Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
305 Arrowhead Court, Suite 204
Hopkinton, Illinois 52083
(563) 926-2838

SOIL BORING LOG

PAGE 1 of 1
DATE 2/29/2012
LOGGED BY MD
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 SEC 12, T 36 N, R 13 E, SE 1/4, 3rd PM
COUNTY Cook
DRILLING METHOD Hollow Stem Auger
HAMMER TYPE Diedrich Safety
STRUCT. NO. –
Station –
BORING NO. LTB-05
Station: 1288+97
Offset: 397.0' Right
Ground Surface Elev. 605.3
Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 595.3
Upon Completion 597.8
After _____ Hrs.

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	Soil Description
				TOPSOIL–black
604.3	AS	–	28	
	9			
	18			SAND & GRAVEL–brown–dense (A–1)
	24	NP	8	
602.3				
	16			SILTY LOAM–gray–dense (A–4)
–5	24			
	25	NP	14	
599.8				
	11			
	16			SAND with Gravel–gray–dense (A–1) ▽
	25	NP	9	
▼595.3				
–10	16			
	18	NP	15	
	16			Fine SAND–gray– dense to very dense (A–2/A–3)
	20			
	24	NP	27	
	14			
	21			
–15	28	NP	23	
	15		22	
	25			
	45	NP	20	
587.3				
	34			Silty SAND, GRAVEL & FRACTURED ROCK–gray–very dense (A–2)
	40			
–20	50/3"	NP	11	

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	Soil Description
				Silty SAND, GRAVEL & FRACTURED ROCK–gray–very dense (A–2)
	31			
	50/5"			
		NP	9	
	24			
–25	50/4"			
		NP	8	
	41			
	50/3"			
		NP	8	
	38			
	50/5"			
575.3 –30		NP	9	
				End Of Boring @ –30.0' Hollow Stem Augers Diedrich Safety Hammer
–35				
–40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (SB–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 1 of 1
DATE 3/15/2012
LOGGED BY MD
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 SEC 12, T 36 N, R 13 E, SE 1/4, 3rd PM
COUNTY Cook
DRILLING METHOD Hollow Stem Auger
HAMMER TYPE Diedrich Safety
STRUCT. NO. –
Station –
BORING NO. LTB-06
Station: 1285+52
Offset: 433.0' Left
Ground Surface Elev. 602.5
Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 590.0
Upon Completion 589.5
After _____ Hrs.

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	Soil Description
				18.0" ASPHALT
602.0	2			
	2			LOAM–gray–loose (A–2/A–4) Fill
	3	NP	18	
600.5				
	3			SILTY CLAY LOAM–brown & gray– medium dense (A–4) Possible Fill
	6			
–5	11	–	12	
596.0				
	7			
	16			
	18	NP	14	SILTY LOAM–gray–dense (A–4)
	13			
	16			
–10	21	NP	18	
592.0				
	15			
	26			SILT–gray–dense (A–4)
	27	NP	20	
590.5				
	8			
	16			
–15	17	NP	19	
	12			Fine SAND–gray– dense to very dense (A–2/A–3)
	25			
	27	NP	22	
	12			
	20			
–20	22	NP	24	

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	Soil Description
	11		33	Fine SAND–gray– dense to very dense (A–2/A–3)
	21			
	24	NP	22	
	11			
	20			
–25	21	NP	24	
	24			
	40			
	50/5"	NP	22	
	17			
	38			
575.5 –30	50/5"	NP	17	
				End Of Boring @ –30.0' Hollow Stem Augers Diedrich Safety Hammer
–35				
–40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (SB–Bulge, S–Shear, P–Penetrometer) ST–Shelby Tube Sample VS–Vane Shear Test
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