STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	•	LAKE	469	226
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-		

SHEET NO. "S-57
S-66" 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) 355-2266

SOIL BORING LOG

PAGE 1 of 3
DATE 10/21/2004
LOGGED BY CS
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 CME-75 Auto Hammer

STRUCT. NO. SN 049-0209
Station
BORING NO. B-4
Station 532+22.2 US 41 Centerline
Offset 31.16' Left
Ground Surface Elev. 683.6

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY TOPSOIL with Gravel-black (Fill)	682.1		2		
CLAY LOAM-brown spotted black-medium dense (A-6) Fill	680.6		3		
			3	0.5P	18
			1		116
CLAY-gray-stiff to hard (A-6)			2		
		-5	6	3.0B	17
			2		113
			3		
			4	2.5B	18
			2		102
			4		
		-10	5	1.6B	18
			4		
			5		
			7	3.0P	20
			3		107
			4		
		-15	6	2.7B	23
Sand seam @ -16.5'.			2		
			3		
			4	1.75P	14
			3		116
			4		
		-20	5	3.7B	16
CLAY-gray-stiff to hard (A-6)			6		128
			6		
			7	3.4B	12
			3		117
			4		
		-25	7	6.0B	17
	657.1		3		
SILTY LOAM-gray-medium dense (A-4)	655.6		4		
			7	NP	19
CLAY-gray-stiff to hard (A-6)			3		124
			5		
		-30	8	2.5B	13
			5		122
			8		
		-35	11	1.6B	14
			6		126
			12		
		-40	19	7.1B	13

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY-gray-stiff to hard (A-6)					
			6		122
			8		
		-45	12	6.0B	14
			4		120
			8		
		-50	12	2.1B	23
	630.6		13		
SAND & GRAVEL-gray-dense (A-1-b)			14		
		-55	30	NP	17
	625.6		13		
SAND & GRAVEL-gray-medium dense to dense (A-1-a)			14		
		-60	14	NP	3
SAND & GRAVEL-gray-medium dense to dense (A-1-a)					
			27		
			27		
	618.6	-65	16	NP	26
CLAY-gray-very stiff to hard (A-6)					
			9		122
			16		
		-70	17	2.5B	14
			10		
			14		
		-75	12		NR
			11		
			58		
		-80	22	2.5P	16

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 B-4
(1 OF 2)

FAP 346 (U.S. ROUTE 41 - SKOKIE HIGHWAY) OVER ILLINOIS ROUTE 132
SECTION 125X-HB-(1&2)R-1
LAKE COUNTY
S.N. 049-0209