



MACTEC

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

SHEET 1 OF 1

PROJECT NO. 112.1044010		ID.		COUNTY Haywood		GEOLOGIST B. Parks							
SITE DESCRIPTION I-40 Slide between Mile Marker 4 and 5; Site 5							GROUND WATER (ft)						
BORING NO. MB-4		BORING LOCATION 24+34		OFFSET 5 ft RT		ALIGNMENT -EY-		0 HR. FIAD					
COLLAR ELEV. 1,828.1 ft		NORTHING 753,639 US ft		EASTING 800,618 US ft				24 HR. FIAD					
TOTAL DEPTH 45.6 ft		DRILL MACHINE CME-45C trailer		DRILL METHOD Rotary Wash/Core		HAMMER TYPE 140-lb. Manual							
DATE STARTED 1/12/05		COMPLETED 1/13/05		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
1,828.1													Ground
1,825.2	2.9												1,828.1 Asphalt
1,822.5	5.6	15	85/0.5										1,827.4 Roadway Embankment Fill: Tan brown to brown, silty f. to cse. SAND (A-2-4) with METAGRAYWACKE gravel
1,817.5	10.6	7	7	8									1,823.9 Roadway Embankment Fill: METAGRAYWACKE Boulder 1,823.1 Roadway Embankment Fill: METAGRAYWACKE Boulder Roadway Embankment Fill: Tan and gray, silty, f. to cse. SAND (A-1-b) and METAGRAYWACKE gravel, cobbles, and boulders
													1,801.5 Crystalline Rock: Dark gray to gray, very slightly weathered to fresh, closely to widely fractured, hard to very hard, METAGRAYWACKE (3 joints at 45-55°, a quartz vein cross-cutting at 45° at 30 ft, and a small fracture zone between 37.3-38.2 ft)
													1,782.5 Boring and coring terminated at 45.6 ft (Elev. 1782.5 ft) in Crystalline Rock: Very slightly weathered to fresh, widely fractured, hard to very hard, METAGRAYWACKE

NCDOT BORE SINGLE 0900.GPJ NC_DOT.GDT 1/24/05



MACTEC

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

SHEET 31 OF 32

SHEET 1 OF 1

PROJECT NO. 112.1044010		ID.		COUNTY Haywood		GEOLOGIST B. Parks				
SITE DESCRIPTION I-40 Slide between Mile Marker 4 and 5; Site 5							GROUND WATER (ft)			
BORING NO. MB-4		BORING LOCATION 24+34		OFFSET 5 ft RT		ALIGNMENT -EY-		0 HR. FIAD		
COLLAR ELEV. 1,828.1 ft		NORTHING 753,639 US ft		EASTING 800,618 US ft				24 HR. FIAD		
TOTAL DEPTH 45.6 ft		DRILL MACHINE CME-45C trailer		DRILL METHOD Rotary Wash/Core		HAMMER TYPE 140-lb. Manual				
DATE STARTED 1/12/05		COMPLETED 1/13/05		SURFACE WATER DEPTH N/A						
CORE SIZE NQ		TOTAL RUN 38.4 ft		DRILLER F. Cox						
ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN		SAMP. NO.	STRATA		LOG	DESCRIPTION AND REMARKS
				REC. (%)	RQD (%)		REC. (%)	RQD (%)		
										Begin Coring @ 4.2 ft
1,823.9	4.2	1.4	7:00	(N/A)	(N/A)		(N/A)	(N/A)		1,823.9 Roadway Embankment Fill: METAGRAYWACKE Boulder
1,822.5	5.6		2:26/0.4							1,822.5 Roadway Embankment Fill: Tan and gray, silty, f. to cse. SAND (A-1-b) and METAGRAYWACKE gravel, cobbles, and boulders
1,821.0	7.1	3.5	2:05	(N/A)	(N/A)					
1,817.5	10.6		4:20							
			3:45							
1,816.0	12.1	3.5	4:15	(N/A)	(N/A)					
1,812.5	15.6		3:20							
			3:45							
			2:15							
1,807.5	20.6	5.0	1:55/0.5	(N/A)	(N/A)					
			6:00							
			1:45							
			2:45							
			2:15							
			2:55							
			10:00	(N/A)	(N/A)					
			7:00							
			2:10							
			2:50							
1,802.5	25.6	5.0	1:55							
1,801.5	26.6	1.0	2:45	(N/A)	(N/A)					1,801.5 Crystalline Rock: Dark gray to gray, very slightly weathered to fresh, closely to widely fractured, hard to very hard, METAGRAYWACKE (3 joints at 45-55°, a quartz vein cross-cutting at 45° at 30 ft, and a small fracture zone between 37.3-38.2 ft)
			12:55	(2.9)	(2.4)		(17.5)	(15.8)		
			9:30	73%	60%		92%	83%		
			5:15							
1,797.5	30.6	5.0	9:45	(4.7)	(4.3)					
			9:15	94%	86%					
			12:50							
			14:10							
1,792.5	35.6	5.0	23:50							Changed core bits from Series 2 to Series 10 at 35.6 ft.
			5:45	(5.0)	(4.2)					
			6:00	100%	84%					
			4:35							
			4:50							
1,787.5	40.6	5.0	4:30							
			5:00	(4.9)	(4.9)					
			4:45	98%	98%					
			6:00							
1,782.5	45.6		4:45							1,782.5 Coring terminated at 45.6 ft (Elev. 1782.5 ft) in Crystalline Rock: Very slightly weathered to fresh, widely fractured, hard to very hard, METAGRAYWACKE
			5:15							

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