

Project ID: <u>S-058-2024</u>		<u>Laurel - I-75 MP 24.6-24.7</u>			Project Type: <u>Structure State Bridge</u>			
Item Number: <u>11-0014.80</u>		<u>US 25W</u>			Project Manager: <u>Kyle Pauley</u>			
Hole Number <u>1022</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/28/2024</u>		Hole Type <u>core and sample</u>		
Surface Elevation <u>1165.1'</u>		Static Water Depth <u>NA</u>		End Date <u>10/28/2024</u>		Rig_Number <u>B-53</u>		
Total Depth <u>56.5'</u>		Driller <u>Cardwell, CJ</u>		Latitude(83) <u>36.917839</u>				
Location <u>1336+09.44 CL</u>				Longitude(83) <u>-84.129693</u>				
Lithology		Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth	Description	Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	
		Soft, brown, silty clay with sandstone fragments.						
5			SPT-1	4.0-5.5	1.1	1-5-5	SPT	5
1157.6	7.5							
10		Gray and brown, sandy silt with sandstone fragments.	SPT-2	9.0-10.5	1.3	3-6-5	SPT	10
1152.6	12.5							
15		Brown, silt with gray shale fragments.	SPT-3	14.0-15.5	1.1	2-2-2	SPT	15
1149.6	15.5							
		Brown, silty clay with black and gray shale fragments.	SPT-4	19.0-20.5	1.3	2-4-4	SPT	20
20								
1144.1	21.0							
		Brown, silty clay with sandstone fragments.	SPT-5	24.0-25.5	1.4	3-5-6	SPT	25
25								
1139.1	26.0							
		Brown, silty clay with black to dark gray silty shale fragments.	SPT-6	28.5-30.0	1.5	4-5-7	SPT	30
30		(Begin Core)						
1135.1	30.0	Brown sandstone, clayey.	0 / 0	1.5	0.4	27		31.5
1134.1	31.0							
		Gray shale, clayey.	0 / 0	5.0	0.6	12		35
35		Brown sandstone, weathered, (with brown clay).						
1128.6	36.5							36.5
		No recovery.	0 / 0	5.0	0.0	0		40
40								
1123.6	41.5							41.5
		Brown sandstone and gray shale, clayey.	0 / 0	5.0	0.9	18		45
45								
1118.6	46.5							46.5
		Brown and gray shale, weathered, clayey.	18 / 0	5.0	5.0	100		
1116.1	49.0							
50		Black shale, clayey, (with coal).						50

Project ID: <u>S-058-2024</u>		<u>Laurel - I-75 MP 24.6-24.7</u>			Project Type: <u>Structure State Bridge</u>				
Item Number: <u>11-0014.80</u>		<u>US 25W</u>			Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1022</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/28/2024</u>		Hole Type <u>core and sample</u>			
Surface Elevation <u>1165.1'</u>		Static Water Depth <u>NA</u>		End Date <u>10/28/2024</u>		Rig_Number <u>B-53</u>			
Total Depth <u>56.5'</u>		Driller <u>Cardwell, CJ</u>		Latitude(83) <u>36.917839</u>					
Location <u>1336+09.44 CL</u>				Longitude(83) <u>-84.129693</u>					
Lithology		Description	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
1113.6	51.5	Black shale, clayey, (with coal).		18 / 0	5.0	5.0	100		51.5
1108.6	56.5	Gray shale.		86 / 62	5.0	5.0	100		56.5
		(Bottom of Hole 56.5')							
		Hole is offset by 19.5' South (uphill) due to gaurdrail interference & slope of the hill.							

Project ID: <u>S-058-2024</u>		<u>Laurel - I-75 MP 24.6-24.7</u>			Project Type: <u>Structure State Bridge</u>				
Item Number: <u>11-0014.80</u>		<u>US 25W</u>			Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1023</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/24/2024</u>		Hole Type <u>core and sample</u>			
Surface Elevation <u>1145.4'</u>		Static Water Depth <u>NA</u>		End Date <u>10/24/2024</u>		Rig Number <u>B-53</u>			
Total Depth <u>39.1'</u>		Driller <u>Cardwell, CJ</u>		Latitude(83) <u>36.917981</u>					
Location <u>1336+62.44 CL</u>				Longitude(83) <u>-84.129659</u>					
Lithology		Description	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
5		Gray, silty clay with rock fragments.							5
1138.6	6.8		SPT-1	3.5-5.0	1.0	2-3-3	SPT		
10		Gray and brown, silty clay with rock fragments.							10
1133.6	11.8		SPT-2	8.5-10.0	1.5	2-2-3	SPT		
15		Brown, silty sand.							15
1126.0	19.4		SPT-3	13.5-15.0	1.5	3-3-4	SPT		
20		Shale (bedrock). (Begin Core)							20
1125.4	20.0		SPT-4	18.5-20.0	1.4	6-14-18	SPT		
25		Gray shale.	83 / 0	2.0	1.7	85		22.0	25
			45 / 0	5.0	5.0	100		27.0	
30			80 / 64	5.0	5.0	100		32.0	30
35			41 / 8	5.1	5.1	100		37.1	35
1106.3	39.1		0 / 0	2.0	2.0	100		39.1	40
40		(Bottom of Hole 39.1')							40
45									45
50		Core sample from 39.1' to 40.0' was lost in the hole and could not be recovered.							50

Project ID: <u>S-058-2024</u>		<u>Laurel - I-75 MP 24.6-24.7</u>			Project Type: <u>Structure State Bridge</u>			
Item Number: <u>11-0014.80</u>		<u>US 25W</u>			Project Manager: <u>Kyle Pauley</u>			
Hole Number <u>1025</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/29/2024</u>		Hole Type <u>core and sample</u>		
Surface Elevation <u>1166.2'</u>		Static Water Depth <u>NA</u>		End Date <u>10/29/2024</u>		Rig Number <u>B-53</u>		
Total Depth <u>36.5'</u>		Driller <u>Cardwell, CJ</u>		Latitude(83) <u>36.918326</u>				
Location <u>1337+90.44 CL</u>				Longitude(83) <u>-84.129576</u>				
Lithology		Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth	Description	Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	
		Brown, silty clay (fill).						
5			SPT-1	3.5-5.0	0.7	2-3-3	SPT	5
1159.4	6.8	Brown, silty clay with rock fragments (fill).						
10			SPT-2	8.5-10.0	1.0	4-5-4	SPT	10
1154.2	12.0	Dense, brown and gray, sandy silty clay.						
15			SPT-3	13.5-15.0	1.3	2-6-4	SPT	15
1149.7	16.5	Brown and pink, sand with brown and gray silt and sandstone fragments.						
20			SPT-4	18.5-20.0	1.3	3-5-6	SPT	20
1145.2	21.0	Dense, brown, silty clay with black weathered shale. (Begin Core)						
25			SPT-5	23.5-25.0	1.5	2-5-8	SPT	25
1141.2	25.0	Interbedded brown and gray shale and sandstone, weathered, clayey.						
1139.7	26.5		0 / 0	1.5	1.5	100		26.5
		Interbedded brown and gray shale and sandstone, clayey.						
30			38 / 8	5.0	4.3	85		30
1134.7	31.5	Brown to gray shale, weathered, clayey.						
35			15 / 0	5.0	4.3	85		35
1129.7	36.5	(Bottom of Hole 36.5')						
40								40
		Hole is offset 18' North (uphill) & 8' East, toward I-75 Northbound, due to utility line and slope of the hill.						
45								45
50								50

Drilling Firm: Kentucky Transportation Cabinet
For: Division of Structural Design
Geotechnical Branch

DRILLER'S SUBSURFACE LOG

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Project ID: <u>S-056-2024</u>		<u>Laurel - KY-312 MP 27.4-27.5</u>		Project Type: <u>Structure State Bridge</u>					
Item Number: <u>11-0014.80</u>		<u>I-75</u>		Project Manager: <u>Kyle Pauley</u>					
Hole Number <u>1005</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/09/2024</u>					
Surface Elevation <u>1208.2'</u>		Static Water Depth <u>NA</u>		End Date <u>10/09/2024</u>					
Total Depth <u>31.0'</u>		Driller <u>Cardwell, C.J</u>		Latitude(83) <u>36.957126</u>					
Location <u>49+20.00 29.8' Rt.</u>				Longitude(83) <u>-84.118657</u>					
Lithology		Overburden		Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth	Description		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	
5		Light brown, moist, sand with shale fragments.							
1202.4	5.8			SPT-1	3.5-5.0	1.5	4-6-7	SPT	
1201.4	6.8	Light gray, sandstone (bedrock). (Begin Core)							
				SPT-2	6.5-6.8	0.3	50/0.30'	SPT	
10		Gray sandstone with shale.		24 / 10	4.2	4.2	100		11.0
15				57 / 31	10.0	10.0	100		
20	1187.2	21.0							21.0
25		Gray shale.							
30	1177.2			31.0	88 / 47	10.0	9.5	95	
35		(Bottom of Hole 31.0')							
40									
45									
50									

Project ID: <u>S-056-2024</u>		<u>Laurel - KY-312 MP 27.4-27.5</u>			Project Type: <u>Structure State Bridge</u>			
Item Number: <u>11-0014.80</u>		<u>I-75</u>			Project Manager: <u>Kyle Pauley</u>			
Hole Number <u>1006</u>		Immediate Water Depth <u>9.0 (10/10/24)</u>		Start Date <u>10/10/2024</u>		Hole Type <u>core and sample</u>		
Surface Elevation <u>1211.0'</u>		Static Water Depth <u>NA</u>		End Date <u>10/10/2024</u>		Rig Number <u>B-53</u>		
Total Depth <u>31.8'</u>		Driller <u>Cardwell, CJ</u>		Latitude(83) <u>36.957063</u>				
Location <u>50+00.00 29.8' Rt.</u>				Longitude(83) <u>-84.118395</u>				
Lithology		Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth	Description	Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	
		Brown, dry, silt with shale fragments.						
			SPT-1	1.5-3.0	1.4	5-14-14	SPT	
5								
1203.0	8.0							
10	1201.2	9.8	Gray, moist, shale (bedrock). (Begin Core)	SPT-2	8.0-9.5	1.5	25-37-19	SPT
				SPT-3	9.5-9.8	0.3	50/0.30'	SPT
				50 / 20	2.0	1.7	85	
15								11.8
				65 / 42	10.0	10.0	100	
20								
								21.8
25								
				95 / 53	10.0	10.0	100	
30								
1179.2	31.8							31.8
35								
40								
45								
50								
(Bottom of Hole 31.8')								

Project ID: <u>S-056-2024</u> Item Number: <u>11-0014.80</u>		<u>Laurel - KY-312 MP 27.4-27.5</u> <u>I-75</u>		Project Type: <u>Structure State Bridge</u> Project Manager: <u>Kyle Pauley</u>					
Hole Number <u>1007</u> Surface Elevation <u>1209.3'</u> Total Depth <u>26.2'</u> Location <u>50+80.00 29.8' Rt.</u>		Immediate Water Depth <u>NA</u> Static Water Depth <u>NA</u> Driller <u>Cardwell, CJ</u>		Start Date <u>10/14/2024</u> End Date <u>10/14/2024</u> Latitude(83) <u>36.957001</u> Longitude(83) <u>-84.118132</u>		Hole Type <u>core and sample</u> Rig_Number <u>B-53</u>			
Lithology		Description	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
1206.3	3.0	Brown, silty clay with shale fragments.		SPT-1	1.5-3.0	1.5	3-8-31	SPT	
				SPT-2	3.0-3.8	0.8	29-50/0.30'	SPT	
1203.1	6.2		Gray, shale (bedrock). (Begin Core)						
		Gray shale.	SPT-3	6.0-6.2	0.2	50/0.20'	SPT		
				75 / 73	10.0	9.8	98		
				89 / 83	10.0	10.0	100		
1183.1	26.2								
		(Bottom of Hole 26.2')							

Project ID: <u>S-057-2024</u>		<u>Laurel - I-75 MP 27.4-27.5</u>			Project Type: <u>Structure State Bridge</u>			
Item Number: <u>11-0014.80</u>		<u>US 25E</u>			Project Manager: <u>Kyle Pauley</u>			
Hole Number <u>1001</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/15/2024</u>		Hole Type <u>core and sample</u>		
Surface Elevation <u>1197.9'</u>		Static Water Depth <u>NA</u>		End Date <u>10/15/2024</u>		Rig_Number <u>B-53</u>		
Total Depth <u>38.2'</u>		Driller <u>Cardwell, CJ</u>		Latitude(83) <u>36.976558</u>				
Location <u>1558+11.83 CL</u>				Longitude(83) <u>-84.111046</u>				
Lithology		Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth	Description	Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	
		Brown and orange, sandy silt with rock fragments.						
5			SPT-1	4.0-5.5	1.2	4-5-12	SPT	5
1190.6	7.3							
10		Red, sandy silt.						
1188.4	9.5		SPT-2	9.0-10.5	1.5	4-5-5	SPT	10
1185.6	12.3	Gray and brown, sandy silt.						
15		Orange and brown, sandy silt with rock fragments.						
			SPT-3	14.0-15.5	0.8	4-7-9	SPT	15
1179.9	18.0							
		(Begin Core)						
20		Light brown and red, sand with rock fragments (bedrock).	SPT-4	17.0-18.2	1.2	3-4-50/0.20'	SPT	
1179.7	18.2							
25		Light brown and red sandstone, weathered, (with mud seams).	5 / 6	10.0	5.9	59		28.2
30								
1164.7	33.2		17 / 0	5.0	3.7	74		33.2
35		Reddish brown and gray sandstone, (with mud seams).	52 / 44	5.0	4.5	90		38.2
1159.7	38.2							
40		(Bottom of Hole 38.2')						
45								
50								

Project ID: <u>S-057-2024</u>		<u>Laurel - I-75 MP 27.4-27.5</u>			Project Type: <u>Structure State Bridge</u>				
Item Number: <u>11-0014.80</u>		<u>US 25E</u>			Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1003</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/22/2024</u>		Hole Type <u>core and sample</u>			
Surface Elevation <u>1181.8'</u>		Static Water Depth <u>NA</u>		End Date <u>10/22/2024</u>		Rig Number <u>B-53</u>			
Total Depth <u>21.0'</u>		Driller <u>Cardwell, CJ</u>		Latitude(83) <u>36.976981</u>					
Location <u>1559+66.83 CL</u>				Longitude(83) <u>-84.110985</u>					
Lithology		Description	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
1177.3	4.5	Brown, sandy silt with asphalt.							
1173.3	8.5	Red and brown, high weathered to weathered sandstone (bedrock). (Begin Core)							
1170.8	11.0	Brown and red sandstone, (with clay mud seams).	SPT-2 40 / 38	8.0-8.5 2.5	0.5 2.4	50/0.50' 96	SPT		11.0
1165.8	16.0	Brownish red and gray sandstone.	75 / 59	5.0	4.8	96			16.0
1160.8	21.0	Gray sandstone.	67 / 54	5.0	3.5	70			21.0
		(Bottom of Hole 21.0')							

Drilling Firm: Kentucky Transportation Cabinet
For: Division of Structural Design
Geotechnical Branch

DRILLER'S SUBSURFACE LOG

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Project ID: <u>S-057-2024</u>		<u>Laurel - I-75 MP 27.4-27.5</u>				Project Type: <u>Structure State Bridge</u>			
Item Number: <u>11-0014.80</u>		<u>US 25E</u>				Project Manager: <u>Kyle Pauley</u>			
Hole Number <u>1004</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/18/2024</u>		Hole Type <u>core and sample</u>			
Surface Elevation <u>1200.7'</u>		Static Water Depth <u>NA</u>		End Date <u>10/18/2024</u>		Rig_Number <u>B-53</u>			
Total Depth <u>47.0'</u>		Driller <u>Cardwell, C.J</u>		Latitude(83) <u>36.977104</u>					
Location <u>1560+11.83 CL</u>				Longitude(83) <u>-84.110968</u>					
Lithology		Overburden		Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth	Description		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	
5 1194.4	6.3	Brown, moist, silt with rock fragments (fill).							5 5 10 10 15 15 20 20 25 25 30 30 35 35 40 40 45 45 50 50
				SPT-1	3.0-4.5	0.8	6-3-3	SPT	
10 1189.4	11.3	Dark brownish gray and orange, moist, silty clay.							
				SPT-2	8.0-9.5	1.4	2-2-3	SPT	
15 1178.7	22.0	Dark brown and light brownish gray, dry, silty clay.							
				SPT-3	13.0-14.5	1.4	2-3-3	SPT	
20 1176.2	24.5	Brown and orange, sandy silt with rock fragments (Begin Core)							
				SPT-4	19.5-21.0	1.5	2-3-4	SPT	
25 1168.7	32.0	Brown and red sandstone.							
				SPT-5	23.0-24.5	1.5	7-8-7	SPT	
30 1163.7	37.0	Brown and red sandstone, (gray clay mud seams).		0 / 0	7.5	1.2	16		32.0 32.0 35 35 40 40 45 45 50 50
				30 / 11	5.0	3.8	76		
40 1153.7	47.0	Brownish red and light gray sandstone.		63 / 39	5.0	4.7	94		
				52 / 22	5.0	5.0	100		
50									

Project ID: <u>S-057-2024</u>		<u>Laurel - I-75 MP 27.4-27.5</u>			Project Type: <u>Structure State Bridge</u>				
Item Number: <u>11-0014.80</u>		<u>US 25E</u>			Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1004</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/18/2024</u>		Hole Type <u>core and sample</u>			
Surface Elevation <u>1200.7'</u>		Static Water Depth <u>NA</u>		End Date <u>10/18/2024</u>		Rig_Number <u>B-53</u>			
Total Depth <u>47.0'</u>		Driller <u>Cardwell, CJ</u>		Latitude(83) <u>36.977104</u>					
Location <u>1560+11.83 CL</u>				Longitude(83) <u>-84.110968</u>					
Lithology		Description	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
55		(Bottom of Hole 47.0')							55
60									60
65									65
70									70
75									75
80									80
85									85
90									90
95									95
100									100

Project ID: <u>S-059-2024</u>		<u>Laurel - KY-1259 MP 3.3-3.4</u>			Project Type: <u>Structure State Bridge</u>				
Item Number: <u>11-0014.80</u>		<u>I-75</u>			Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1009</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/17/2024</u>		Hole Type <u>core and sample</u>			
Surface Elevation <u>1190.5'</u>		Static Water Depth <u>NA</u>		End Date <u>10/17/2024</u>		Rig Number <u>B-53</u>			
Total Depth <u>41.5'</u>		Driller <u>Cardwell, CJ</u>		Latitude(83) <u>36.945022</u>					
Location <u>48+61.59 21.6' Rt.</u>				Longitude(83) <u>-84.123589</u>					
Lithology		Description	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
5		Brown and gray, silty clay with rock fragments.							5
			SPT-1	3.5-5.0	1.3	10-16-9	SPT		
10			SPT-2	9.0-10.5	1.2	1-2-2	SPT		10
1178.2	12.3								
15		Brown, sandy silt with rock fragments.							15
			SPT-3	14.0-15.5	1.3	9-7-4	SPT		
1171.5	19.0								
20		Red and gray, sandstone and shale fragments. (Begin Core)	SPT-4	18.5-20.0	1.5	3-4-4	SPT		20
1170.5	20.0								
1168.9	21.6	Black and brown shale, clayey.	0 / 0	1.6	0.8	47			21.6
25		Light brown and gray clay, (black shale pieces).	0 / 0	5.0	1.9	38			25
1163.9	26.6								26.6
30		Brown and gray shale, weathered.	0 / 0	5.0	3.7	74			30
1158.9	31.6								31.6
35		Brown and gray sandstone.	7 / 0	5.0	3.2	64			35
1153.9	36.6								36.6
40		Gray sandstone.	49 / 24	4.9	4.9	100			40
1149.0	41.5								41.5
45		(Bottom of Hole 41.5')							45
50									50

Project ID: <u>S-059-2024</u>		<u>Laurel - KY-1259 MP 3.3-3.4</u>			Project Type: <u>Structure State Bridge</u>				
Item Number: <u>11-0014.80</u>		<u>I-75</u>			Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1011</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/22/2024</u>		Hole Type <u>sounding</u>			
Surface Elevation <u>1171.5'</u>		Static Water Depth <u>NA</u>		End Date <u>10/22/2024</u>		Rig_Number <u>B-48</u>			
Total Depth <u>24.2'</u>		Driller <u>Johnson, Ryan</u>		Latitude(83) <u>36.944981</u>					
Location <u>49+20.81 17.2' Rt.</u>				Longitude(83) <u>-84.123393</u>					
Lithology		Description	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
5		Overburden.							5
10									10
15									15
20									20
1147.3	24.2		(Refusal)						
25		(Bottom of Hole 24.2') (Refusal @ 24.2)							25
30									30
35									35
40									40
45									45
50									50

Project ID: <u>S-059-2024</u> Item Number: <u>11-0014.80</u>		<u>Laurel - KY-1259 MP 3.3-3.4</u> <u>I-75</u>			Project Type: <u>Structure State Bridge</u> Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1012</u> Surface Elevation <u>1170.2'</u> Total Depth <u>38.0'</u> Location <u>49+98.19 17.2' Lt.</u>		Immediate Water Depth <u>NA</u> Static Water Depth <u>NA</u> Driller <u>Cardwell, CJ</u>		Start Date <u>10/15/2024</u> End Date <u>10/15/2024</u> Latitude(83) <u>36.944999</u> Longitude(83) <u>-84.123103</u>		Hole Type <u>core and sample</u> Rig_Number <u>B-53</u>			
Lithology		Description	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
5		Light brown, silty clay.							5
	1162.9			SPT-1	4.0-5.5	1.5	4-6-6	SPT	
10									
		Dry and dense, light brown to gray, silty clay.		SPT-2	9.0-10.5	1.2	3-4-6	SPT	10
15	1155.2								
				SPT-3	14.0-15.5	1.4	2-3-5	SPT	15
	1152.9	Dry and dense, dark gray and green, silty clay.							
20		Soft, light brown and gray, moist, sandy silt with rock fragments.		SPT-4	19.0-20.5	1.3	2-3-4	SPT	20
	1146.7								
	1146.2								
25		Gray, shale (bedrock).	(Begin Core)	SPT-5	23.5-24.0	0.5	50/0.50'	SPT	25
		Gray shale.		78 / 50	3.0	2.8	92		27.0
30					7 / 0	5.0	5.0	100	
	1138.2								32.0
35		Dark gray black shale.		18 / 0	6.0	5.7	95		35
	1132.2								38.0
40		(Bottom of Hole 38.0')							40
45									45
50									50

Project ID: <u>S-059-2024</u>		<u>Laurel - KY-1259 MP 3.3-3.4</u>			Project Type: <u>Structure State Bridge</u>				
Item Number: <u>11-0014.80</u>		<u>I-75</u>			Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1013</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/14/2024</u>		Hole Type <u>sounding</u>			
Surface Elevation <u>1169.8'</u>		Static Water Depth <u>NA</u>		End Date <u>10/14/2024</u>		Rig_Number <u>B-53</u>			
Total Depth <u>22.0'</u>		Driller <u>Cardwell, CJ</u>		Latitude(83) <u>36.944907</u>					
Location <u>50+01.81 17.2' Rt.</u>				Longitude(83) <u>-84.123130</u>					
Lithology		Description	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
5		Overburden.							5
10									10
15									15
20									20
1147.8	22.0		(Refusal)						
25		(Bottom of Hole 22.0') (Refusal @ 22)							25
30									30
35									35
40									40
45									45
50									50

Project ID: <u>S-059-2024</u>		<u>Laurel - KY-1259 MP 3.3-3.4</u>			Project Type: <u>Structure State Bridge</u>					
Item Number: <u>11-0014.80</u>		<u>I-75</u>			Project Manager: <u>Kyle Pauley</u>					
Hole Number <u>1014</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/18/2024</u>		Hole Type <u>sounding</u>				
Surface Elevation <u>1169.5'</u>		Static Water Depth <u>NA</u>		End Date <u>10/18/2024</u>		Rig_Number <u>B-48</u>				
Total Depth <u>18.6'</u>		Driller <u>Johnson, Ryan</u>		Latitude(83) <u>36.944930</u>						
Location <u>50+79.19 17.2' Lt.</u>				Longitude(83) <u>-84.122842</u>						
Lithology		Description	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks	
Elevation	Depth		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)		
5		Overburden.							5	
10									10	
15									15	
1150.9	18.6	(Refusal)								
20		(Bottom of Hole 18.6') (Refusal @ 18.6)							20	
25									25	
30									30	
35									35	
40									40	
45									45	
50									50	

Project ID: <u>S-059-2024</u>		<u>Laurel - KY-1259 MP 3.3-3.4</u>			Project Type: <u>Structure State Bridge</u>			
Item Number: <u>11-0014.80</u>		<u>I-75</u>			Project Manager: <u>Kyle Pauley</u>			
Hole Number <u>1015</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/18/2024</u>		Hole Type <u>core and sample</u>		
Surface Elevation <u>1170.3'</u>		Static Water Depth <u>NA</u>		End Date <u>10/18/2024</u>		Rig Number <u>B-48</u>		
Total Depth <u>21.8'</u>		Driller <u>Johnson, Ryan</u>		Latitude(83) <u>36.944835</u>				
Location <u>50+82.81 17.2' Rt.</u>				Longitude(83) <u>-84.122870</u>				
Lithology		Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth	Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
		Brown, sand.						
5	1165.5		ST-1 SPT-1	2.5-3.1 3.1-4.6	0.6 1.0		ST SPT	5
	1164.0	Reddish brown, sandy clay. (Begin Core)	SPT-2	4.8-6.3	1.5	10-20-30	SPT	
	1163.5	Brown and red sandstone, weathered.	0 / 0	0.5	0.5	100		6.8
10		Brownish red and gray sandstone, weathered, (with mud seams).	20 / 0	5.0	2.8	56		10
	1158.5							11.8
15		Gray sandy shale and brown sandstone, weathered.	35 / 36	5.0	4.6	92		15
	1153.5							16.8
20		Gray shale.	40 / 32	5.0	5.0	100		20
	1148.5							21.8
25		(Bottom of Hole 21.8')						25
30								30
35								35
40								40
45								45
50								50

Project ID: <u>S-059-2024</u>		<u>Laurel - KY-1259 MP 3.3-3.4</u>			Project Type: <u>Structure State Bridge</u>					
Item Number: <u>11-0014.80</u>		<u>I-75</u>			Project Manager: <u>Kyle Pauley</u>					
Hole Number <u>1016</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/17/2024</u>		Hole Type <u>sounding</u>				
Surface Elevation <u>1188.3'</u>		Static Water Depth <u>NA</u>		End Date <u>10/17/2024</u>		Rig_Number <u>B-53</u>				
Total Depth <u>12.8'</u>		Driller <u>Cardwell, CJ</u>		Latitude(83) <u>36.944893</u>						
Location <u>51+38.41 24.6' Lt.</u>				Longitude(83) <u>-84.122642</u>						
Lithology		Description	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks	
Elevation	Depth		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)		
5		Overburden. (Refusal)							5	
10									10	
1175.5	12.8									
15		(Bottom of Hole 12.8') (Refusal @ 12.8)							15	
20									20	
25									25	
30									30	
35									35	
40									40	
45									45	
50									50	

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Project ID: <u>S-059-2024</u>		<u>Laurel - KY-1259 MP 3.3-3.4</u>			Project Type: <u>Structure State Bridge</u>				
Item Number: <u>11-0014.80</u>		<u>I-75</u>			Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1017</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/16/2024</u>		Hole Type <u>core and sample</u>			
Surface Elevation <u>1189.6'</u>		Static Water Depth <u>NA</u>		End Date <u>10/16/2024</u>		Rig_Number <u>B-53</u>			
Total Depth <u>27.5'</u>		Driller <u>Cardwell, CJ</u>		Latitude(83) <u>36.944760</u>					
Location <u>51+43.59 24.6' Rt.</u>				Longitude(83) <u>-84.122682</u>					
Lithology		Overburden		Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth	Description Rock Core		Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
5 1182.8	6.8	Dense, light brown and orange, silty clay.		SPT-1	3.5-5.0	1.3	6-7-6	SPT	5
10 1177.1	12.5	Light brown and pink, silt (with soft sandstone fragments). (Begin Core)		SPT-2	8.5-10.0	1.4	4-10-13	SPT	10
15 1167.1	22.5	Brown and red sandstone, (mud seams and voids).		0 / 0	5.0	2.4	48		15 17.5
20 1162.1	27.5	Brownish red and gray sandstone, (mud seams).		24 / 24	5.0	3.8	76		20 22.5
25 1162.1	27.5			8 / 0	5.0	4.4	88		25 27.5
30 1162.1	27.5	(Bottom of Hole 27.5')							30 27.5
35 1162.1	27.5								35 27.5
40 1162.1	27.5								40 27.5
45 1162.1	27.5								45 27.5
50 1162.1	27.5								50 27.5

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Project ID: <u>S-020-2024</u>		<u>Laurel - I-75 MP 27.0-28.0</u>		Project Type: <u>Structure State Bridge</u>					
Item Number: <u>11-0014.80</u>		<u>Lynn Camp Creek</u>		Project Manager: <u>Kyle Pauley</u>					
Hole Number <u>1001</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/18/2024</u>					
Surface Elevation <u>1148.0'</u>		Static Water Depth <u>NA</u>		End Date <u>10/18/2024</u>					
Total Depth <u>19.8'</u>		Driller <u>Johnson, Ryan</u>		Latitude(83) <u>36.963160</u>					
Location <u>1507+22.60 74.6' Lt.</u>				Longitude(83) <u>-84.114911</u>					
Lithology		Overburden		Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth	Description		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	
1145.4	2.6	Red to tan, sandstone (bedrock). (Begin Core)							
5				SPT-1 0 / 0	2.4-2.6 2.2	0.2 2.2	50/0.20' 100	SPT	
10	1138.2	Reddish brown sandstone.		0 / 0	5.0	4.9	98		4.8
15	1133.2	Brown sandstone, weathered.		0 / 0	5.0	4.5	90		9.8
20	1128.2	Brownish gray sandstone.		- / 37	5.0	5.0	100		14.8
25		(Bottom of Hole 19.8')							19.8
30									
35									
40									
45									
50									

Project ID: <u>S-020-2024</u>		<u>Laurel - I-75 MP 27.0-28.0</u>			Project Type: <u>Structure State Bridge</u>				
Item Number: <u>11-0014.80</u>		<u>Lynn Camp Creek</u>			Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1003</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/02/2024</u>		Hole Type <u>core and sample</u>			
Surface Elevation <u>1020.8'</u>		Static Water Depth <u>NA</u>		End Date <u>10/02/2024</u>		Rig Number <u>B-48</u>			
Total Depth <u>24.8'</u>		Driller <u>Johnson, Ryan</u>		Latitude(83) <u>36.963617</u>					
Location <u>1509+11.33 73.7' Lt.</u>				Longitude(83) <u>-84.114622</u>					
Lithology		Description	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
5 10 1008.9	11.9	Brown and red, sand. (Begin Core)							5 10
			SPT-1	4.5-6.0	1.1	3-6-7	SPT		
			SPT-2	9.5-11.0	1.5	11-10-28	SPT		
15 20 25 996.0	24.8	Brown and gray sandstone.	SPT-3	11.8-11.9	0.1	50/0.10'	SPT	16.2 21.2 24.8	
			30 / 35	4.3	3.9	91			
			90 / 77	5.0	5.0	100			
			89 / 72	3.6	3.6	100			
30 35 40 45 50		(Bottom of Hole 24.8')							30 35 40 45 50

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Project ID: <u>S-020-2024</u>		<u>Laurel - I-75 MP 27.0-28.0</u>			Project Type: <u>Structure State Bridge</u>					
Item Number: <u>11-0014.80</u>		<u>Lynn Camp Creek</u>			Project Manager: <u>Kyle Pauley</u>					
Hole Number <u>1004</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/02/2024</u>		Hole Type <u>core and sample</u>				
Surface Elevation <u>1015.8'</u>		Static Water Depth <u>NA</u>		End Date <u>10/02/2024</u>		Rig_Number <u>B-48</u>				
Total Depth <u>20.5'</u>		Driller <u>Johnson, Ryan</u>		Latitude(83) <u>36.963523</u>						
Location <u>1509+14.15 4.6' Rt.</u>				Longitude(83) <u>-84.114911</u>						
Lithology		Overburden		Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks	
Elevation	Depth	Description		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)		SDI (JS)
5		Brown and red, sand.								
				SPT-1	3.3-4.8	0.8	9-16-44	SPT		
1007.1	8.7			(Begin Core)						
10		Brown and gray sandstone.		SPT-2	8.3-8.7	0.4	50/0.40'	SPT		
1005.1	10.7			20 / 20	2.0	2.0	100		10.7	
		Brown to gray sandstone.		90 / 77	4.8	4.7	98			
15	15.5								15.5	
20		Gray sandstone.		80 / 62	5.0	5.0	100			
995.3	20.5								20.5	
25		(Bottom of Hole 20.5')								
30										
35										
40										
45										
50										

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Project ID: <u>S-020-2024</u>		<u>Laurel - I-75 MP 27.0-28.0</u>			Project Type: <u>Structure State Bridge</u>				
Item Number: <u>11-0014.80</u>		<u>Lynn Camp Creek</u>			Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1005</u>		Immediate Water Depth <u>NA</u>		Start Date <u>09/17/2024</u>		Hole Type <u>core and sample</u>			
Surface Elevation <u>1030.3'</u>		Static Water Depth <u>NA</u>		End Date <u>09/17/2024</u>		Rig_Number <u>D-25</u>			
Total Depth <u>15.5'</u>		Driller <u>Johnson, Ryan</u>		Latitude(83) <u>36.964031</u>					
Location <u>1510+85.39 67.3' Lt.</u>				Longitude(83) <u>-84.114333</u>					
Lithology		Overburden		Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth	Description Rock Core		Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
5 1024.8	5.5	Brown, sand. (Begin Core)		1	3.0-4.5	1.2	3-3-20	SPT	5
10 1014.8	15.5	Brown sandstone.		100 / 72	5.0	5.0	100		10
15				94 / 74	5.0	4.8	96		15
20		(Bottom of Hole 15.5')							20
25									25
30									30
35									35
40									40
45									45
50									50

Project ID: <u>S-020-2024</u>		<u>Laurel - I-75 MP 27.0-28.0</u>			Project Type: <u>Structure State Bridge</u>				
Item Number: <u>11-0014.80</u>		<u>Lynn Camp Creek</u>			Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1006</u>		Immediate Water Depth <u>NA</u>		Start Date <u>09/25/2024</u>		Hole Type <u>sounding</u>			
Surface Elevation <u>1040.5'</u>		Static Water Depth <u>NA</u>		End Date <u>09/25/2024</u>		Rig_Number <u>D-25</u>			
Total Depth <u>3.1'</u>		Driller <u>Johnson, Ryan</u>		Latitude(83) <u>36.964090</u>					
Location <u>1511+06.96 72.4' Lt.</u>				Longitude(83) <u>-84.114301</u>					
Lithology		Description	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
1037.4	3.1	Overburden.	(Refusal)						
5		(Bottom of Hole 3.1') (Refusal @ 3.1)							5
10									10
15									15
20									20
25									25
30									30
35									35
40									40
45									45
50									50

Project ID: <u>S-020-2024</u> Item Number: <u>11-0014.80</u>		<u>Laurel - I-75 MP 27.0-28.0</u> <u>Lynn Camp Creek</u>			Project Type: <u>Structure State Bridge</u> Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1007</u> Surface Elevation <u>1045.4'</u> Total Depth <u>14.3'</u> Location <u>1511+04.35 10.8' Rt.</u>		Immediate Water Depth <u>NA</u> Static Water Depth <u>NA</u> Driller <u>Johnson, Ryan</u>		Start Date <u>09/18/2024</u> End Date <u>09/18/2024</u> Latitude(83) <u>36.963977</u> Longitude(83) <u>-84.114070</u>		Hole Type <u>core and sample</u> Rig_Number <u>D-25</u>			
Lithology		Description	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
1042.3	3.1	Brown, sandy clay with boulders. (Begin Core)							
1036.1	9.3	Brown sandstone.		1 100 / 100 63 / 62	3.0-3.1 1.2 5.0	0.0 1.2 4.9	50/0.10' 100 98	SPT	4.3 9.3
1031.1	14.3	Brown with gray sandstone.		56 / 56	5.0	4.8	96		14.3
		(Bottom of Hole 14.3')							

Project ID: <u>S-020-2024</u> Item Number: <u>11-0014.80</u>		<u>Laurel - I-75 MP 27.0-28.0</u> <u>Lynn Camp Creek</u>			Project Type: <u>Structure State Bridge</u> Project Manager: <u>Kyle Pauley</u>						
Hole Number <u>1008</u> Surface Elevation <u>1100.6'</u> Total Depth <u>51.7'</u> Location <u>1512+68.36 72.2' Lt.</u>		Immediate Water Depth <u>NA</u> Static Water Depth <u>NA</u> Driller <u>Cardwell, CJ</u>		Start Date <u>10/08/2024</u> End Date <u>10/08/2024</u> Latitude(83) <u>36.964481</u> Longitude(83) <u>-84.114045</u>		Hole Type <u>core and sample</u> Rig_Number <u>B-53</u>					
Lithology		Description	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks		
Elevation	Depth		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)			
5 10 15 20 25 30		Brown and orange, dry, sand with rock fragments.		SPT-1	3.5-5.0	0.2	3-4-8	SPT	5 10 15 20 25 30		
				SPT-2	8.5-10.0	1.1	11-11-11	SPT			
				SPT-3	13.5-15.0	1.3	12-21-14	SPT			
				SPT-4	19.0-20.5	1.2	9-9-9	SPT			
				SPT-5	23.5-24.0	0.4	50/0.50'	SPT			
			1066.4	34.2	(Begin Core)	SPT-6	34.0-34.2	0.2		50/0.20'	SPT
			35 40	Brown and orange sandstone, (bedrock).	44 / 60	2.5	1.8	72			36.7
					24 / 38	5.0	3.1	62			41.7
			45 50	Brown and red sandstone.	22 / 31	1.8	1.3	72			43.5
					44 / 34	3.2	2.8	87			46.7
		Reddish brown to light gray sandstone.	54 / 60	5.0	4.3	86					

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For: Division of Structural Design
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Project ID: <u>S-020-2024</u>		<u>Laurel - I-75 MP 27.0-28.0</u>			Project Type: <u>Structure State Bridge</u>				
Item Number: <u>11-0014.80</u>		<u>Lynn Camp Creek</u>			Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1008</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/08/2024</u>		Hole Type <u>core and sample</u>			
Surface Elevation <u>1100.6'</u>		Static Water Depth <u>NA</u>		End Date <u>10/08/2024</u>		Rig_Number <u>B-53</u>			
Total Depth <u>51.7'</u>		Driller <u>Cardwell, CJ</u>		Latitude(83) <u>36.964481</u>					
Location <u>1512+68.36 72.2' Lt.</u>				Longitude(83) <u>-84.114045</u>					
Lithology		Overburden		Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth	Description		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	
1048.9	51.7	Reddish brown to light gray sandstone.				5.0	4.3	86	51.7
55		(Bottom of Hole 51.7')							55
60		Rock Core at depth 24.0' to 30.5', 9.5" recovery, continued augering and collected an SPT at depth 34.0' to 34.2'.							60
65									65
70									70
75									75
80									80
85									85
90									90
95									95
100									100

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Project ID: <u>S-020-2024</u>		<u>Laurel - I-75 MP 27.0-28.0</u>			Project Type: <u>Structure State Bridge</u>				
Item Number: <u>11-0014.80</u>		<u>Lynn Camp Creek</u>			Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1009</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/16/2024</u>		Hole Type <u>core and sample</u>			
Surface Elevation <u>1121.6'</u>		Static Water Depth <u>NA</u>		End Date <u>10/16/2024</u>		Rig_Number <u>B-48</u>			
Total Depth <u>15.7'</u>		Driller <u>Johnson, Ryan</u>		Latitude(83) <u>36.963465</u>					
Location <u>1508+08.14 67.8' Rt.</u>				Longitude(83) <u>-84.115226</u>					
Lithology		Overburden		Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth	Description		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	
1117.9	3.7	Brown, dry, sand.							
		(Begin Core)							
5				50 / 50	2.0	1.7	85		5.7
		Brown sandstone, weathered.							
10				74 / 76	5.0	5.0	100		10.7
1110.9	10.7								
		Brown to gray sandstone.		100 / 84	5.0	5.0	100		
15									15.7
1105.9	15.7								
		(Bottom of Hole 15.7')							
20									
25									
30									
35									
40									
45									
50									

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Project ID: <u>S-020-2024</u>		<u>Laurel - I-75 MP 27.0-28.0</u>				Project Type: <u>Structure State Bridge</u>				
Item Number: <u>11-0014.80</u>		<u>Lynn Camp Creek</u>				Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1010</u>		Immediate Water Depth <u>19.6 (10/02/24)</u>		Start Date <u>10/02/2024</u>		Hole Type <u>core and sample</u>				
Surface Elevation <u>1027.7'</u>		Static Water Depth <u>NA</u>		End Date <u>10/02/2024</u>		Rig_Number <u>B-48</u>				
Total Depth <u>31.8'</u>		Driller <u>Johnson, Ryan</u>		Latitude(83) <u>36.963894</u>						
Location <u>1509+78.59 63.9' Rt.</u>				Longitude(83) <u>-84.114985</u>						
Lithology		Overburden		Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks	
Elevation	Depth	Description		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)		SDI (JS)
5		Brown, dry, sand.								
				SPT-1	4.1-5.6	1.5	5-7-6	SPT		
1020.3	7.4									
10		Brown, dry, sand with rock fragments.								
				SPT-2	9.1-10.6	1.0	2-1-2	SPT		
1010.1	17.6									
15		Brown, wet, sand with rock fragments.								
				SPT-3	14.6-16.1	1.2	9-11-25	SPT		
20		Brown sandstone, (bedrock).								
1007.3	20.4			(Begin Core)	SPT-4	19.6-20.4	0.3	22-50/0.30'		SPT
		Brown and gray sandstone.							21.8	
1005.9	21.8				64 / 57	0.7	0.7	100		
25		Gray sandstone.							26.8	
					82 / 59	5.0	4.8	96		
30		(Bottom of Hole 31.8')							31.8	
995.9	31.8				77 / 64	5.0	5.0	100		
35										
40										
45										
50										

Project ID: <u>S-020-2024</u> Item Number: <u>11-0014.80</u>		<u>Laurel - I-75 MP 27.0-28.0</u> <u>Lynn Camp Creek</u>			Project Type: <u>Structure State Bridge</u> Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1011</u> Surface Elevation <u>1027.6'</u> Total Depth <u>26.5'</u> Location <u>1509+95.05 10.0' Rt.</u>		Immediate Water Depth <u>NA</u> Static Water Depth <u>NA</u> Driller <u>Johnson, Ryan</u>		Start Date <u>10/02/2024</u> End Date <u>10/02/2024</u> Latitude(83) <u>36.963998</u> Longitude(83) <u>-84.115153</u>		Hole Type <u>core and sample</u> Rig_Number <u>B-48</u>			
Lithology		Description	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
5		Brown, sand. (Begin Core)							5
			SPT-1	5.0-6.5	1.5	11-27-48	SPT		
1019.1	8.5		SPT-2	7.0-8.5	1.5	8-9-22	SPT		
10		Brown and gray sandstone, weathered.	17 / 17	3.0	1.8	60			10
15			16 / 16	5.0	2.8	56			15
1011.1	16.5								16.5
20		Brown sandstone.	88 / 88	5.0	5.0	100			20
25			98 / 98	5.0	5.0	100			25
1001.1	26.5								26.5
30		(Bottom of Hole 26.5')							30
35									35
40									40
45									45
50									50

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Item Number: <u>11-0014.80</u>		<u>Lynn Camp Creek</u>			Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1012</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/09/2024</u>		Hole Type <u>sounding</u>			
Surface Elevation <u>1017.7'</u>		Static Water Depth <u>NA</u>		End Date <u>10/09/2024</u>		Rig_Number <u>B-48</u>			
Total Depth <u>11.5'</u>		Driller <u>Johnson, Ryan</u>		Latitude(83) <u>36.963956</u>					
Location <u>1510+02.74 61.8' Rt.</u>				Longitude(83) <u>-84.114955</u>					
Lithology		Overburden		Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth	Rock Core		Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
5		Overburden.							5
10	1006.2	(Refusal)							10
15		(Bottom of Hole 11.5') (Refusal @ 11.5)							15
20									20
25									25
30									30
35									35
40									40
45									45
50									50

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Project ID: <u>S-020-2024</u>		<u>Laurel - I-75 MP 27.0-28.0</u>			Project Type: <u>Structure State Bridge</u>					
Item Number: <u>11-0014.80</u>		<u>Lynn Camp Creek</u>			Project Manager: <u>Kyle Pauley</u>					
Hole Number <u>1013</u>		Immediate Water Depth <u>NA</u>		Start Date <u>09/19/2024</u>		Hole Type <u>core and sample</u>				
Surface Elevation <u>1028.1'</u>		Static Water Depth <u>NA</u>		End Date <u>09/19/2024</u>		Rig_Number <u>D-25</u>				
Total Depth <u>16.7'</u>		Driller <u>Johnson, Ryan</u>		Latitude(83) <u>36.964381</u>						
Location <u>1511+78.15 72.0' Rt.</u>				Longitude(83) <u>-84.114692</u>						
Lithology		Overburden		Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks	
Elevation	Depth	Description		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)		SDI (JS)
1024.1	4.0	Brown, sand.		(Begin Core)	1	2.5-4.0		20-16-9	SPT	
1011.4	16.7	Brown sandstone, weathered.			0 / 0	4.7	3.0	64		8.7
					44 / 44	5.0	4.5	90		13.7
					33 / 23	3.0	2.9	97		16.7
		(Bottom of Hole 16.7')								

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Item Number: <u>11-0014.80</u>		<u>Lynn Camp Creek</u>			Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1014</u>		Immediate Water Depth <u>NA</u>		Start Date <u>09/30/2024</u>		Hole Type <u>core and sample</u>			
Surface Elevation <u>1036.1'</u>		Static Water Depth <u>NA</u>		End Date <u>09/30/2024</u>		Rig_Number <u>D-25</u>			
Total Depth <u>29.4'</u>		Driller <u>Johnson, Ryan</u>		Latitude(83) <u>36.964520</u>					
Location <u>1512+15.81 33.2' Rt.</u>				Longitude(83) <u>-84.114823</u>					
Lithology		Overburden		Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth	Description		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	
5		Brown and gray, sand.							
10				SPT-1	8.5-10.0	1.4	7-6-5	SPT	
1024.3	11.8	Brown, sand.							
15				SPT-2	13.5-15.0	1.2	30-12-5	SPT	
1017.3	18.8	(Begin Core)							
20		Brown sandstone, weathered, (fractures).		SPT-3	18.5-18.8	0.0	50/0.30'	SPT	
25				59 / 59	1.1	1.1	100		19.9
				56 / 56	4.0	4.0	100		23.9
				40 / 40	2.0	2.0	100		25.9
1006.7	29.4			24 / 24	3.5	3.5	100		29.4
30		(Bottom of Hole 29.4')							
35									
40									
45									
50									

Project ID: <u>S-020-2024</u>		<u>Laurel - I-75 MP 27.0-28.0</u>			Project Type: <u>Structure State Bridge</u>				
Item Number: <u>11-0014.80</u>		<u>Lynn Camp Creek</u>			Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1015</u>		Immediate Water Depth <u>NA</u>		Start Date <u>09/24/2024</u>		Hole Type <u>sounding</u>			
Surface Elevation <u>1044.1'</u>		Static Water Depth <u>NA</u>		End Date <u>09/24/2024</u>		Rig_Number <u>D-25</u>			
Total Depth <u>2.7'</u>		Driller <u>Johnson, Ryan</u>		Latitude(83) <u>36.964477</u>					
Location <u>1512+22.05 83.6' Rt.</u>				Longitude(83) <u>-84.114617</u>					
Lithology		Description	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
1041.4	2.7	Overburden.	(Refusal)						
5		(Bottom of Hole 2.7') (Refusal @ 2.7)							5
10									10
15									15
20									20
25									25
30									30
35									35
40									40
45									45
50									50

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Item Number: <u>11-0014.80</u>		<u>Lynn Camp Creek</u>			Project Manager: <u>Kyle Pauley</u>			
Hole Number <u>1016</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/14/2024</u>		Hole Type <u>core and sample</u>		
Surface Elevation <u>1109.9'</u>		Static Water Depth <u>NA</u>		End Date <u>10/14/2024</u>		Rig_Number <u>B-48</u>		
Total Depth <u>51.0'</u>		Driller <u>Johnson, Ryan</u>		Latitude(83) <u>36.964984</u>				
Location <u>1514+08.51 46.1' Rt.</u>				Longitude(83) <u>-84.114342</u>				
Lithology		Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth	Description	Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	
5		Red and brown, dry, sand with rock fragments (roadway fill).						
			SPT-1	4.5-6.0	0.9	3-5-8	SPT	
1102.1	7.8	Red and brown, dry, sand (roadway fill).						
10			SPT-2	9.5-11.0	1.5	7-8-9	SPT	
15								
			SPT-3	14.5-16.0	1.5	3-7-7	SPT	
20								
			SPT-4	19.5-21.0	1.5	9-7-14	SPT	
25								
			SPT-5	24.5-26.0	1.5	29-13-14	SPT	
30		(Begin Core)						
			SPT-6	29.5-31.0	1.4	13-10-8	SPT	
1075.6	34.3							
35 1075.4	34.5	Brown, sandstone (bedrock).	SPT-7	34.3-34.5	0.1	50/0.20'	SPT	
		Light brown to reddish brown sandstone.	38 / 37	3.0	2.1	70		37.5
40			40 / 28	5.0	2.1	42		
1067.4	42.5	Light brown sandstone.						42.5
45			37 / 30	5.0	4.6	92		
			49 / 46	3.5	3.5	100		47.5
50								50

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Project ID: <u>S-020-2024</u>		<u>Laurel - I-75 MP 27.0-28.0</u>			Project Type: <u>Structure State Bridge</u>			
Item Number: <u>11-0014.80</u>		<u>Lynn Camp Creek</u>			Project Manager: <u>Kyle Pauley</u>			
Hole Number <u>1016</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/14/2024</u>		Hole Type <u>core and sample</u>		
Surface Elevation <u>1109.9'</u>		Static Water Depth <u>NA</u>		End Date <u>10/14/2024</u>		Rig_Number <u>B-48</u>		
Total Depth <u>51.0'</u>		Driller <u>Johnson, Ryan</u>		Latitude(83) <u>36.964984</u>				
Location <u>1514+08.51 46.1' Rt.</u>				Longitude(83) <u>-84.114342</u>				
Lithology		Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth	Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
1058.9	51.0	Light brown sandstone.		3.5	3.5	100		51.0
55		(Bottom of Hole 51.0')						55
60		Barrel stuck & left in Hole 1016						60
65								65
70								70
75								75
80								80
85								85
90								90
95								95
100								100

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Project ID: <u>S-064-2024</u>		<u>Laurel - I-75 MP 25.9-26.0</u>			Project Type: <u>Structure State Bridge</u>			
Item Number: <u>11-0014.80</u>		<u>KY 727</u>			Project Manager: <u>Kyle Pauley</u>			
Hole Number <u>1018</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/23/2024</u>		Hole Type <u>core and sample</u>		
Surface Elevation <u>1204.5'</u>		Static Water Depth <u>NA</u>		End Date <u>10/23/2024</u>		Rig_Number <u>B-53</u>		
Total Depth <u>37.0'</u>		Driller <u>Cardwell, CJ</u>		Latitude(83) <u>36.935585</u>				
Location <u>1401+91.47 CL</u>				Longitude(83) <u>-84.125405</u>				
Lithology		Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth	Description	Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	
		Crushed limestone over soft, brown, silty clay (topsoil).						
5	1199.5	5.0		SPT-1	3.5-5.0	0.9	3-1-1	SPT
		Brown sandy silt to gray, silty clay.						
10				SPT-2	8.5-10.0	1.3	3-2-2	SPT
	1191.0	13.5						
15	1189.5	15.0	Gray and brown, sandy silty shale(Begin Core)	SPT-3	13.5-15.0	1.4	5-9-13	SPT
	1187.5	17.0	Brown and red sandstone, weathered, (with gray clay mud seams).	0 / 0	2.0	1.5	75	
20			Brown and red sandstone and gray shale, (with brown clay mud seams).	34 / 0	5.0	3.6	72	
	1182.5	22.0						
25			Gray shale.	7 / 0	5.0	5.0	100	
	1177.5	27.0						
30			Gray shale, weathered.	24 / 0	5.0	5.0	100	
	1172.5	32.0						
35				0 / 0	5.0	5.0	100	
40			(Bottom of Hole 37.0')					
45								
50								

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Project ID: <u>S-064-2024</u>		<u>Laurel - I-75 MP 25.9-26.0</u>			Project Type: <u>Structure State Bridge</u>				
Item Number: <u>11-0014.80</u>		<u>KY 727</u>			Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1019</u>		Immediate Water Depth <u>NA</u>		Start Date <u>11/07/2024</u>		Hole Type <u>core and sample</u>			
Surface Elevation <u>1189.1'</u>		Static Water Depth <u>NA</u>		End Date <u>11/07/2024</u>		Rig_Number <u>B-53</u>			
Total Depth <u>26.5'</u>		Driller <u>Cardwell, CJ</u>		Latitude(83) <u>36.935754</u>					
Location <u>1402+54.11 CL</u>				Longitude(83) <u>-84.125364</u>					
Lithology		Overburden		Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth	Description Rock Core		Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
1184.6	4.5	Brown and gray, silty shale (bedrock) (Begin Core)		SPT-1	2.5-4.0	1.5	9-17-19	SPT	
1182.6	6.5	Brown and black shale, weathered.		0 / 0	2.0	1.9	95		6.5
1181.1	8.0	Brown shale, weathered.		0 / 0	5.0	3.9	78		11.5
1177.6	11.5	Gray shale, clayey.							
1172.6	16.5	Gray shale.		0 / 0	5.0	4.4	88		16.5
1162.6	26.5	Gray shale, (with small coal seams).		0 / 0	10.0	10.0	100		26.5
		(Bottom of Hole 26.5')							

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DRILLER'S SUBSURFACE LOG

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Project ID: <u>S-064-2024</u>		<u>Laurel - I-75 MP 25.9-26.0</u>			Project Type: <u>Structure State Bridge</u>				
Item Number: <u>11-0014.80</u>		<u>KY 727</u>			Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1020</u>		Immediate Water Depth <u>NA</u>		Start Date <u>11/06/2024</u>		Hole Type <u>core and sample</u>			
Surface Elevation <u>1189.4'</u>		Static Water Depth <u>NA</u>		End Date <u>11/06/2024</u>		Rig Number <u>B-53</u>			
Total Depth <u>41.8'</u>		Driller <u>Cardwell, C.J</u>		Latitude(83) <u>36.935982</u>					
Location <u>1403+39.11 CL</u>				Longitude(83) <u>-84.125309</u>					
Lithology		Overburden		Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth	Description		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	
1184.4	5.0	Brown and gray, silt with rock fragments.		SPT-1	3.5-5.0	1.0	7-2-1	SPT	
1170.9	18.5	Soft, light brown and gray, silty clay.		SPT-2	8.5-10.0	1.2	0-0-1	SPT	
1169.4	20.0			ST-1	10.0-12.0	1.2		ST	
1166.7	22.7								
1156.7	32.7			ST-2	13.5-15.5	0.5		ST	
1169.4	20.0	Brown and gray, silty, weathered shale (begin Rock Core)		SPT-3	18.5-20.0	1.5	4-5-8	SPT	
1166.7	22.7	Brown and gray shale, weathered.		0 / 0	2.7	2.2	81		22.7
1156.7	32.7	Gray and black shale, clayey, (with coal seams).		32 / 33	10.0	10.0	100		32.7
1151.4	38.0	Gray shale.		89 / 92	9.1	9.1	100		41.8
1147.6	41.8	Gray shale, silty.							
		(Bottom of Hole 41.8')							

Project ID: <u>S-064-2024</u>		<u>Laurel - I-75 MP 25.9-26.0</u>			Project Type: <u>Structure State Bridge</u>				
Item Number: <u>11-0014.80</u>		<u>KY 727</u>			Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1021</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/23/2024</u>		Hole Type <u>core and sample</u>			
Surface Elevation <u>1206.5'</u>		Static Water Depth <u>NA</u>		End Date <u>10/23/2024</u>		Rig Number <u>B-53</u>			
Total Depth <u>61.5'</u>		Driller <u>Cardwell, CJ</u>		Latitude(83) <u>36.936151</u>					
Location <u>1404+01.70 CL</u>				Longitude(83) <u>-84.125267</u>					
Lithology		Description	Overburden	Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	SDI (JS)	
		Brown, silty clay with gray silty shale fragments.							
5			SPT-1	3.5-5.0	1.4	3-6-8	SPT	5	
10		Brown and light gray, silty clay with dark gray silty shale.	SPT-2	8.5-10.0	0.9	1-2-2	SPT	10	
1194.7	11.8								
15		Brown, silt with gray silty shale.	SPT-3	13.5-15.0	1.4	2-4-6	SPT	15	
1189.7	16.8								
20		Red and brown, sandstone.	SPT-4	18.5-20.0	1.5	2-4-7	SPT	20	
25		Brown and orange, silt with light brown sandstone and light gray shale.	SPT-5	23.5-25.0	1.3	2-3-5	SPT	25	
1182.0	24.5								
1181.5	25.0								
30		(Begin Core)	SPT-6	28.5-30.0	1.3	3-5-6	SPT	30	
1176.5	30.0								
		No recovery.	0 / 0	1.5	0.0	0		31.5	
35		Light brown clay, (with sandstone fragments).	0 / 0	5.0	0.7	14			
1170.5	36.0								
		Light gray shale, clayey.						36.5	
40		Brown shale, weathered.	0 / 0	5.0	3.0	60			
1169.0	37.5								
		Dark gray shale, clayey.						41.5	
1165.0	41.5								
45			30 / 0	5.0	4.4	88			
50			50 / 8	5.0	5.0	100		46.5	
								50	

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DRILLER'S SUBSURFACE LOG

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Project ID: <u>S-064-2024</u>		<u>Laurel - I-75 MP 25.9-26.0</u>			Project Type: <u>Structure State Bridge</u>				
Item Number: <u>11-0014.80</u>		<u>KY 727</u>			Project Manager: <u>Kyle Pauley</u>				
Hole Number <u>1021</u>		Immediate Water Depth <u>NA</u>		Start Date <u>10/23/2024</u>		Hole Type <u>core and sample</u>			
Surface Elevation <u>1206.5'</u>		Static Water Depth <u>NA</u>		End Date <u>10/23/2024</u>		Rig_Number <u>B-53</u>			
Total Depth <u>61.5'</u>		Driller <u>Cardwell, CJ</u>		Latitude(83) <u>36.936151</u>					
Location <u>1404+01.70 CL</u>				Longitude(83) <u>-84.125267</u>					
Lithology		Overburden		Sample No.	Depth (ft)	Rec. (ft)	SPT Blows	Sample Type	Remarks
Elevation	Depth	Description		Rock Core	Std/Ky RQD	Run (ft)	Rec (ft)	Rec (%)	
1155.5	51.0	Dark gray shale, clayey.		50 / 8	5.0	5.0	100		51.5
1150.0	56.5	Gray shale.		94 / 71	5.0	5.0	100		56.5
				90 / 86	5.0	5.0	100		61.5
		(Bottom of Hole 61.5')							