NCDOT GEOTECHNICAL ENGINEERING UNIT
BORELOG REPORT

WBS 38688.1.2	**TIP** I-0914BA	**COUNTY** VANCE	**GEOLOGIST** Contract Geologist
SITE DESCRIPTION SITE #3: BRIDGE NO. 49 ON -Y5SBL- (US 1 BYPASS) OVER -NBL- (I-85)			**GROUND WTR (ft)**
BORING NO. B2-A	**STATION** 21+52	**OFFSET** 25 ft LT	**ALIGNMENT** -Y5SBL- — **0 HR.** N/A
COLLAR ELEV. 391.8 ft	**TOTAL DEPTH** 69.0 ft	**NORTHING** 954,098	**EASTING** 2,187,970 — **24 HR.** 8.5
DRILL RIG/HAMMER EFF./DATE F&R3495 CME-55 84% 12/14/2012		**DRILL METHOD** H.S. Augers	**HAMMER TYPE** Automatic
DRILLER Contract Driller	**START DATE** 10/22/13	**COMP. DATE** 10/23/13	**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)
395											
										391.8 GROUND SURFACE	0.0
	391.5	0.3								**ROADWAY EMBANKMENT** CONCRETE	0.3
390			WOH	2	5	7		Sat.			
	388.3	3.5								**ROADWAY EMBANKMENT** DARK GRAY, RED, AND BROWN, SILTY CLAY	
			3	3	4	7		W			
385											
	383.3	8.5								383.3 **ALLUVIAL** DARK GRAY, SILTY SANDY CLAY WITH TRACE ORGANICS (WOOD)	8.5
			1	1	2	3		W			
380											
	378.3	13.5									
			1	1	2	3		Sat.			
375											
	373.3	18.5								373.3 **RESIDUAL** WHITE, TAN, ORANGE, AND PINK, SILTY SAND, SAPROLITIC	18.5
			6	5	6	11		M			
370											
	368.3	23.5									
			5	9	16	25		M			
365											
	363.3	28.5									
			11	14	13	27		M			
360											
	358.3	33.5									
			10	10	10	20		M			
355											
	353.3	38.5									
			10	18	30	48		M			
350										350.3 **CRYSTALLINE ROCK** (METAMORPHOSED GRANITIC ROCK)	41.5
	348.3	43.5									
			60/0.0			60/0.0					
345											
							RS-2			343.8 GRAY, WHITE, AND PINK, MODERATELY HARD TO HARD, MODERATELY TO VERY SLIGHTLY WEATHERED, CLOSE TO MODERATELY CLOSE FRACTURE SPACING, METAMORPHOSED GRANITIC ROCK REC=79% RQD=57% RMR=51	48.0
340											
335											
330											
325										322.8 Boring Terminated at Elevation 322.8 ft in CRYSTALLINE ROCK (METAMORPHOSED GRANITIC ROCK)	69.0

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CORE BORING REPORT

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DRILLER Contract Driller	**START DATE** 10/22/13	**COMP. DATE** 10/23/13	**SURFACE WATER DEPTH** N/A
CORE SIZE NQ3	**TOTAL RUN** 21.0 ft		

ELEV (ft)	RUN ELEV (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN REC. (ft) %	RUN RQD (ft) %	SAMP. NO.	STRATA REC. (ft) %	STRATA RQD (ft) %	LOG	DESCRIPTION AND REMARKS ELEV. (ft)	DEPTH (ft)
343.8											Begin Coring @ 48.0 ft	
	343.8	48.0	1.0	3:47/1.0	(1.0)	(0.6)	RS-2	(16.5)	(12.0)		343.8 GRAY, WHITE, AND PINK, MODERATELY HARD TO HARD, MODERATELY TO VERY SLIGHTLY WEATHERED, CLOSE TO MODERATELY CLOSE FRACTURE SPACING, METAMORPHOSED GRANITIC ROCK REC=79% RQD=57% RMR=51	48.0
	342.8	49.0	5.0	2:41/1.0	100%	60%		79%	57%			
				0:56/1.0								
340				1:45/1.0	(3.3)	(1.8)						
				1:25/1.0	66%	36%						
	337.8	54.0		0:45/1.0								
			5.0	1:35/1.0	(3.4)	(2.9)						
				0:59/1.0	68%	58%						
335				1:06/1.0								
				1:42/1.0								
	332.8	59.0		1:52/1.0								
			5.0	1:30/1.0	(4.4)	(3.4)						
				2:28/1.0	88%	68%						
330				2:30/1.0								
				1:25/1.0								
	327.8	64.0		2:15/1.0								
			5.0	2:36/1.0	(4.4)	(3.3)						
				2:11/1.0	88%	66%						
325				2:02/1.0								
				2:13/1.0								
	322.8	69.0		1:13/1.0							322.8 Boring Terminated at Elevation 322.8 ft in CRYSTALLINE ROCK (METAMORPHOSED GRANITIC ROCK)	69.0