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_RL	**STATION** 420+41	**OFFSET** 14 ft LT	**ALIGNMENT** -NBL- — **0 HR.** N/A
COLLAR ELEV. 497.2 ft	**TOTAL DEPTH** 48.5 ft	**NORTHING** 962,598	**EASTING** 2,194,713 — **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** 11/06/13	**COMP. DATE** 11/06/13	**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											
										497.2 GROUND SURFACE	0.0
	496.2	1.0	3	2	2	4		M		496.2 **ROADWAY EMBANKMENT** ASPHALT AND CONCRETE	1.0
495	493.7	3.5	3	2	3	5		M		RED-BROWN, AND GRAY, SANDY CLAY	
	491.2	6.0	2	2	3	5		M			
490	488.7	8.5	1	1	2	3		M			
485	483.7	13.5	1	3	4	7		M		484.7 RED-BROWN, AND GRAY, SILTY CLAY	12.5
480	478.7	18.5	7	11	9	20		M		480.2 **RESIDUAL** GRAY, SILTY SAND	17.0
475	473.7	23.5	3	4	5	9		M		474.7 GRAY AND ORANGE, CLAYEY SAND	22.5
470	468.7	28.5	2	2	3	5		W		469.7 GRAY AND WHITE, SILTY SAND WITH TRACE MICA	27.5
465	463.7	33.5	4	6	6	12		M			
460	458.7	38.5	11	12	7	19		M			
455	453.7	43.5	6	12	22	34		M			
450	448.7	48.5	60/0.0			60/0.0				448.7 Boring Terminated WITH STANDARD PENETRATION TEST REFUSAL at Elevation 448.7 ft ON CRYSTALLINE ROCK (GRANITE)	48.5

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-B_RL	**STATION** 420+51	**OFFSET** 24 ft RT	**ALIGNMENT** -NBL- — **0 HR.** 28.5
COLLAR ELEV. 497.1 ft	**TOTAL DEPTH** 35.2 ft	**NORTHING** 962,585	**EASTING** 2,194,750 — **24 HR.** FIAD
DRILL RIG/HAMMER EFF./DATE SME1524 CME-45B 87% 10/07/2011		**DRILL METHOD** H.S. Augers	**HAMMER TYPE** Automatic
DRILLER Contract Driller	**START DATE** 11/06/13	**COMP. DATE** 11/06/13	**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											
										497.1 GROUND SURFACE	0.0
	496.1	1.0	4	6	6	12		M		**ROADWAY EMBANKMENT** ORANGE AND BROWN, SILTY CLAY	
495	493.6	3.5	6	5	5	10		M			
	491.1	6.0	3	2	3	5		M			
490	488.6	8.5	3	2	2	4		M			
485	483.6	13.5	4	4	5	9		M			
480	478.6	18.5	5	8	8	16		M		478.1 **ALLUVIAL** GRAY, SILTY SAND	19.0
475	473.6	23.5	6	8	8	16		M		475.1 **RESIDUAL** GRAY AND WHITE, SILTY SAND WITH ROCK FRAGMENTS	22.0
470	468.6	28.5	60/0.1			60/0.1				470.1 **CRYSTALLINE ROCK** (GRANITE)	27.0
465	463.6	33.5	60/0.1			60/0.1					
	462.0	35.1	60/0.1			60/0.1				461.9 Boring Terminated WITH STANDARD PENETRATION TEST REFUSAL at Elevation 461.9 ft IN CRYSTALLINE ROCK (GRANITE)	35.2