



# MACTEC

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

SHEET 1 OF 1

PROJECT NO. 112.1044010		ID.		COUNTY Haywood		GEOLOGIST B. Deobald								
SITE DESCRIPTION I-40 Slide at Mile Marker 1; Site 4							GROUND WATER (ft)							
BORING NO. MB-10		BORING LOCATION 21+90		OFFSET 76 ft LT		ALIGNMENT -EL4-		0 HR. 0.0						
COLLAR ELEV. 1,552.9 ft		NORTHING 759,942 US ft		EASTING 789,621 US ft				24 HR. ND						
TOTAL DEPTH 29.5 ft		DRILL MACHINE D-50 ATV		DRILL METHOD Rotary Wash/Core		HAMMER TYPE 140-lb. Manual								
DATE STARTED 1/5/05		COMPLETED 1/6/05		SURFACE WATER DEPTH N/A										
ELEV. (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG	SOIL AND ROCK DESCRIPTION		
		0.5ft	0.5ft	0.5ft	0	20	40	60	80				100	
1,552.9													Ground Surface	
1,552.9	0.0	8	15	23								M	1,552.9 0.0	Roadway Embankment Fill: Gray and tan, silty, f. to cse. SAND (A-2-4) and METAGRAYWACKE gravel
1,548.6	4.3	4	8	13								M/W		
1,543.5	9.4	4	5	4								M/W		
													1,540.5 12.4	Crystalline Rock: Dark to light gray, very slightly weathered to fresh, closely to widely fractured, very hard, METAGRAYWACKE (3 joints at 10-20°; 5 joints at 45° w/ Fe stain; 1 joint 60° w/ Fe stain; 2 joints at 90° w/ Fe stain)
													1,523.4 29.5	Boring and coring terminated at 29.5 ft (Elev. 1523.4 ft) in Crystalline Rock: Very slightly weathered to fresh, closely to moderately closely fractured, very hard METAGRAYWACKE  Bits Used: Series 2 casing bit w/ advancer; series 10 NQ core bit  Drilling Fluid: Water

NCDOT BORE SINGLE 0900.GPJ NC\_DOT.GDT 1/24/05



# MACTEC

## N.C.D.O.T. GEOTECHNICAL UNIT CORE BORING REPORT

SHEET 23

SHEET 1 OF 1

PROJECT NO. 112.1044010		ID.		COUNTY Haywood		GEOLOGIST B. Deobald				
SITE DESCRIPTION I-40 Slide at Mile Marker 1; Site 4							GROUND WATER (ft)			
BORING NO. MB-10		BORING LOCATION 21+90		OFFSET 76 ft LT		ALIGNMENT -EL4-		0 HR. 0.0		
COLLAR ELEV. 1,552.9 ft		NORTHING 759,942 US ft		EASTING 789,621 US ft				24 HR. ND		
TOTAL DEPTH 29.5 ft		DRILL MACHINE D-50 ATV		DRILL METHOD Rotary Wash/Core		HAMMER TYPE 140-lb. Manual				
DATE STARTED 1/5/05		COMPLETED 1/6/05		SURFACE WATER DEPTH N/A						
CORE SIZE NQ		TOTAL RUN 21.4 ft		DRILLER T. Hahn						
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (ft) %	ROD (ft) %		REC. (ft) %	ROD (ft) %		
										Begin Coring @ 5.8 ft
1,547.1	5.8	3.6	0:35 2:00	(N/A)	(N/A)		(N/A)	(N/A)		Roadway Embankment Fill: Gray and tan, silty, f. to cse. SAND (A-2-4) and METAGRAYWACKE gravel
1,543.5	9.4		4:20 1:10/0.6 N=9							
1,541.2	11.7	0.7	4:10	(N/A)	(N/A)		(17.1)	(14.7)		1,540.5 12.4
1,540.5	12.4	2.1	3:50 2:15/0.8	(2.1) 100%	(2.1) 100%		100%	86%		Crystalline Rock: Dark to light gray, very slightly weathered to fresh, closely to widely fractured, very hard, METAGRAYWACKE (3 joints at 10-20°; 5 joints at 45° w/ Fe stain; 1 joint 60° w/ Fe stain; 2 joints at 90° w/ Fe stain)
1,538.4	14.5	5.0	2:55 3:15 4:00 2:30 3:05	(5.0) 100%	(4.8) 96%					
1,533.4	19.5	5.0	4:00 3:00 3:30 3:00 3:00	(5.0) 100%	(4.5) 90%					
1,528.4	24.5	5.0	2:40 3:05 3:10 3:00	(5.0) 100%	(3.3) 66%					
1,523.4	29.5		2:40							1,523.4 29.5
										Coring terminated at 29.5 ft (Elev. 1523.4 ft) in Crystalline Rock: Very slightly weathered to fresh, closely to moderately closely fractured, very hard METAGRAYWACKE

NCDOT BORE SINGLE 0900.GPJ NC\_DOT.GDT 1/24/05