

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346		LAKE	469	222
FED. ROAD DIST. NO.	ILLINOIS		FED. AID PROJECT	
			CONTRACT # 60826	

SHEET NO. - S-53  
S-66 SHEETS

Geo Services, Inc.  
Geotechnical, Environmental & Civil Engineering  
805 Amber Court, Suite 204  
Naperville, Illinois 60565  
(630) 205-1200

PAGE 1 of 3  
DATE 10/21/2004  
LOGGED BY CS  
GSI JOB No. 0314

SOIL BORING LOG

ROUTE FAP Rte. 346 DESCRIPTION New Overpass  
TOWNSHIP 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-2  
Station 530+12.2 US 41 Centerline  
Offset 31.16' Left  
Ground Surface Elev. 694.2

DEPTH (ft)	BLOW COUNT (blows/6')	UNCONF. COMP. STRENGTH (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	BLOW COUNT (blows/6')	UNCONF. COMP. STRENGTH (tsf)	MOISTURE (%)	SOIL DESCRIPTION	Surface Water Elev.	Stream Bed Elev.	Groundwater Elevation:
										n/a	n/a	First Encounter
(ft)	(/6')	(tsf)	(%)		(ft)	(/6')	(tsf)	(%)				
				TOPSOIL-black (Fill)								
	6					3		100				
	5					4						
691.2	4	-	17	CLAY-gray-medium stiff to very stiff (A-6)	7	1.8B		23				
	2					3		99				
	2			CLAY-brown spotted black-stiff (A-6) Fill		5						
	-5	4	1.25P			-25	7	1.8B	25			
										668.2		
687.2	4		111	SAND & GRAVEL-gray-medium dense (A-1)		5						
	9					9						
	10	5.3B	18			11	NP	8				
				CLAY-brown & gray-hard (A-6)						666.2		
685.2	4		109			3		127				
	5					7						
	-10	8	2.7B	CLAY-gray-very stiff (A-6)		-30	9	2.7P	12			
683.2												
	5			SILT-gray-medium dense (A-4)								
	8											
681.2	11	NP	19									
	5		110			6						
	6			CLAY-gray-medium stiff to very stiff (A-6)		6						
	-15	7	3.5B			-35	7	2.2P	16			
	2		118									
	4											
	6	0.9B	16									
	3		110			3						
	4					4						
-20	5	2.7B	17		-40	6	1.5P	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 (%)

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										n/a	n/a	First Encounter
(ft)	(/6')	(tsf)	(%)		(ft)	(/6')	(tsf)	(%)				
				CLAY-gray-medium stiff to very stiff (A-6)								
631.2												
	6		124									
	8											
	-45	13	3.5P	SAND & GRAVEL-gray-medium dense (A-2-4)		-65	15	NP	18			
	9		122									
	7											
	-50	13	3.9B			-70	12	NP	11			
	10											
	19											
620.2	-55	22	4.0P			-75	12	-	17			
				CLAY-gray-very stiff to hard (A-6)								
	5		105									
	6											
	8	0.9B	23			-80	13	3.5P	15			

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

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

BORING LOG B-2  
(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