NCDOT GEOTECHNICAL ENGINEERING UNIT
BORELOG REPORT

WBS 34352.1.1	**TIP** R-0623	**COUNTY** MONTGOMERY	**GEOLOGIST** Hvozdik, J/Crockett, S
SITE DESCRIPTION Dual Bridges on -L- over Warner Creek			**GROUND WTR (ft)**
BORING NO. B1-A RL	**STATION** 123+47	**OFFSET** 19 ft RT	**ALIGNMENT** -L- / **0 HR.** N/A
COLLAR ELEV. 454.0 ft	**TOTAL DEPTH** 55.5 ft	**NORTHING** 578,458	**EASTING** 1,729,215 / **24 HR.** 5.7
DRILL RIG/HAMMER EFF./DATE AME249533 CME-550X 91% 05/08/2012		**DRILL METHOD** H.S. Augers	**HAMMER TYPE** Automatic
DRILLER Boyce, B	**START DATE** 03/18/13	**COMP. DATE** 03/19/13	**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)
455										454.0 GROUND SURFACE	0.0
	453.0	1.0								**ALLUVIAL** DARK BROWN AND GRAY, SILTY SANDY CLAY (A-6) WITH TRACE ORAGANICS (ROOTS)	
			2	2	1	3		W		451.0	3.0
450	450.5	3.5								DARK BROWN AND GRAY, SANDY SILT (A-4)	
			3	4	4	8				448.5	5.5
	448.0	6.0								**WEATHERED ROCK** LIGHT BROWN AND ORANGE, METAVOLCANIC (FELSIC) TUFF	
			59	41/0.4		100/0.9				446.0	8.0
445	445.5	8.5								**RESIDUAL** LIGHT BROWN, ORANGE, AND PURPLE, SILTY SAND (A-2-4) WITH WR FRAGMENTS, SAPROLITIC	
			39	35	19	54		D		442.0	12.0
440	440.5	13.5								**WEATHERED ROCK** GRAY, BROWN, AND PURPLE, METAVOLCANIC (FELSIC) TUFF	
			100/0.3			100/0.3				437.0	17.0
435	435.5	18.5								**RESIDUAL** BROWN, PURPLE, AND GRAY, SILTY SAND (A-2-4) WITH WR FRAGMENTS, SAPROLITIC	
			9	5	15	20		W		432.0	22.0
430	430.5	23.5								**WEATHERED ROCK** BROWN, ORANGE, AND GRAY, METAVOLCANIC (FELSIC) TUFF	
			100/0.3			100/0.3					
425	425.5	28.5									
			100/0.4			100/0.4					
420	420.5	33.5									
			100/0.3			100/0.3					
415	415.5	38.5									
			100/0.3			100/0.3	RS-2			414.0	40.0
410										412.2 **WEATHERED ROCK** LIGHT BROWN, ORANGE, AND PINK, METAVOLCANIC (FELSIC) TUFF	41.8
										CRYSTALLINE ROCK LIGHT BROWN, PINK, AND LIGHT GRAY, METAVOLCANIC (FELSIC) TUFF W/ WR ZONES AT 50.0'-50.5'	
405											
400										398.5	55.5
										Boring Terminated at Elevation 398.5 ft IN CR: METAVOLCANIC (FELSIC) TUFF	

NCDOT BORE SINGLE R0623_GEO_BRDG_DUAL_BRIDGE_OVER_WARNER_CREEK.GPJ NC_DOT.GDT 6/11/13

NCDOT GEOTECHNICAL ENGINEERING UNIT
CORE BORING REPORT

WBS 34352.1.1	**TIP** R-0623	**COUNTY** MONTGOMERY	**GEOLOGIST** Hvozdik, J/Crockett, S
SITE DESCRIPTION Dual Bridges on -L- over Warner Creek			**GROUND WTR (ft)**
BORING NO. B1-A RL	**STATION** 123+47	**OFFSET** 19 ft RT	**ALIGNMENT** -L- / **0 HR.** N/A
COLLAR ELEV. 454.0 ft	**TOTAL DEPTH** 55.5 ft	**NORTHING** 578,458	**EASTING** 1,729,215 / **24 HR.** 5.7
DRILL RIG/HAMMER EFF./DATE AME249533 CME-550X 91% 05/08/2012		**DRILL METHOD** H.S. Augers	**HAMMER TYPE** Automatic
DRILLER Boyce, B	**START DATE** 03/18/13	**COMP. DATE** 03/19/13	**SURFACE WATER DEPTH** N/A
CORE SIZE NQ	**TOTAL RUN** 15.5 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)
414											Begin Coring @ 40.0 ft	
	414.0	40.0	0.5	1:34/0.5	(0.4)	(0.0)		(1.5)	(0.6)		414.0 **WEATHERED ROCK**	40.0
	413.5	40.5	5.0	3:53/1.0	80%	0%	RS-2	83%	33%		412.2 LIGHT BROWN, ORANGE, AND PINK, SEV. WEATHERED, MED. HARD, V. CLOSELY FRACTURED, METAVOLCANIC (FELSIC) TUFF	41.8
				2:34/1.0								
				3:05/1.0	(4.8)	(3.4)		(13.7)	(9.4)			
410				3:10/1.0	96%	68%		100%	69%			
				3:32/1.0								
	408.5	45.5	5.0	3:07/1.0	(5.0)	(2.4)					**CRYSTALLINE ROCK** LIGHT BROWN, PINK, AND LIGHT GRAY, MOD. TO MOD. SEV. WEATHERED, MED. TO MOD. HARD, MOD. CLOSELY TO V. CLOSELY FRACTURED, METAVOLCANIC (FELSIC) TUFF W/ WR ZONES AT 50.0'-50.5'	
				3:19/1.0	100%	48%						
				3:23/1.0								
405				4:12/1.0								
	403.5	50.5		4:28/1.0							R1=4, R2=13, R3=10, R4=6, R5=4, RMR=37 (CLASS IV - POOR ROCK, TYPE D)	
			5.0	3:12/1.0	(5.0)	(4.2)						
				4:06/1.0	100%	84%						
400				3:40/1.0								
				3:54/1.0								
	398.5	55.5		3:33/1.0							398.5	55.5
											Boring Terminated at Elevation 398.5 ft IN CR: METAVOLCANIC (FELSIC) TUFF	

NCDOT CORE SINGLE R0623_GEO_BRDG_DUAL_BRIDGE_OVER_WARNER_CREEK.GPJ NC_DOT.GDT 6/11/13