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. B1-A	**STATION** 20+65	**OFFSET** 22 ft LT	**ALIGNMENT** -Y5SBL- — **0 HR.** N/A
COLLAR ELEV. 392.9 ft	**TOTAL DEPTH** 62.7 ft	**NORTHING** 954,183	**EASTING** 2,187,982 — **24 HR.** 8.0
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** 10/24/13	**COMP. DATE** 10/24/13	**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											
	392.9	0.0								392.9 GROUND SURFACE	0.0
			1	2	3	5		M		**ROADWAY EMBANKMENT** RED-TAN, CLAYEY SAND WITH TRACE GRAVEL	
390	389.4	3.5								389.4	3.5
			2	1	2	3		M		**ALLUVIAL** GRAY, SILTY SAND	
385	384.4	8.5								386.1	6.8
			1	2	1	3		W		GRAY, SANDY SILT WITH TRACE FINE SAND LAYERS AND ORGANICS (WOOD FRAGMENTS)	
380	379.4	13.5									
			1	0	1	1		Sat.			
375	374.4	18.5								375.9	17.0
			6	7	6	13		W		**RESIDUAL** GRAY, TAN, AND ORGANIC, SILTY SAND, SAPROLITIC	
370	369.4	23.5									
			5	8	11	19		W			
365	364.4	28.5									
			5	8	11	19		W			
360	359.4	33.5								360.9	32.0
			13	27	23	50		M		GRAY, TAN, AND WHITE, SANDY SILT WITH TRACE COARSE SAND , SAPROLITIC	
355	354.4	38.5									
			9	25	35	60		M		352.6	40.3
350	349.4	43.5								**WEATHERED ROCK** (METAMORPHOSED GRANITIC ROCK)	
			100/0.3			100/0.3					
345	344.4	48.5								344.4	48.5
			60/0.0			60/0.0				**CRYSTALLINE ROCK** (METAMORPHOSED GRANITIC ROCK)	
340	340.2	52.7								340.2	52.7
			60/0.0			60/0.0	RS-1			GRAY, WHITE, AND PINK, HARD, SLIGHTLY TO VERY SLIGHTLY WEATHERED, CLOSE TO WIDE FRACTURE SPACING, METAMORPHOSED GRANITIC ROCK REC=94% RQD=90% RMR=60	
335										330.2	62.7
										Boring Terminated at Elevation 330.2 ft in CRYSTALLINE ROCK (METAMORPHOSED GRANITIC ROCK)	

NCDOT GEOTECHNICAL ENGINEERING UNIT
CORE BORING REPORT

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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** 10/24/13	**COMP. DATE** 10/24/13	**SURFACE WATER DEPTH** N/A
CORE SIZE NQ3	**TOTAL RUN** 10.0 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)
340.2											Begin Coring @ 52.7 ft	
	340.2	52.7	3.0	*N=60/0.0* 1:45/1.0 1:55/1.0 1:56/1.0	(3.0) 100%	(2.7) 90%		(9.5) 95%	(7.6) 76%		340.2 GRAY, WHITE, AND PINK, HARD, SLIGHTLY TO VERY SLIGHTLY WEATHERED, CLOSE TO WIDE FRACTURE SPACING, METAMORPHOSED GRANITIC ROCK REC=94% RQD=90% RMR=60	52.7
	337.2	55.7										
335			5.0	1:25/1.0 2:09/1.0 1:53/1.0 1:57/1.0 1:37/1.0	(4.5) 90%	(4.5) 90%	RS-1					
	332.2	60.7										
			2.0	2:07/1.0 2:38/1.0	(2.0) 100%	(0.4) 20%						
	330.2	62.7									330.2	62.7
											Boring Terminated at Elevation 330.2 ft in CRYSTALLINE ROCK (METAMORPHOSED GRANITIC ROCK)	

NCDOT BORE DOUBLE I-0914BA_GEO_BH_BRDG0049.GPJ NC_DOT.GDT 11/14/13