STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Geo Services Inc
Geotechnical, Environmental & Civil Engineering
805 Amherst Court Suite 200
Naperville, Illinois 60563
(630) 305-3585

SOIL BORING LOG

PAGE 1 of 2
DATE 11/3/2008
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-4
Station: 257+32
Offset: 128.5' Right
Ground Surface Elev. 614.3

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				15.0" ASPHALT
613.1				
	16			
	16			
	10	NP	7	
				CRUSHED STONE– loose to medium dense
	10			
	8			
–5	11	NP	6	
	3			
	3			
	2	NP	8	
	2			
604.8				
–10	1	NP	4	
				CLAY to CLAY LOAM–dark brown & gray–very loose (A-6) Fill
	2			
	1			
	2	–	11	
613.3				
	2			
	1			SILTY LOAM–brown & gray–
–15	2	NP	21	very loose (A-4) Apparent Fill
598.8				
	2			
	3			
	4	NP	23	SANDY LOAM–dark gray– loose (A-2) Apparent Fill
	4			
	4			
–20	4	NP	14	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				SANDY LOAM–loose (A-2) 593.8
	6		98	
				CLAY–gray–medium stiff (A-6) Wet
	17			
	19	0.7B	27	
591.3				
	32			
	50			
–25	–	NP	16	
				SILT–gray– dense to very dense (A-4)
	19			
	24			
	29	NP	19	
	15			
	17			
	23	NP	19	
582.3				
	19			
	19			
–35	20	NP	10	SILTY LOAM with Fractured Rock– gray–very dense (A-4)
	18			
	20			
–40	503"	NP	12	

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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Ground Surface Elev. 614.3

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Stream Bed Elev. n/a
Groundwater Elevation:
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Upon Completion n/a
After _____ Hrs. _____

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				SILTY LOAM with Fractured Rock– gray–very dense (A-4)
572.3				
				SANDY LOAM with Fractured Rock– gray–very dense (A-2)
	40			
	35			
–45	253"	NP	9	
567.3				
				FRACTURED ROCK–gray– very dense (A-1)
	503"			
–50		NP	16	
561.3				
				Drillers Observation: Apparent Bedrock.
559.3	–55			
				Run 1 (–55.0' to –65.0') Silurian System Niagaran Series Dolomite Light gray to gray with horizontal bedding. Fine grained with some varving. Vertical fracture with numerous intersecting horizontal fractures from –56.5' to –57.8'. Horizontal fractures @ –58.1', –58.2', –58.4', –58.8', –59.4', –60.1', –60.5', –60.7', –60.9' & –61.5'. Highly fractured with numerous intersecting horizontal fractures from –61.8' to –63.5'.
				RUN 1
–60				

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				Recovery = 96.0% R.Q.D. = 43.0%
				100.0% Water Loss
				RUN 1
549.3	–65			
				End Of Boring @ –65.0' Straight Flight Augers To –15.0' Rotary Drilling To Completion CME Automatic Hammer 15.0' 4.0"* Casing Used 53.0' 3.0"* Casing Used