

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 GEOTECHNICAL UNIT BORING LOG

SHEET OF

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 GEOTECHNICAL UNIT CORE BORING REPORT

PROJECT NO 8.2822102	ID B-3350	COUNTY IREDELL	GEOLOGIST STICKNEY
SITE DESCRIPTION BRIDGE 292 ON SR 1832 AT HUNTING CREEK			GND WATER
BORING NO B1-A	NORTHING 0.00	EASTING 0.00	0 HR N/A
ALIGNMENT -L-	BORING LOCATION 16+80.000	OFFSET 5.15ft LT	24 HR N/A
COLLAR ELEV 859.81ft	TOTAL DEPTH 14.00ft	START DATE 6/13/02	COMPLETION DATE 06/13/02
DRILL MACHINE MOBILE B-57	DRILL METHOD NX WIRELINE	HAMMER TYPE MANUAL	

PROJECT NO: 8.2822102 PROJECT ID: B-3350 COUNTY: Iredell
 SITE DESCRIPTION: Bridge 292 on SR 1832 at Hunting Creek
 BORING NO: B1-A BORING LOCATION (STA): -L-16+80
 COLLAR ELEV: 859.81' PERSONNEL: MLS, JCM, CEB
 TOTAL DEPTH: 14.0' DRILL MACHINE:
 TOTAL RUN: 13.5' DRILL EQUIP: B-57

GEOLOGIST: J.K. STICKNEY
 DRILLER: C.L. SMITH
 OFFSET: 5.15 Lt.
 CORE SIZE: NXWL
 DATE STARTED: 06/13/02
 DATE COMPLETED: 06/13/02

ELEV	DEPTH	BLOW CT			PEN (ft)	BLOWS PER FOOT					SAMPLE NO	LOG	SOIL AND ROCK DESCRIPTION	
		6in	6in	6in		0	25	50	75	100				
859.81														Ground Surface
														ALLUVIAL SAND
														GRAY TO RED-BRN OR WHITE, HARD, WELL FOLIATED, FRESH QUARTZ BIOTITE GNEISS W/ WIDE SPACED FRACTURES. REC 100%, RQD 100%
850.00														GRAY TO RED-BRN OR WHITE, HARD, WELL FOLIATED, FRESH QUARTZ BIOTITE GNEISS W/ WIDE SPACED FRACTURES REC 100%, RQD 100%
845.81														GRAY TO RED-BRN OR WHITE, HARD, WELL FOLIATED, FRESH QUARTZ BIOTITE GNEISS W/ WIDE SPACED FRACTURES REC 100%, RQD 100%

ELEV. (FT)	DEPTH (FT)	DRILL RATE (MIN/1.0 FT)	RUN NO.	REC % (FT)	RQD % (FT)	SAMPLE NO.	FIELD CLASSIFICATION AND REMARKS
	0.5'	2.74		100%	100%		0'-4.0' Gray to light reddish brown, hard, fresh, quartz biotite garnet quartzite to paragneiss. Unfractured except by bedding parallel machine breaks. Fold axis are visible in core but majority of bedding dip is at 10 degrees or less. Some augen are bedding parallel.
	4.0'	3.4		100%	100%		4.0' to 6.0' Rock is similar to above but contains welded fault gouge with a 40 degree dip. Light green, possible epidote. Seems to "bracket" quartz feldspar pegmatite.
	8.85'	nm		100%	100%	8.0' RS-4	6' - 10' Gray to light reddish gray, fresh, hard quartz-biotite garnet quartzite to paragneiss. Bedding / foliation has 15 degree dip, but core contains fold axis. Rock is unfractured except with bedding parallel machine breaks.
	14.0'						10' -12' welded fault zone, or mylonite zone, light green, hard, 45 degree dip, pegmatite at end.
							12' - 14' hard, fresh unfractured quartz-biotite garnet paragneiss.

NOTES