

Rubino Job No.: G14.029  
 Project: Electrical Ground Grid  
 Location: 850 Equity Drive  
 City, State: St. Charles, Illinois  
 Client: City of St. Charles

Drilling Method: 2 1/4" Hollow Stem Auger  
 Sampling Method: Split Spoon  
 Hammer Type: CME Automatic  
 Boring Location: 850 Equity Drive  
 St. Charles, Illinois

WATER LEVELS	
▽ While Drilling	20 FT
▽ Upon Completion	20 FT
▽ Delay	N/A

Elevation (feet)	Depth (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	Station: N/A Offset: N/A	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA		Additional Remarks	
										Moisture, %	STRENGTH, tsf		
0							TOPSOIL: Black, brown and gray silty clay, with sand and gravel						
				1	18		Brown silty CLAY, trace sand and gravel; Stiff to very stiff	CL	4,16,9 N=25	19	×	○	7% Organic Content
				2	18				4,6,7 N=13	14	×	○	
5				3	18				4,4,5 N=9	17	○	×	
				4	18				3,5,7 N=12	16	○	×	
				5	18		Gray silty CLAY, trace sand and gravel; Stiff to very stiff	CL	3,5,8 N=13	15	○	×	
				6	18				4,5,7 N=12	16	○	×	
20				7	18				5,6,8 N=14	18	○	×	
				8	6		End of boring at 30 feet		6,9,12 N=21	12	×	○	

Completion Depth: 30.0 ft  
 Date Boring Started: 5/12/14  
 Date Boring Completed: 5/12/14  
 Logged By: BS  
 Drilling Contractor: Earth Solutions

Sample Types:

 Auger Cutting	 Shelby Tube
 Split-Spoon	 Hand Auger
 Rock Core	 Texas Cone

Latitude:  
 Longitude:  
 Drill Rig: Geo Probe  
 Remarks:

The stratification lines represent approximate boundaries. The transition may be gradual.

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 Sampling Method: Split Spoon  
 Hammer Type: CME Automatic  
 Boring Location: 850 Equity Drive  
 St. Charles, Illinois

WATER LEVELS	
▽ While Drilling	N/A
▽ Upon Completion	N/A
▽ Delay	N/A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	Station: N/A Offset: N/A	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA				Additional Remarks
										Moisture, %		STRENGTH, tsf		
0							TOPSOIL: Black, brown and gray silty clay, with sand and gravel							
				1	6				4,5,2 N=7	13	⊗			5% Organic Content
				2	12		Brown silty CLAY, trace sand and gravel; Medium stiff to stiff		2,3,3 N=6	28	⊗	⊗		6% Organic Content
5				3	12				4,6,8 N=14	16	⊗			
				4	12			CL	6,6,7 N=13	18	⊗	⊗		
10				5	12		Gray silty CLAY, trace sand and gravel; Very stiff		42,12,13 N=25	14	⊗	⊗		
15							End of boring at 15 feet. No free groundwater was encountered during drilling operations							

Completion Depth: 15.0 ft  
 Date Boring Started: 5/12/14  
 Date Boring Completed: 5/12/14  
 Logged By: BS  
 Drilling Contractor: Earth Solutions

Sample Types:

 Auger Cutting	 Shelby Tube
 Split-Spoon	 Hand Auger
 Rock Core	 Texas Cone

Latitude:  
 Longitude:  
 Drill Rig: Geo Probe  
 Remarks:

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 Sampling Method: Split Spoon  
 Hammer Type: CME Automatic  
 Boring Location: 850 Equity Drive  
 St. Charles, Illinois

WATER LEVELS	
▽ While Drilling	N/A
▼ Upon Completion	N/A
▽ Delay	N/A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	Station: N/A Offset: N/A	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA		Additional Remarks
										Moisture, %	Moisture, %	
0							TOPSOIL: Black, brown and gray silty clay, with sand and gravel					
				1	6		Brown and gray silty CLAY, trace sand and gravel; Medium stiff to stiff	CL	6,8,6 N=14	16	×	5% Organic Content
				2	12				2,2,5 N=7	22	○	
	5			3	18				3,4,6 N=10	15	○	
				4	18				3,4,6 N=10	16	○	
	10											
				5	12		Gray silty CLAY, trace sand and gravel; Stiff to very stiff		4,4,6 N=10	16	○	LL = 28 PL = 15
	15											
				6	12				5,7,8 N=15	15	○	
	20											
				7	18				4,5,7 N=12	13	○	
	25											
				8	6				6,6,8 N=14	11	○	
	30						End of boring at 30 feet. No free groundwater was encountered during drilling operations.					

Completion Depth: 30.0 ft  
 Date Boring Started: 5/12/14  
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Sample Types:

Auger Cutting	Shelby Tube
Split-Spoon	Hand Auger
Rock Core	Texas Cone

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 Longitude:  
 Drill Rig: Geo Probe  
 Remarks:

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WATER LEVELS	
▽ While Drilling	N/A
▼ Upon Completion	N/A
▽ Delay	N/A

Elevation (feet)	Depth (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	Station: N/A Offset: N/A	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA		Additional Remarks
										Moisture, %	Moisture, %	
0							TOPSOIL: Black, brown and gray silty clay, with sand and gravel					
				1	18		Brown and gray silty CLAY, trace sand and gravel; Stiff	CL	5,6,6 N=12	16	⊗	5% Organic Content
	5			2	18			CL	3,6,7 N=13	17	⊗	
				3	18			CL	3,4,5 N=9	17	⊗	
	10			4	18			CL	3,4,7 N=11	18	⊗	
	15			5	18		Gray silty CLAY, trace sand and gravel; Stiff to very stiff	CL	3,4,6 N=10	15	⊗	LL = 26 PL = 14
	20			6	18			CL	2,3,5 N=8	17	⊗	
	25			7	18			CL	4,5,6 N=11	13	⊗	
	30			8	6		End of boring at 30 feet. No free groundwater was encountered during drilling operations.		8,8,9 N=17	12	⊗	

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 Date Boring Completed: 5/12/14  
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Sample Types:

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	Split-Spoon		Hand Auger
	Rock Core		Texas Cone

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 Longitude:  
 Drill Rig: Geo Probe  
 Remarks:

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 Hammer Type: CME Automatic  
 Boring Location: 850 Equity Drive  
 St. Charles, Illinois

WATER LEVELS	
▽ While Drilling	N/A
▼ Upon Completion	N/A
▽ Delay	N/A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	Station: N/A Offset: N/A	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA		Additional Remarks
										Moisture, %	STRENGTH, tsf	
0							TOPSOIL: Black, brown and gray silty clay, with sand and gravel					
				1	12		Brown silty CLAY, trace sand and gravel; Stiff to very stiff		3,4,7 N=11	14	⊗	5% Organic Content
	5			2	18				4,5,23 N=28	17	⊗	
				3	6			CL	12,9,8 N=17	16	⊗	
	10			4	18				5,6,11 N=17	16	⊗	
				5	18		Gray silty CLAY, trace sand and gravel; Stiff	CL	5,6,8 N=14	15	⊗	
	15						End of boring at 15 feet. No free groundwater was encountered during drilling operations					

Completion Depth: 15.0 ft  
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 Remarks:

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▽ While Drilling	N/A
▼ Upon Completion	N/A
▽ Delay	N/A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	Station: N/A Offset: N/A	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA				Additional Remarks
										Moisture, %		STRENGTH, tsf		
0							TOPSOIL: Black, brown and gray silty clay, with sand and gravel							
				1	6		Brown silty CLAY, trace sand and gravel; Medium stiff	CL	2,3,3 N=6	22	⊗	×		5% Organic Content
				2	12			CL	3,3,4 N=7	20	⊗	×		
5				3	12			CL	4,3,5 N=8	15	⊗	×		
				4	12		Gray silty CLAY, trace sand and gravel; Stiff to very stiff	CL	10,9,10 N=19	14	⊗	×		
10								CL						
				5	18			CL	4,5,9 N=14	15	⊗	⊕		LL = 27 PL = 15
15							End of boring at 15 feet. No free groundwater was encountered during drilling operations							

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 Drill Rig: Geo Probe  
 Remarks:

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▽ While Drilling	N/A
▼ Upon Completion	N/A
▽ Delay	N/A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	Station: N/A Offset: N/A	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA				Additional Remarks	
										Moisture, %		STRENGTH, tsf			
0							TOPSOIL: Black, brown and gray silty clay, with sand and gravel								
				1	6				3,4,7 N=11	20	⊗	⊗			5% Organic Content
				2	12		Brown and gray silty CLAY, trace sand and gravel; Stiff		3,5,5 N=10	17	⊗	⊗			
5				3	12				3,5,6 N=11	17	⊗	⊗			
				4	18			CL	5,6,8 N=14	17	⊗	⊗			
10				5	18		Gray silty CLAY, trace sand and gravel; Very stiff		9,9,11 N=20	16	⊗	⊗			
15							End of boring at 15 feet No free groundwater was encountered during drilling operations								

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	Rock Core		Texas Cone

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 Longitude:  
 Drill Rig: Geo Probe  
 Remarks:

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▽ While Drilling	N/A
▽ Upon Completion	N/A
▽ Delay	N/A

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	Station: N/A Offset: N/A	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA		Additional Remarks
										Moisture, %	Moisture, %	
0							TOPSOIL: Black, brown and gray silty clay, with sand and gravel					
				1	6		Brown silty CLAY, trace sand and gravel; Stiff to very stiff		3,4,7 N=11	19	⊗	5% Organic Content
				2	6			CL	11,7,8 N=15	16	⊗	
5				3	12				4,6,13 N=19	17	⊗	
				4	18		Gray silty CLAY, trace sand and gravel; Stiff to very stiff		10,6,8 N=14	16	⊗	
10												
				5	18			CL	4,7,8 N=15	15	⊕	LL = 28 PL = 14
15							End of boring at 15 feet No free groundwater was encountered during drilling operations					

Completion Depth: 15.0 ft  
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Sample Types:

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Split-Spoon	Hand Auger
Rock Core	Texas Cone

Latitude:  
 Longitude:  
 Drill Rig: Geo Probe  
 Remarks:

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WATER LEVELS	
▽ While Drilling	N/A
▼ Upon Completion	N/A
▽ Delay	N/A

Elevation (feet)	Depth (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	Station: N/A Offset: N/A	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA		Additional Remarks
										Moisture, %	Moisture, %	
0							TOPSOIL: Black, brown and gray silty clay, with sand and gravel					
				1	12		Brown silty CLAY, trace sand and gravel; Stiff to very stiff	CL	3,4,8 N=12	26	⊗	4% Organic Content
	5			2	18				5,8,8 N=16	14	⊗	
				3	18				4,6,8 N=14	16	⊗	
	10			4	18				5,7,10 N=17	16	⊗	
	15			5	18		Gray silty CLAY, trace sand and gravel; Stiff to very stiff		3,4,7 N=11	15	⊗	LL = 27 PL = 14
	20			6	18			CL	3,4,8 N=12	15	⊗	
	25			7	18				4,4,6 N=10	12	⊗	
	30			8	12		End of boring at 30 feet No free groundwater was encountered during drilling operations		12,16,11 N=27	11	⊗	

Completion Depth: 30.0 ft  
 Date Boring Started: 5/12/14  
 Date Boring Completed: 5/12/14  
 Logged By: BS  
 Drilling Contractor: Earth Solutions

Sample Types:

	Auger Cutting		Shelby Tube
	Split-Spoon		Hand Auger
	Rock Core		Texas Cone

Latitude:  
 Longitude:  
 Drill Rig: Geo Probe  
 Remarks:

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 Sampling Method: Split Spoon  
 Hammer Type: CME Automatic  
 Boring Location: 850 Equity Drive  
 St. Charles, Illinois

WATER LEVELS	
▽ While Drilling	9 FT
▽ Upon Completion	9 FT
▽ Delay	N/A

Elevation (feet)	Depth (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	Station: N/A Offset: N/A	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA				Additional Remarks
										Moisture, %		STRENGTH, tsf		
0							TOPSOIL: Black, brown and gray silty clay, with sand and gravel							
				1	3		Gray silty CLAY, trace sand and gravel; Medium stiff	CL	1,2,2 N=4	14	⊗			5% Organic Content
	5			2	12			CL	2,3,4 N=7	29	⊗	⊗		3% Organic Content
				3	6			CL	2,3,4 N=7	29	⊗	⊗		2% Organic Content
	10			4	12		Brown silty CLAY, trace sand and gravel; Stiff	CL	4,4,4 N=8	19	⊗	⊗		
	15			5	18		Gray silty CLAY, trace sand and gravel; Stiff	CL	5,6,8 N=14	16	⊗	⊗		
							End of boring at 15 feet							

Completion Depth: 15.0 ft  
 Date Boring Started: 5/12/14  
 Date Boring Completed: 5/12/14  
 Logged By: BS  
 Drilling Contractor: Earth Solutions

Sample Types:

	Auger Cutting		Shelby Tube
	Split-Spoon		Hand Auger
	Rock Core		Texas Cone

Latitude:  
 Longitude:  
 Drill Rig: Geo Probe  
 Remarks:

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Rubino Job No.: G14.029	Drilling Method: 2 1/4" Hollow Stem Auger	<b>WATER LEVELS</b>	
Project: Electrical Ground Grid	Sampling Method: Split Spoon	▽ While Drilling	N/A
Location: 850 Equity Drive	Hammer Type: CME Automatic	▼ Upon Completion	N/A
City, State: St. Charles, Illinois	Boring Location: 850 Equity Drive	▼ Delay	N/A
Client: City of St. Charles	St. Charles, Illinois		

Elevation (feet)	Depth, (feet)	Graphic Log	Sample Type	Sample No.	Recovery (inches)	Station: N/A Offset: N/A	MATERIAL DESCRIPTION	USCS Classification	SPT Blows per 6-inch (SS)	STANDARD PENETRATION TEST DATA				Additional Remarks
										Moisture, %		STRENGTH, tsf		
0							TOPSOIL: Black, brown and gray silty clay, with sand and gravel							
				1	12				1,3,4 N=7	29	⊗	×		5% Organic Content
				2	18		Brown silty CLAY, trace sand and gravel; Stiff		2,3,5 N=8	19	⊗	×		
5				3	18				2,2,5 N=7	19	⊗	×		
				4	18			CL	4,6,7 N=13	15	⊗	×		
10				5	18		Gray silty CLAY, trace sand and gravel; Stiff		4,4,7 N=11	14	⊗	×		
15							End of boring at 15 feet No free groundwater was encountered during drilling operations							

Completion Depth: 15.0 ft	Sample Types:	Latitude:
Date Boring Started: 5/12/14	Auger Cutting	Longitude:
Date Boring Completed: 5/12/14	Split-Spoon	Drill Rig: Geo Probe
Logged By: BS	Rock Core	Remarks:
Drilling Contractor: Earth Solutions	Shelby Tube	
	Hand Auger	
	Texas Cone	

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