

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO. - 12
346	*	LAKE	469	310	15 SHEETS
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-		
125X-HB-(1&2) R-1		CONTRACT # 60826			

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amber Court, Suite 204
Naperville, Illinois 60565
(630) 395-1236

PAGE 1 of 1
DATE 10-20-2004
LOGGED BY IOB
GSI JOB No. 0314

SOIL BORING LOG

ROUTE FAP Rte. 346 DESCRIPTION New Overpass
TWNESHIP 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 CME-75 Auto Hammer

STRUCT. NO. SN 049-W035
Station
BORING NO. N-6
Station 307+85.0 Ramp C Baseline
Offset 7.25' Right
Ground Surface Elev. 681.1

DEPTH (ft)	BLOW (1/6')	UCS (tsf)	MOIST (%)	Surface Water Elev. n/a				DEPTH (ft)	BLOW (1/6')	UCS (tsf)	MOIST (%)
				Stream Bed Elev. n/a	Groundwater Elevation:	First Encounter	Upon Completion				
7								9		128	
6								8			
8		29						8	3.5B	11	
TOPSOIL-black (A-7)				CLAY-gray-very stiff (A-6)							
677.6											
8								3		114	
10								4			
-5	12	4.5P	13			656.1	-25	7	2.0P	15	
CLAY-brown & gray-hard (A-6)				End of Boring @ -25.0' Hollow Stem Augers CME-75 Automatic Hammer							
7			120								
11											
13		9.7B	15								
672.1											
7			129								
10											
-10	12	4.4B	15				-30				
CLAY-gray-very stiff to hard (A-6)											
11			120								
10											
11		3.5B	16								
3			116								
4											
-15	6	2.7B	23				-35				
2											
664.1											
4											
6		NP	11								
LOAM-gray-medium dense (A-4)											
662.6											
4			126								
5											
-20	6	2.7B	8				-40				

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amber Court, Suite 204
Naperville, Illinois 60565
(630) 395-1236

PAGE 1 of 1
DATE 10/5/2004
LOGGED BY IOB
GSI JOB No. 0314

SOIL BORING LOG

ROUTE FAP Rte. 346 DESCRIPTION New Overpass
TWNESHIP 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 049-W035
Station
BORING NO. N-7
Station 308+60.3 Ramp C Baseline
Offset 7.25' Right
Ground Surface Elev. 681.4

DEPTH (ft)	BLOW (1/6')	UCS (tsf)	MOIST (%)	Surface Water Elev. n/a				DEPTH (ft)	BLOW (1/6')	UCS (tsf)	MOIST (%)
				Stream Bed Elev. n/a	Groundwater Elevation:	First Encounter	Upon Completion				
4								4		128	
5								8			
678.9	4	4.5+P	17					8	2.0P	17	
TOPSOIL-black (A-7)				CLAY-gray-medium stiff (A-6) 659.9							
5								5		120	
7								7			
-5	10	5.5B	17				-25	10	4.6B	15	
CLAY-brown & gray-hard (A-6)				CLAY-gray-very stiff to hard (A-6)							
5			116					5		119	
9								7			
11		5.4B	19					18	3.7B	16	
670.4								5		121	
6			122					5			
12								7			
-10	17	10.6B	15				651.4	-30	10	3.4B	15
CLAY-gray-stiff to hard (A-6)				End of Boring @ -30.0' Hollow Stem Augers D-120 Safety Hammer							
4			110								
7											
9		5.8B	19								
3			101								
5											
-15	5	1.8B	25				-35				
2			102								
4											
7		1.6B	24								
663.4											
1											
3											
-20	4	0.5P	26				-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 (ASTM T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)

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 (ASTM T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)

TYLIN INTERNATIONAL

DESIGNED	- MAF
CHECKED	- AD
DRAWN	- MAF
CHECKED	- AD

BORING LOGS N-6 & N-7

FAP 346 (U.S. ROUTE 41 - SKOKIE
HIGHWAY) OVER ILLINOIS ROUTE 132
SECTION 125X-HB-(1&2)R-1
LAKE COUNTY
S.N. 049-W035