Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amberer Court, Suite 100
Naperville, Illinois 60563
(630) 355-7878

SOIL BORING LOG

PAGE 1 of 2
DATE 5/13/2008
LOGGED BY MR

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-8
Station: 26+40 Kedzie Avenue
Offset: 18.0' Right
Ground Surface Elev. 631.9

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 (%)
2.0" ASPHALT, 14.0" CONCRETE	630.6				
CLAY–brown & gray– very stiff to hard (A–6) Fill			9, 5, 7	5.5B	11
	608.9				
CLAY–brown & gray– very stiff to hard (A–6) Fill			6, 6, 9	12.8B	14
FOUNDRY SAND–dense (Fill)	606.9	–5			
CLAY–brown & gray– hard (A–6) Fill			4, 6, 7	3.5B	13
	603.9				
FOUNDRY SAND–dense (Fill)			6, 7, 8	14.0B	14
	601.4	–10			
SAND–gray– medium dense to dense (A–3)			5, 6, 9	6.5B	19
			4, 6, 11	2.1B	23
		–15			
			4, 7, 11	3.2B	16
Clay seams from –38.5' to –40.0'.			5, 5, 8	2.73@ 12.7%	101, 24
		–20			

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY–brown & gray– very stiff to hard (A–6) Fill			7		
			8, 9	4.0B	25
FOUNDRY SAND–dense (Fill)			14		
			17, 22	NP	46
CLAY–brown & gray– hard (A–6) Fill			6		
			27, 50/2"	4.9B	20
FOUNDRY SAND–dense (Fill)			16		
			19, 24	NP	31
		–30			
SAND–gray– medium dense to dense (A–3)			5		
			5, 6, 6	NP	22
		–35			
			4, 5, 5	NP	20
		–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

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-8
Station: 26+40 Kedzie Avenue
Offset: 18.0' Right
Ground Surface Elev. 631.9

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 (%)
SAND–gray– medium dense to dense (A–3)			10, 12, 15	NP	21
		–45			
	562.9		13, 18, 17	NP	19
		–50			
	579.9				
SILTY LOAM–gray– medium dense (A–4)			9, 10, 12	NP	21
		–55			
	573.9				
Drillers Observation: Apparent Bedrock	572.9				
RUN 1 (–59.0' to –59.8') Boulder encountered.	572.1	–60	RUN 1		

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
RUN 1 (–59.0' to –59.8') Silurian System Niagaran Series Dolomite Light gray to gray with horizontal bedding. Fine grained. Horizontal fractures @ –60.4', –60.7', –64.9', –65.3', –65.9', –66.3', –67.6' & –68.5'. Recovery = 95.7% R.Q.D. = 87.0% Core Time = 2.0 minutes/foot. 33.0% Water Loss.	–65	RUN 1		
End Of Boring @ –69.0' Straight Flight Augers To –10.0' Rotary Drilling To Completion CME Automatic Hammer 10' of 4"* Casing Used	–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

ROCK CORE LOG

PAGE 1 of 1
DATE 5/13/2008
LOGGED BY MR

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 CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Station –
Core Diameter 2.0 in
Top of Rock Elev. 573.9
Begin Core Elev. 572.9
BORING NO. I57-KED B-8
Station: 26+40 Kedzie Avenue
Offset: 18.0' Right
Ground Surface Elev. 631.9

Description	Elev.	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (–59.0' to –59.8') Boulder encountered. RUN 1 (–59.8' to –69.0') Silurian System Niagaran Series Dolomite Light gray to gray with horizontal bedding. Fine grained. Horizontal fractures @ –60.4', –60.7', –64.9', –65.3', –65.9', –66.3', –67.6' & –68.5'. 33.0% Water Loss.	572.9 572.1		1	95.7	87.0	2.0	869@ –61.4'
		–64					
		–69					

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)

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 8
STRUCTURE NO. 016-1196
SHEET NO. 40 OF 40 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1313.1B-1	COOK	162	101
		CONTRACT NO. 60K14		
		ILLINOIS FED. AID PROJECT		

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