STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	*	LAKE	469	246
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	

SHEET NO. - 11
15 - SHEETS

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

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 955-2906

SOIL BORING LOG

PAGE 1 of 2
DATE July 27, 2004
LOGGED BY JR
GSI JOB No. Ø314

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' Hollow Stem Auger HAMMER TYPE D-120 Safety Hammer

STRUCT. NO. SN Ø49-WØ31
Station
BORING NO. J-1
Station 105+65.7 Ramp A Baseline
Offset 7.25' Right
Ground Surface Elev. 697.7

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 678.7
Upon Completion Dry
After ____ Hrs.

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				TOPSOIL-black (A-7) 696.7
	5		135	
	6			
	12	3.7B	9	
	6		142	CLAY-brown & gray-hard (A-6)
	7			
-5	13	5.3B	7	
	5		122	
	11			CLAY-gray-
	20	6.2B	11	very stiff (A-6)
	6		126	
	8			
-10	14	7.1B	13	
	3		130	
	6			
	16	4.4B	12	
				684.2
	2		134	
	6			
-15	8	2.1B	11	
	2		129	CLAY-gray-
	5			stiff to very stiff (A-6)
	8	2.7B	12	
▼	3		138	
	5			
-20	13	2.5B	13	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
	5		114	CLAY-gray-
	11			stiff to very stiff (A-6)
	14	3.0B	18	
	3		126	
	4			
-25	11	1.9B	14	
	3		128	
	4			
-30	10	3.4B	10	
	4		125	
	11			
-30	12	3.8P	12	
	2		127	
	3			
-35	20	2.0P	13	
	6		128	
	11			
-40	16	2.7B	14	

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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COUNTY Lake DRILLING METHOD 3.25' Hollow Stem Auger HAMMER TYPE D-120 Safety Hammer

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Station
BORING NO. J-1
Station 105+65.7 Ramp A Baseline
Offset 7.25' Right
Ground Surface Elev. 697.7

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 678.7
Upon Completion Dry
After ____ Hrs.

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				CLAY-gray-
				stiff to hard (A-6)
	5		128	CLAY-gray-
				stiff to hard (A-6)
	7			
-45	14	2.5P	16	
				632.7
				Fine SAND-gray-medium dense (A-3)
	2		124	
	3			
-50	5	1.3P	16	
				627.7
				End of Boring @ -70.0'
				Hollow Stem Augers
				D-120 Safety Hammer
	8		131	
	13			
-55	25	4.5P	12	
	5		127	
	10			
-60	16	2.7B	12	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
	8		127
	11		
-65	15	3.5B	12
	5		
	6		
-70	11	NP	16
-75			
-80			

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 (%)

TY·LIN INTERNATIONAL

DESIGNED	MAF
CHECKED	AD
DRAWN	MAF
CHECKED	AD

BORING LOG J-1

FAP 346 (U.S. ROUTE 41 - SKOKIE HIGHWAY) OVER ILLINOIS ROUTE 132
SECTION 125X-HB-(1&2)R-1
LAKE COUNTY
S.N. Ø49-WØ31