ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 3578	1327B	COOK	108	77
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 14
22 SHEETS

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amberst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

PAGE 2 of 2
DATE August 30- 9/14, 2004
LOGGED BY AD
GSI JOB No. 0444

ROUTE IL Route 7 DESCRIPTION Retaining Wall
TWNSHP Orland LOCATION Township 36 N Range 12 E Orland Park, IL
COUNTY Cook DRILLING METHOD 3.25" HSA/Rotary HAMMER TYPE Automatic

STRUCT. NO. 016-W970
Station
BORING NO. R-5
Northing 1809824.4, Sta. 1509+73.80
Easting 1114832.8, Offset 19.29' LT.
Ground Surface Elev. 681.1

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 LOAM-gray-soft (A-6) Wet	637.6				
			6		126
			10		
		-45	12	3.4B	13
CLAY-gray-hard (A-6)					
			8		
			14		
		-50	18	4.5+P	10
			7		127
			12		
		-55	16	4.4B	12
SILT-gray-medium dense to very dense (A-4)	622.6				
			4		
			6		
		-60	10	NP	21
SILT-gray-medium dense to very dense (A-4)					
			7		
			15		
		-65	22	NP	23
			19		
			20		
			16		
		-70	16	NP	20
			19		
			32		
End Of Boring @ -75.0'	606.1	-75	34	NP	11

Hollow Stem Augers to -10.0'
Rotary Drilling to Completion
CME-75 Automatic Hammer

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
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 (%)
NR-No Recovery

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amberst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

PAGE 1 of 2
DATE August 10-11, 2004
LOGGED BY AD
GSI JOB No. 0444

ROUTE IL Route 7 DESCRIPTION Retaining Wall
TWNSHP Orland LOCATION Township 36 N Range 12 E Orland Park, IL
COUNTY Cook DRILLING METHOD 3.25" HSA/Rotary HAMMER TYPE Automatic

STRUCT. NO. 016-W970
Station
BORING NO. R-6
Northing 1809885.4, Sta. 1510+53.57
Easting 1114884.2, Offset 19.43' LT.
Ground Surface Elev. 681.5

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 (%)
CRUSHED CONCRETE	680.0				
			6		
			6		
			6	4.5P	17
CLAY-brown & gray-very stiff to hard (A-6) Fill					
			2		
			4		
		-5	4	2.0P	18
			2		104
			3		
			3	2.5P	20
CLAY-brown & gray-medium stiff to stiff (A-6/A-7) Fill, Wet	673.0				
			2		98
			3		
		-10	4	0.9B	27
			1		
			2		
			1	0.75P	29
			W		
			O		
		-15	H	NP	42
			1		
			2		
			4	1.5P	28
			1		
			3		
		-20	4	1.5P	26
CLAY-brown & gray-medium stiff to stiff (A-6/A-7) Fill, Wet					
			4		93
			4		
			6	1.5P	28
			1		89
			1		
		-25	2	1.1B	27
	655.5				
			2		
CLAY-dark gray-soft (A-7) Wet			2		
			2	NP	39
	653.0				
			2		110
			3		
		-30	3	1.3B	19
CLAY-gray-stiff (A-6)					
			3		
			7		
		-35	9	NP	23
	643.0				
			6		
			8		
		-40	8	NP	14

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
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 (%)
NR-No Recovery

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amberst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

PAGE 2 of 2
DATE August 10-11, 2004
LOGGED BY AD
GSI JOB No. 0444

ROUTE IL Route 7 DESCRIPTION Retaining Wall
TWNSHP Orland LOCATION Township 36 N Range 12 E Orland Park, IL
COUNTY Cook DRILLING METHOD 3.25" HSA/Rotary HAMMER TYPE Automatic

STRUCT. NO. 016-W970
Station
BORING NO. R-6
Northing 1809885.4, Sta. 1510+53.57
Easting 1114884.2, Offset 19.43' LT.
Ground Surface Elev. 681.5

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 LOAM-dark gray-medium dense (A-4)	638.0				
			6		116
			10		
		-45	12	3.4B	15
CLAY-gray-stiff to hard (A-6)					
			8		
			14		
		-50	18	3.5P	15
			7		126
			12		
		-55	16	4.4B	12
			4		124
			6		
		-60	10	1.5P	13
CLAY-gray-stiff to hard (A-6)					
			7		125
			15		
		-65	22	3.0P	12
			20		
			16		
		-70	16	NP	19
SILT-gray-dense to very dense (A-4)	613.0				
			19		
			32		
End Of Boring @ -75.0'	606.5	-75	34	NP	20

Hollow Stem Augers to -10.0'
Rotary Drilling to Completion
CME-75 Automatic Hammer

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
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 (%)
NR-No Recovery

DESIGNED	-
CHECKED	-
DRAWN	MD
CHECKED	SRT

Bollinger, Lach & Associates, Inc.

SOIL BORING LOGS R-5 & R-6

NORTHWEST RETAINING WALL
IL. 7 (Southwest Highway)
F.A.U. ROUTE 3578 SECTION 1327B
COOK COUNTY
STA. 1505+40.00 to STA. 1515+78.21
STRUCTURE NUMBER 016-W970