



NCDOT GEOTECHNICAL ENGINEERING UNIT BORELOG REPORT

PROJECT NO. 34379.1.17	ID. R-2123CE	COUNTY Mecklenburg	GEOLOGIST D. Goodnight
SITE DESCRIPTION I-485 (Charlotte Eastern Outer Loop) at I-85			GROUND WTR (ft)
BORING NO. DB-13	STATION 47+50	OFFSET CL	ALIGNMENT Ramp F
COLLAR ELEV. 667.0 ft	TOTAL DEPTH 91.6 ft	NORTHING 586,466	EASTING 1,482,979
DRILL MACHINE CME 850	DRILL METHOD Wash Rotary/NQ Core	HAMMER TYPE Automatic	
DRILLER R. Toothman	START DATE 06/18/10	COMP. DATE 06/22/10	SURFACE WATER DEPTH N/A

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)	
670															667.0	0.0
665																
660	663.5	3.5	12	18	21									M		
655	658.5	8.5	8	13	26									M	658.0	9.0
650	653.5	13.5	13	34	42									M	655.5	11.5
645	648.5	18.5	14	25	30									M		
640	643.5	23.5	80	20/0.1										M	645.0	22.0
635	638.5	28.5	67	33/0.2												
630	633.5	33.5	75	25/0.1												
625	628.5	38.5	43	57/0.2												
620	623.5	43.5	100/0.3													
615	618.5	48.5	58	42/0.2												
610	613.5	53.5	100/0.3													
605	608.5	58.5	30	70/0.3												
600	603.5	63.5	60/0.1												603.4	63.6
595															596.6	70.4
590																

NCDOT BORE SINGLE 111643.GPJ NC_DOT.GDT 6/23/10



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			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)	
590						Match Line										
585									587.4	79.6	Gray and White, Slightly to Very Slightly Weathered, Medium Hard to Moderately Hard, Metamorphosed Quartz Diorite with Close Fracture Spacing and Many High Angle Healed Fractures with White and Green Infilling or Coatings on Fracture Faces
580									580.4	86.6	
575									575.4	91.6	Dark Gray, Very Slightly Weathered to Fresh, Hard, Metamorphosed Quartz Diorite with Close to Moderately Close Fracture Spacing and White to Green Infillings or Coatings on Fracture Spaces
570																Boring Terminated at Elevation 575.4 ft in Crystalline Rock: Metamorphosed Quartz Diorite
565																Bentonite and Tap Water Used as Drilling Fluid Mud Wt. = 64 lbs./cubic ft. initially
560																
555																
550																
545																
540																
535																
530																
525																
520																
515																
510																

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CORE PHOTOGRAPHS

DB-13

BOXES 1 & 2: 63.6 - 86.6 FEET



FEET



CORE PHOTOGRAPHS

DB-13

BOX 3: 86.6 - 91.6 FEET

