NCDOT GEOTECHNICAL ENGINEERING UNIT
BORELOG REPORT

WBS 38688.1.2	**TIP** I-0914BA	**COUNTY** VANCE	**GEOLOGIST** Contract Geologist
SITE DESCRIPTION SITE #4: DUALS ON -NBL & -SBL- (I-85) OVER -Y7- (FLEMINGTOWN RD.)			**GROUND WTR (ft)**
BORING NO. EB1-A_LL	**STATION** 418+82	**OFFSET** 36 ft LT	**ALIGNMENT** -SBL- — **0 HR.** 22.0
COLLAR ELEV. 497.0 ft	**TOTAL DEPTH** 57.0 ft	**NORTHING** 962,639	**EASTING** 2,194,642 — **24 HR.** FIAD
DRILL RIG/HAMMER EFF./DATE SME3193 CME-550X 80% 06/07/2011		**DRILL METHOD** H.S. Augers	**HAMMER TYPE** Automatic
DRILLER Contract Driller	**START DATE** 11/07/13	**COMP. DATE** 11/07/13	**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)
500											
										497.0 GROUND SURFACE	0.0
495	496.0	1.0	5	5	8	13		M		**ROADWAY EMBANKMENT** ORANGE AND BROWN, SANDY CLAY	
	493.5	3.5	6	6	7	13		M		491.5	5.5
490	491.0	6.0	3	3	4	7		M		ORANGE, BROWN, AND GRAY, SILTY CLAY	
	488.5	8.5	3	2	3	5		M			
485	483.5	13.5	4	4	5	9		M			
480										480.0	17.0
	478.5	18.5	6	7	7	14		M		**RESIDUAL** ORANGE AND BROWN, SANDY CLAY WITH TRACE ROCK FRAGMENTS	
475										475.0	22.0
	473.5	23.5	4	4	4	8		M		TAN-BROWN, CLAYEY SAND	
470										470.0	27.0
	468.5	28.5	2	1	3	4		M		TAN, GRAY, AND WHITE, SANDY SILT WITH TRACE MICA AND ROCK FRAGMENTS	
465										465.0	32.0
	463.5	33.5	4	2	4	6		W		TAN, GRAY, AND WHITE, SILTY SAND WITH TRACE ROCK FRAGMENTS	
460	458.5	38.5	2	3	4	7		W			
455	453.5	43.5	6	7	7	14		W			
450	448.5	48.5	4	5	8	13		W			
445	443.5	53.5	6	25	75/0.2	100/0.7				443.0	54.0
										WEATHERED ROCK (GRANITE)	
440	440.0	57.0	60/0.0			60/0.0				440.0	57.0
										Boring Terminated WITH STANDARD PENETRATION TEST REFUSAL at Elevation 440.0 ft ON CRYSTALLINE ROCK (GRANITE)	

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SITE DESCRIPTION SITE #4: DUALS ON -NBL & -SBL- (I-85) OVER -Y7- (FLEMINGTOWN RD.)			**GROUND WTR (ft)**
BORING NO. EB1-B_LL	**STATION** 418+89	**OFFSET** 7 ft RT	**ALIGNMENT** -SBL- — **0 HR.** N/A
COLLAR ELEV. 497.3 ft	**TOTAL DEPTH** 47.1 ft	**NORTHING** 962,620	**EASTING** 2,194,682 — **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** 11/07/13	**COMP. DATE** 11/07/13	**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
500										
										497.3 GROUND SURFACE 0.0
495	496.3	1.0	3	2	2	4		M		496.3 **ROADWAY EMBANKMENT** 1.0 ASPHALT AND CONCRETE
	493.8	3.5	2	2	3	5		M		RED-BROWN AND ORANGE, SANDY CLAY
490	491.3	6.0	2	2	4	6		M		
	488.8	8.5	1	1	2	3		M		
485	483.8	13.5	2	3	2	5		M		484.8 12.5 RED-BROWN AND ORANGE, SILTY CLAY
480	478.8	18.5	7	4	5	9		M		479.8 17.5 **RESIDUAL** BROWN AND TAN, SANDY CLAY
475	473.8	23.5	3	6	5	11		M		474.8 22.5 WHITE, GRAY, AND ORANGE, CLAYEY SAND
470	468.8	28.5	2	2	3	5		M		469.8 27.5 WHITE AND GRAY, SILTY SAND
465	463.8	33.5	3	3	3	6		W		
460	458.8	38.5	3	3	4	7		W		
455	453.8	43.5	3	3	4	7		M		
	450.2	47.1	60/0.0			60/0.0				450.2 47.1 Boring Terminated WITH STANDARD PENETRATION TEST REFUSAL at Elevation 450.2 ft ON CRYSTALLINE ROCK (GRANITE)