



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 RT		BORING LOCATION 39+54.4		OFFSET 13.0m RT		ALIGNMENT -L-				
COLLAR ELEV. 257.07 m		NORTHING 223619.13		EASTING 447317.91		0 HR. 6.86				
TOTAL DEPTH 24.93 m		DRILL MACHINE CME 850		DRILL METHOD Wash Rotary/HQ Core		24 HR. 7.39				
DATE STARTED 11/19/02		COMPLETED 11/21/02		SURFACE WATER DEPTH NA						
CORE SIZE HQ		TOTAL RUN 8.02 m		DRILLER R. Toothman						
ELEV. (m)	DEPTH (m)	RUN (m)	DRILL RATE (Min/0.3m)	REC. (m) (%)	RQD (m) (%)	SAMP. NO.	STRATA REC. (m) (%)	RQD (m) (%)	LOG	DESCRIPTION AND REMARKS
										Begin Coring @ 16.60 m
240.47	16.60	0.69	0:05/0.01	(87%)	(NA)		(87%)	(NA)		Brown and Red, Very Severely Weathered, Very Soft Biotite Gneiss with Very Close Fracture Spacing [Hard Brown and Red Fine Sandy SILT (A-4) with Some Mica]
239.78	17.29		2:30 1:40				(84%)	(NA)		
239.61	17.46	1.35	0:25/0.07 N=100/17	(81%)	(NA)		(84%)	(NA)		WEATHERED ROCK: Brown, Black, and White; Severely Weathered; Soft Biotite Gneiss with Very Close to Close Fracture Spacing
238.26	18.81		0:45/0.13 1:45 1:05 0:50 1:15			RS-3				2 jts @ 50° 1 jt @ 80° with light iron staining Remaining jts @ 10° to 20°
238.16	18.91	1.42	N=100/10 3:15/0.20	(99%)	(65%)		(100%)	(86%)		CRYSTALLINE ROCK: White and Black; Moderately to Slightly Weathered; Moderately Hard Biotite Gneiss with Moderately Close to Close Fracture Spacing
236.74	20.33		5:25 3:35 2:45 2:55				(82%)	(NA)		
236.70	20.37	0.56	N=50/4 6:30/0.26	(89%)	(89%)		(82%)	(NA)		Majority of jts @ 20° to 30° 1 jt @ 60° with iron staining
236.14	20.93		21.45 3:25/0.35	(95%)	(88%)		(90%)	(0.45)		Very broken (very close fracture spacing) 19.59m to 19.66m and 19.84m to 19.94m with moderate iron staining
235.18	21.89	0.96	4:45 3:20	(95%)	(88%)		(99%)	(98%)		WEATHERED ROCK: White, Black, and Orange; Severely Weathered; Very Soft to Soft Biotite Gneiss with Very Close Fracture Spacing
233.66	23.41	1.52	3:30 4:40 5:05 5:35 8:00	(100%)	(100%)		(99%)	(3.63)		Measurable fractures @ 60° with heavy iron staining Note: Change core bit @ 20.93m CRYSTALLINE ROCK: White and Black; Moderately Weathered; Moderately Hard Biotite Gneiss with Close Fracture Spacing
232.14	24.93	1.52	3:00 3:55 3:05 2:30 3:05	(96%)	(88%)		(80%)	(40%)		4 jts @ 10° to 20° CRYSTALLINE ROCK: White and Black; Slightly to Very Slightly Weathered; Hard Biotite Gneiss with Moderately Close to Wide Fracture Spacing
							(0.24)	(0.12)		Very close fracture spacing 21.72m to 21.89m with 3 jts @ 20° to 30° and 1 jt @ 60° 2 jt @ 60° Very close fracture spacing 24.14m to 24.16m Note: Core block at 21.89m CRYSTALLINE ROCK: White and Black; Moderately Weathered Medium Hard Biotite Gneiss with Very Close to Close Fracture Spacing 4 jts @ 10° to 20° Very soft and disintegrated rock in jt @ 24.58m to 24.60m Coring Terminated at Elevation 232.14m in Crystalline Rock: Biotite Gneiss

NCDOT CORE SINGLE 07102019.GPJ NC\_DOT.GDT 1/16/03