



NCDOT GEOTECHNICAL ENGINEERING UNIT BORELOG REPORT

WBS 32635.1.3	TIP B-2500	COUNTY Dare	GEOLOGIST Hatfield
SITE DESCRIPTION Bridge No.11 (Bonner Bridge) on NC 12 over Oregon Inlet			GROUND WTR (ft)
BORING NO. B-67	STATION N/A	OFFSET N/A	0 HR. 4.1
COLLAR ELEV. 4.7 ft	TOTAL DEPTH 110.0 ft	NORTHING 751,598	24 HR. FIAD
DRILL RIG/HAMMER EFF./DATE SME R-2 DIEDRICH D-50 87% 6/2/2011		DRILL METHOD NW Casing and 2 7/8 Tricone	HAMMER TYPE Automatic
DRILLER Walker, J.	START DATE 06/01/11	COMP. DATE 06/01/11	SURFACE WATER DEPTH N/A

ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	LOG MOI	L O G	SOIL AND ROCK DESCRIPTION	DEPTH (ft)	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100						ELEV. (ft)
5															GROUND SURFACE	0.0
0	1.2	3.5	3	5	6										COASTAL PLAIN Gray Coarse to Fine SAND with Trace of Silt and Shell Fragments	
-5	-3.8	8.5	2	1	1											
-10	-8.8	13.5	8	10	10											
-15	-13.8	18.5	6	8	11											
-20	-18.8	23.5	2	7	5											
-25	-23.8	28.5	7	11	13											
-30	-29.1	33.8	4	5	6											
-35	-33.8	38.5	8	9	7											
-40	-38.8	43.5	5	7	8											
-45	-43.8	48.5	8	8	5											
-50	-48.8	53.5	WOH	WOH	1										Gray Fine Sandy Silty CLAY	51.5
-55	-53.8	58.5	WOH	1	WOH											
-60	-58.8	63.5	2	1	2										Gray Silty Clayey Fine to Coarse SAND with Trace of Shell Fragments	61.0
-65	-63.8	68.5	3	2	3											
-70	-68.8	73.5	13	15	19											
-75	-73.8	78.5	7	8	10										Gray Coarse to Fine SAND with Trace of Silt and Clay	67.5

NCDOT BORE SINGLE B-2500_GINT.GPJ NC_DOT.GDT 8/11/20



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SITE DESCRIPTION Bridge No.11 (Bonner Bridge) on NC 12 over Oregon Inlet							GROUND WTR (ft)									
BORING NO. B-67		STATION N/A		OFFSET N/A		ALIGNMENT N/A	0 HR. 4.1									
COLLAR ELEV. 4.7 ft		TOTAL DEPTH 110.0 ft		NORTHING 751,598		EASTING 3,031,624	24 HR. FIAD									
DRILL RIG/HAMMER EFF./DATE SME R-2 DIEDRICH D-50 87% 6/2/2011				DRILL METHOD NW Casing and 2 7/8 Tricone		HAMMER TYPE Automatic										
DRILLER Walker, J.		START DATE 06/01/11		COMP. DATE 06/01/11		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)	
-75						Match Line										
-80	-78.8	83.5	6	6	7								Sat.		Gray Coarse to Fine SAND with Trace of Silt and Clay (continued)	
-85	-83.8	88.5	14	23	27								SS-527 Sat.		Gray Coarse to Fine SAND	86.8
-90	-88.8	93.5	19	24	28								Sat.			
-95	-93.8	98.5	10	20	24								SS-528 Sat.		Gray Fine SAND with Trace of Clay	97.5
-100	-98.8	103.5	39	61/0.4									SS-529 Sat.		Gray Fine to Coarse SAND	102.0
-105	-103.8	108.5	26	37	61								Sat.		Gray Fine to Coarse SAND	110.0
															Boring Terminated at Elevation -105.3 ft in Gray Coarse to Fine SAND 1) Advanced NW casing to 38.5 feet (40 feet total used). 2) Advanced 2 7/8 Tricone to 110.0 feet. 3) Fresh water used as drilling fluid. 4) Approximate drilling fluid density 64.4 pcf. 5) Some loss of drilling fluid observed. 6) Shelby tube ST-1 Taken from 57 to 59 feet	

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