STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SOIL BORING LOG

Page 1 of 1

Date 4/14/10

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-15
Station 316+81.88
Offset 68.50ft LT
Ground Surface Elev. 742.82 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 726.3 ft ▼
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Topsoil, sandy loam, black	741.82				
Silty clay, trace gravel, brown trace black, stiff (FILL)			3		
			3	1.1	28.8
			4		
	738.82		4		
Silty loam, some gravel, reddish brown, medium dense			4		23.4
		-5	5		
	736.82				
Silty clay, trace gravel, brown-gray, hard			6		
			8	4.9	17.8
			12		
			6		
			10	4.0	16.2
	732.82	-10	13		
Silty clay, some gravel, gray, very stiff to stiff			6		
			8	3.8	9.9
			9		
			7		
			11	1.9	23.0
Limestone pieces at 14.5 to 15 feet		-15	9		
	726.32		3		
Medium sand, gray, wet, medium dense			4		20.0
			4		
	724.82				
Silty clay, trace gravel, gray, stiff			3		
			5	1.7	15.5
		-20	6		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Silty clay, trace gravel, gray, stiff *(continued)*					
			3		
			4	1.0	21.2
			5		
			4		
			5	1.8	21.1
		-25	7		
			5		
Silty sand layer at 29 feet			7	1.8	17.7
	712.82	-30	9		
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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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-16
Station 319+82.73
Offset 62.85ft LT
Ground Surface Elev. 744.02 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 728.0 ft ▼
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Topsoil & silty clay, trace roots, dark brown	743.02				29.3
Silty clay, trace roots & topsoil, dark brown, stiff			3		
			4	1.4	28.3
			5		
	740.52				
Silty clay, trace gravel, brown, hard			2		
			5	4.6	19.0
		-5	7		
			4		
			7	4.6	17.1
			11		
			7		
			7	4.6	16.9
	734.02	-10	10		
Silty clay, trace gravel & sand seams, gray, very stiff to stiff			5		
			6	3.7	18.9
			8		
			3		
			5	1.9	25.6
	729.02	-15	6		
Fine to coarse sand, some silt & clay, gray, moist to wet, medium dense			5		
			7		15.0
			11		
			8		
			9		15.7
		-20	11		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Fine to coarse sand, some silt & clay, gray, moist to wet, medium dense *(continued)*			11		
			16		14.8
			10		
	721.02				
Silty clay, some stone, gray, very stiff			6		
			8	3.9	12.8
		-25	10		
			4		
			7	3.4	15.1
	714.02	-30	8		
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-17
Station 322+34.07
Offset 56.20ft LT
Ground Surface Elev. 744.88 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 723.9 ft ▼
Upon Completion 725.9 ft ▽
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Topsoil, trace roots, black	743.88				25.8
Silty clay, trace stone & organic, dark brown, very stiff to medium stiff			3		
			4	2.4	15.0
			4		
			2		
			7	0.6	21.6
	739.88	-5	2		
Silty clay, trace gravel, brown-gray, hard to very stiff			4		
			5	4.9	17.2
			7		
			4		
			7	5.1	20.3
		-10	10		
			4		
			7	3.6	20.6
			10		
	731.88				
Weathered limestone, light gray, moist, medium dense			7		
			8		8.5
		-15	10		
	726.88				
Fine to medium sand, trace gravel, brown, moist to wet, medium dense			7		
			9		18.7
			10		
	726.88				
Sandy loam, trace gravel, brown, wet, medium dense			5		
			7		17.9
		-20	8		

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Sandy loam, trace gravel, brown, wet, medium dense *(continued)*	723.88 ▼				
Silty loam & fine to coarse gravel, gray, wet, medium dense			5		
			7		19.1
			9		
	721.88				
Stone & coarse sand, gray, wet, medium dense					
			10		
			10		10.2
		-25	10		
	718.88				
Coarse sand & grave, gray, wet, medium dense					
			4		
			7		16.0
	714.88	-30	9		
End of Boring					
		-35			
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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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 5 OF 10
NOISE ABATEMENT WALL

SHEET NO. N25	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	365	(57 & 58)WRS-2	DUPAGE	681	424
N30 SHEETS			CONTRACT NO. 62419		
		ILLINOIS	FED. AID PROJECT		

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