Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Aurelius Road, Suite 100
Naperville, Illinois 60563
(630) 355-7570

SOIL BORING LOG

PAGE 1 of 2
DATE 5/4/2008
LOGGED BY RH

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 Hollow Stem/Rotary Wash HAMMER TYPE CME Automatic

STRUCT. NO. 016-2126
Station –
BORING NO. I57-KED B-1
Station: 23+45 Kedzie Avenue
Offset: 19.5' Left
Ground Surface Elev. 630.9

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 (%)
2.5" ASPHALT, 10.5" CONCRETE	629.8				
			4		
			8		
CRUSHED STONE-medium dense (Fill)	627.9		10	NP	3
			3		
			6		
CLAY-brown & gray- stiff to very stiff (A-6) Fill		-5	9	2.2B	15
			2		104
			5		
			7	1.25B	20
			5		116
			6		
		-10	7	3.5B	16
			6		108
			9		
			13	2.8B	21
			6		
			9		
		-15	12	–	29
			4		95
			8		
			12	1.9B	28
			8		
			7		
		-20	10	1.5B	24

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-brown & gray- stiff to very stiff (A-6) Fill			7		101
			8		
			14	2.2B	23
			6		101
			20		
	605.9	-25	17	1.75B	24
SAND, GRAVEL & STONE-gray- medium dense (A-1) Possible Fill			11		
			11		
			14	NP	8
	602.9				
SILT-gray-dense (A-4)			9		
			20		
		-30	20	NP	23
	598.9				
SANDY LOAM-gray- medium dense (A-2/A-4)					
			8		
			12		
		-35	13	NP	20
			13		
			15		
		-40	16	NP	20

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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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 Hollow Stem/Rotary Wash HAMMER TYPE CME Automatic

STRUCT. NO. 016-2126
Station –
BORING NO. I57-KED B-1
Station: 23+45 Kedzie Avenue
Offset: 19.5' Left
Ground Surface Elev. 630.9

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 (%)
SANDY LOAM-gray- medium dense (A-2/A-4)	588.9				
SILTY LOAM with Fractured Rock- gray-medium dense to dense (A-4)			9		
			8		
		-45	9	–	13
			26		
			16		
		-50	14	NP	10
	577.9				
Drillers Observation: Fractured Rock	576.9				
RUN 1 (-54.0' to -64.0') Silurian System Niagaran Series Dolomite Light gray with horizontal bedding. Fine grained. Horizontal fracture @ -54.2. Transverse fracture @ -54.9'. Horizontal fracture @ -57.4'. Transverse fracture @ -58.7'. Horizontal fractures @ -59.0', -59.3' & -60.1'. Horizontal fracture with ¼" clay parting @ -60.9'. Horizontal fracture @ -62.4'.		-55	RUN 1		
		-60			

Recovery=98.0%
R.Q.D.=84.0%
Core Time=6.0 minutes/foot
50.0% Water Loss From -54.0' to -59.0'
100.0% Water Loss From -59.0' to -64.0'

RUN 1

566.9

End Of Boring @ -64.0'
Hollow Stem Augers To -10.0'
Rotary Drilling To Completion
CME Automatic Hammer
10' of 4"" Casing Used

-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 5/4/2008
LOGGED BY RH

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-1
Station: 23+45 Kedzie Avenue
Offset: 19.5' Left
Ground Surface Elev. 630.9

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 576.9
Begin Core Elev. 576.9

Description	Elev.	DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
RUN 1 (-54.0' to -64.0') Silurian System Niagaran Series Dolomite	576.9		1	98.0	61.0	6.0	1018@ -55.4'
Light gray with horizontal bedding. Fine grained. Horizontal fracture @ -54.2. Transverse fracture 2 -54.9'. Horizontal fracture @ -57.4'. Transverse fracture @ -58.7'. Horizontal fractures @ -59.0', -59.3' & -60.1'. Horizontal fracture with ¼" clay parting @ -60.9'. Horizontal fracture @ -62.4'.							
50.0% Water Loss From -54.0' to -59.0' 100.0% Water Loss From -59.0' to -64.0'		-59					
		-64					

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)

TY·LIN 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 1
STRUCTURE NO. 016-1196
SHEET NO. 33 OF 40 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1313.1B-1	COOK	162	94
		CONTRACT NO. 60K14		
		ILLINOIS FED. AID PROJECT		

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