



NCDOT GEOTECHNICAL ENGINEERING UNIT
FIELD BORELOG (ENGLISH)

SHEET 1 OF 5

PROJECT NUMBER: 32635.1.3	ID: B-2500	CO: Dare	GEO: Bradley/Plummer	GROUND WATER: 0 HOUR: N/A, 24 HOUR: N/A
SITE DESC: Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet				Depth to WATER: N/A, N/A
BORING NUMBER: B.63	STA: 200.0	OFFSET: FT	ALIGNMENT: EAST	Depth to BTTM: -
ELEVATION: FT	TOTAL DEPTH: 200.0 FT	NORTH	EAST	DATE: -
DRILL MACHINE: CMC-550x	DRILL EQMT NUMBER:	DRILL METHOD: H casing / 3 7/8" Tricone	HAMMER TYPE: Auto	DRILLER: JW, mm
START DATE: 5/2/11	COMP DATE: 5/22/11	SURFACE WTR DEPTH: 11.8 FT	DEPTH TO ROCK: N/A FT	

DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT				SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION
	0.5 R	0.5 R	0.5 R	0	25	50	75				
2.5	1	2	4								And. silty Gray coarse T. fine SAND Coastal w/ Trace of sil (A.3) Plain Deposit
5											
7.5	4	3	5								Ref SS-112 SAT Gray coarse T. fine SAND w/ Trace of sil (A.3)
10											
12.5	WOR	WOR	WOR								SS-113/12.5-14.0 W Green Gray fine SANDY Clay (A.6) 11.0
15											
17.5	10	12	17								SS-114/17.5-19.0 SAT Gray silty coarse T. fine SAND (A.2.4) 17.0
20											
22.5	WOR	WOR	2								Ref SS-114 SAT Gray silty coarse T. fine SAND (A.2.4)
25											
27.6	4	5	7								SS-115/27.6-29.1 SAT Gray silty fine SAND (A.2.4)
30											
32.6	5	5	8								Ref SS-115 SAT Gray silty fine SAND (A.2.4)
35											
37.6	4	2	2								SS-116/37.6-39.1 W Gray silty clay (A.7.5) 36.0

NOTES
 1) Advanced H casing to 47.5 feet (65.4 Total)
 2) Advanced 3 7/8" Tricone to 198.5 feet
 3) Ocean water used as drilling fluid
 4) Approx drilling fluid density
 DECK TO DATUM DISTANCE FT
 DRILLING FLUID PROPERTIES
 5) Loss of drilling fluid observed

SIGNATURE _____ DATE _____
 NOTES _____
 RED LINE



NCDOT GEOTECHNICAL ENGINEERING UNIT
FIELD BORELOG (ENGLISH)

PROJECT NUMBER 32635.13	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.63	STA 200.0	OFFSET FT	ALIGNMENT EAST	Depth to BTM	
ELEVATION FT	TOTAL DEPTH FT	NORTH		DATE	
DRILL MACHINE CME-550x	DRILL EQMT NUMBER	DRILL METHOD H casing / 3 7/8" T.icone	HAMMER TYPE Auto		
START DATE 5/21/11	COMP DATE 5/22/11	SURFACE WTR DEPTH 11.8 FT	DEPTH TO ROCK N/A FT	DRILLER Jw,mm	

DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT				SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION (w/ color, density/consistency, texture, plasticity, organics, other)
	0.5 R	0.5 R	0.5 R	0	25	50	75				
42.5											Gray silt clay (A-7.5)
5	3	4	2	6							
47.5											Gray fine SANDY silt (A-4) 46.0
10	3	7	14	21							
52.2											Gray fine SANDY silt (A-4)
15	5	5	8	18							55.0
58.0											GRAY SILTY FINE SAND w/ some SHELL FRAGMENTS (A-2-3)
20	12	20	24	36							
63.0											GRAY SILTY FINE SAND w/ some SHELL FRAGMENTS (A-2-4)
25	6	9	8	13							
68.3											GRAY SILTY FINE SAND w/ TRACE SHELL FRAGMENTS (A-2-5)
30	6	10	15	21							
73.3											GRAY SILTY FINE SAND (A-2-5)
35	25	32	26	43							
65											GRAY SILTY FINE SAND (A-2-5)
78.3											GRAY SILTY FINE SAND (A-2-5)
	12	15	25	52							

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253226

NOTES 12 15 25

DECK TO DATUM DISTANCE _____ FT

DRILLING FLUID PROPERTIES _____

FINAL CASING DEPTH _____ FT

SIGNATURE _____ DATE _____

NOTES _____

RED LINE



NCDOT GEOTECHNICAL ENGINEERING UNIT
FIELD BORELOG (ENGLISH)

SHEET 3 OF 5

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-63	STA	OFFSET FT	ALIGNMENT EAST	Depth to BTM	
ELEVATION FT	TOTAL DEPTH 2000 FT	NORTH	EAST	DATE	
DRILL MACHINE CMB-550X	DRILL EQMT NUMBER	DRILL METHOD H.Casing 1 3/8" REAR BET	HAMMER TYPE Auto		
START DATE 5/21/2011	COMP DATE 5/22/11	SURFACE WTR DEPTH 11.8 FT	DEPTH TO ROCK FT	DRILLER M. AUBREY	

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				
84.0	16	21	22								GRAY SILTY FINE SAND (A-2-9)
89.0	12	15	20								GRAY SILTY FINE SAND (A-2-9)
94.5	12	20	20								GRAY SILTY FINE SAND (A-2-9)
100.0	24	14	24								GRAY SILTY FINE SAND (A-2-9)
105.0	20	25	25								GRAY SILTY FINE SAND (A-2-9)
110.0	15	15	20								GRAY SILTY FINE SAND w/ TRACE SHELL FRAGMENTS (A-2-H)
115.0	18	37	60								GRAY SILTY FINE SAND w/ TRACE SHELL FRAGMENTS (A-2-H)

12.1.11.20
12.20.20

NOTES

DECK TO DATUM DISTANCE _____ FT

DRILLING FLUID PROPERTIES _____

FINAL CASING DEPTH _____ FT

SIGNATURE _____ DATE _____

NOTES

RED LINE



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	
BORING NUMBER B-63	STA	OFFSET FT	ALIGNMENT EAST	DEPTH TO BTM	
ELEVATION FT	TOTAL DEPTH 200.0 FT	NORTH	EAST	DATE	
DRILL MACHINE CME-550X	DRILL EQMT NUMBER	DRILL METHOD H CASING / 3 7/8" TROVER BIT	HAMMER TYPE Auto		
START DATE 5/21/2011	COMP DATE 5/22/11	SURFACE WTR DEPTH 11.8 FT	DEPTH TO ROCK N/A FT	DRILLER M. MOSALY	

DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION
	0.5 R	0.5 R	0.5 R	0	25	50	75	100				
108.5									SS-125/108.0-120.5	SAT		GRAY SILTY FINE TO COARSE SAND w/ SOME LARG SHELL FRAGMENTS (A-7.5)
125.0	4	3	3						SS-126/125.0-126.5	M		GRAY SILTY CLAY (A-7.5)
130.2	WE	WE	WE						SS-127/130.0-131.5	W		GRAY SILTY CLAY (A-7.5)
135.0	32	40	60.5						SS-128/135.0-136.5	SAT		GRAY SILTY FINE SAND w/ TRACE SHELL FRAGMENTS (A-2.4)
139.7	40	60.5							REF SS-128	SAT		CLAY SILTY FINE SAND (A-2.4)
144.5	WM	2	2						SS-129/144.5-146.0			GRAY SILTY CLAY (A-7.5)
149.5	1	1	4						REF SS-129	W		Gray silty clay (A-7.5)
154.2	1	1	3						SS-130/154.2-155.7	W		Gray silty clay (A-7.5)
158.9	1	1	3						SS-131/158.9-160.4	M		Gray silty clay (A-7.5)

NOTES

DECK TO DATUM DISTANCE _____ FT.

DRILLING FLUID PROPERTIES _____

FINAL CASING DEPTH _____ FT

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NOTES

RED LINE



NCDOT GEOTECHNICAL ENGINEERING UNIT
FIELD BORELOG (ENGLISH)

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SITE DESC Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet				DEPTH TO WATER	
BORING NUMBER B-63	STA 200.0	OFFSET FT	ALIGNMENT EAST	DEPTH TO BTM DATE	
ELEVATION FT	TOTAL DEPTH FT	NORTH	EAST	HAMMER TYPE Auto	
DRILL MACHINE CME-550X	DRILL EQMT NUMBER	DRILL METHOD H Casing / 3 7/8" Tricone	SURFACE WTR DEPTH 11.8	DEPTH TO ROCK N/A	DRILLER J. Whaley, M. M. Soley
START DATE 5/21/11	COMP DATE 5/22/11				

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	100				
163.6												Gray silty clay (A-7.5)
5	1	4	4									
168.5												Gray silty clay (A-7.5)
10	1	1	3									
172.0												
173.2												
15	4	15	39									Green Gray silty coarse to fine SAND w/ trace shell fragments (A-2.4)
178.0												
20	28	36	48									Gray silty fine SAND (A-2.4)
183.0												
25	42	50	50/0.3									Gray silty fine SAND (A-2.4)
186.0												
188.2												
30	7	3	4									Gray silty clay (A-7.5)
189.2												
193.4												
35	1	9	10									Gray clayey silty fine SAND (A-2.4)
194.9												
198.5												
19	18	34	56									Gray silty fine SAND (A-2.4)
198.5												

NOTES

DECK TO DATUM DISTANCE _____ FT

DRILLING FLUID PROPERTIES _____

FINAL CASING DEPTH _____ FT

SIGNATURE _____ DATE _____

NOTES
Boring Terminated at Elevation of Gray silty fine SAND (A-2.4)

RED LINE