Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aurora Court, Unit A
Naperville, Illinois 60563
(630) 355-7878

SOIL BORING LOG

PAGE 1 of 2
DATE 5/14/2008
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-4
Station: 26+57 Kedzie Avenue
Offset: 23.5' Left
Ground Surface Elev. 631.1

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, 12.0" CONCRETE	629.9				
CLAY-brown & gray- very stiff to hard (A-6) Fill			3		112
			4		
			4	5.4B	13
CRUSHED STONE-medium dense (Fill)	608.1		3		110
			4	2.8S@	
		–5	7	12.7%	16
CLAY-brown & gray- very stiff (A-6) Fill	606.6				
			3		111
			5		
			9	3.7B	18
CLAY LOAM to LOAM-gray- medium dense (A-4)	604.1				
			4		113
			5		
		–10	6	4.75B	20
SILT-gray-medium dense (A-4)	599.1				
			2		
			5		
			12	2.25P	22
SAND-gray-medium dense (A-3)	596.1				
			4		104
			4		
		–15	7	2.25B	26
			5		106
			8		
			13	2.25B	14
			7		110
			7		
		–20	10	2.2B	22

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
			4		107
			5		
			36	2.0B	8
			21		
			20		
		–25	5	NP	20
			11		
			27		
			50/3"	3.75P	17
			13		
			13		
		–30	12	NP	21
			5		
			10		
		–50	18	NP	19
			8		114
			12	6.9S@	
		–55	15	12.7%	17
			3		
			6		
		–60	50/3"	NP	17

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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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-4
Station: 26+57 Kedzie Avenue
Offset: 23.5' Left
Ground Surface Elev. 631.1

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 (A-3)	579.1				
			9		
			12		
		–45	13	NP	16
CLAY LOAM-gray-hard (A-6)	574.1				
			5		
			10		
		–50	18	NP	19
			8		114
			12	6.9S@	
		–55	15	12.7%	17
FRACTURED ROCK-gray- very dense (A-1)	572.1		23		
Drillers Observation: Apparent Bedrock			50/3"		

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
...continued	570.6				
RUN 1 (–60.5' to –70.5') Silurian System Niagaran Series Dolomite Dark gray to gray with horizontal bedding. Fine grained with numerous intersecting horizontal & vertical fractures throughout. Highly fractured from –60.5' to –62.9'. Horizontal fractures @ –63.3', –63.7', –64.4', –64.6' & –68.6'. Recovery = 88.0% R.Q.D. = 61.0% Core Time = 6.0 minutes/foot 100.0% Water Loss					
		–65			
			RUN 1		
		–70			
End Of Boring @ –70.5' Straight Flight Augers To –10.0' Rotary Drilling To Completion CME Automatic Hammer	560.6				
		–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 5/14/2008
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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 Kedzie Avenue Over I-57
COUNTY Cook
CORING METHOD Rotary Wash

STRUCT. NO. 016-2126
Station –
BORING NO. I57-KED B-4
Station: 26+57 Kedzie Avenue
Offset: 23.5' Left
Ground Surface Elev. 631.1

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 572.1
Begin Core Elev. 570.6

Description	Elev.	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (–60.5' to –70.5') Silurian System Niagaran Series Dolomite Dark gray to gray with horizontal bedding. Fine grained with numerous intersecting horizontal & vertical fractures throughout. Highly fractured from –60.5' to –62.9'. Horizontal fractures @ –63.3', –63.7', –64.4', –64.6' & –68.6'. 100.0% Water Loss	570.6		1	88.0	61.0	6.0	92S@ -63.8'
		–65.5					
		–70.5					

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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5/3/2011

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 4
STRUCTURE NO. 016-1196
SHEET NO. 36 OF 40 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1313.1B-1	COOK	162	97
		CONTRACT NO. 60K14		
		ILLINOIS FED. AID PROJECT		

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