



**NCDOT GEOTECHNICAL ENGINEERING UNIT  
FIELD BORELOG (ENGLISH)**

PROJECT NUMBER 32635.1.3	ID B-2500	CO Dare	GEO Bradley/Plummer	GROUND WATER 0 HOUR 24 HOUR
SITE DESC Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet				Depth to WATER N/A N/A
BORING NUMBER B-57	STA 200.1	OFFSET FT	ALIGNMENT EAST	Depth to BTTM - -
ELEVATION FT	TOTAL DEPTH FT	NORTH	EAST	
DRILL MACHINE CME-350x	DRILL EQMT NUMBER	DRILL METHOD H casing 1 3/8" Tri-cone	HAMMER TYPE Auto	
START DATE 5/20/11	COMP DATE 5/21/11	SURFACE WTR DEPTH 16.3 FT	DEPTH TO ROCK N/A FT	DRILLER J. White M.K. M

DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT				SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION
	0.5 ft	0.5 ft	0.5 ft	0	25	50	75				
3.0										Landfill	
5	1	1	2	3				SS 91/30-45	SAT	Coastal plain Deposit	Gray silty fine SAND (A-2.4)
9.0										Ref 5591	
10	work	1	3	4					SAT		Gray silty fine SAND (A-2.4)
13.0										SS 92/130-145	
15	2	4	9	13					SAT		4 5 1 4 f A (A)
18.0											
20	6	6	3	19					SAT		G 4 5 4 A
22.7										SS 93/22.7	
25	4	5	7	12					SAT		Gray silty fin w/ f sm 4
27.7										Ref 5593	
30	6	6	8	14					SAT		Gray SAND 9
32.5										SS 94/32.5-34.0	
35	2	3	5	8					SAT		G 0 1
37.5										Ref 5594	
	8	11	16	27					SAT		G Gray silty fine SAND (A-2.4)

NOTES  
 1) Advanced H casing T. 29.8 feet (52.4 Total)  
 2) Advanced 3 1/8" Tri-cone T. 198.6 feet  
 3) Ocean H<sub>2</sub>O used as drilling fluid  
 4) Approx drilling fluid density  
 DECK TO DATUM DISTANCE FT \_\_\_\_\_  
 DRILLING FLUID PROPERTIES \_\_\_\_\_  
 5) Some loss of drilling fluid observed  
 FINAL CASING DEPTH FT \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
 RED LINE \_\_\_\_\_





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PROJECT NUMBER 32635.1.3	ID B-2500	CD Dare	GEO Bradley/Plummer	GROUND WATER 0 HOUR	24 HOUR
SITE DESC Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet				Depth to WATER	
BORING NUMBER B-57	STA	OFFSET FT	ALIGNMENT EAST	Depth to BTM	
ELEVATION FT	TOTAL DEPTH 200.1 FT	NORTH	EAST	DATE	
DRILL MACHINE CME-550x	DRILL EQMT NUMBER	DRILL METHOD H Casing / 3 7/8" Tri-cone	HAMMER TYPE Auto		
START DATE 5/20/11	COMP DATE 5/21/11	SURFACE WTR DEPTH 16.3 FT	DEPTH TO ROCK N/A FT		

DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT	SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION
	0.5 ft	0.5 ft	0.5 ft					
83.8	7	8	12	20	Ref SS-99	SAT		Grey silty fine SAND (A-2.4)
88.8	15	20	21	41	SS-100/88.8-90.3	SAT		Grey silty fine T. coarse SAND (A-2.4)
93.8	12	21	19	40	Ref SS-100	SAT		Grey silty fine T. coarse SAND (A-2.4)
98.5	14	18	19	37	SS-101/98.5-100.0	SAT		Grey silty fine T. coarse SAND (A-2.4)
107.9	19	29	25	47	Ref SS-101	SAT		GRAY SILTY FINE TO COARSE SAND (A-2.4)
107.9	11	25	32	31	SS-102/107.9-109.4	SAT		GRAY SILTY FINE TO COARSE SAND (A-2.4)
112.9	15	16	21	37	Ref SS-102	SAT		GRAY SILTY FINE TO COARSE SAND (A-2.4)
117.5	15	22	25	47	SS-103/117.5-119.0	SAT		GRAY SILTY FINE TO COARSE SAND / TRAC SMALL F.C. (A-2.4)

NOTES	SIGNATURE	DATE
DECK TO DATUM DISTANCE	FT	
DRILLING FLUID PROPERTIES		
FINAL CASING DEPTH	FT	



**NCDOT GEOTECHNICAL ENGINEERING UNIT  
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PROJECT NUMBER 32635.1.3	IP B-2500	CO Dare	GEO Bradley/Plummer	GROUND WATER 0 HOUR	24 HOUR
SITE DESC Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet				Depth to WATER	
BORING NUMBER B-57	STA	OFFSET FT	ALIGNMENT EAST	Depth to BTM	
ELEVATION FT	TOTAL DEPTH 200.1 FT	NORTH	EAST	DATE	
DRILL MACHINE CMESSEX	DRILL EQMT NUMBER	DRILL METHOD H CASING / 3/4" RECOVER BIT	HAMMER TYPE Auto		
START DATE 5/20/2014	COMP DATE 5/21/14	SURFACE WTR DEPTH 16.3 FT	DEPTH TO ROCK N/A FT	DRILLER M. MOSELY	

DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT	SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION
	0.5 ft	0.5 ft	0.5 ft					
122.0	22	26	40		REF S103	67		GRAY SILTY FINE TO COARSE SAND (A-2-4)
17.0	25	45	58.4		SS 104/122-124	SAT		(GRAY SILTY FINE TO COARSE SAND (A-2-4))
132.0	6	7	5		NO RECOVERY	N/A		NO RECOVERY
137.0	3	4	7		SS 105/137.00-138.5	M		GRAY SILTY CLAY w/ TRACE SMALL FRAGMENTS (A-7-5)
142.5	4	5	10		REF S105	M		GRAY SILTY CLAY w/ TRACE SMALL FRAGMENTS (A-7-5)
149.0	3	5	9		SS 104/149.0-149.5	M		GRAY SILTY CLAY w/ TRACE SMALL FRAGMENTS (A-7-5)
153.0	4	6	7		REF S106	M		GRAY SILTY CLAY w/ TRACE SMALL FRAGMENTS (A-7-5)
156.0	2	3	6		SS 107/156.0-157.5			GRAY SILTY (CLAY) (A-7-5)

NOTES

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DECK TO DATUM DISTANCE \_\_\_\_\_ FT

DRILLING FLUID PROPERTIES \_\_\_\_\_

FINAL CASING DEPTH \_\_\_\_\_ FT

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

NOTES

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RED LINE



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PROJECT NUMBER 32635.1.3	ID B-2500	CO Dare	GEO Bradley/Plummer	GROUND WATER 0 HOUR	24 HOUR
SITE DESC Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet				DEPTH TO WATER	
BORING NUMBER B-07	STA 200.1	OFFSET FT	ALIGNMENT EAST	DEPTH TO BTM	
ELEVATION FT	TOTAL DEPTH FT	NORTH	EAST	DATE	
DRILL MACHINE ME 550x	DRILL EQMT NUMBER	DRILL METHOD H CASING / 3 7/8" TRICONE BIT	HAMMER TYPE Auto		
START DATE 1/20/2011	COMP DATE 5/21/11	SURFACE WTR DEPTH 16.3 FT	DEPTH TO ROCK N/A FT	DRILLER M. MOSELY	

DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT				SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION SOIL or ROCK NAME (w/ color, density/consistency, texture, plasticity, organics, other)
	0.5 R	0.5 R	0.5 R	0	25	50	75				
162.7	3	4	8								GRAY SILTY CLAY w/ TRACE SHELL FRAGMENTS (A-7-S)
167.7	3	5	9								GRAY SILTY CLAY w/ TRACE SHELL FRAGMENTS (A-7-S)
172.7	10	34	51								Gray silty clay w/ Trace shell fragments (A-7-S)
178.1	55	45	102								Gray silty fine SAND (A-2.4)
183.5	10	20	20								Gray silty fine SAND (A-2.4)
188.5	2	8	18								Gray fine to coarse SANDY Clay (A-6)
193.6	50	50	103								Gray silty fine to coarse SAND (A-2.4)
198.6	35	42	33								Gray silty fine to coarse SAND (A-2.4)

NOTES

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DECK TO DATUM DISTANCE \_\_\_\_\_ FT

DRILLING FLUID PROPERTIES \_\_\_\_\_

FINAL CASING DEPTH \_\_\_\_\_ FT

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

NOTES  
Boring terminated at elevation \_\_\_\_\_ in Gray silty fine to coarse SAND (A-2.4)