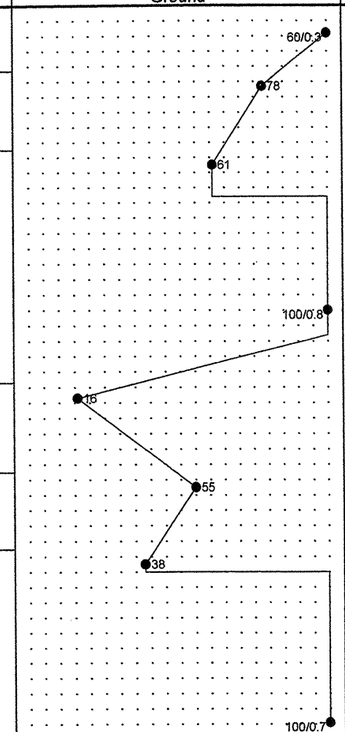
MACTEC

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 between Mile Marker 4 and 5; Site 5			**GROUND WATER (ft)**
BORING NO. MB-6	**BORING LOCATION** 26+33	**OFFSET** 5 ft RT	**ALIGNMENT** -EY- — 0 HR. FIAD
COLLAR ELEV. 1,837.6 ft	**NORTHING** 753,789 US ft	**EASTING** 800,749 US ft	24 HR. FIAD
TOTAL DEPTH 69.6 ft	**DRILL MACHINE** D-50 ATV	**DRILL METHOD** Rotary Wash/Core	**HAMMER TYPE** 140-lb. Manual
DATE STARTED 1/6/05	**COMPLETED** 1/12/05	**SURFACE WATER DEPTH** N/A	



ELEV. (ft)	DEPTH (ft)	BLOW COUNT 0.5ft	0.5ft	0.5ft	SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION
1,837.6								Ground
1,836.1	1.5	60/0.3						Asphalt (1,836.6; 1.0) — Roadway Embankment Fill: Tan, silty, f. to cse. SAND (A-2-4) with METAGRAYWACKE gravel
1,833.3	4.3	23	30	48		M		
1,828.1	9.5	26	36	25		M		
1,825.0	12.6							Roadway Embankment Fill: METAGRAYWACKE Boulder (1,821.9; 15.7)
1,818.4	19.2	8	92/0.3					Roadway Embankment Fill: Tan, silty, f. to cse. SAND (A-2-4) with METAGRAYWACKE gravel (1,817.6; 20.0)
1,816.0	21.6							Roadway Embankment Fill: METAGRAYWACKE Boulder
1,812.9	24.7	11	7	9		M/W		Roadway Embankment Fill: Gray and tan, silty, f. to cse. SAND (A-2-4) with METAGRAYWACKE gravel
1,807.1	30.5	21	39	16		M/W		
1,802.1	35.5	23	15	23		M/W		
1,800.6	37.0							
1,799.3	38.3							Roadway Embankment Fill: METAGRAYWACKE Boulder
1,795.9	41.7							Roadway Embankment Fill: Gray and tan, silty, f. to cse. SAND (A-2-4) with METAGRAYWACKE gravel and cobbles
1,791.4	46.2	8	92/0.2					
1,790.7	46.9							Crystalline Rock: Orange and dark to light gray, very slightly to moderately weathered, very closely to moderately closely fractured, hard to very hard, METAGRAYWACKE (40 joints at 10-20°, 19 joints at 40-50° and 1 joint at 80° all with Fe staining)
1,768.0	69.6							Boring and coring terminated at 69.6 ft (Elev. 1768.0 ft) in Crystalline Rock: Slightly to very slightly weathered, very closely to closely fractured, very hard, METAGRAYWACKE

Bits Used: Series 2 casing bit w/ advancer; series 2 and series 10 NQ core bits
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 32 OF 32

SHEET 1 OF 1

PROJECT NO. 112.1044010	**ID.**	**COUNTY** Haywood	**GEOLOGIST** B. Deobald
SITE DESCRIPTION I-40 Slide between Mile Marker 4 and 5; Site 5			**GROUND WATER (ft)**
BORING NO. MB-6	**BORING LOCATION** 26+33	**OFFSET** 5 ft RT	**ALIGNMENT** -EY- — 0 HR. FIAD
COLLAR ELEV. 1,837.6 ft	**NORTHING** 753,789 US ft	**EASTING** 800,749 US ft	24 HR. FIAD
TOTAL DEPTH 69.6 ft	**DRILL MACHINE** D-50 ATV	**DRILL METHOD** Rotary Wash/Core	**HAMMER TYPE** 140-lb. Manual
DATE STARTED 1/6/05	**COMPLETED** 1/12/05	**SURFACE WATER DEPTH** N/A	
CORE SIZE NQ	**TOTAL RUN** 43.4 ft	**DRILLER**	

ELEV. (ft)	DEPTH (ft)	RUN (ft)	DRILL RATE (Min/ft)	RUN REC. (ft) %	RUN RQD (ft) %	SAMP. NO.	STRATA REC. (ft) %	STRATA RQD (ft) %	LOG	DESCRIPTION AND REMARKS
										Begin Coring @ 1.8 ft
1,835.8	1.8	2.5	0:30 1:00 0:30/0.5 N=78	(N/A)	(N/A)		(N/A)	(N/A)		Roadway Embankment Fill: Tan, silty, f. to cse. SAND (A-2-4) with METAGRAYWACKE gravel
1,833.3	4.3		N=61							
1,825.0	12.6	1.6	7:50 8:00/0.6	(N/A)	(N/A)					Roadway Embankment Fill: METAGRAYWACKE Boulder (1,821.9; 15.7)
1,823.4	14.2	5.0	8:00 13:00 2:00 0:10 1:50 N=100/0.8	(N/A)	(N/A)					Roadway Embankment Fill: Tan, silty, f. to cse. SAND (A-2-4) with METAGRAYWACKE gravel (1,817.6; 20.0)
1,818.4	19.2									
1,817.6	20.0	4.4	8:30 18:30 2:15 2:15 0:10/0.4 N=16	(N/A)	(N/A)					Roadway Embankment Fill: METAGRAYWACKE Boulder (1,816.0; 21.6) — Roadway Embankment Fill: Gray and tan, silty, f. to cse. SAND (A-2-4) with METAGRAYWACKE gravel
1,813.2	24.4		N=55							
1,800.6	37.0	4.7	4:10 1:45 0:10 1:30 1:45/0.7	(N/A)	(N/A)					Roadway Embankment Fill: METAGRAYWACKE Boulder (1,799.3; 38.3) — Roadway Embankment Fill: Gray and tan, silty, f. to cse. SAND (A-2-4) with METAGRAYWACKE gravel and cobbles
1,795.9	41.7	2.5	1:45 1:50 1:10/0.5 N=100/0.7	(N/A)	(N/A)					
1,793.4	44.2									
1,790.7	46.9	2.7	6:20 4:00 2:00/0.7	(2.7) 100%	(0.0) 0%		(20.9) 92%	(10.7) 47%		Crystalline Rock: Orange and dark to light gray, very slightly to moderately weathered, very closely to moderately closely fractured, hard to very hard, METAGRAYWACKE (40 joints at 10-20°, 19 joints at 40-50° and 1 joint at 80° all with Fe staining)
1,788.0	49.6	5.0	3:35 5:40 5:00 3:10 3:00	(4.2) 84%	(1.5) 30%					
1,783.0	54.6	5.0	3:30 3:00 7:25 6:45 4:30	(4.0) 80%	(2.3) 46%					
1,778.0	59.6	5.0	4:30 7:00 9:15 11:15 8:15	(5.0) 100%	(4.2) 84%					
1,773.0	64.6	5.0	3:00 4:30 3:50 4:10 4:00	(5.0) 100%	(2.7) 54%					
1,768.0	69.6									Coring terminated at 69.6 ft (Elev. 1768.0 ft) in Crystalline Rock: Slightly to very slightly weathered, very closely to closely fractured, very hard, METAGRAYWACKE

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