



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. B2-B	BORING LOCATION 13+79		OFFSET 21ft RT	ALIGNMENT -L-	0 HR. NA	24 HR. NA							
COLLAR ELEV. 760.9 ft	NORTHING 874670.63		EASTING 1734212.08										
TOTAL DEPTH 64.1 ft	DRILL MACHINE CME 45 SKID	DRILL METHOD Wash Rotary/NQ Core		HAMMER TYPE 140 lb Manual									
DATE STARTED 5/16/05	COMPLETED 5/18/05	SURFACE WATER DEPTH 4.0 ft											
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
764.9													Water Surface
													Mud Line
759.9	1.0	2	1	1								W	ALLUVIAL: Soft to Very Stiff, Tan and Grey, Clayey, Coarse to Fine Sandy SILT with Trace Mica
757.4	3.5	2	1	2								W	
754.9	6.0	4	7	10								W	
752.4	8.5	5	7	10								W	
747.4	13.5	1	1	1								W	
742.4	18.5	5	5	5								SAT	ALLUVIAL: Loose to Medium Dense; Tan, Grey and Orange; Fine to Coarse SAND with a Little Gravel and a Trace of Silt
737.4	23.5	5	10	11								SS-12 SAT	
732.4	28.5	10	9	15								W	RESIDUAL: Medium Dense to Very Dense; Black, White and Tan; Silty; Fine to Coarse SAND with a Little Rock Fragments and Trace Mica
727.4	33.5	38	34	29								SS-13 W	
722.4	38.5	80	20/1										WEATHERED ROCK: Black, White, Tan to Brown; Severely Weathered; Very Soft to Soft; METAMORPHOSED GRANITIC ROCK with Very Close Fracture Spacing
716.8	44.1	65	35/2										CRUSTALLINE ROCK: Black, White and Grey; Moderately to Slightly Weathered; Moderately Hard to Hard; METAMORPHOSED GRANITIC ROCK with Very Close to Close Fracture Spacing
												RS-2	CRUSTALLINE ROCK: Black, White to Tan and Grey with a Little Pink; Very Slightly Weathered to Fresh; Very Hard; METAMORPHOSED GRANITIC ROCK with Wide Fracture Spacing
													CRUSTALLINE ROCK: Black, White to Tan and Grey with a Little Pink; Very Slightly Weathered to Fresh; Hard to Very Hard; METAMORPHOSED GRANITIC ROCK with Close to Moderately Close Fracture Spacing
													Boring Terminated at Elevation 696.8ft in CRYSTALLINE ROCK: METAMORPHOSED GRANITIC ROCK
Note: Drilling Fluid = Lake Water Alone													



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COLLAR ELEV. 760.9 ft	NORTHING 874670.63		EASTING 1734212.08							
TOTAL DEPTH 24.3 ft	DRILL MACHINE CME 45 SKID	DRILL METHOD Wash Rotary/NQ Core		HAMMER TYPE 140 lb Manual						
DATE STARTED 5/16/05	COMPLETED 5/18/05	SURFACE WATER DEPTH 4.0ft								
CORE SIZE NQ		TOTAL RUN 24.3 ft		DRILLER R.Toothman						
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (%)	RQD (%)		REC. (%)	RQD (%)		
										Begin Coring @ 39.1 ft
721.8	39.1	5.0	:40 1:00 1:10 :55 1:20	(0.0) 0%	(NA)		(0.3) 4%	(NA)		721.8 WEATHERED ROCK: Black, White and Tan to Brown; Severely Weathered; Very Soft to Soft; METAMORPHOSED GRANITIC ROCK with Very Close Fracture Spacing 39.1
716.8	44.1									
716.1	44.8	4.3	N=100/7 :20/0.3 :55	(1.3) 30%	(0.4) 9%					712.9
711.8	49.1	5.0	1:10 1:25 3:00	(3.8) 76%	(3.3) 66%		(2.0) 61%	(0.9) 27%		709.6
706.8	54.1	5.0	3:20 1:10 3:25 4:15 5:00	(4.7) 94%	(4.4) 88%	RS-2	(7.1) 100%	(7.1) 100%		702.5
701.8	59.1	5.0	4:25 5:05 5:45 7:30 9:30	(4.6) 92%	(4.3) 86%		(5.0) 88%	(4.4) 77%		696.8
696.8	64.1		5:10 5:05 5:10 7:10 7:30							
4 Joints at 60 to 70 Degrees with Some Iron Staining 7 Joints at 10 to 20 Degrees Sand Layer at +/- 50' to +/- 51' CRYSTALLINE ROCK: Black, White to Tan and Grey with a Little Pink; Very Slightly Weathered to Fresh; Very Hard; METAMORPHOSED GRANITIC ROCK with Wide Fracture Spacing No Natural Breaks CRYSTALLINE ROCK: Black, White to Tan and Grey with a Little Pink; Very Slightly Weathered to Fresh; Hard to Very Hard; METAMORPHOSED GRANITIC ROCK with Close to Moderately Close Fracture Spacing 7 Joints at 10 to 20 Degrees Coring Terminated at Elevation 696.8 in CRYSTALLINE ROCK: METAMORPHOSED GRANITIC ROCK										

07105012.GPJ NC_DOT_GDT 6/20/05

NC DOT CORE SINGLE 07105012C.GPJ NC_DOT_GDT 6/20/05