Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aurelius Road, Suite 100
Naperville, Illinois 60540
(630) 355-7878

SOIL BORING LOG

PAGE 1 of 2
DATE 5/2/2008
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 Kedzie Avenue Over I-57
COUNTY Cook
DRILLING METHOD Straight Flight/Rotary Wash
HAMMER TYPE CME Automatic

STRUCT. NO. 016-2126
Station –
BORING NO. I57-KED B-6
Station: 24+42 Kedzie Avenue
Offset: 46.0' Right
Ground Surface Elev. 611.4

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 599.4
Upon Completion n/a
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
14.0" ASPHALT	610.2				
CLAY-brown-hard (A-6) Fill	608.4	3 / 5 / 7	6.1B	17	
GRAVEL, STONE & CINDERS-dense to very dense (Fill)	603.4	–5 / 10 / 14 / 16 / 30 / 506"	NP	6	
CINDERS-medium dense (Fill)	601.9	–10 / 10 / 4			
SANDY LOAM to LOAM-brown & gray-medium dense (A-4)	598.4	–10 / 5 / 5 / 7 / 7	NP	11	
SILTY LOAM-gray-loose (A-4)	595.9	–15 / 2 / 3 / 6	NP	25	
SAND & GRAVEL-gray-medium dense (A-1)	588.4	–20 / 12 / 11 / 8 / 8 / 5	NP	10	6
SAND & GRAVEL-gray-medium dense (A-1)	588.4	8 / 8 / 8	NP	6	107
SAND-gray-medium dense (A-3)	585.9	–25 / 6 / 8 / 9	NP	22	
SANDY LOAM to LOAM-gray-medium dense (A-4)	583.4	–30 / 8 / 6 / 10	NP	10	
SILTY LOAM with Fractured Rock-gray-medium dense (A-4)	574.4	–35 / 7 / 6 / 10	NP	12	
Drillers Observation: Apparent Bedrock	572.9				
RUN 1 (–38.5' to –48.5') Silurian System, Niagaran Series Dolomite	–40		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

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SOIL BORING LOG

PAGE 2 of 2
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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 Kedzie Avenue Over I-57
COUNTY Cook
DRILLING METHOD Straight Flight/Rotary Wash
HAMMER TYPE CME Automatic

STRUCT. NO. 016-2126
Station –
BORING NO. I57-KED B-6
Station: 24+42 Kedzie Avenue
Offset: 46.0' Right
Ground Surface Elev. 611.4

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 599.4
Upon Completion n/a
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Light gray to gray & fine grained with horizontal bedding. Tight horizontal fractures @ –39.2', –39.25', –40.1', –41.6', –42.9', –43.4' & –45.2'. Recovery = 100.0% R.Q.D. = 99.0% Core Time = 2.6 minutes/foot 100.0% Water Loss	592.9	–45	RUN 1		
End Of Boring @ –48.5' Straight Flight Augers to –15.0' Rotary Drilling To Completion CME Automatic Hammer 15.0' of 4.0"* Casing Used		–50			
		–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

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ROCK CORE LOG

PAGE 1 of 1
DATE 5/2/2008
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 Kedzie Avenue Over I-57
COUNTY Cook
CORING METHOD Rotary Wash

STRUCT. NO. 016-2126
Station –
BORING NO. I57-KED B-6
Station: 24+42 Kedzie Avenue
Offset: 46.0' Right
Ground Surface Elev. 611.4

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 574.4
Begin Core Elev. 572.9

Description	Elev.	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (–38.5' to –48.5') SILURIAN SYSTEM, NIAGARAN SERIES DOLOMITE Light gray to gray & fine grained with horizontal bedding. Tight horizontal fractures @ –39.2', –39.25', –40.1', –41.6', –42.9', –43.4' & –45.2'. 100.0% Water Loss	572.9		1	100.0	99.0	2.6	1860@ –39.3'
		–43.5					
		–48.5					

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

TYLIN INTERNATIONAL	USER NAME =	DESIGNED - MDM	REVISED -
		CHECKED - CME	REVISED -
	PLOT SCALE =	DRAWN - SMM	REVISED -
	PLOT DATE = 5/5/2011	CHECKED - PDF	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 6
STRUCTURE NO. 016-1196
SHEET NO. 38 OF 40 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1313.1B-1	COOK	162	99
		CONTRACT NO. 60K14		
		ILLINOIS FED. AID PROJECT		

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5/3/2011