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. EB1-A	**STATION** 20+48	**OFFSET** 20 ft LT	**ALIGNMENT** -Y1- — **0 HR.** N/A
COLLAR ELEV. 447.9 ft	**TOTAL DEPTH** 53.7 ft	**NORTHING** 943,392	**EASTING** 2,173,586 — **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											
										447.9 GROUND SURFACE	0.0
	446.6	1.3								446.6 **ROADWAY EMBANKMENT** ASPHALT AND CONCRETE	1.3
445			2	2	3	5		M		RED-BROWN AND GRAY, SILTY CLAY	
	444.4	3.5									
			1	2	1	3		M			
	441.9	6.0									
440			1	2	1	3		M		439.9	8.0
	439.4	8.5								**RESIDUAL** BLUE-GRAY TO TAN-BROWN, SANDY SILT WITH TRACE ROCK FRAGMENTS AND MICA	
			1	3	4	7		M			
435											
	434.4	13.5									
			4	7	8	15		M			
430											
	429.4	18.5									
			2	4	4	8		M			
425											
	424.4	23.5									
			10	10	14	24		M			
420											
	419.4	28.5									
			8	18	36	54		M			
415											
	414.4	33.5									
			12	15	10	25		M			
410											
	409.4	38.5								410.4	37.5
			80	20/0.0		100/0.5				**WEATHERED ROCK** (MICA-GNEISS)	
405											
	404.4	43.5									
			100/0.3			100/0.3					
400											
	399.4	48.5									
			100/0.3			100/0.3					
395											
	394.4	53.5								394.2	53.7
			100/0.2			100/0.2				Boring Terminated at Elevation 394.2 ft	

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. EB1-B	**STATION** 20+58	**OFFSET** 22 ft RT	**ALIGNMENT** -Y1- — **0 HR.** N/A
COLLAR ELEV. 448.0 ft	**TOTAL DEPTH** 53.6 ft	**NORTHING** 943,373	**EASTING** 2,173,547 — **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
450										
										448.0 GROUND SURFACE 0.0
	446.6	1.4								446.7 **ROADWAY EMBANKMENT** 1.3
445			5	3	6	9		M		446.2 ASPHALT & CONCRETE 1.8
	444.5	3.5								BROWN, SILTY TO COARSE SAND WITH GRAVEL
			6	7	5	12		M		
	442.0	6.0								442.5 RED-BROWN, SILTY CLAY 5.5
			2	2	3	5		M		440.7 TAN-BROWN, SANDY CLAY 7.3
440										
	439.5	8.5								**RESIDUAL** TAN-ORANGE, SANDY CLAY
			2	4	5	9		M		
435										436.0 12.0
	434.5	13.5								TAN-ORANGE, SANDY SILT WITH TRACE MICA
			6	10	13	23		M		
430										
	429.5	18.5								
			7	21	23	44		M		
425										
	424.5	23.5								
			3	10	12	22		M		
420										
	419.5	28.5								
			5	6	9	15		M		
415										
	414.5	33.5								
			6	9	14	23		M		
410										
	409.5	38.5								407.0 41.0
			13	21	40	61		M		**WEATHERED ROCK** (MICA-GNEISS)
405										
	404.5	43.5								
			60	40/0.1		100/0.6				
400										
	399.5	48.5								
			46	44	56/0.4	100/0.9				
395										
	394.5	53.5								394.5 53.5
			60/0.1			60/0.1				Boring Terminated at Elevation 394.4 ft