NCDOT GEOTECHNICAL ENGINEERING UNIT
BORELOG REPORT

WBS 38688.1.2	**TIP** I-0914BA	**COUNTY** VANCE	**GEOLOGIST** Contract Geologist	
SITE DESCRIPTION SITE #1: BRIDGE NO. 27 ON -Y1- (NC 39) OVER -NBL-&-SBL- (I-85)				**GROUND WTR (ft)**
BORING NO. EB2-A	**STATION** 22+94	**OFFSET** 20 ft LT	**ALIGNMENT** -Y1-	**0 HR.** N/A
COLLAR ELEV. 449.5 ft	**TOTAL DEPTH** 59.4 ft	**NORTHING** 943,154	**EASTING** 2,173,644	**24 HR.** FIAD
DRILL RIG/HAMMER EFF./DATE SME1524 CME-45B 87% 10/07/2011		**DRILL METHOD** Mud Rotary	**HAMMER TYPE** Automatic	
DRILLER Contract Driller	**START DATE** 10/30/13	**COMP. DATE** 10/30/13	**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)
450										449.5 GROUND SURFACE	0.0
	448.1	1.4								448.2 **ROADWAY EMBANKMENT**	1.3
			3	3	4	7		M		447.5 ASPHALT & CONCRETE	2.0
	446.0	3.5								RED-BROWN, SILTY CLAY	
445			2	2	3	5		M		GRAY AND BROWN, SANDY CLAY	
	443.5	6.0								444.0 **RESIDUAL**	5.5
			3	5	7	12		M		TAN, ORANGE, AND BROWN, SANDY SILT WITH TRACE MICA	
	441.0	8.5									
440			4	5	7	12		M			
	436.0	13.5								437.5 TAN-ORANGE, SILTY SAND WITH TRACE MICA	12.0
435			8	11	14	25		M			
	431.0	18.5									
430			10	16	15	31		M			
	426.0	23.5									
425			4	4	11	15		M			
	421.0	28.5								422.5 TAN-BROWN, SANDY SILT WITH TRACE MICA	27.0
420			9	13	19	32		M			
	416.0	33.5								417.5 TAN-BROWN, SILTY SAND WITH TRACE MICA AND ROCK FRAGMENTS	32.0
415			15	17	18	35		M			
	411.0	38.5								411.5 **WEATHERED ROCK** (MICA-GNEISS)	38.0
410			100/0.5			100/0.5					
	406.0	43.5									
405			100/0.7			100/0.7					
	401.0	48.5									
400			100/0.4			100/0.4					
	396.0	53.5									
395			100/0.4			100/0.4					
	391.0	58.5									
			100/0.4			100/0.4				390.1 Boring Terminated at Elevation 390.1 ft IN WEATHERED ROCK (MICA-GNEISS)	59.4

WBS 38688.1.2	**TIP** I-0914BA	**COUNTY** VANCE	**GEOLOGIST** Contract Geologist	
SITE DESCRIPTION SITE #1: BRIDGE NO. 27 ON -Y1- (NC 39) OVER -NBL-&-SBL- (I-85)				**GROUND WTR (ft)**
BORING NO. EB2-B	**STATION** 22+96	**OFFSET** 21 ft RT	**ALIGNMENT** -Y1-	**0 HR.** N/A
COLLAR ELEV. 449.6 ft	**TOTAL DEPTH** 54.4 ft	**NORTHING** 943,142	**EASTING** 2,173,605	**24 HR.** FIAD
DRILL RIG/HAMMER EFF./DATE SME1524 CME-45B 87% 10/07/2011		**DRILL METHOD** Mud Rotary	**HAMMER TYPE** Automatic	
DRILLER Contract Driller	**START DATE** 10/31/13	**COMP. DATE** 10/31/13	**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	DEPTH (ft)
450										449.6 GROUND SURFACE	0.0
	448.3	1.3								448.3 **ROADWAY EMBANKMENT**	1.3
			3	4	12	16		M		448.0 ASPHALT & CONCRETE	1.6
	446.1	3.5								447.1 BROWN, SILTY TO COARSE SAND AND GRAVEL	2.5
445			5	2	3	5		M		444.1 RED-BROWN, SILTY CLAY	5.5
	443.6	6.0								ORANGE-BROWN, SANDY CLAY	
			6	10	12	22		M		**RESIDUAL**	
	441.1	8.5								TAN-ORANGE, SANDY SILT WITH TRACE MICA	
440			8	14	16	30		M			
	436.1	13.5									
435			6	13	19	32		M			
										432.6 **WEATHERED ROCK** (MICA GNEISS)	17.0
	431.1	18.5									
430			20	34	66/0.3	100/0.8		M			
	426.1	23.5								426.6 **RESIDUAL** TAN-ORANGE, SANDY SILT WITH TRACE MICA	23.0
425			8	14	28	42		M			
	421.1	28.5									
420			13	33	51	84		M			
	416.1	33.5								417.6 **WEATHERED ROCK** (MICA GNEISS)	32.0
415			100/0.2			100/0.2		M			
	411.1	38.5									
410			36	64/0.4		100/0.9		M			
										407.6 **RESIDUAL** ORANGE-BROWN, SILTY SAND WITH TRACE MICA AND ROCK FRAGMENTS	42.0
	406.1	43.5									
405			25	31	49	80		M			
										402.6 **WEATHERED ROCK** (MICA GNEISS)	47.0
	401.1	48.5									
400			75	25/0.0		100/0.5		M			
	396.1	53.5									
			41	59/0.4		100/0.9		M		395.2 Boring Terminated at Elevation 395.2 ft IN WEATHERED ROCK (MICA-GNEISS)	54.4

NCDOT BORE DOUBLE I0914BA_GEO_BH_BRDG0027.GPJ NC_DOT.GDT 12/2/13