



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

SHEET 1 OF 2

PROJECT NO. 8.1631801		ID. R-2911A		COUNTY Iredell		GEOLOGIST G. Licayan							
SITE DESCRIPTION Dual Bridges on -L- (US 70) Over -Y5A-, -Y5-, and -Y5B- (NSRR)							GROUND WATER (m)						
BORING NO. B1-B LT		BORING LOCATION 39+51.2		OFFSET 5.4m LT	ALIGNMENT -L-		0 HR. NM						
COLLAR ELEV. 257.21 m		NORTHING 223637.80		EASTING 447318.38		24 HR. 7.32							
TOTAL DEPTH 27.81 m		DRILL MACHINE CME 850		DRILL METHOD Wash Rotary/HQ Core		HAMMER TYPE 63.5 kg Auto							
DATE STARTED 11/25/02		COMPLETED 11/26/02		SURFACE WATER DEPTH NA									
ELEV. (m)	DEPTH (m)	BLOW COUNT			BLOWS PER 30 CM					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	
		15cm	15cm	15cm	0	20	40	60	80				100
257.21													257.21 0.00
256.91	0.30	3	4	5								M	RESIDUAL: Stiff to Medium Stiff Black, Tan, and Red Clayey Coarse to Fine Sandy SILT with a Trace of Root Fragments
256.14	1.07	2	3	3								M	
255.38	1.83	2	3	3								M	
254.62	2.59	2	3	4								M	Loose to Very Dense Black, Tan, White, Red, and Orange Clayey Silty Coarse to Fine SAND with Some Mica
253.09	4.12	2	4	4								SS-6 W	
251.57	5.64	3	3	5								W	
250.05	7.16	4	7	8								W	
248.52	8.69	3	5	5								SS-7 W	
247.00	10.21	3	5	5								W	
245.48	11.73	5	7	10								W	
243.95	13.26	8	13	14								W	
242.43	14.78	12	26	43								M	
240.90	16.31	8	21	21								M	
239.38	17.83	65	35/2									M	239.68 17.53
238.48	18.73											M	239.21 WEATHERED ROCK: Black, White, and Tan Biotite Gneiss 18.00 WEATHERED ROCK: White, Black, and Brown; Severely Weathered; Very Soft Biotite Gneiss with Very Close Fracture Spacing

NCDOT BORE SINGLE 07102019.GPJ NC_DOT.GDT 1/16/03



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BORING LOG

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SHEET 2 OF 2

PROJECT NO. 8.1631801		ID. R-2911A		COUNTY Iredell		GEOLOGIST G. Licayan							
SITE DESCRIPTION Dual Bridges on -L- (US 70) Over -Y5A-, -Y5-, and -Y5B- (NSRR)							GROUND WATER (m)						
BORING NO. B1-B LT		BORING LOCATION 39+51.2		OFFSET 5.4m LT	ALIGNMENT -L-		0 HR. NM						
COLLAR ELEV. 257.21 m		NORTHING 223637.80		EASTING 447318.38		24 HR. 7.32							
TOTAL DEPTH 27.81 m		DRILL MACHINE CME 850		DRILL METHOD Wash Rotary/HQ Core		HAMMER TYPE 63.5 kg Auto							
DATE STARTED 11/25/02		COMPLETED 11/26/02		SURFACE WATER DEPTH NA									
ELEV. (m)	DEPTH (m)	BLOW COUNT			BLOWS PER 30 CM					SAMP. NO.	LOG MOI	SOIL AND ROCK DESCRIPTION	
		15cm	15cm	15cm	0	20	40	60	80				100
238.21													Continued from previous page
													237.54 19.67
													CRYSTALLINE ROCK: White and Black; Moderately to Slightly Weathered; Moderately Hard to Hard Biotite Gneiss with Close Fracture Spacing
													236.85 20.36
													WEATHERED ROCK: White, Brown, and Black; Very Severely Weathered; Very Soft Biotite Gneiss with Very Close Fracture Spacing [Hard White, Brown, and Black Coarse to Fine SAND with Some Mica (A-2-4)]
													235.70 21.51
235.48	21.73												235.38 21.83
													WEATHERED ROCK: White and Black; Severely Weathered; Soft to Medium Hard Biotite Gneiss with Very Close to Close Fracture Spacing
													CRYSTALLINE ROCK: White and Black; Moderately to Slightly Weathered; Medium Hard to Moderately Hard Biotite Gneiss with Close Fracture Spacing
													229.40 27.81
													Coring Terminated at Elevation 229.40m in Crystalline Rock: Biotite Gneiss
													Avg. drilling fluid density=±1.04 grams per cu cm with ±1 milliliter of polymer per liter of tap water

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