



NCDOT GEOTECHNICAL ENGINEERING UNIT
FIELD BORELOG (ENGLISH)

SHEET 1 OF 4

PROJECT NUMBER	32635.1.3	ID	B-2500	CO	Dare	GEO	Bradley/Plummer HATFIELD	GROUND WATER	0 HOUR	24 HOUR
SITE DESC	Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet							Depth to WATER	5.1'	6.0'
BORING NUMBER	B-53	STA		OFFSET	FT	ALIGNMENT		Depth to BTM		6.2'
ELEVATION	5.6	FT	TOTAL DEPTH	154.0	FT	NORTH	762175	DATE	6-1-11	
DRILL MACHINE	D-50	DRILL EQMT NUMBER		DRILL METHOD	NW CASING + 2 3/8 TRICONE			HAMMER TYPE	Auto	
START DATE	S-31-11	COMP DATE	6-1-11	SURFACE WTR DEPTH	NA	FT	DEPTH TO ROCK	NA	FT	DRILLER
								JASON WALKER		

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 ft	0.5 ft	0.5 ft	0	25	50	75	100				
2.5												
5	1	1	Woh						SS-500/ 2.5-4.0	SAT	UNOIL COASTAL PLAIN	TAN SILTY COARSE TO FINE SAND (A-2-4)
7.5												
10	6	6	5						SS-501/ 7.5-10.0	SAT		GRAY SILTY COARSE TO FINE SAND (A-2-4)
12.5												
15	9	10	9						REF SS-501/ 12.5-14.00	SAT		GRAY SILTY COARSE TO FINE SAND (A-2-4)
17.5												
20	7	9	11						SS-502/ 18.5-19.0	SAT		GRAY SILTY COARSE TO FINE WITH SHELL HASH (A-2-4)
22.5												
25	6	6	6						REF SS-502/ 22.5-24.0	SAT		GRAY SILTY COARSE TO FINE SAND WITH SHELL HASH (A-2-4)
27.5												
30	4	3	5						SS-503/ 27.5-29.0	SAT		GRAY SILTY COARSE TO FINE SAND WITH SHELL HASH (A-2-4)
32.5												
35	2	7	13						REF SS-503/ 32.5-34.0	SAT		GRAY SILTY COARSE TO FINE SAND WITH SHELL HASH (A-2-4)
37.5												
	1	Woh	1						SS-504 37.5-39.0	W		GRAY COARSE TO FINE SANDY CLAY WITH SHELL HASH (A-7-5)

NOTES 1) ADVANCED NW CASING TO 18.5' (20' TOTAL USE)
2) ADVANCED 2 3/8 TRICONE TO 154.0'
3) FRESH WATER USED AS DRILLING FLUID

DECK TO DATUM DISTANCE
DRILLING FLUID PROPERTIES

FINAL CASING DEPTH

SIGNATURE

DATE

NOTES 4) APPROXIMATE DRILLING FLUID

DENSITY 62.4 PCF

5) SOME LOSS OF DRILLING FLUID
OBSERVED

6) UNDISTURBED SAMPLES ST-2 & ST-3
OBTAINED AT 41.0 to 43' & 59-60'



NCDOT GEOTECHNICAL ENGINEERING UNIT FIELD BORELOG (ENGLISH)

SHEET 2 OF 4

PROJECT NUMBER 32635.1.3	ID B-2500	CO Dare	GEO Bradley/Plummer	GROUND WATER Depth to WATER Depth to BTM DATE mm/dd	0 HOUR	24 HOUR
SITE DESC Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet						
BORING NUMBER B-53	STA	OFFSET FT	ALIGNMENT EAST			
ELEVATION 5.6	TOTAL DEPTH 154.0	FT	NORTH 762175	3023837		
DRILL MACHINE D-50	DRILL EQMT NUMBER	DRILL METHOD NW CTSING + 2 3/8 TRICONE	HAMMER TYPE Auto			
START DATE 5-31-11	COMP DATE 6-1-11	SURFACE WTR DEPTH NA	FT	DEPTH TO ROCK NA	FT	DRILLER JASON WALKER

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			SOIL or ROCK NAME (w/ color, density/consistency, texture, plasticity, organics, other)
42.5											
45	WCH	2	2								BROWN SILTY CLAY WITH COARSE TO FINE (A-7-5)
47.5											
50	2	6	6								BROWN SILTY CLAY WITH COARSE TO FINE SAND (A-7-5)
52.5											
55	4	6	6								GRAY SILTY CLAY WITH COARSE TO FINE SAND (A-7-5)
57.5											
60	7	9	5								GRAY SILTY CLAY WITH COARSE TO FINE SAND (A-7-5)
62.5											
65	4	6	4								GRAY SILTY CLAY WITH COARSE TO FINE SAND (A-7-5)
67.5											
70	4	3	4								GRAY SILTY CLAY WITH COARSE TO FINE SAND (A-7-5)
72.5											
75	11	11	14								GRAY SILTY COARSE TO FINE SAND (A-2-4)
77.5	7	12	18								GRAY SILTY COARSE TO FINE SAND (A-2-4)

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)

SHEET 3 OF 4

PROJECT NUMBER 32635.13	ID B-2500	CO Dare	GEO Bradley/Plummer	GROUND WATER Depth to WATER	0 HOUR	24 HOUR
SITE DESC Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet				HATFIELD		
BORING NUMBER B-57	STA	OFFSET FT	ALIGNMENT EAST	Depth to BTM DATE		
ELEVATION 5.6	FT	TOTAL DEPTH 154.0	FT	NORTH 762175	3023837	
DRILL MACHINE D-50	DRILL EQMT NUMBER	DRILL METHOD NW CASING + 2 7/8 TRIGONE	SURFACE WTR DEPTH	FT	DEPTH TO ROCK NA	FT
START DATE S-31-11	COMP DATE 6-1-1			HAMMER TYPE Auto	DRILLER JASON WALKER	

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 ft	0.5 ft	0.5 ft	0	25	50	75	100				
82.5									SS-S09/ 82.5-84.0	W		GRAY SILTY CLAY WITH COARSE TO FINE SAND (A-7-S)
85	4	5	6									
87.5									ref SS-S09 87.5-89	W		GRAY SILTY CLAY WITH COARSE TO FINE SAND (A-7-S)
90	2	3	6									
92.5									SS-S10 92.5-94.0	W		GRAY SILTY CLAY WITH COARSE TO FINE SAND (A-7-S)
95	1	1	1									
97.5									SS-S11 97.5-99.0	SAT		GRAY SILTY COARSE TO FINE SAND WITH SHELL WASH (A-2-S)
100	15	28	39									
102.5									ref SS-S11 102.5-104.0	SAT		GRAY SILTY COARSE TO FINE SAND (A-2-S)
105	20	39	44									
107.5									SS-S12 107.5-109.0	SAT		GRAY CLAYEY SILTY COARSE TO FINE SAND (A-2-S)
110	16	25	32									
112.5									ref SS-S12 112.5-114.0	SAT		GRAY SILTY COARSE TO FINE SAND (A-2-S)
115	25	39	41									
117.5									SS-S13 117.5-119.0	SAT		GRAY SILTY COARSE TO FINE SAND (A-2-S)
	22	34	44									

NOTES

DECK TO DATUM DISTANCE
DRILLING FLUID PROPERTIES

FT

FINAL CASING DEPTH

FT

SIGNATURE

DATE

NOTES

RED LINE



NCDOT GEOTECHNICAL ENGINEERING UNIT
FIELD BORELOG (ENGLISH)

SHEET 1 OF 4

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-53	STA		OFFSET	FT	ALIGNMENT EAST		Depth to BTM		
ELEVATION	5.6	FT	TOTAL DEPTH	154.0	FT	NORTH	762175	DATE		
DRILL MACHINE	D-50	DRILL EQMT NUMBER		DRILL METHOD	NW CASING		278 TRI-CORE	HAMMER TYPE	Auto	
START DATE	5-31-11	DATE	6-1-11	SURFACE WTR DEPTH	NA	FT	DEPTH TO ROCK	N/A	FT	DRILLER
								JASON WALKER		

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 ft	0.5 ft	0.5 ft	0	25	50	75	100				
122.5									102 1.0'			
125	50	50 0.5							SS-S14/ 122.5-123.5	SAT		GRAY SILTY COARSE TO FINE SAND (A-2-4)
127.5									100 1.0'			
130	34	66 0.5							BCF SS-S14/ 127.5-128.5	SAT		GRAY SILTY COARSE TO FINE SAND WITH SHELL HASH (A-2-4)
132.5												
135	21	34	38					72	SS-S15/ 132.5-134.0	SAT		GRAY SILTY COARSE TO FINE SAND (A-2-4)
137.5									109 0.9'			
140	40	53	47 0.4						1CF SS-S15/ 137.5-138.9	SAT		GRAY SILTY COARSE TO FINE SAND (A-2-4)
142.5								62				
145	17	30	32						SS-S16/ 142.5-144.0	SAT		GRAY SILTY COARSE TO FINE SAND (A-2-4)
147.5								53				
150	39	24	29						1CF SS-S16/ 147.5-149.0	SAT		GRAY SILTY COARSE TO FINE SAND (A-2-4)
152.5												152.0
155	4	5	7						SS-S17/ 152.5-154.0	W		GRAY SILTY CLAY (A-7-S)
BORING TERMINATE AT ELEVATION 148.4 IN GRAY SILTY CLAY (A-7-S)												

NOTES

DECK TO DATUM DISTANCE
DRILLING FLUID PROPERTIES

FINAL CASING DEPTH

SIGNATURE

DATE

NOTES

RED LINE



NCDOT GEOTECHNICAL ENGINEERING UNIT
FIELD BORELOG (ENGLISH)

SHEET 1 OF 5

PROJECT NUMBER 32635.1.3	ID B-2500	CO Dare	GEO Bradley/Plummer HATFIELD	GROUND WATER 0 HOUR 24 HOUR
SITE DESC Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet				3.9 N/A
BORING NUMBER B-66	STA TOTAL DEPTH 190.0 FT	OFFSET FT	ALIGNMENT EAST 3030830	DEPTH TO WATER 4.0 DATE 6-2-11
ELEVATION 4.0 FT	DRILL MACHINE D-50	DRILL METHOD NW CASING + 2 3/8 TRICONE	HAMMER TYPE Auto	
START DATE 6-1-11	COMP DATE 6-2-11	SURFACE WTR DEPTH NA FT	DEPTH TO ROCK NA FT	DRILLER JASON WALKER

DEPTH (ft)	BLOW COUNT 0.5 ft 0.5 ft 0.5 ft	BLOWS PER FOOT 0 25 50 75 100	SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION SOIL or ROCK NAME (w/ color, density/consistency, texture, plasticity, organics, other)
3.5						
5	4 7 4		SS-530 3.5-5.0	SAT	UNDIFF COASTAL PLAIN	GRAY SILTY COARSE TO FINE SAND (A-2-4)
8.5						
10	3 7 5		REF SS-530 8.5-10.0	SAT	UNDIFF COASTAL PLAIN	GRAY SILTY COARSE TO FINE SAND (A-2-4) 12.0'
13.5						
15	7 11 12		SS-531 13.5-15.0	SAT	UNDIFF COASTAL PLAIN	GRAY SILTY COARSE TO FINE SAND w/ TRACE SILT (A-3)
19.5						
20	5 6 7		REF SS-531 18.5-20.0	SAT	UNDIFF COASTAL PLAIN	GRAY COARSE TO FINE SAND w/ TRACE SILT (A-3)
23.5						
25	5 6 6		SS-532 23.5-25.0	SAT	UNDIFF COASTAL PLAIN	GRAY COARSE TO FINE SAND w/ TRACE SILT (A-3) 27.0'
28.5						
30	1 wot wot		SS-533 28.5-30.0	W	UNDIFF COASTAL PLAIN	GRAY SILTY SANDY CLAY (A-2-5) WITH COARSE TO FINE SAND (A-2-5) 32.5'
33.5						
35	5 7 11		SS-534 33.5-35.0	SAT	UNDIFF COASTAL PLAIN	GRAY SILTY COARSE TO FINE SAND (A-2-4)
38.5	3 2 1		REF SS-534 38.5-40.0	SAT		GRAY SILTY CLAYEY SAND (A-2-4) COARSE TO FINE

NOTES 1) ADVANCED NW CASING TO 32.5' (95' TOTAL USE)
2) ADVANCED 2 3/8 TRICONE TO 190.0'
3) FRESH WATER USED AS DRILLING FLUID

DECK TO DATUM DISTANCE
DRILLING FLUID PROPERTIES

FINAL CASING DEPTH

SIGNATURE

DATE

NOTES 4) APPROXIMATE DRILLING FLUID DENSITY 12.4 PCF
5) SOME LOSS OF DRILLING FLUID OBSERVED



NCDOT GEOTECHNICAL ENGINEERING UNIT
FIELD BORELOG (ENGLISH)

SHEET 2 OF 5

PROJECT NUMBER 32635.1.3	ID B-2500	CO Dare	GEO Bradley/Plummer HARTFIELD	GROUND WATER Depth to WATER Depth to BTM DATE month	0 HOUR	24 HOUR
SITE DESC Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet			ALIGNMENT EAST	HAMMER TYPE Auto		
BORING NUMBER B-66	STA	OFFSET FT	ALIGNMENT EAST	DRILLER JASON WALKER		
ELEVATION 4.0 FT	TOTAL DEPTH 190.0 FT	NORTH 75180.8	EAST 3032830			
DRILL MACHINE D-50	DRILL EQMT NUMBER	DRILL METHOD M3 CASING + 2 3/8 TRI CONE				
START DATE 6-1-11	COMP DATE 6-2-11	SURFACE WTR DEPTH NA	DEPTH TO ROCK NA			

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 ft	0.5 ft	0.5 ft	0	25	50	75	100				
43.5												
45	1	3	3						SS-535 43.5-45.0	SAT		GRAY SILTY CLAYEY COARSE TO FINE SAND (A-2-4)
48.5												
50	4	7	12						ref SS-535 48.5-50.0	SAT		GRAY SILTY CLAYEY COARSE TO FINE SAND WITH SHELL HASH (A-2-4)
53.5												
55	4	5	6						SS-536 53.5-55.0	SAT		GRAY SILTY CLAYEY COARSE TO FINE SAND WITH SHELL HASH (A-2-4)
58.5												
60	2	3	3						SS-537 58.5-60.0	W		GRAY SILTY CLAY WITH COARSE TO FINE SAND (A-7.5)
63.5												
65	1	2	3						ref SS-537 63.5-65.0	W		GRAY SILTY CLAY W/ SHELL HASH (A-7.5)
68.5												
70	6	9	6						SS-538 68.5-70.0	W		GRAY COARSE TO FINE SANDY CLAY W/ SHELL HASH (A-7.5)
73.5												
75	9	12	16						SS-539 73.5-75.0	SAT		GRAY SILTY CLAYEY COARSE TO FINE SAND (A-2-4)
78.5	5	4	5						ref SS SP 78.5-80.0	SAT		GRAY SILTY CLAYEY COARSE TO FINE SAND W/ SHELL HASH (A-2-4)

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)

SHEET 3 OF 5

PROJECT NUMBER	32635.13	ID	B-2500	CO	Dare	GEO	Bradley/Plummer
SITE DESC	Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet						MAPFIELD
BORING NUMBER	B-66	STA		OFFSET	FT	ALIGNMENT	EAST
ELEVATION	4.0	TOTAL DEPTH	190.0	FT	NORTH	751808	3030830
DRILL MACHINE	D-80	DRILL EQMT NUMBER		DRILL METHOD	NW CASING + 276 TRICONE		
START DATE	6-1-11	COMP DATE	6-2-11	SURFACE WTR DEPTH	NA	FT	DEPTH TO ROCK
						FT	NA
						HAMMER TYPE	Auto
						DRILLER	JASON WALKER

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 ft	0.5 ft	0.5 ft	0	25	50	75	100				
83.5												
85	5	3	4						SS-540 83.5-85.0	SAT		GRAY SILTY CLAYEY (SANDS TO FINE SAND (A-2-4))
88.5												
90	4	5	6						ref SS-540 88.5-90.0	SAT		GRAY SILTY CLAYEY (SANDS TO FINE SAND (A-2-4))
93.5												
95	8	17	23						SS-541 93.5-95.0	SAT		GRAY SILTY COARSE TO FINE SAND (A-2-4)
98.5												
100	4	10	11						ref SS-541 98.5-100.0	SAT		GRAY SILTY COARSE TO FINE SAND (A-2-4)
103.5												
105	8	18	30						SS-542 103.5-105.0	SAT		GRAY COARSE TO FINE SAND W/ TRACE SILT (A-3)
108.5												
110	3	18	33						SS-543 108.5-110.0	SAT		GRAY SILTY COARSE TO FINE SAND (A-2-4)
113.5												
115	7	8	11						SS-544 113.5-115.0	W		W/ SHELL HAS COARSE SANDY CLAY (A-7)
118.5	10	17	28						SS-546 118.5-120.0	SAT		GRAY SILTY COARSE TO FINE SAND (A-2-4)

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



NCDOT GEOTECHNICAL ENGINEERING UNIT
FIELD BORELOG (ENGLISH)

SHEET 4 OF 5

PROJECT NUMBER 32635.13	ID B-2500	CO Dare	GEO Bradley Plummer HATFIELD	GROUND WATER 0 HOUR 24 HOUR
SITE DESC Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet				
BORING NUMBER B-66	STA 4.0 FT	OFFSET 190.0 FT	ALIGNMENT NORTH 75/808	DEPTH TO WATER 3030830
ELEVATION 4.0	TOTAL DEPTH 190.0	DRILL METHOD NW CASING + 2 3/8 TRICONE	DEPTH TO ROCK NA	HAMMER TYPE Auto
DRILL MACHINE D-50	DRILL EQMT NUMBER	SURFACE NA	DEPTH TO ROCK NA	DRILLER JASON WALLER
START DATE 6-1-11	COMP DATE 6-2-11	WTR DEPTH NA		

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 ft	0.5 ft	0.5 ft	0	25	50	75	100				
123.5									SS-546	SAT		GRAY SILTY COARSE TO FINE SAND (A-2-4)
125	14	14	34						123.5-125.0			
128.5									SS-547	SAT		GRAY SILTY COARSE TO FINE SAND (A-2-4)
130	16	20	29						128.5-130.0			
133.5									SS-548	SAT		GRAY SILTY COARSE TO FINE SAND (A-2-4)
135	34	40	29						133.5-135.0			
138.5									SS-549	SAT		LED CLAYEY SILT (A-5)
140	6	9	12						138.5-140.0			
143.5									SS-549	W		GRAY SILTY COARSE TO FINE SANDY CLAY (A-7-5)
145	16	16	19						143.5-145.0			
148.5									SS-549	SAT		GRAY SILTY CLAYEY COARSE TO FINE SAND (A-2-4)
150	11	30	40						148.5-150.0			
153.5									SS-549	SAT		GRAY SILTY CLAYEY COARSE TO FINE SAND (A-2-4)
155	24	35	52						153.5-155.0			
158.5	5	3	6						SS-550			GRAY SILTY CLAY w/ SHELL HAZU (A-7-5)
160.0									158.5-160.0			

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



NCDOT GEOTECHNICAL ENGINEERING UNIT
FIELD BORELOG (ENGLISH)

SHEET 5 OF 5

PROJECT NUMBER 32635 1.3	ID B-2500	CO Dare	GEO Bradley/Plummer HARRFIELD	GROUND WATER Depth to WATER Depth to BTM DATE	0 HOUR	24 HOUR
SITE DESC Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet						
BORING NUMBER D-66	STA 4.0	OFFSET 120.0	ALIGNMENT NORTH 75/808 EAST 3030830			
DRILL MACHINE D-56	DRILL EQMT NUMBER	DRILL METHOD NW CASING + 2 3/8 TRICONE	SURFACE WTR DEPTH NA	DEPTH TO ROCK NA		
START DATE 6-1-11	COMP DATE 6-2-11			HAMMER TYPE Auto		
				DRILLER JASON WALKER		

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 ft	0.5 ft	0.5 ft	0	25	50	75	100				
163.5									SS-SS1			
165	3	4	5						163.5-165.0	W		GRAY SILTY CLAY (A-7-S)
168.5									SS-SS1			
170	4	3	5						168.5-170.0	W		GRAY SILTY CLAY w coarse COARSE TO FINE SAND (A-7-S)
173.5												
175	13	31	36						SS-SS2			
178.5									173.5-175.0	SAT		GRAY & SILTY CLAYEY SAND COARSE TO FINE SAND (A-2-4)
180									SS-SS3			
182.5	11	13	13						178.5-180.0	W		GRAY SILTY CLAY WITH COARSE TO FINE SAND (A-7-S)
185									SS-SS3			
187.5	15	37	38						183.5-185.0	W		GRAY SILTY CLAY w coarse TO FINE SAND (A-7-S)
190									SS-SS4			
192.5	12	8	10.5						188.5-190.0	SAT		GRAY SILTY COARSE TO FINE SAND (A-2-4)
195												BORING TERMINATED AT ELEVATION -186.0 IN GRAY SILTY COARSE TO FINE SAND (A-2-4)
198.5												

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



NCDOT GEOTECHNICAL ENGINEERING UNIT FIELD BORELOG (ENGLISH)

SHEET 1 OF 3

PROJECT NUMBER 32635.13	ID B-2500	CO Dare	GEO Bradley/Plummer HATFIELD	GROUND WATER 0 HOUR 24 HOUR
SITE DESC Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet	STA	OFFSET FT	ALIGNMENT EAST	Depth to WATER 4.1'
BORING NUMBER B-67	TOTAL DEPTH 110.0	FT	NORTH 751598	Depth to BITUM 3.4'
ELEVATION 4.7	DRILL EQMT NUMBER	DRILL METHOD NW CASING + 2 3/8 TRICONE	DATE 6-1-11	HAMMER TYPE Auto
DRILL MACHINE D-50	COMP 6-1-11	SURFACE NA	DEPTH TO ROCK NA	DRILLER JASON WALKER

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 ft	0.5 ft	0.5 ft	0	25	50	75	100				
3.5									SS-518/ 3.5-5.0	SAT	UNDIFF COASTAL PLAIN	GRAY SILTY COARSE TO FINE SAND (A-2-t)
5	3	5	6									
8.5									REF SS-519/ 8.5-10.0	SAT	UNDIFF COASTAL PLAIN	GRAY SILTY-CLAYEY COARSE TO FINE SAND (A-2-t)
10	2	1	1									
13.5									SS-519/ 17.5-15.0	SAT	UNDIFF COASTAL PLAIN	GRAY SILTY COARSE TO FINE SAND (A-2-t)
15	8	10	10									
18.5									REF SS-519/ 18.5-20.0	SAT	UNDIFF COASTAL PLAIN	GRAY SILTY COARSE TO FINE SAND (A-2-t)
20	6	8	11									
23.5									SS-520/ 23.5-25.0	SAT	UNDIFF COASTAL PLAIN	GRAY SAND COARSE TO FINE WITH TRACE SILT (A-3)
25	2	7	5									
28.5									REF SS-520/ 28.5-30.0	SAT	UNDIFF COASTAL PLAIN	GRAY SAND COARSE TO FINE WITH TRACE SILT + SHELL HASH (A-3)
30	7	11	13									
33.5									SS-521/ 33.5-35.0	SAT	UNDIFF COASTAL PLAIN	GRAY SILTY COARSE TO FINE SAND W/ SHELL HASH (A-2-t)
35	4	5	6									
38.5	8	9	7						REF SS-521/ 38.5-40.0	SAT	UNDIFF COASTAL PLAIN	GRAY SILTY COARSE TO FINE SAND W/ SHELL HASH (A-2-t)

NOTES 1) ADVANCED NW CASING TO 38.5' (40' TOTAL USED)
2) ADVANCED 2 3/8 TRICONE TO 110.0'

DECK TO DATUM DISTANCE _____ FT
DRILLING FLUID PROPERTIES _____
FINAL CASING DEPTH _____ FT

SIGNATURE _____ DATE _____
NOTES 4) APPROXIMATE DRILLING FLUID DENSITY
62.4 PCF
5) SOME LOSS OF DRILLING FLUID OBSERVED
6) UNDISTURBED SAMPLE SF-1 OBTAINED
FROM SF-1

3) FRESH WATER USED AS DRILLING FLUID



NCDOT GEOTECHNICAL ENGINEERING UNIT
FIELD BORELOG (ENGLISH)

SHEET 2 OF 2

PROJECT NUMBER 32635.1.3	ID B-2500	CO Dare	GEO Bradley/Plummer HATFIELD	GROUND WATER Depth to WATER Depth to BTM DATE mm/dd	0 HOUR	24 HOUR
SITE DESC Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet						
BORING NUMBER B-67	STA TOTAL DEPTH 110.0 FT	OFFSET FT	ALIGNMENT EAST 3031624			
ELEVATION 4.7 FT	DRILL EGMT NUMBER COMP DATE 6-1-11	DRILL METHOD NW CASING + 2 7/8 TRI CONE	SURFACE WTR DEPTH NA FT	DEPTH TO ROCK NA FT	HAMMER TYPE Auto DRILLER JASON WALKER	
DEPTH (ft)	BLOW COUNT 0.5 ft 0.5 ft 0.5 ft	BLOWS PER FOOT 0 25 50 75 100	SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION (w/ color, density/consistency, texture, plasticity, organics, other)
43.5						
45	5 7 8		SS-S22 43.5-45.0	SAT	UNDIFF COASTAL PLAIN	GRAY SILTY COARSE TO FINE SAND (A-2-4)
48.5						
50	8 8 5		REF SS-S22 48.5-50.0	SAT	UNDIFF COASTAL PLAIN	GRAY SILTY COARSE TO FINE SAND (A-2-4) 51.5'
53.5						
55	work with 1		SS-S23 53.5-55.0	W	UNDIFF COASTAL PLAIN	GRAY SILTY CLAY WITH FINE SAND (A-7-5)
58.5						
60	work 1 work		REF SS-S23 58.5-60.0	W	UNDIFF COASTAL PLAIN	GRAY SILTY CLAY (A-7-5)
63.5						
65	2 1 2		SS-S24 63.5-65.0	W	UNDIFF COASTAL PLAIN	GRAY SILTY SANDY CLAY W/ SHELL HASH (A-7-5) 67.5'
68.5						
70	3 2 3		SS-S25 68.5-70.0	SAT	UNDIFF COASTAL PLAIN	GRAY SILTY CLAYEY COARSE TO FINE SAND (A-2-4)
73.5						
75	13 15 19		REF SS-S25 73.5-75.0	SAT	UNDIFF COASTAL PLAIN	GRAY SILTY CLAYEY COARSE TO FINE SAND (A-2-4)
78.5	7 8 10		SS-S26 78.5-80.0		UNDIFF COASTAL PLAIN	GRAY SILTY CLAYEY COARSE TO FINE SAND (A-2-4)
NOTES				SIGNATURE _____ DATE _____		
DECK TO DATUM DISTANCE _____ FT				NOTES		
DRILLING FLUID PROPERTIES				RED LINE		
FINAL CASING DEPTH _____ FT						



NCDOT GEOTECHNICAL ENGINEERING UNIT
FIELD BORELOG (ENGLISH)

SHEET 3 OF 7

PROJECT NUMBER 32635.1.3	ID B-2500	CO Dare	GEO Bradley/Plummer HATFIELD	GROUND WATER Depth to WATER Depth to BTM DATE	0 HOUR	24 HOUR
SITE DESC Bridge No. 11 (Bonner Bridge) on NC 12 over Oregon Inlet			ALIGNMENT EAST	HAMMER TYPE Auto		
BORING NUMBER B-67	STA 4.7 FT	OFFSET 110.0 FT	NORTH 751598	3031624		
ELEVATION 4.7	FT	TOTAL DEPTH 110.0	FT	DRILL METHOD NW CASING	2 7/8 TRI LONE	
DRILL MACHINE D-50	DRILL EQMT NUMBER COMP	DATE 6-1-11	DATE 6-1-11	SURFACE WTR DEPTH NA	FT	DEPTH TO ROCK NA
START DATE 6-1-11	DATE 6-1-11	DATE 6-1-11	DATE 6-1-11	DATE 6-1-11	DATE 6-1-11	DATE 6-1-11
DEPTH (ft)	BLOW COUNT 0.5 ft 0.5 ft 0.5 ft	BLOWS PER FOOT 0 25 50 75 100	SAMPLE NO. & INTERVAL	MOI	ORIGIN	SOIL & ROCK DESCRIPTION SOIL or ROCK NAME (w/ color, density/consistency, texture, plasticity, organics, other)
83.5			REF SS-526 83.5-85.0	SAT	UNDIFF COASTAL PLAIN	GRAY SILTY CLAYEY SAND COARSE TO FINE SAND (A-2-4)
86.5	6 6 7					
89.5			SS-527 89.5-90.0	SAT	UNDIFF COASTAL PLAIN	GRAY SILTY COARSE TO FINE SAND (A-2-4)
92.5	14 23 27					
95.5			REF SS-528 93.5-95.0	SAT	UNDIFF COASTAL PLAIN	GRAY SILTY COARSE TO FINE SAND (A-2-4)
98.5	19 24 28					
101.5			SS-528 98.5-100.0	SAT	UNDIFF COASTAL PLAIN	GRAY SILTY COARSE TO FINE SAND W/ TRACE SILT (A-3) 102'
104.5	10 20 24					
107.5			SS-529 103.5-105.0	SAT	UNDIFF COASTAL PLAIN	GRAY SILTY COARSE TO FINE SAND (A-2-4)
110.5	39 61 0.4					
113.5			SS-529 108.5-110.0	SAT	UNDIFF COASTAL PLAIN	GRAY SILTY COARSE TO FINE SAND (A-2-4)
116.5	26 37 61					
119.5						
122.5						
125.5						
128.5						
131.5						
134.5						
137.5						
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