SHEET OF

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

PROJECT NO: 8.1770801 **PROJECT ID:** R3427 **COUNTY:** Yadkin **GEOLOGIST:** J.K. STICKNEY
SITE DESCRPTION: Bridge 30 on US 601 at South Deep Creek **DRILLER:** C.L. SMITH
BORING NO: B1-A **BORING LOCATION (STA):** 236+33-L- **OFFSET:** 16LT
COLLAR ELEV: 754.21 **PERSONNEL:** CLS, CEB, JKS **CORE SIZE:** NXWL
TOTAL DEPTH: 39.2 **DRILL MACHINE:** CME-550 **DATE STARTED:** 09/11/02
TOTAL RUN: **DRILL EQUIP:** **DATE COMPLETED:** 09/11/02

ELEV. (FT)	DEPTH (FT)	DRILL RATE (MIN/1.0 FT)	RUN NO.	REC % (FT)	RQD % (FT)	SAMPLE NO.	FIELD CLASSIFICATION AND REMARKS
733.41	20.8	1	1	100%	100%		20.8' - 22.4' Hard, fresh, moderately close spaced fractures, Feldspar-biotite augen gneiss. Foliation has a persistant 20 degree dip. Probably metamorphosed granite.
731.81	22.4	2	2	26%	08%		22.4' - 26.6' Moderately severe to severely weathered, moderately hard, very close fractured biotite feldspar augen gneiss. Poor recovery, weathered fracture or soft biotitic zone.
727.61	26.6	2	3	100%	100%		26.6' - 29.6'Hard, fresh, moderately close spaced fractures, Feldspar-biotite augen gneiss. Foliation has a persistant 20 degree dip. Probably metamorphosed granite.
724.61	29.6	2	4	98%	98%	30.9 R-1 31.5	29.6' - 34.5' Hard, fresh, moderately close spaced fractures, Feldspar-biotite augen gneiss. Foliation has a persistant 20 degree dip. Probably metamorphosed granite.
719.71 715.01	34.5 39.2	2.5	5	100%	100%		34.5' - 39.2' Hard, fresh, moderately close spaced fractures, Feldspar-biotite augen gneiss. Foliation has a persistant 20 degree dip. Probably metamorphosed granite.

NOTES

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
GEOTECHNICAL UNIT BORING LOG

PROJECT NO 8.1770801	ID R-3427	COUNTY YADKIN	GEOLOGIST J. STICKNEY
SITE DESCRIPTION BRIDGE # 30 ON NC 601 AT SOUTH DEEP CREEK			GND WATER
BORING NO B1-A	NORTHING 0.00	EASTING 0.00	0 HR N/A
ALIGNMENT -L-	BORING LOCATION 236+33.000	OFFSET 16.00ft LT	24 HR N/A
COLLAR ELEV 754.21ft	TOTAL DEPTH 39.20ft	START DATE 9/10/02	COMPLETION DATE 09/10/02
DRILL MACHINE CME-550	DRILL METHOD NW CAS/NXWL		HAMMER TYPE AUTOMATIC
SURFACE WATER DEPTH	DEPTH TO ROCK 20.80ft		Log B1-A, Page 1 of 1

ELEV	DEPTH	BLOW CT 6in	6in	6in	PEN (ft)	BLOWS PER FOOT 0 25 50 75 100	SAMPLE NO	▼/MOI	LOG	SOIL AND ROCK DESCRIPTION
754.21						Ground Surface				
750.00	4.90	0	0	0	1.0	0				0-13.4 ALLUVIAL, GREY, MOIST, VERY LOOSE SILTY FINE SAND
	9.90	0	0	0	1.0	0				
740.00	14.90	15	16	17	1.0	33	SS-5	M		13.4-20.8 RESIDUAL MOIST DENSE TO V. DENSE, GRAY WHITE MICACEOUS SILTY SAND
	19.10	9	13	45	1.0	58	SS-6	M		
730.00										20.8-39.2 META GRANITE, T.D. 39.2
715.01						TRI-CONE REFUSAL AT 20.8, CONTINUE WITH CORE.				