



WBS ELEMENT NO.33454.1.1		ID No.	COUNTY Davidson		GEOLOGIST P. Weaver/P. Alton										
SITE DESCRIPTION Bridge 140 Over Rich Fork Creek on US 29-70/I-85 Business						GROUND WATER (ft)									
BORING NO. EB2-A		BORING LOCATION 21+79		OFFSET 21ft LT	ALIGNMENT -L-		0 HR. NM								
COLLAR ELEV. 671.7 ft		NORTHING 772045.46		EASTING 1651550.74		24 HR. 17.0									
TOTAL DEPTH 47.5 ft		DRILL MACHINE CME 850		DRILL METHOD Wash Rotary		HAMMER TYPE 140 lb. Automatic									
DATE STARTED 3/4/04		COMPLETED 3/4/04		SURFACE WATER DEPTH NA											
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION			
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100		
671.7												671.7	0.00		
670.7	1.0	2	2	2							M	668.7	3.0	ROADWAY EMBANKMENT FILL: Loose, Brown with Some Black, Silty, Fine to Coarse SAND with a Little Mica	
668.2	3.5	2	4	4							SS-16	21.4%	666.2	5.5	ROADWAY EMBANKMENT FILL: Medium Stiff to Stiff, Brown with Some Black, Clayey, Coarse to Fine Sandy SILT
665.7	6.0	4	2	3							W		666.2		ROADWAY EMBANKMENT FILL: Medium Stiff to Stiff, Brown-Orange to Brown-Tan, Coarse to Fine Sandy, Silty CLAY with a Little Gravel
663.2	8.5	4	5	4							W				
658.2	13.5	2	2	3							SS-17	26.2%			
653.2	18.5	4	4	6							W		652.7	19.0	ALLUVIAL: Medium Stiff to Stiff, Grey, Clayey, Coarse to Fine Sandy SILT
648.2	23.5	5	4	5							W				
643.2	28.5	2	3	5							W				
638.2	33.5	18	21	30							M		638.2	33.5	RESIDUAL: Hard, Dark Grey and White, Coarse to Fine Sandy SILT
633.2	38.5	25	41	29							SS-18		633.2	38.5	Very Dense, Brown and White, Silty, Fine to Coarse SAND with a Little Gravel
628.2	43.5	25	20	80/0.4									627.2	44.5	WEATHERED ROCK: Brown and Grey, Metadiorite
624.2	47.5	60/0.0											624.2	47.5	Boring Terminated with SPT Refusal at Elevation 624.2 feet on Crystalline Rock: Metadiorite

NCDOT BORE SINGLE 07104004.GPJ NC\_DOT.GDT 3/22/04

Note: Drill fluid = creek water + bentonite  
Mud density = 65.0 lbs./cu. ft.



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SITE DESCRIPTION Bridge 140 Over Rich Fork Creek on US 29-70/I-85 Business						GROUND WATER (ft)									
BORING NO. EB2-B		BORING LOCATION 21+60		OFFSET 24ft RT	ALIGNMENT -L-		0 HR. NM								
COLLAR ELEV. 670.4 ft		NORTHING 771996.74		EASTING 1651549.23		24 HR. 17.5									
TOTAL DEPTH 33.1 ft		DRILL MACHINE CME 45		DRILL METHOD HSA		HAMMER TYPE 140 lb. Manual									
DATE STARTED 3/5/04		COMPLETED 3/5/04		SURFACE WATER DEPTH NA											
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION			
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100		
670.4												670.4	0.00		
669.4	1.0	3	2	4							SS-19	22.5%	667.4	3.0	ROADWAY EMBANKMENT FILL: Medium Stiff, Brown with Black, Clayey, Coarse to Fine Sandy SILT
666.9	3.5	2	4	6							W		663.4	7.0	ROADWAY EMBANKMENT FILL: Stiff, Brown and Grey, Silty, Coarse to Fine Sandy CLAY
664.4	6.0	1	3	5							M				
661.9	8.5	3	2	3							SS-20	35.9%			
656.9	13.5	2	3	5							S		653.4	17.0	ROADWAY EMBANKMENT FILL: Medium Stiff to Stiff, Brown-Orange to Brown and Grey, Coarse to Fine Sandy, Silty CLAY with a Trace of Gravel and Organics (Leaf Fragments)
651.9	18.5	2	4	6							S				ALLUVIAL: Stiff, Grey, Clayey, Coarse to Fine Sandy SILT
646.9	23.5	3	4	6							SS-21		647.4	23.0	RESIDUAL: Loose to Medium Dense, Brown-Yellow, Clayey, Fine to Coarse SAND
641.9	28.5	5	7	9							M		640.9	29.5	Very Stiff, Brown and Grey, Coarse to Fine Sandy SILT
637.3	33.1	60/0.0											637.3	33.1	Boring Terminated with SPT Refusal at Elevation 637.3 feet on Crystalline Rock: Metadiorite

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