



N.C.D.O.T. GEOTECHNICAL UNIT  
BORING LOG

SHEET 18 OF 28

PROJECT NO. 8.2495201		ID. B-3646		COUNTY Guilford		GEOLOGIST G. Licayan/P. Weaver									
SITE DESCRIPTION Bridge 185 Over the Haw River on SR 2712						GROUND WATER (ft)									
BORING NO. B2-B		BORING LOCATION 16+67		OFFSET 6ft RT		ALIGNMENT -L-									
COLLAR ELEV. 608.3 ft		NORTHING 900233.18		EASTING 1839164.72		0 HR. NA									
TOTAL DEPTH 46.0 ft		DRILL MACHINE CME 55		DRILL METHOD Wash Drill/HQ Core		HAMMER TYPE 140 lb. Manual									
DATE STARTED 7/14/03		COMPLETED 7/14/03		SURFACE WATER DEPTH 3.5											
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION			
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100		
611.8		Water Surface Elevation 611.8													
608.3	0.0	River Bottom Elevation 608.3													
604.8	3.5	11	8	5						SS-8	W	608.3 605.8	0.00 2.5	ALLUVIAL: Medium Dense; Black, Tan, and Grey; Silty; Fine to Coarse SAND and Gravel	
602.3	6.0	21	55	39							W			RESIDUAL: Medium Dense to Very Dense, Tan and Orange, Silty, Fine to Coarse SAND With Rock Fragments	
599.8	8.5	20	12	13						SS-9	W				
594.8	13.5	45	41	25							W				
		100/0.5													
												594.8 582.8	13.5 12.8	WEATHERED ROCK: Tan and Orange Metavolcanic Rock CRYSTALLINE ROCK: Tan and Brown, Moderately to Slightly Weathered, Moderately Hard Metavolcanic Rock with Very Close to Close Fracture Spacing	
										RS-2		577.3	31.0	CRYSTALLINE ROCK: Black, White, and Light Grey; Slightly to Very Slightly Weathered; Very Hard Metavolcanic Rock with Moderately Close Fracture Spacing	
												562.3	46.0	Coring Terminated at Elevation 562.3 feet in Crystalline Rock: Metavolcanic Rock	

Note: River Water Alone Used As Drilling Fluid



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CORE BORING REPORT

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SITE DESCRIPTION Bridge 185 Over the Haw River on SR 2712						GROUND WATER (ft)				
BORING NO. B2-B		BORING LOCATION 16+67		OFFSET 6ft RT		ALIGNMENT -L-				
COLLAR ELEV. 608.3 ft		NORTHING 900233.18		EASTING 1839164.72		0 HR. NA				
TOTAL DEPTH 46.0 ft		DRILL MACHINE CME 55		DRILL METHOD Wash Drill/HQ Core		HAMMER TYPE 140 lb. Manual				
DATE STARTED 7/14/03		COMPLETED 7/14/03		SURFACE WATER DEPTH 3.5						
CORE SIZE HQ		TOTAL RUN 32.0 ft		DRILLER C. Heun						
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (ft)%	RQD (ft)%		REC. (ft)%	RQD (ft)%		
										Begin Coring @ 14.0 ft
594.3	14.0	2.0	2:45	(2.0)	(0.0)		(16.0)	(2.7)		CRYSTALLINE ROCK: Tan and Brown, Moderately to Slightly Weathered, Moderately Hard Metavolcanic Rock with Very Close to Close Fracture Spacing  Iron staining of majority of fabric Heavy iron staining of majority of fracture faces Majority of jts @ 35° to 45° Isolated vertical to near vertical and horizontal fractures Numerous partially healed fractures
592.3	16.0	5.0	2:30 2:45 2:30 2:30	100%	0%		94%	16%		
587.3	21.0	5.0	2:30 2:30	(4.3)	(1.7)					
582.3	26.0	5.0	2:30 2:15 1:30 1:30 3:15	(4.9)	(0.0)					
577.3	31.0	5.0	4:15 2:30 2:30 2:25 2:00 2:30	(4.8)	(1.0)					
572.3	36.0	5.0	2:30 3:15 7:15 7:15	(5.0)	(5.0)	RS-2	(15.0)	(14.9)		CRYSTALLINE ROCK: Black, White, and Light Grey; Slightly to Very Slightly Weathered; Very Hard Metavolcanic Rock with Moderately Close Fracture Spacing  Majority of jts @ 10° to 20° 4 jts @ 35° to 45° Very broken 36.0 feet to 36.1 feet  Note: Run #6 shortened to sharpen bit
571.6	36.7	0.7	17:00	(0.7)	(0.6)		100%	99%		
567.3	41.0	5.0	45:00/0.7 3:30 3:30 3:30 3:45 1:30/0.3	(4.3)	(4.3)					
562.3	46.0	5.0	4:30 4:45 6:30 7:15 9:10	(5.0)	(5.0)					
										Coring Terminated at Elevation 562.3 feet in Crystalline Rock: Metavolcanic Rock

NCDOT CORE SINGLE 07103014.GPJ NC\_DOT.GDT 8/5/03

NCDOT BORE LE 07103014.GPJ NC\_DOT.GDT 8/5/03