STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	*	LAKE	469	294
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	

SHEET NO. - 13 17 - SHEETS

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

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Ambers Court, Suite 204
Naperville, Illinois 60565
(630) 355-2956

SOIL BORING LOG

PAGE 1 of 2
DATE 10/25/2004
LOGGED BY Patrick
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" Hollow Stem Augers HAMMER TYPE CME-75 Auto Hammer

STRUCT. NO. SN 049-W034
Station
BORING NO. M-2
Station 210+54.8 Ramp B Baseline
Offset 0.25' Left
Ground Surface Elev. 698.5

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 660.0 ▼
Upon Completion n/a ▽
After ___ Hrs. ___ ▼

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Sand & Gravel (Fill)	697.5				
			4		
TOPSOIL-black (A-7)			2 3	-	33
	695.0				
CLAY-brown & gray-medium stiff to stiff (A-6)			3		100
			4		
		-5	5	1.6B	21
			2		113
			3		
			2	0.9B	16
	690.5				
CLAY-brown & gray-hard (A-6)			4		118
			7		
		-10	9	4.4B	16
			3		118
			8		
			12	5.1B	16
	685.5				
CLAY-gray-stiff to very stiff (A-6)			2		111
			5		
		-15	7	3.9B	19
			1		
			3		
			6	2.0P	20
			2		
			5		
		-20	7	2.5P	18

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
			3		101
			7		
			9	3.5B	25
CLAY-gray-stiff to very stiff (A-6)			1		102
			3		
		-25	3	2.7B	23
			4		
			6	2.7B	15
			3		115
			4		
		-30	5	2.5B	18
			2		
			4		
		-35	4	1.0P	20
			3		119
			5		
		-40	10	1.8B	21

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 Augers HAMMER TYPE CME-75 Auto Hammer

STRUCT. NO. SN 049-W034
Station
BORING NO. M-2
Station 210+54.8 Ramp B Baseline
Offset 0.25' Left
Ground Surface Elev. 698.5

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 660.0 ▼
Upon Completion n/a ▽
After ___ Hrs. ___ ▼

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to hard (A-6)			2		115
			4		
		-45	5	1.6B	19
			3		118
			8		
		-50	8	3.4B	16
			4		119
			10		
		-55	15	6.2B	16
			6		122
			10		
		-60	13	6.2B	14

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to hard (A-6)					
	635.0				
SAND & GRAVEL-gray-loose (A-1)			1		
			1		
	633.5	-65	1	NP	25
End of Boring @ -65.0' Hollow Stem Augers CME-75 Automatic Hammer					
		-70			
		-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 M-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-W034