

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 3578	1327B	COOK	80	22 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

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 September 29, 2004  
LOGGED BY Patrick  
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 4.0" Hollow Stem Augers HAMMER TYPE Automatic

STRUCT. NO. 016-W970  
Station  
BORING NO. R-10  
Northing 1810100.6, Sta. 1513+42.13  
Easting 1115076.5, Offset 11.63' LT.  
Ground Surface Elev. 690.6

DEPTH (ft)	BLOW COUNT (blows/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (blows/6")	UCS (tsf)	MOISTURE (%)
0				Surface Water Elev. n/a	0			
0				Stream Bed Elev. n/a	0			
				Groundwater Elevation: First Encounter 637.1				
				Upon Completion n/a				
				After Hrs.				
689.6				CLAY-dark brown & gray-medium stiff (A-7) Wet	689.6			
10					2			115
4				CLAY LOAM-brown & gray spotted black-very stiff (A-6) Fill	5			
4	2.5P	21			5	1.9B	17	
687.1								
4				CLAY-gray-stiff to hard (A-6)	2			114
3					3			
-5	2	0.5P	27	CLAY-brown & gray-soft to medium stiff (A-6) Fill, Wet	-25	6	1.9B	17
2					2			108
2					4			
4	0.5P	24			7	4.6B	19	
2					2			111
2					6			
-10	3	1.5P	24		-30	9	3.1B	19
679.6								
3				CLAY-brown & gray-hard (A-6) Fill				109
5					5			
5	4.25B	19			5			116
677.1								
3				CLAY-brown & gray-soft to medium stiff (A-6) Fill, Wet	5			116
2					8			
-15	3	0.9B	26		-35	10	2.7B	17
1								
3								104
4	0.9B	23						
672.1								
2				CLAY-dark brown & gray-medium stiff (A-7) Wet	4			125
3					7			
-20	3	0.5B	38		-40	9	2.8B	13

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ROUTE IL Route 7 DESCRIPTION Retaining Wall  
TWNShP Orland LOCATION Township 36 N Range 12 E Orland Park, IL  
COUNTY Cook DRILLING METHOD 4.0" Hollow Stem Augers HAMMER TYPE Automatic

STRUCT. NO. 016-W970  
Station  
BORING NO. R-10  
Northing 1810100.6, Sta. 1513+42.13  
Easting 1115076.5, Offset 11.63' LT.  
Ground Surface Elev. 690.6

DEPTH (ft)	BLOW COUNT (blows/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (blows/6")	UCS (tsf)	MOISTURE (%)
0				Surface Water Elev. n/a	0			
0				Stream Bed Elev. n/a	0			
				Groundwater Elevation: First Encounter 637.1				
				Upon Completion n/a				
				After Hrs.				
646.6				CLAY-gray-stiff to hard (A-6)	646.6	7	126	
4					4			627.1
4				CLAY-gray-very stiff (A-6)				
645.6								
-45	12	NP	12	SAND-gray-medium dense (A-3)	-65	6	NP	11
687.4								
2				SILTY LOAM-gray-loose to medium dense (A-4)				
1								
3					3			124
7					7			
-50	11	3.5B	13		-70	7	NP	24
615.6								
9	3.5P	12		CLAY-gray-very stiff (A-6)	-55	9	3.5P	12
4								
7								
-15	1	0.5P	30		-15	1	0.5P	30
677.4								
3								
4								
3	2.7B	23						
674.9								
1								
2								
-20	3	0.4B	25		-20	3	0.4B	25

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SOIL BORING LOG

PAGE 1 of 2  
DATE September 20, 2004  
LOGGED BY TOB  
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-11  
Northing 1810160.1, Sta. 1514+18.34  
Easting 1115124.2, Offset 13.74' LT.  
Ground Surface Elev. 693.4

DEPTH (ft)	BLOW COUNT (blows/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (blows/6")	UCS (tsf)	MOISTURE (%)
0				Surface Water Elev. n/a	0			
0				Stream Bed Elev. n/a	0			
				Groundwater Elevation: First Encounter n/a				
				Upon Completion n/a				
				After Hrs.				
692.4				TOPSOIL with Stone (Fill)	692.4			
4					1			87
6	3.5P	21		CLAY-dark gray-soft (A-7) Wet	1			
669.9					2	0.4B	34	
3								
3					1			104
-5	3	1.1B	24		3			
687.4					-25	4	0.9B	23
2				CLAY-brown & gray-medium stiff to stiff (A-6)				
1					3			112
3	0.5P	27			3			
664.9					4	1.8B	19	
3				CLAY-brown & gray spotted black-medium stiff (A-6) Fill, Wet	3			111
1					4			
-10	2	-	17		-30	6	2.3B	22
2								
1								
1	0.5P	26		CLAY-gray-stiff to very stiff (A-6)				
677.4								
2								
1								
-15	1	0.5P	30		-35	7	2.1B	20
677.4								
3								
4				CLAY-brown & gray-very stiff (A-6) Fill				
3	2.7B	23						
674.9								
1								
2								
-20	3	0.4B	25	CLAY-brown & gray-soft (A-6) Fill, Wet	5			110
					7			
-40	8	2.1B	19		-40	8	2.1B	19

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

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

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

**B** Bollinger, Lach & Associates, Inc.

SOIL BORING LOGS R-10 & R-11  
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