Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Date 6/21/21

ROUTE IL 154 **DESCRIPTION** Shoulder investigation for guardrail posts **LOGGED BY** L. Estel

SECTION 112RS-5 **LOCATION** Causeway over Rend Lake, **SEC.** 14, **TWP.** 5S, **RNG.** 2E, 3 **PM**

COUNTY Franklin **DRILLING METHOD** Hollow Stem Auger (8" O.D., 3.25" I.D.) **HAMMER TYPE** Auto SPT 140 lbs

STRUCT. NO.
Station

BORING NO. 1-B
Station 281+85
Offset 17.0ft Lt
Ground Surface Elev. ft

Surface Water Elev. ft
Stream Bed Elev. ft

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

Description	DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
Stiff Brown, Moist CLAY		1		
		1 3	1.5 B	26
	-5	1		
		4 4	1.0 B	22
V. Stiff Brown, Moist CLAY		1		
		4 4	2.6 B	21
	-10			
	-15			
Bottom of hole @ 8.5 ft No Free Water Encountered Hammer efficiency = 86.5% To Convert "N" value to "N60", multipy by 1.44	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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)

File Name S:\MATERIALS GEOTECHNICAL UNIT\GINT\PROJECTS\PROJECTS FILE\FRANKLIN\POINT LOCATIONS\78898 IL 154 OVER RENDLAKECAUSEWAY GUARDRAIL POSTS INV.GPJ Data Template D6TEMPLT.GDT Date Printed 7/6/21
Latitude 38 05 22.46 Longitude -88 57 25.12 Datum NAD83 Job Number

Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Date 6/21/21

ROUTE IL 154 **DESCRIPTION** Shoulder investigation for guardrail posts **LOGGED BY** L. Estel

SECTION 112RS-5 **LOCATION** Causeway over Rend Lake, **SEC.** 15, **TWP.** 5S, **RNG.** 2E, 3 **PM**

COUNTY Franklin **DRILLING METHOD** Hollow Stem Auger (8" O.D., 3.25" I.D.) **HAMMER TYPE** Auto SPT 140 lbs

STRUCT. NO.
Station

BORING NO. 2-B
Station 242+45
Offset 16.0ft Lt
Ground Surface Elev. ft

Surface Water Elev. ft
Stream Bed Elev. ft

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

Description	DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
Stiff Brown, Moist CLAY		2		
		3 2	1.5 B	20
	-5	1		
		2 3	1.0 B	20
		1		
		2 3	1.0 B	23
	-10			
	-15			
Bottom of hole @ 8.5 ft No Free Water Encountered Hammer efficiency = 86.5% To Convert "N" value to "N60", multipy by 1.44	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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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Latitude 38 05 23.19 Longitude -88 58 16.98 Datum NAD83 Job Number

Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Date 6/21/21

ROUTE IL 154 **DESCRIPTION** Shoulder investigation for guardrail posts **LOGGED BY** L. Estel

SECTION 112RS-5 **LOCATION** Causeway over Rend Lake, **SEC.** 15, **TWP.** 5S, **RNG.** 2E, 3 **PM**

COUNTY Franklin **DRILLING METHOD** Hollow Stem Auger (8" O.D., 3.25" I.D.) **HAMMER TYPE** Auto SPT 140 lbs

STRUCT. NO. _____
Station _____

BORING NO. 3-B
Station 223+45
Offset 16.0ft Lt
Ground Surface Elev. _____ ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After _____ **Hrs.** _____ ft

Description	DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
V. Stiff Brown and Grey, Moist CLAY		1 4 4	2.0 B	18
Hard Brown and Grey, Moist CLAY	-5	1 4 7	5.3 B	15
V. Stiff Brown and Grey, Moist CLAY		1 4 6	3.7 B	14
	-10			
	-15			
Bottom of hole @ 8.5 ft No Free Water Encountered Hammer efficiency = 86.5% To Convert "N" value to "N60", multipy by 1.44	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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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Latitude 38 05 23.45 Longitude -88 58 37.80 Datum NAD83 Job Number

Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Date 6/21/21

ROUTE IL 154 **DESCRIPTION** Shoulder investigation for guardrail posts **LOGGED BY** L. Estel

SECTION 112RS-5 **LOCATION** Causeway over Rend Lake, **SEC.** 15, **TWP.** 5S, **RNG.** 2E, 3 **PM**

COUNTY Franklin **DRILLING METHOD** Hollow Stem Auger (8" O.D., 3.25" I.D.) **HAMMER TYPE** Auto SPT 140 lbs

STRUCT. NO.
Station

BORING NO. 4-B
Station 201+85
Offset 18.0ft Lt
Ground Surface Elev. ft

Surface Water Elev. ft
Stream Bed Elev. ft

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

Description	DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
Stiff Brown and Grey, Moist CLAY		3		
		4 3	1.0 B	18
V. Stiff Brown, Moist CLAY	-5	1		
		4 5	2.2 B	16
		1		
		5 6	2.6 B	16
	-10			
	-15			
Bottom of hole @ 8.5 ft No Free Water Encountered Hammer efficiency = 86.5% To Convert "N" value to "N60", multipy by 1.44	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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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Latitude 38 05 23.71 Longitude -88 59 02.84 Datum NAD83 Job Number

Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Date 6/21/21

ROUTE IL 154 **DESCRIPTION** Shoulder investigation for guardrail posts **LOGGED BY** L. Estel

SECTION 112RS-5 **LOCATION** Causeway over Rend Lake, **SEC.** 15, **TWP.** 5S, **RNG.** 2E, 3 **PM**

COUNTY Franklin **DRILLING METHOD** Hollow Stem Auger (8" O.D., 3.25" I.D.) **HAMMER TYPE** Auto SPT 140 lbs

STRUCT. NO. _____
Station _____

BORING NO. 5-B
Station 207+35
Offset 18.0ft Rt
Ground Surface Elev. _____ ft

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After _____ **Hrs.** _____ ft

Description	DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
Hard Brownish Red and Grey, Moist SILTY CLAY LOAM		1		
		5 6	4.3 B	13
	-5	2		
		4 6	4.3 B	14
		1		
		4 6	5.9 B	15
	-10			
	-15			
Bottom of hole @ 8.5 ft No Free Water Encountered Hammer efficiency = 86.5% To Convert "N" value to "N60", multipy by 1.44	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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Latitude 38 05 23.34 Longitude -88 58 56.14 Datum NAD83 Job Number

Illinois Department of Transportation
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District 9

SOIL BORING LOG

Date 6/21/21

ROUTE IL 154 **DESCRIPTION** Shoulder investigation for guardrail posts **LOGGED BY** L. Estel

SECTION 112RS-5 **LOCATION** Causeway over Rend Lake, **SEC.** 15, **TWP.** 5S, **RNG.** 2E, 3 **PM**

COUNTY Franklin **DRILLING METHOD** Hollow Stem Auger (8" O.D., 3.25" I.D.) **HAMMER TYPE** Auto SPT 140 lbs

STRUCT. NO.
Station

BORING NO. 6-B
Station 230+45
Offset 18.0ft Rt
Ground Surface Elev. ft

Surface Water Elev. ft
Stream Bed Elev. ft

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

Description	DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
V. Stiff Grey, Moist SILTY CLAY		1		
		3 5	2.9 B	16
Stiff Brown, Moist SILTY CLAY	-5	1		
		3 5	1.7 B	18
V. Stiff Grey, Moist SILTY CLAY		1		
		6 7	2.9 B	16
	-10			
	-15			
Bottom of hole @ 8.5 ft				
No Free Water Encountered				
Hammer efficiency = 86.5% To Convert "N" value to "N60", multipy by 1.44				
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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Latitude 38 05 22.98 Longitude -88 58 30.39 Datum NAD83 Job Number

Illinois Department of Transportation
Division of Highways
District 9

SOIL BORING LOG

Date 6/21/21

ROUTE IL 154 **DESCRIPTION** Shoulder investigation for guardrail posts **LOGGED BY** L. Estel

SECTION 112RS-5 **LOCATION** Causeway over Rend Lake, **SEC.** 14, **TWP.** 5S, **RNG.** 2E, 3 **PM**

COUNTY Franklin **DRILLING METHOD** Hollow Stem Auger (8" O.D., 3.25" I.D.) **HAMMER TYPE** Auto SPT 140 lbs

STRUCT. NO.
Station

BORING NO. 7-B
Station 254+95
Offset 18.0ft Rt
Ground Surface Elev. ft

Surface Water Elev. ft
Stream Bed Elev. ft

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

	DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
V. Stiff Brown and mottled Grey, Moist SILTY CLAY LOAM		1		
		2 4	2.0 B	15
Stiff Brown, Moist SILTY CLAY	-5	1		
		2 4	1.4 B	19
V. Stiff Brown, Moist SILTY CLAY		1		
		2 4	2.0 B	19
	-10			
	-15			
Bottom of hole @ 8.5 ft				
No Free Water Encountered				
Hammer efficiency = 86.5% To Convert "N" value to "N60", multipy by 1.44				
	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
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Latitude 38 05 22.56 Longitude -88 57 58.80 Datum NAD83 Job Number

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District 9

SOIL BORING LOG

Date 6/21/21

ROUTE IL 154 **DESCRIPTION** Shoulder investigation for guardrail posts **LOGGED BY** L. Estel

SECTION 112RS-5 **LOCATION** Causeway over Rend Lake, **SEC.** 14, **TWP.** 5S, **RNG.** 2E, 3 **PM**

COUNTY Franklin **DRILLING METHOD** Hollow Stem Auger (8" O.D., 3.25" I.D.) **HAMMER TYPE** Auto SPT 140 lbs

STRUCT. NO.
Station

BORING NO. 8-B
Station 286+60
Offset 18.0ft Rt
Ground Surface Elev. ft

Surface Water Elev. ft
Stream Bed Elev. ft

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

	DEPTH (ft)	BLOWS	UCS Qu (tsf)	MOIST (%)
V. Stiff Brown and Grey, Moist CLAY		1		
		3 5	2.6 B	17
M. Stiff Brown, Moist CLAY	-5	1		
		1 3	0.4 B	23
		1		
		1 3	0.6 B	19
	-10			
	-15			
Bottom of hole @ 8.5 ft No Free Water Encountered Hammer efficiency = 86.5% To Convert "N" value to "N60", multipy by 1.44	-20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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Latitude 38 05 22.04 Longitude -88 57 19.33 Datum NAD83 Job Number