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

GEOLOGIST'S SUBSURFACE LOG

Printed: 6/3/16

Project ID: ***S-XXX-2016***	***Ohio - US-0062 MP 11.0-12.0***	Project Type: ***Structure State Bridge***
Item Number: ***###***	***Three Lick Fork***	Project Manager: _

Hole Number ***1001***	Immediate Water Depth ***NA***	Start Date ***06/03/2016***	Hole Type ***core and sample***
Surface Elevation ***406.7'***	Static Water Depth ***NA***	End Date ***06/03/2016***	Rig_Number ***45T***
Total Depth ***18.2'***	Driller ***Mr. Driller***	Latitude(83) ***37.416258***	***GQ-915 Horton***
Location ***14+22.15 20.8' Lt.***	Geologist ***Mr. Geologist***	Longitude(83) ***-86.854147***	

Lithology Elevation	Lithology Depth	Description (Overburden / Rock Core)	Sample No. / Std/Ky RQD	Depth (ft) / Run (ft)	Rec. (ft) / Rec (ft)	SPT Blows / Rec (%)	Sample Type / SDI (JS)	Remarks
		Overburden.						
			ST-1	2.5-4.5	2.0		ST	
5 401.0	5.7	(Begin Core)	SPT-1	5.0-5.7	0.7	20-50/0.20'	SPT	5
400.7	6.0	**Cored Overburden**.						
398.8	7.9	**Sandstone**: *brown, fine grained, shale partings, non-durable.*	44 / 0	2.5	2.4	96	93@7 (5)	8.2
10		**Sandstone**: *drown, medium to coarse grained, cross bedded, water stained, non-durable.*	92 / 86	5.0	5.0	100	91@12 (6)	10 13.2
15 391.7	15.0							15
		Shale: *brown to gray, silty to sandy, fine grained sandstone partings and zones.*	70 / 22	5.0	4.7	94	64@17 (3)	
388.5	18.2							18.2
20		(Bottom of Hole 18.2')						20
25								25
30								30
35								35
40								40
45								45
50								50

Top of Rock = 6.0'
Elevation = 400.7'

Base Weathered Rock = 6.0'
Elevation = 400.7'

ABC is 8 tsf @ 6.0' (400.7')

Tradewater Formation
Caseyville Formation

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Project ID: ***S-XXX-2016***	***Ohio - US-0062 MP 11.0-12.0***	Project Type: ***Structure State Bridge***
Item Number: ***###***	***Three Lick Fork***	Project Manager: _

Hole Number ***1006***	Immediate Water Depth ***NA***	Start Date ***06/03/2016***	Hole Type ***core and sample***
Surface Elevation ***398.2'***	Static Water Depth ***NA***	End Date ***06/03/2016***	Rig_Number ***45T***
Total Depth ***33.4'***	Driller ***Mr. Driller***	Latitude(83) ***37.416209***	***GQ-915 Horton***
Location ***14+82.00 22.0' Rt.***	Geologist ***Mr. Geologist***	Longitude(83) ***-86.853887***	

Lithology Elevation	Lithology Depth	Description (Overburden / Rock Core)	Sample No. / Std/Ky RQD	Depth (ft) / Run (ft)	Rec. (ft) / Rec (ft)	SPT Blows / Rec (%)	Sample Type / SDI (JS)	Remarks
			ST-1	2.5-4.5	2.0		ST	
5								5
			ST-2	5.0-7.0	2.0		ST	
10								10
		Overburden.	ST-3	10.0-12.0	0.0		ST	
			SPT-1	12.0-13.5	0.9	1-1-3	SPT	
15								15
			SPT-2	15.0-16.5	1.5	2-2-2	SPT	
20								20
376.7	21.5	(Begin Core)	SPT-3	20.0-21.5	1.5	5-9-20	SPT	
			95 / 0	1.9	1.8	95		23.4
25		**Shale**: *brownish-gray, clayey, sligtly weathered.*	92 / 0	5.0	5.0	100	21@25 (1)	25
368.8	29.4							28.4
30			64 / 0	5.0	4.7	94	16@30 (1)	30
364.8	33.4	**Shale**: *grey, clayey.*						33.4
35								35
		(Bottom of Hole 33.4')						
40								40
45								45
50								50

Top of Rock = 21.5'
Elevation = 376.7'

Base Weathered Rock = 22.4'
Elevation = 375.8'

ABC is 6 tsf @ 22.4' (375.8')

Tradewater Formation
Caseyville Formation