STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	*	LAKE	469	247
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	

SHEET NO. - 12
15 - SHEETS

* 125X-HB-(1&2) R-1 CONTRACT # 60826

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amberst Court Suite 204
Naperville, Illinois 60565
(630) 355-2866

SOIL BORING LOG

PAGE 1 of 2
DATE 10/21/2004
LOGGED BY RJ
GSI JOB No. 0314

ROUTE FAP Rte. 346 DESCRIPTION New Overpass
TWNSHP Gurnee LOCATION TWP 44 N, R 6E on the south boundary of Sec 28
COUNTY Lake DRILLING METHOD 3.25" HSA/Rotary HAMMER TYPE D-120 Safety Hammer

STRUCT. NO. SN 049-W031
Station
BORING NO. J-2
Station 106+40.7 Ramp A Baseline
Offset 7.25' Right
Ground Surface Elev. XX ft

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

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
TOPSOIL-dark brown to black (A-7)		8		
		10 / 14	-	14
CLAY-brown-hard (A-6)		8		
		10 / 13	4.5+P	10
	-5			
		8		
		10 / 17	4.5+P	15
		5		117
		8 / 13	6.2B	14
	-10			
CLAY-gray-medium stiff to very stiff (A-6)		4		109
		4 / 7	1.8B	18
		3		111
		5 / 6	2.7B	16
	-15			
		3		111
		3 / 4	0.9B	19
		2		121
		3 / 5	2.2B	15
	-20			
CLAY-gray-medium stiff to very stiff (A-6)		3		114
		5 / 6	2.7B	17
		3		100
		3 / 4	0.9B	26
	-25			
		2		96
		3 / 4	0.9B	26
		3		104
		4 / 5	1.8B	23
	-30			
		2		
		4		123
		8 / 9	3.4B	14
	-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample
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 (%)

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BORING NO. J-2
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Offset 7.25' Right
Ground Surface Elev. XX ft

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

Description	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-medium stiff to very stiff (A-6)		4		103
		7 / 7	2.0P	24
	-45			
CLAY-gray-very stiff to hard (A-6)		5		124
		8 / 9	3.1B	16
	-50			
		10		
		11 / 23	4.5+P	13
	-55			
		6		
		6 / 10	2.5P	15
	-60			
CLAY-gray-very stiff to hard (A-6)		9		114
		8 / 9	2.5B	18
	-65			
SANDY LOAM to LOAM-gray-very loose (A-4)		1		
		1 / 1	NP	12
	-70			
SAND & GRAVEL-gray-medium dense (A-1-b)		5		
		7 / 13	NP	4
	-75			
End of Boring @ -75.0' Hollow Stem Augers to -12.5' Rotary Drilling To Completion D-120 Safety Hammer	-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample
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TY·LIN INTERNATIONAL

DESIGNED	MAF
CHECKED	AD
DRAWN	MAF
CHECKED	AD

BORING LOG J-2

FAP 346 (U.S. ROUTE 41 - SKOKIE HIGHWAY) OVER ILLINOIS ROUTE 132
SECTION 125X-HB-(1&2)R-1
LAKE COUNTY
S.N. 049-W031