.2	–5	1	99.0	90.3	n/a	592@ –44.9'
		–10					

Color pictures of the cores Yes Cores will be stored for examination for –
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

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BORING LOGS 7
STRUCTURE NO. 016-1251

TYLIN INTERNATIONAL

DESIGNED	JMA
CHECKED	SP,
DRAWN	JMA
CHECKED	SP,PDF
DATE	03/18/10

REVISIONS	
NAME	DATE

SHEET NO. 63
68 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1414.2B	COOK	516	308
		CONTRACT NO. 60J27		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

3/17/2010