

Illinois Department of Transportation
Division of Highways
Applied Technologies, Inc.

SOIL BORING LOG

Page 1 of 2
Date 2/28/10

ROUTE I, Route 68 DESCRIPTION Dundee Road over Wheeling Drainage Ditch LOGGED BY MG
SECTION 105-1415-1-MFT LOCATION FAP Route 343, SEC., TWP., RNG.
COUNTY Cook DRILLING METHOD Mud Rotary HAMMER TYPE Manual

STRUCT. NO. Station	D E P T H S	B L O W S	U C S	M O I S T U R E	Surface Water Elev. Stream Bed Elev.	ft	D E P T H S	B L O W S	U C S	M O I S T U R E	ft
016-2302 119+44											
BORING NO. SB-1 Station 118+97.54 Offset 8.5781 ft Ground Surface Elev. 646.14 ft											
6' Asphalt over 7" concrete											
Silty clay & sand, some small gravel, dark gray, stiff (FLL)	10	1.5					10	2.5			
Encountered refusal at 6. Moved boring 8' South & 4' West											
Silty clay & sand, some small gravel, trace brick, dark gray & brown, medium dense (FLL)	15	1.5					15	2.0			
Silty clay & sand, some small gravel, trace brick, dark gray & brown, medium dense (FLL)	19	1.5					19	4.0			
Fine to coarse sand, some fine gravel, trace silt, brown, dense (SW)	24	1.5					24	4.0			
Gravel & sand, some silt, gray, dense (GW-SW)	22						22				
Gravel, gray, wet, dense (GW)	23						23				
Coarse sand, gray, medium dense (SW)	16						16				
Silty clay, gray, very stiff (CL)	11	2.0					11	4.5			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

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SECTION 105-1415-1-MFT LOCATION FAP Route 343, SEC., TWP., RNG.
COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Manual

STRUCT. NO. Station	D E P T H S	B L O W S	U C S	M O I S T U R E	Surface Water Elev. Stream Bed Elev.	ft	D E P T H S	B L O W S	U C S	M O I S T U R E	ft
016-2302 119+44											
BORING NO. SB-2 Station 119+86.37 Offset 19.4181 ft Ground Surface Elev. 646.15 ft											
6' Asphalt over 7" concrete											
Silty clay, some small gravel & sand, gray, medium stiff (FLL)	8	2.0	18.3				8	2.8	25.2		
Silty clay & sand, trace wood, gray, wet FLL	9						9				
Fine to medium sand & gravel, gray, moist, medium dense	17		13.2				17				
Fine to coarse sand, trace stone & clay, gray, moist to wet, medium dense to dense (SW-SP)	8		12.6				8		15.4		
Silt, gray, dense (ML)	13		5.2				13				
Silty fine to coarse sand, trace fine gravel, gray, wet, medium dense (SW)	13	15.6					13	15.6			
Silty clay, gray, very stiff (CL)	23	2.0	24.1				23	2.0	24.1		
Silt, gray, dry, medium dense (ML)	7	2.5	20.3				7	2.5	20.3		

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016-2302 119+44											
BORING NO. SB-3 Station 119+92.15 Offset 40.7281 ft Ground Surface Elev. 646.59 ft											
Fine to medium sand, some gravel, dark brown, moist medium dense to loose (FLL)	10	6.5					10	6.5			
Silty clay, gray, stiff (CL)	4						4				
Silty clay, trace stone, gray, very stiff (CL)	3	8.0					3	8.0			
Fine to medium sand, trace stone, dark brown, moist, loose (FLL)	4	5.9					4	5.9			
Silt & gravel, wet, dense (SW)	3		18.6				3		18.6		
Silty clay, some organic at 5', some wood & large gravel, moist, dense (FLL)	37	14.1					37	14.1			
Fine to coarse sand & fine gravel, brown, wet, loose to medium dense (SW-GW)	3		19.0				3		19.0		
Silt, some clay, gray, wet, very dense (ML)	6	16.5					6	16.5			
Gravel & sand, brown, wet, loose (GP-SW)	5						5				
Silt & fine sand, gray, wet, very dense (ML)	4	11.9					4	11.9			
Silt & fine sand, gray, wet, very dense (ML)	8	13.1					8	13.1			

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016-2302 119+44											
BORING NO. SB-4 Station 119+93.05 Offset 45.4381 ft Ground Surface Elev. 645.33 ft											
Topsoil, silty clay, trace roots, gravel & brick, dark gray, very stiff (FLL)	4	2.5	18.4				4	2.5	18.4		
Silty clay, some stone, trace roots, dark gray, wet, soft (FLL)	2						2				
Silty clay, some stone with silt & sand layers, gray, stiff	3	32.7					3	32.7			
Clayey silt, some stone, gray, very stiff	3		28.8				3		28.8		
Sand & stone, some clay, trace organic, dark gray, wet, loose (FLL)	3		15.1				3		15.1		
Sandy clay & stone, trace organic, wet, dark gray, loose (FLL)	2		22.6				2		22.6		
Silty clay, some organic, trace sand, dark gray, soft	2	0.8	20.5				2	0.8	20.5		
Silty clay, some stone, trace organic & sand, dark gray, wet, medium stiff	4		24.7				4		24.7		
Sand, some stone & silt, dark gray, medium dense	3		24.4				3		24.4		

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016-2302 119+44											
BORING NO. SB-1 Station 118+97.54 Offset 8.5781 ft Ground Surface Elev. 646.14 ft											
Silty clay, trace gravel, gray, hard (ML-CL)	9	4.5					9	4.5			
Gravel with limestone pieces, some silt & clay, gray, very dense (GP)	37						37				
End of Boring	50						50				

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016-2302 119+44											
BORING NO. SB-2 Station 119+86.37 Offset 19.4181 ft Ground Surface Elev. 646.15 ft											
Silty sand, gray, wet, medium dense (ML-SM) (continued)	19		20.2				19		20.2		
Silt, one large stone, gray, wet, dense (ML)	32		22.7				32		22.7		
Coarse sand, some stone, gray, wet, medium dense (SW)	10		14.0				10		14.0		
Fine gravel & coarse sand, gray, wet, dense (SW)	12		13.6				12		13.6		

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016-2302 119+44											
BORING NO. SB-3 Station 119+92.15 Offset 40.7281 ft Ground Surface Elev. 646.59 ft											
Silt & fine sand, gray, wet, very dense (ML) (continued)	36		21.5				36		21.5		
Silt & stone, trace clay, gray, wet, very dense (ML)	7		16.9				7		16.9		
Gravel & coarse sand, gray, wet, medium dense (GW-SW)	50		16.3				50		16.3		
Auger Refusal End of Boring	50						50				

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016-2302 119+44											
BORING NO. SB-4 Station 119+93.05 Offset 45.4381 ft Ground Surface Elev. 645.33 ft											
Sand, silt & gravel, gray, wet, dense	22		14.3				22		14.3		
Refusal to auger drilling End of Boring	50						50				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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