NCDOT GEOTECHNICAL ENGINEERING UNIT
BORELOG REPORT

WBS 42270.1.1	TIP B-5124	COUNTY NASH	GEOLOGIST Oti, O. B.	
SITE DESCRIPTION BRIDGE NO. 141 ON US 301 (-L-) OVER SWIFT CREEK OVERFLOW				GROUND WTR (ft)
BORING NO. EB1-B	STATION 36+21	OFFSET 3 ft RT	ALIGNMENT -L-	0 HR. N/A
COLLAR ELEV. 93.6 ft	TOTAL DEPTH 73.5 ft	NORTHING 847,903	EASTING 2,369,790	24 HR. 4.0
DRILL RIG/HAMMER EFF./DATE RFO0074 CME-55 92% 07/12/2011		DRILL METHOD Mud Rotary		HAMMER TYPE Automatic
DRILLER Conley, H. R.	START DATE 02/26/14	COMP. DATE 02/26/14	SURFACE WATER DEPTH N/A	

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 25 50 75 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION ELEV. (ft)	DEPTH (ft)
95										93.6 GROUND SURFACE (PAVEMENT)	0.0
	91.4	2.2	1	2	2	4		M-Sat.		91.6 ROADWAY EMBANKMENT TAN AND BROWN, SILTY SAND	2.0
90										86.6 ALLUVIAL TAN, GRAY AND BROWN, SILTY SAND AND SAND WITH GRAVEL	7.0
	86.4	7.2	2	1	1	2		Sat.			
85											
	81.4	12.2	1	3	5	8		Sat.		78.1	15.5
80											
	76.4	17.2	2	3	2	5		Sat.		73.1	20.5
75											
	71.4	22.2	2	7	9	16		Sat.		68.1 COASTAL PLAIN GRAY, GREEN AND BROWN, SILTY CLAY AND SANDY SILT WITH SHELL FRAGMENTS (YORKTOWN FORMATION)	25.5
70											
	66.4	27.2	1	1	1	2		W			
65											
	61.4	32.2	2	3	3	6		W			
60											
	56.4	37.2	8	14	18	32		W			
55											
	51.6	42.0	6	12	13	25		W			
50											
	46.6	47.0	8	15	25	40		W			
45											
	41.6	52.0	25	35	39	74		W			
40										38.1	55.5
	36.6	57.0	7	12	17	29		W			
35											
	31.6	62.0	9	13	15	28		W			
30										28.1 GREEN AND GRAY, SILTY SAND AND SAND WITH GRAVEL	65.5
	26.6	67.0	8	10	14	24		Sat.			
25										23.1	70.5
	21.6	72.0	10	12	14	26		Sat.		20.1 Boring Terminated at Elevation 20.1 ft IN MED. DENSE SAND	73.5

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SITE DESCRIPTION BRIDGE NO. 141 ON US 301 (-L-) OVER SWIFT CREEK OVERFLOW				GROUND WTR (ft)
BORING NO. B1-B	STATION 36+56	OFFSET 3 ft RT	ALIGNMENT -L-	0 HR. N/A
COLLAR ELEV. 86.8 ft	TOTAL DEPTH 67.0 ft	NORTHING 847,938	EASTING 2,369,791	24 HR. N/A
DRILL RIG/HAMMER EFF./DATE RFO0074 CME-55 92% 07/12/2011		DRILL METHOD Mud Rotary		HAMMER TYPE Automatic
DRILLER Conley, H. R.	START DATE 02/25/14	COMP. DATE 02/25/14	SURFACE WATER DEPTH 2.5ft	

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 25 50 75 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
90										WATER SURFACE (02/25/14)
	86.8	0.0								86.8 GROUND SURFACE 0.0
85			1	1	1	2		Sat.		ALLUVIAL TAN AND GRAY SAND WITH GRAVEL
	81.8	5.0								83.3 GRAY AND GREEN, SILTY CLAY 3.5
80			1	1	2	3		W		
	76.8	10.0								78.3 TAN AND GRAY SAND WITH GRAVEL 8.5
75			1	2	3	5		Sat.		
	71.8	15.0								
70			6	5	7	12		Sat.		
	66.3	20.5								67.8 COASTAL PLAIN GREEN, GRAY AND BROWN, SILTY CLAY AND SANDY SILT WITH SHELL FRAGMENTS (YORKTOWN FORMATION) 19.0
65			1	1	2	3	SS-14	W		
	61.3	25.5								62.8
60			1	2	5	7		W		
	56.3	30.5								
55			8	14	18	32		W		
	51.3	35.5								
50			8	10	14	24		W		
	46.3	40.5								
45			12	20	30	50		W		
	41.3	45.5								42.8 44.0
40			15	28	31	59	SS-15	W		
	36.3	50.5								
35			8	11	14	25	SS-16	W		
	31.3	55.5								32.8 GREEN AND GRAY SAND WITH GRAVEL 54.0
30			10	15	18	33		Sat.		
	26.3	60.5								
25			15	50	25	75		Sat.		
	21.3	65.5								
20			9	11	12	23		Sat.		19.8 Boring Terminated at Elevation 19.8 ft IN MED. DENSE SAND 67.0