STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 400
Naperville, Illinois 60563
(630) 305-3535

SOIL BORING LOG

PAGE 1 of 2
DATE 11/11-12/2008
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 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-6
Station: 257+98
Offset: 122.0' Right
Ground Surface Elev. 615.6

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 (%)	
				SAND–loose to medium dense (A–3) 595.1
	8			12.0" ASPHALT, 24.0" CRUSHED STONE
	12			
	17	NP	7	
612.6				
	4		109	CLAY–brown & gray– very stiff (A–6) Fill
	6			
–5	9	3.25B	19	
609.6				
	10			SILTY LOAM with Fractured Rock– gray–very dense (A–4)
	14			CRUSHED STONE–dense (Fill)
	19	NP	5	
607.1				
	4		109	CLAY–brown & gray–hard (A–6) Fill
	8			
–10	11	4.1B	19	
605.1				
	2			LOAM–dark brown & gray– loose (A–4)
	2			
	3	NP	24	
602.6				
	0			SILTY CLAY–gray– medium stiff (A–6) Wet
	1			
–15	2	0.5P	29	
600.1				
	3			SAND–gray– loose to medium dense (A–3)
	5			
	7	NP	21	
	3			
	3			
–20	3	NP	21	

DEPTH (ft)	BLOWS	UCS Qu	MOIST (%)	
	13			
	31			
	505"	NP	15	
	22			
	30			
–25	41	NP	11	
	41			
	504"			
		NP	8	
	39			
	504"			
–30		NP	9	
	21			
	27			
–35	35	NP	8	
	18			
	31			
–40	48	NP	10	

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

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 400
Naperville, Illinois 60563
(630) 305-3535

SOIL BORING LOG

PAGE 2 of 2
DATE 11/11-12/2008
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 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-6
Station: 257+98
Offset: 122.0' Right
Ground Surface Elev. 615.6

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 (%)	
				SILTY LOAM with Fractured Rock– gray–very dense (A–4)
573.6				
	48			FRACTURED ROCK–gray– very dense (A–1)
	502"			
–45		NP	5	
570.1				
				Drillers Observation: Apparent Bedrock.
569.1				
				Run 1 (–46.5' to –56.5') Silurian System Niagaran Series Dolomite
				Light gray to gray with horizontal bedding. Fine grained with some varving. Vertical fracture from –46.5' to –47.2'. Horizontal fracture @ –49.3'. Vertical fracture from –49.7' to –50.3'. Horizontal fractures @ –51.2', –52.3' & –54.3'. ½" clay parting @ –54.6'.
–50				RUN 1
				Recovery=96.5% R.Q.D.=79.0%
–55				
559.1				
				End Of Boring @ –56.5' Straight Flight Augers To –10.0' Rotary Drilling To Completion CME Automatic Hammer 10.0' 4.0"* Casing Used 3.0"* Casing Used
–60				

DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)