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

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PROJECT NO. 33296.1.1	**ID No.** B-3848	**COUNTY** Guilford	**GEOLOGIST** G.Licayan/P.Weaver
SITE DESCRIPTION Bridge No. 102 Over Lake Higgins/Brush Creek on SR 2124			**GROUND WATER (ft)**
BORING NO. EB1-A	**BORING LOCATION** 12+90	**OFFSET** 18ft LT	**ALIGNMENT** -L-	**0 HR.** 9.5
COLLAR ELEV. 771.8 ft	**NORTHING** 874755.44	**EASTING** 1734164.86		**24 HR.** 8.0
TOTAL DEPTH 58.8 ft	**DRILL MACHINE** CME45 ATV	**DRILL METHOD** 0.5' HSA	**HAMMER TYPE** 140 lb Manual	
DATE STARTED 5/5/05	**COMPLETED** 5/5/05	**SURFACE WATER DEPTH** NA		

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
771.8									771.8 0.00
770.8	1.0						M		ROADWAY EMBANKMENT FILL: Medium Stiff to Stiff; Grey, Orange and Tan; Silty; Fine to Coarse Sandy CLAY with Trace Root Fragments
768.3	3.5	3	3	4	7				
765.8	6.0	5	4	5	9	SS-1	16.3%		
763.3	8.5	2	2	3	5		▽		763.3 8.5
758.3	13.5	3	2	3	5				760.8 11.0 ROADWAY EMBANKMENT FILL: Medium Stiff, Red and Brown, Clayey, Coarse to Fine Sandy SILT with a Little Mica and Trace Gravel ALLUVIAL: Soft to Medium Stiff, Tan and Grey, Fine to Coarse Sandy, Silty CLAY with a Trace of Mica
753.3	18.5	2	2	2	4	SS-2	37.6%		
748.3	23.5	2	3	2	5		W		750.8 21.0 ALLUVIAL: Soft to Stiff, Tan and Grey, Clayey, Fine to Coarse Sandy SILT with Layers of Fine to Coarse SAND and with Trace Mica and Organics (Decayed Plant Material)
743.3	28.5	3	2	2	4		SAT		
738.3	33.5	2	5	3	8		SAT		
733.3	38.5	3	3	8	11	SS-3	W		737.8 34.0 RESIDUAL: Medium Dense to Very Dense, Red and Tan, Silty, Coarse to Fine SAND with Trace Mica
728.3	43.5	18	23	39	62		W		729.8 42.0 WEATHERED ROCK: Red, Black and Tan METAMORPHOSED GRANITIC ROCK
723.3	48.5	54	46/.3		100/.8				
718.3	53.5	45	55/.4		100/.9				
713.3	58.5	100/.5			100/.5				713.0 58.8 Coring Terminated at Elevation 713.0ft in WEATHERED ROCK: METAMORPHOSED GRANITIC ROCK
		100/.3			100/.3				

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PROJECT NO. 33296.1.1	**ID No.** B-3848	**COUNTY** Guilford	**GEOLOGIST** G.Licayan/P.Weaver
SITE DESCRIPTION Bridge No. 102 Over Lake Higgins/Brush Creek on SR 2124			**GROUND WATER (ft)**
BORING NO. EB1-B	**BORING LOCATION** 12+90	**OFFSET** 16ft RT	**ALIGNMENT** -L-	**0 HR.** 9.5
COLLAR ELEV. 771.9 ft	**NORTHING** 874728.36	**EASTING** 1734144.30		**24 HR.** 8.0
TOTAL DEPTH 55.5 ft	**DRILL MACHINE** CME 45 ATV	**DRILL METHOD** 0.5' HSA	**HAMMER TYPE** 140 lb Manual	
DATE STARTED 5/6/05	**COMPLETED** 5/6/05	**SURFACE WATER DEPTH** NA		

ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	BLOWS PER FOOT 0 20 40 60 80 100	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
771.9									771.9 0.00
770.9	1.0						M		ROADWAY EMBANKMENT FILL: Loose, Red and Tan, Clayey, Silty, Fine to Coarse SAND with Trace Organics (Decayed Plant Material), Gravel and Mica
768.4	3.5	4	3	3	6				766.9 5.0
765.9	6.0	3	2	3	5		M		ROADWAY EMBANKMENT FILL: Soft to Medium Stiff, Tan and Red, Clayey, Fine to Coarse Sandy SILT with Trace Organics (Decayed Plant Material) and Mica
763.4	8.5	2	2	2	4		▽		Note: Natural Moisture Content for 55.4ft = 25.3%
758.4	13.5	2	2	3	5	SS-4			
753.4	18.5	2	3	3	6		M		755.9 16.0 ALLUVIAL: Soft, Grey, Fine to Coarse Sandy, Silty, CLAY with Trace Organics (Decayed Plant Material)
748.4	23.5	2	1	1	2		W		749.9 22.0
743.4	28.5	4	6	3	9		SAT		ALLUVIAL: Loose, Grey, Fine to Coarse SAND
738.4	33.5	2	2	1	3	SS-5	26.4%		745.9 26.0 ALLUVIAL: Soft, Grey, Clayey, Coarse to Fine Sandy SILT with Trace Mica
733.4	38.5	2	4	10	14		W		737.9 34.0
728.4	43.5	8	13	15	28		M		RESIDUAL: Medium Dense, Brown and Tan, Silty, Coarse to Fine SAND with Trace Mica
723.4	48.5	18	45	55/.4	100/.9				727.9 44.0
718.4	53.5	80	20/.1		100/.6				WEATHERED ROCK: White, Brown and Tan METAMORPHOSED GRANITIC ROCK
716.4	55.5	100/.5			100/.5				716.4 55.5
		60/0			60/0				Boring Terminated with SPT Refusal at Elevation 716.4ft on CRYSTALLINE ROCK: METAMORPHOSED GRANITIC ROCK

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