STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG

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

Page 1 of 1

Date 4/13/10

ROUTE IL Route 56 DESCRIPTION Butterfield Rd (Winfield Rd to Naperville Rd) LOGGED BY MG

SECTION (57+58) WRS-2 LOCATION Butterfield Road, SEC. 30, TWP. 39N, RNG. 10E

COUNTY DuPage DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO.
Station
BORING NO. NW-12
Station 307+77.31
Offset 63.00ft LT
Ground Surface Elev. 746.62 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 735.6 ft ▼
Upon Completion 729.6 ft ▽
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Topsoil & silty clay, dark gray	745.62				30.8
Silty clay, some topsoil, dark gray, stiff	743.62		3		
			4	1.8	28.9
			5		
Silt & fine sand, some clay, trace stone, brown-gray, loose	740.62		2		
			3		25.6
		-5	3		
Silty clay, trace gravel, dark brown, stiff	738.62		4		
			2	1.8	18.9
			10		
Silty clay, trace gravel, gray, very stiff			5		
			9	2.1	12.6
		-10	12		
▼			4		
			7	2.0	15.9
			7		
	732.62		4		
Silt & fine sand, trace clay & gravel, gray, wet, medium dense			7		
		-15	9		
			3		
▽			5		24.0
			8		
	728.62				
Silty loam, gray, very stiff			3		
			4	2.2	19.4
		-20	7		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Silty loam, gray, very stiff *(continued)*	725.62				
Silty clay, trace gravel, gray, very stiff			4		
			8	2.2	17.4
			17		
	722.62		8		
Silty clay loam, gray, wet, medium stiff			12	0.8	20.2
		-25	14		
	718.62				
Fine to coarse sand, some silt & gravel, gray, medium dense			5		
			10		23.2
	716.62	-30	14		
End of Boring					
		-35			
		-40			

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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COUNTY DuPage DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO.
Station
BORING NO. NW-13
Station 310.82.23
Offset 61.20ft LT
Ground Surface Elev. 745.18 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 725.7 ft ▼
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Silt & clay, dark brown	744.18				
Silty loam, trace gravel & organic, brown-gray, stiff (FILL)			2		
			3	1.8	24.4
			4		
Silty clay, some stone, brown, hard	741.68		5		
			6	4.2	18.3
		-5	7		
Silty clay, trace gravel, brown-gray, hard	739.68		5		
			7	4.9	17.3
			10		
Silty clay, trace gravel, brown-gray, stiff	737.18		9		
			11	1.8	20.4
		-10	15		
Silty clay, trace gravel, brown-gray, hard	734.68		5		
			7	4.6	17.2
			11		
Sandy loam, some gravel, gray-brown, very stiff	732.18		5		
			6	2.4	16.9
		-15	7		
			17		
			24	3.2	17.1
			33		
	726.18		7		
Silt & fine sand, trace gravel, gray, wet, medium dense ▼			13	2.3	18.0
		-20	14		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Silt & fine sand, trace gravel, gray, wet, medium dense *(continued)*					
			11		
			13		19.7
			14		
	722.18				
Silty clay, trace gravel, gray, very stiff			11		
			13	3.8	18.7
		-25	19		
	716.18		13		
Silt loam, trace gravel, gray, moist, dense			19		21.3
	715.18	-30	47		
End of Boring					
		-35			
		-40			

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SECTION (57+58) WRS-2 LOCATION Butterfield Road, SEC. 30, TWP. 39N, RNG. 10E

COUNTY DuPage DRILLING METHOD Hollow Stem Auger HAMMER TYPE Auto

STRUCT. NO.
Station
BORING NO. NW-14
Station 313+81.61
Offset 68.49ft LT
Ground Surface Elev. 743.93 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 729.9 ft ▼
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Topsoil, trace roots, dark brown	742.93				
Silty clay, trace topsoil, dark brown, stiff			3		
			3	1.3	30.8
			5		
Silty loam, trace sand, brown-gray, medium stiff	740.93		2		
			2	0.8	27.3
		-5	2		
Silty clay, gray-brown, soft	737.43		2		
			3	0.3	32.0
			3		
Silty clay with silt layers, brown & gray, stiff to medium stiff	736.43				
			3		
			4	1.8	23.7
		-10	4		
			3		
			2	0.8	26.3
			3		
Silty clay with sand seams & with silt layer, gray, medium stiff ▼	730.93		2		
			3	0.7	29.1
	728.93	-15	4		
Fine to coarse sand, some fine gravel & clay, gray, wet, medium dense			4		
			7		15.3
			6		
	724.93		5		
Silty clay, trace gravel, gray, very stiff to hard		-20	9	3.8	17.0
			12		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Silty clay, trace gravel, gray, very stiff to hard *(continued)*					
			5		
			7	6.2	15.3
			11		
			6		
			9	7.7	14.5
		-25	16		
	715.93				
Silty clay, trace gravel, gray, very stiff			5		
			9	3.1	17.3
	713.93	-30	12		
End of Boring					
		-35			
		-40			

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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)

DESIGNED	RJT
CHECKED	MRB
DRAWN	MB
CHECKED	MRB

benesch

alfred benesch & company
Engineers • Surveyors • Planners
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 3733

SOIL BORING LOGS 4 OF 10
NOISE ABATEMENT WALL

SHEET NO. N24	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	365	(57 & 58)WRS-2	DUPAGE	681	423
N30 SHEETS			CONTRACT NO. 62419		
		ILLINOIS	FED. AID PROJECT		

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