

DRILLING LOG		DIVISION South Atlantic		INSTALLATION			SHEET 1	
							OF 1 SHEETS	
1. PROJECT St. Johns County Ebb Shoal Borrow Area St. Johns County				9. SIZE AND TYPE OF BIT				
2. BORING DESIGNATION BEACH COMPOSITE SAMPLE X = Y =				10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83		VERTICAL NAVD88
3. DRILLING AGENCY				11. MANUFACTURER'S DESIGNATION OF DRILL		<input type="checkbox"/> AUTO HAMMER		<input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER				12. TOTAL SAMPLES		DISTURBED 0		UNDISTURBED (UD) 0
5. DIRECTION OF BORING <input type="checkbox"/> VERTICAL <input checked="" type="checkbox"/> INCLINED				13. TOTAL NUMBER CORE BOXES 0		14. ELEVATION GROUND WATER		
6. THICKNESS OF OVERBURDEN N/A				15. DATE BORING		STARTED		COMPLETED
7. DEPTH DRILLED INTO ROCK N/A				16. ELEVATION TOP OF BORING Not Determined		17. TOTAL RECOVERY FOR BORING N/A		
8. TOTAL DEPTH OF BORING 0.1 Ft.				18. SIGNATURE AND TITLE OF INSPECTOR				

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
	0.0		OVERBURDEN NOT SAMPLED						0
									5
									10
									15

DRILLING LOG		DIVISION South Atlantic	INSTALLATION	SHEET 1 OF 1 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area St. Johns County		9. SIZE AND TYPE OF BIT		
2. BORING DESIGNATION BORROW COMPOSITE SAMPLE X = Y =		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83
3. DRILLING AGENCY		11. MANUFACTURER'S DESIGNATION OF DRILL		<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER		12. TOTAL SAMPLES		DISTURBED 0
5. DIRECTION OF BORING <input type="checkbox"/> VERTICAL <input checked="" type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES		0
6. THICKNESS OF OVERBURDEN N/A		14. ELEVATION GROUND WATER		
7. DEPTH DRILLED INTO ROCK N/A		15. DATE BORING		STARTED _____
8. TOTAL DEPTH OF BORING 0.1 Ft.		16. ELEVATION TOP OF BORING		Not Determined
		17. TOTAL RECOVERY FOR BORING		N/A
		18. SIGNATURE AND TITLE OF INSPECTOR		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
	0.0		OVERBURDEN NOT SAMPLED						0
									5
									10
									15

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore		
2. BORING DESIGNATION CB-SJEB09-P1		LOCATION COORDINATES X = 568,902 Y = 2,030,870		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore	
4. NAME OF DRILLER Athena Technologies, Inc.			12. TOTAL SAMPLES		DISTURBED 5
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			DEG. FROM VERTICAL	BEARING	UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A			13. TOTAL NUMBER CORE BOXES 0		
7. DEPTH DRILLED INTO ROCK N/A			14. ELEVATION GROUND WATER		
8. TOTAL DEPTH OF BORING 21.0 Ft.			15. DATE BORING		STARTED 04-22-10
			16. ELEVATION TOP OF BORING -10.3 Ft.		COMPLETED 04-22-10
			17. TOTAL RECOVERY FOR BORING 96 %		
			18. SIGNATURE AND TITLE OF INSPECTOR Dan Blaydes, Geotechnical Engineer,		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE	
-10.3	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, few fine-grained sand-sized shell, trace silt, 10YR 7/1 light gray (SP)	100			-10.3		0	
				100	1		-12.3 -12.3	Vibracore		
				100				Vibracore		5
				100	2		-17.3	Vibracore		10
			100	3		-22.3	Vibracore		15	

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																														
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																														
LOCATION COORDINATES X = 568,902 Y = 2,030,870			ELEVATION TOP OF BORING -10.3 Ft.																																	
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																											
-30.4	20.1			100			Vibracore																													
					4			-27.3																												
				78			Vibracore																													
-31.3	21.0	N/R						-31.3																												
<p>NOTES:</p> <p>1. USACE Jacksonville is the custodian for these original files.</p> <p>2. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>3. Laboratory Testing Results</p> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.5</td> <td>SP*</td> </tr> <tr> <td>1-Post</td> <td>2.0/2.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>7.0/7.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>12.0/12.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>17.0/17.5</td> <td>SP*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <p>4. Additional Laboratory Testing</p> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Carbonate</td> </tr> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>			SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.5	SP*	1-Post	2.0/2.5	SP*	2	7.0/7.5	SP*	3	12.0/12.5	SP*	4	17.0/17.5	SP*	1	Percent Carbonate	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell						
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																																		
1	2.0/2.5	SP*																																		
1-Post	2.0/2.5	SP*																																		
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4	Percent Visual Shell																																			

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS	
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore			
2. BORING DESIGNATION CB-SJEB09-P10		LOCATION COORDINATES X = 570,251 Y = 2,028,721		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	HORIZONTAL NAD83	VERTICAL NAVD88
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore		<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER American Vibracore Services			12. TOTAL SAMPLES		DISTURBED 4	UNDISTURBED (UD) 0
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			DEG. FROM VERTICAL	BEARING	13. TOTAL NUMBER CORE BOXES 0	
6. THICKNESS OF OVERBURDEN N/A			14. ELEVATION GROUND WATER		15. DATE BORING STARTED 10-24-09 COMPLETED 10-24-09	
7. DEPTH DRILLED INTO ROCK N/A			16. ELEVATION TOP OF BORING -17.8 Ft.		17. TOTAL RECOVERY FOR BORING 100 %	
8. TOTAL DEPTH OF BORING 17.3 Ft.			18. SIGNATURE AND TITLE OF INSPECTOR Tom Selfridge, Geotechnical Engineer,			

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-17.8	0.0	[Dotted pattern]	SAND, poorly-graded, mostly fine to coarse-grained sand-sized shell, little fine-grained sand-sized quartz, trace silt, wet, 2.5Y 6/3 light yellowish brown (SP)	100			-17.8		0
					1		Vibracore		
-19.9	2.1		SAND, poorly-graded, mostly fine-grained sand-sized quartz, some fine to medium-grained sand-sized shell, 2.5Y 7/1 light gray (SP)	100			-18.8		
					2		Vibracore		
				100			-23.8		5
				100			-27.8		10
-30.2	12.4	[Dotted pattern]	SAND, poorly-graded, mostly fine to coarse-grained sand-sized shell, little fine-grained sand-sized quartz, 2.5Y 6/3 light yellowish brown (SP)	100					
					3		Vibracore		
-32.8	15.0								15

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																		
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																		
LOCATION COORDINATES X = 570,251 Y = 2,028,721			ELEVATION TOP OF BORING -17.8 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-35.1	17.3	[Symbol: Dotted pattern]	-SAND, poorly-graded, mostly fine-grained sand-sized quartz, some fine to coarse-grained sand-sized shell, trace silt (SP)	100			Vibracore																	
					4																			
			-At El. -34.7 Ft., few shell up to 3/4", 2.5Y 5/1 gray	100			Vibracore																	
			BORING TERMINATED IN REFUSAL																					
			NOTES:																					
			1. USACE Jacksonville is the custodian for these original files.																					
			2. Soils are field visually classified in accordance with the Unified Soils Classification System.																					
			3. Laboratory Testing Results																					
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SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	1.0/1.5	SP*																						
2	6.0/6.5	SP*																						
3	10.0/10.5	SP*																						
4	16.0/16.5	SP*																						
			*Lab visual classification based on gradation curve																					
			4. Additional Laboratory Testing																					
			1 Percent Visual Shell																					
			2 Percent Carbonate																					
			2 Percent Visual Shell																					
			3 Percent Visual Shell																					
			4 Percent Visual Shell																					

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore		
2. BORING DESIGNATION CB-SJEB09-P11		LOCATION COORDINATES X = 571,310 Y = 2,028,923		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore	
4. NAME OF DRILLER American Vibracore Services			12. TOTAL SAMPLES		DISTURBED 4
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			DEG. FROM VERTICAL		UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A			13. TOTAL NUMBER CORE BOXES 0		14. ELEVATION GROUND WATER
7. DEPTH DRILLED INTO ROCK N/A			15. DATE BORING		STARTED 11-18-09
8. TOTAL DEPTH OF BORING 15.4 Ft.			16. ELEVATION TOP OF BORING -20.8 Ft.		COMPLETED 11-18-09
			17. TOTAL RECOVERY FOR BORING 95 %		18. SIGNATURE AND TITLE OF INSPECTOR Tom Selfridge, Geotechnical Engineer,

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-20.8	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, trace silt, wet, 2.5Y 7/1 light gray (SP)	100			-20.8 Vibracore		0
					1		-22.8		
			At El. -25.8 Ft., little fine-grained sand-sized shell	100			Vibracore		5
					2		-27.8		
			At El. -31.3 Ft., trace .25 inch layers of silty sand, 2.5Y 3/1 very dark gray	100			Vibracore		10
			At El. -32.8 Ft., some fine to medium-grained sand-sized shell	100			-31.3 Vibracore		
					4		-33.8		
				71			Vibracore		
-35.5	14.7								15

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																										
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																										
LOCATION COORDINATES X = 571,310 Y = 2,028,923			ELEVATION TOP OF BORING -20.8 Ft.																													
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																							
-36.2	15.4	NR	BORING TERMINATED IN REFUSAL	71			Vibracore																									
			<p>NOTES:</p> <p>1. USACE Jacksonville is the custodian for these original files.</p> <p>2. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>3. Laboratory Testing Results</p> <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>7.0/7.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>10.5/11.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>13.0/14.0</td> <td>SP*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <p>4. Additional Laboratory Testing</p> <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.5	SP*	2	7.0/7.5	SP*	3	10.5/11.5	SP*	4	13.0/14.0	SP*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell						
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																														
1	2.0/2.5	SP*																														
2	7.0/7.5	SP*																														
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1	Percent Visual Shell																															
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3	Percent Visual Shell																															
4	Percent Visual Shell																															

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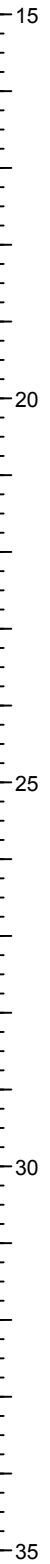
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DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore	
2. BORING DESIGNATION CB-SJEB09-P12		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore		<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER American Vibracore Services		12. TOTAL SAMPLES		DISTURBED 4
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES		UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A		14. ELEVATION GROUND WATER		
7. DEPTH DRILLED INTO ROCK N/A		15. DATE BORING		STARTED 11-18-09
8. TOTAL DEPTH OF BORING 15.9 Ft.		16. ELEVATION TOP OF BORING -30.2 Ft.		COMPLETED 11-18-09
		17. TOTAL RECOVERY FOR BORING 92 %		
		18. SIGNATURE AND TITLE OF INSPECTOR Tom Selfridge, Geotechnical Engineer,		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-30.2	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, trace silt, wet, 2.5Y 5/1 gray (SP)	100			-30.2		0
			At El. -31.7 Ft., little fine-grained sand-sized shell		1		-32.2		
				100			Vibracore		5
					2		-37.2		
				100			Vibracore		
-40.2	10.0		SAND, silty, mostly fine-grained sand-sized quartz, little silt, little fine to medium-grained sand-sized shell, wet, Note: silt is in 0.5 inch to 1.0 inch thick layers, 2.5Y 5/1 gray (SM)	100	3		-40.7		10
-42.0	11.8		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, 2.5Y 4/1 dark gray (SP)	67	4		-42.2		
-44.8	14.6						Vibracore		15

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																				
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																				
LOCATION COORDINATES X = 572,013 Y = 2,028,826			ELEVATION TOP OF BORING -30.2 Ft.																							
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																	
-46.1	15.9	NR		67			-46.1 Vibracore																			
			BORING TERMINATED IN REFUSAL NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>7.0/7.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>10.5/11.0</td> <td>SM*</td> </tr> <tr> <td>4</td> <td>12.0/12.5</td> <td>SP*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell							SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.5	SP*	2	7.0/7.5	SP*	3	10.5/11.0	SM*	4	12.0/12.5	SP*		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																								
1	2.0/2.5	SP*																								
2	7.0/7.5	SP*																								
3	10.5/11.0	SM*																								
4	12.0/12.5	SP*																								



DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS	
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore			
2. BORING DESIGNATION CB-SJEB09-P13		LOCATION COORDINATES X = 572,258 Y = 2,029,183		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	HORIZONTAL NAD83	VERTICAL NAVD88
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore		<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER American Vibracore Services			12. TOTAL SAMPLES		DISTURBED 4	UNDISTURBED (UD) 0
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			DEG. FROM VERTICAL	BEARING	13. TOTAL NUMBER CORE BOXES 0	
6. THICKNESS OF OVERBURDEN N/A			14. ELEVATION GROUND WATER		15. DATE BORING	
7. DEPTH DRILLED INTO ROCK N/A			16. ELEVATION TOP OF BORING -32.0 Ft.		STARTED 10-31-09	
8. TOTAL DEPTH OF BORING 20.0 Ft.			17. TOTAL RECOVERY FOR BORING 87 %		COMPLETED 10-31-09	
			18. SIGNATURE AND TITLE OF INSPECTOR Tom Selfridge, Geotechnical Engineer,			

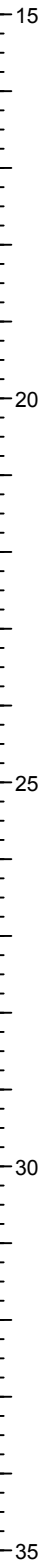
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE	
-32.0	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, trace silt, wet, 2.5Y 6/1 gray (SP)	100			-32.0		0	
						1	Vibracore	-33.0		
					100		Vibracore			5
						2	Vibracore	-38.0		
				100		Vibracore	-40.0			
				200		Vibracore			10	
-42.9	10.9		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, few silt, wet, 2.5Y 5/1 gray (SP-SM)				-43.5			
						4	Vibracore			
-45.8	13.8			27		Vibracore				

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																		
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																		
LOCATION COORDINATES X = 572,258 Y = 2,029,183			ELEVATION TOP OF BORING -32.0 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE															
-47.8	15.8	NO RECOVERY	CLAY, fat, high plasticity, firm, mostly clay, some fine-grained sand-sized quartz, wet, 2.5Y 5/1 gray (CH)	27			Vibracore																	
-52.0	20.0		NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.0/1.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>6.0/6.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>8.0/8.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>11.5/12.0</td> <td>SP-SM*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Carbonate 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/1.5	SP*	2	6.0/6.5	SP*	3	8.0/8.5	SP*	4	11.5/12.0	SP-SM*						
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	1.0/1.5	SP*																						
2	6.0/6.5	SP*																						
3	8.0/8.5	SP*																						
4	11.5/12.0	SP-SM*																						

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation		9. SIZE AND TYPE OF BIT 3.5" Vibracore		
2. BORING DESIGNATION CB-SJEB09-P14		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		
3. DRILLING AGENCY Corps of Engineers - CESAJ		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore		
4. NAME OF DRILLER American Vibracore Services		12. TOTAL SAMPLES 5		
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES 0		
6. THICKNESS OF OVERBURDEN N/A		14. ELEVATION GROUND WATER		
7. DEPTH DRILLED INTO ROCK N/A		15. DATE BORING 11-18-09		
8. TOTAL DEPTH OF BORING 13.3 Ft.		16. ELEVATION TOP OF BORING -25.9 Ft.		
		17. TOTAL RECOVERY FOR BORING 98 %		
		18. SIGNATURE AND TITLE OF INSPECTOR Tom Selfridge, Geotechnical Engineer,		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE	
-25.9	0.0	[Dotted pattern]	SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, trace silt, wet, 2.5Y 6/1 gray (SP)	100			-25.9		0	
						1		-26.9		
-28.8	2.9				100			Vibracore		
-30.1	4.2									
		[Dotted pattern]	SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, 2.5Y 6/1 gray (SP)	100	2		-30.9		5	
						2-Post		-30.9		
					100			Vibracore		
		[Dotted pattern]	At El. -34.9 Ft., some fine to medium-grained sand-sized shell				-35.9		10	
					100			Vibracore		
-38.0	12.1									
-38.9	13.0	[Vertical lines]	SAND, silty, mostly fine-grained sand-sized quartz, little silt, little fine to medium-grained sand-sized shell, wet, 2.5Y 5/1 gray (SM)	62	4		-38.4			
-39.2	13.3			NO REC				-39.2		
			BORING TERMINATED IN REFUSAL							
			NOTES: 1. USACE Jacksonville is the custodian for							

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																															
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																															
LOCATION COORDINATES X = 571,257 Y = 2,028,171			ELEVATION TOP OF BORING -25.9 Ft.																																		
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																												
			these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.0/1.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>5.0/5.5</td> <td>SP*</td> </tr> <tr> <td>2-Post</td> <td>5.0/5.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>10.0/10.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>12.5/13.0</td> <td>SM*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing <table border="1"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Carbonate</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/1.5	SP*	2	5.0/5.5	SP*	2-Post	5.0/5.5	SP*	3	10.0/10.5	SP*	4	12.5/13.0	SM*	1	Percent Visual Shell	2	Percent Carbonate	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell						
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																																			
1	1.0/1.5	SP*																																			
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DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore		
2. BORING DESIGNATION CB-SJEB09-P15		LOCATION COORDINATES X = 572,143 Y = 2,028,360		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore	<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER American Vibracore Services			12. TOTAL SAMPLES		DISTURBED 4
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			DEG. FROM VERTICAL	BEARING	UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A			13. TOTAL NUMBER CORE BOXES 0		14. ELEVATION GROUND WATER
7. DEPTH DRILLED INTO ROCK N/A			15. DATE BORING		STARTED 11-18-09
8. TOTAL DEPTH OF BORING 17.4 Ft.			16. ELEVATION TOP OF BORING -32.6 Ft.		COMPLETED 11-18-09
			17. TOTAL RECOVERY FOR BORING 85 %		18. SIGNATURE AND TITLE OF INSPECTOR Tom Selfridge, Geotechnical Engineer,

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE		
-32.6	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, wet, 2.5Y 7/1 light gray (SP) At El. -37.6 Ft., some fine-grained sand-sized shell	100			-32.6		0		
						1			-34.6		
						100			Vibracore		5
							2		-38.6		
-39.9	7.3		SAND, silty, mostly fine-grained sand-sized quartz, little silt, little fine-grained sand-sized shell, wet, 2.5Y 5/1 gray (SM) At El. -41.7 Ft., some fine-grained sand-sized quartz, some clay, wet, some sand to gravel-sized limerock fragments Note: Clay (2.5Y 4/1, dark gray) in 0.5 inch t 4.0 inch layers, 2.5Y 5/1 gray	100			Vibracore				
							3		-40.6		
						100			Vibracore		10
							4		-42.6		
-47.4	14.8			65			Vibracore		15		

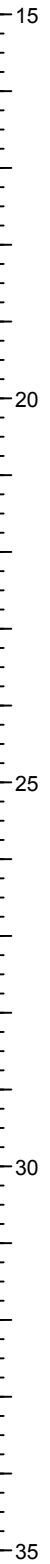
NO RECOVERY

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District				SHEET 2 OF 2 SHEETS																			
			PROJECT St. Johns County Ebb Shoal Borrow Area		COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																		
LOCATION COORDINATES X = 572,143 Y = 2,028,360			ELEVATION TOP OF BORING -32.6 Ft.																							
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																	
-50.0	17.4	NO RECOVERY		65			Vibracore																			
			BORING TERMINATED IN REFUSAL NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align:left;">SAMPLE ID</th> <th style="text-align:left;">SAMPLE DEPTH</th> <th style="text-align:left;">LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>6.0/6.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>8.0/8.5</td> <td>SM*</td> </tr> <tr> <td>4</td> <td>10.0/10.5</td> <td>SM*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell							SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.5	SP*	2	6.0/6.5	SP*	3	8.0/8.5	SM*	4	10.0/10.5	SM*		
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																								
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DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore		
2. BORING DESIGNATION CB-SJEB09-P16		LOCATION COORDINATES X = 573,098 Y = 2,028,171		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore	
4. NAME OF DRILLER American Vibracore Services			12. TOTAL SAMPLES		DISTURBED 4
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			DEG. FROM VERTICAL	BEARING	UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A			13. TOTAL NUMBER CORE BOXES 0		14. ELEVATION GROUND WATER
7. DEPTH DRILLED INTO ROCK N/A			15. DATE BORING		STARTED 11-18-09
8. TOTAL DEPTH OF BORING 17.1 Ft.			16. ELEVATION TOP OF BORING -28.8 Ft.		COMPLETED 11-18-09
			17. TOTAL RECOVERY FOR BORING 87 %		18. SIGNATURE AND TITLE OF INSPECTOR Tom Selfridge, Geotechnical Engineer,

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE						
-28.8	0.0	[Symbol: Dotted pattern]	SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, wet, 5Y 6/1 gray (SP)	100	1		-28.8		0						
-32.1	3.3	[Symbol: Dotted pattern]	SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, few silt, wet, 5Y 4/1 dark gray (SP-SM)	100	2		-30.8		5						
-37.1	8.3	[Symbol: Dotted pattern]	SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, wet, 5Y 6/1 gray (SP)	100	3		-34.8		10						
-38.8	10.0	[Symbol: Dotted pattern]	SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, few silt, wet, 5Y 5/1 gray (SP-SM)	100	4		-37.8		15						
-43.7	14.9	[Symbol: Dotted pattern]		64			-39.8								

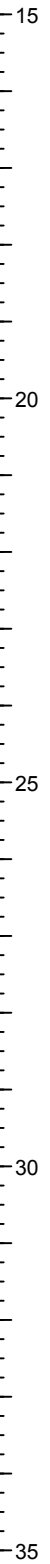
DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																	
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																	
LOCATION COORDINATES X = 573,098 Y = 2,028,171			ELEVATION TOP OF BORING -28.8 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE														
-45.9	17.1	NR		64			Vibracore																
			BORING TERMINATED IN REFUSAL NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>6.0/6.5</td> <td>SP-SM*</td> </tr> <tr> <td>3</td> <td>9.0/9.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>11.0/11.5</td> <td>SP-SM*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Carbonate 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.5	SP*	2	6.0/6.5	SP-SM*	3	9.0/9.5	SP*	4	11.0/11.5	SP-SM*					
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																					
1	2.0/2.5	SP*																					
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3	9.0/9.5	SP*																					
4	11.0/11.5	SP-SM*																					



DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore		
2. BORING DESIGNATION CB-SJEB09-P17		LOCATION COORDINATES X = 570,904 Y = 2,027,499		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore	
4. NAME OF DRILLER Athena Technologies, Inc.			12. TOTAL SAMPLES		13. TOTAL NUMBER CORE BOXES
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL	BEARING	14. ELEVATION GROUND WATER	
6. THICKNESS OF OVERBURDEN N/A			15. DATE BORING		16. ELEVATION TOP OF BORING
7. DEPTH DRILLED INTO ROCK N/A			17. TOTAL RECOVERY FOR BORING 90 %		18. SIGNATURE AND TITLE OF INSPECTOR
8. TOTAL DEPTH OF BORING 17.8 Ft.			Dan Blaydes, Geotechnical Engineer,		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-15.3	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, few fine-grained sand-sized shell, 10YR 7/1 light gray (SP)	100			-15.3		0
					1		-17.3		
			At El. -21.3 Ft., little medium-grained sand-sized shell	100			Vibracore		5
					2		-22.3		
			At El. -25.8 Ft., trace fine-grained sand-sized shell	100			Vibracore		10
					3		-27.8		
				100			Vibracore		
			At El. -29.3 Ft., discontinue shell	53	4		-29.3		15
							Vibracore		

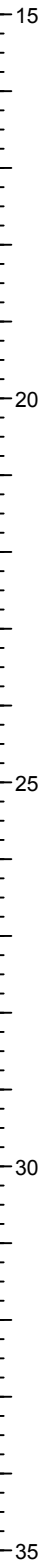
DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																		
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																		
LOCATION COORDINATES X = 570,904 Y = 2,027,499			ELEVATION TOP OF BORING -15.3 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-31.3	16.0	•••••																						
-33.1	17.8	NR		53			Vibracore																	
			BORING TERMINATED IN REFUSAL				-33.1																	
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>7.0/7.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>12.5/13.0</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>14.0/14.5</td> <td>SP*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.5	SP*	2	7.0/7.5	SP*	3	12.5/13.0	SP*	4	14.0/14.5	SP*						
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	2.0/2.5	SP*																						
2	7.0/7.5	SP*																						
3	12.5/13.0	SP*																						
4	14.0/14.5	SP*																						



DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore	
2. BORING DESIGNATION CB-SJEB09-P18		LOCATION COORDINATES X = 571,549 Y = 2,027,157		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO.		HORIZONTAL NAD83
4. NAME OF DRILLER American Vibracore Services		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore		VERTICAL NAVD88
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL	BEARING	<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
6. THICKNESS OF OVERBURDEN N/A		12. TOTAL SAMPLES		DISTURBED 3
7. DEPTH DRILLED INTO ROCK N/A		13. TOTAL NUMBER CORE BOXES 0		UNDISTURBED (UD) 0
8. TOTAL DEPTH OF BORING 9.1 Ft.		14. ELEVATION GROUND WATER		15. DATE BORING 11-18-09
		16. ELEVATION TOP OF BORING -26.7 Ft.		STARTED 11-18-09
		17. TOTAL RECOVERY FOR BORING 86 %		COMPLETED 11-18-09
		18. SIGNATURE AND TITLE OF INSPECTOR Tom Selfridge, Geotechnical Engineer,		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE												
-26.7	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, wet, 2.5Y 7/2 light gray (SP)	100			-26.7 Vibracore		0												
			At El. -29.1 Ft., little fine to medium-grained sand-sized shell, trace silt, 2.5Y 6/1 gray	100	1		-27.7 Vibracore														
			At El. -32.7 Ft., little fine to medium-grained sand-sized shell	100	2		-31.7 Vibracore		5												
-34.5	7.8			19	3		-34.2 Vibracore														
-35.8	9.1	N/R					-35.8 Vibracore														
			BORING TERMINATED IN REFUSAL																		
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results						10												
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SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																			
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2	5.0/5.5	SP*																			
3	7.5/8.0	SP*																			

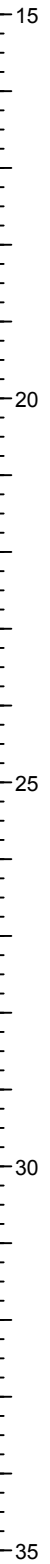
DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS			
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88			
LOCATION COORDINATES X = 571,549 Y = 2,027,157			ELEVATION TOP OF BORING -26.7 Ft.						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
			*Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell						



DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore		
2. BORING DESIGNATION CB-SJEB09-P19		LOCATION COORDINATES X = 572,563 Y = 2,027,453		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore	<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER American Vibracore Services			12. TOTAL SAMPLES		DISTURBED 4
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			DEG. FROM VERTICAL	BEARING	UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A			13. TOTAL NUMBER CORE BOXES 0		14. ELEVATION GROUND WATER
7. DEPTH DRILLED INTO ROCK N/A			15. DATE BORING		STARTED 11-18-09
8. TOTAL DEPTH OF BORING 12.7 Ft.			16. ELEVATION TOP OF BORING -32.2 Ft.		COMPLETED 11-18-09
			17. TOTAL RECOVERY FOR BORING 90 %		18. SIGNATURE AND TITLE OF INSPECTOR Tom Selfridge, Geotechnical Engineer,

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-32.2	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, trace silt, wet, 5Y 5/1 gray (SP)	100			-32.2		0
						1	Vibracore	-33.2	
					100		Vibracore	-36.2	
						2	Vibracore		5
-38.3	6.1		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, few silt, wet, 5Y 5/1 gray (SP-SM)	100			-39.2		
						3	Vibracore	-42.2	
					100		Vibracore		10
-43.6	11.4			52			-44.9		
-44.9	12.7	NIR							
			BORING TERMINATED IN REFUSAL						
			NOTES: 1. USACE Jacksonville is the custodian for these original files.						

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District				SHEET 2 OF 2 SHEETS																									
			PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																							
LOCATION COORDINATES X = 572,563 Y = 2,027,453			ELEVATION TOP OF BORING -32.2 Ft.																													
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																							
			2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">SAMPLE ID</th> <th style="text-align: left;">SAMPLE DEPTH</th> <th style="text-align: left;">LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.0/1.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.0/4.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>7.0/7.5</td> <td>SP-SM*</td> </tr> <tr> <td>4</td> <td>10.0/10.5</td> <td>SP-SM*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing <table style="width: 100%;"> <tbody> <tr> <td>1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> <tr> <td>4</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/1.5	SP*	2	4.0/4.5	SP*	3	7.0/7.5	SP-SM*	4	10.0/10.5	SP-SM*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell						
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																														
1	1.0/1.5	SP*																														
2	4.0/4.5	SP*																														
3	7.0/7.5	SP-SM*																														
4	10.0/10.5	SP-SM*																														
1	Percent Visual Shell																															
2	Percent Visual Shell																															
3	Percent Visual Shell																															
4	Percent Visual Shell																															



DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation		9. SIZE AND TYPE OF BIT 3.5" Vibracore		
2. BORING DESIGNATION CB-SJEB09-P2		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore		<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER Athena Technologies, Inc.		12. TOTAL SAMPLES		DISTURBED 3
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES		UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A		14. ELEVATION GROUND WATER		
7. DEPTH DRILLED INTO ROCK N/A		15. DATE BORING		STARTED 04-22-10
8. TOTAL DEPTH OF BORING 17.8 Ft.		16. ELEVATION TOP OF BORING		COMPLETED 04-22-10
		17. TOTAL RECOVERY FOR BORING 86 %		
		18. SIGNATURE AND TITLE OF INSPECTOR Dan Blaydes, Geotechnical Engineer,		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE	
-8.8	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, 10YR 7/1 light gray (SP)				-8.8		0	
				100			Vibracore			
					1			-11.8		5
				100			Vibracore			
				2			-16.8		10	
			100			Vibracore				
				3			-21.8		15	
			48			Vibracore				

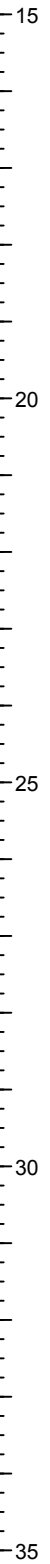
DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS															
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88															
LOCATION COORDINATES X = 569,622 Y = 2,030,566			ELEVATION TOP OF BORING -8.8 Ft.																		
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE												
-24.1	15.3	NR		48			Vibracore														
-26.6	17.8		BORING TERMINATED IN REFUSAL				-26.6														
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.0/3.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>8.0/8.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>13.0/13.5</td> <td>SP*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.5	SP*	2	8.0/8.5	SP*	3	13.0/13.5	SP*						
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																			
1	3.0/3.5	SP*																			
2	8.0/8.5	SP*																			
3	13.0/13.5	SP*																			

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore	
2. BORING DESIGNATION CB-SJEB09-P20		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore		<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER American Vibracore Services		12. TOTAL SAMPLES		DISTURBED 4
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES		UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A		14. ELEVATION GROUND WATER		
7. DEPTH DRILLED INTO ROCK N/A		15. DATE BORING		STARTED 11-18-09
8. TOTAL DEPTH OF BORING 8.4 Ft.		16. ELEVATION TOP OF BORING		COMPLETED 11-18-09
		17. TOTAL RECOVERY FOR BORING		-25.9 Ft.
		18. SIGNATURE AND TITLE OF INSPECTOR		99 %
				Tom Selfridge, Geotechnical Engineer,

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-25.9	0.0	•••••	SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, wet, 2.5Y 7/1 light gray (SP)	100			-25.9		
				100	1		-27.9		
					1-Post		-27.9		
				100			Vibracore		
					2		-30.9		5
-32.3	6.4	•••••	SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, little fine to coarse-grained sand-sized shell, few silt, wet, 2.5Y 5/1 gray (SP-SM)	100			Vibracore		
					3		-32.9		
					93		-34.3		
-34.3	8.3								
			BORING TERMINATED IN REFUSAL						
			NOTES:						
			1. USACE Jacksonville is the custodian for these original files.						
			2. Soils are field visually classified in accordance with the Unified Soils Classification System.						
			3. Laboratory Testing Results						
			SAMPLE ID SAMPLE DEPTH LABORATORY CLASSIFICATION						

			1 2.0/2.5 SP*						
			1-Post 2.0/2.5 SP*						
			2 5.0/5.5 SP*						
			3 7.0/7.5 SP-SM*						
			*Lab visual classification based on gradation						

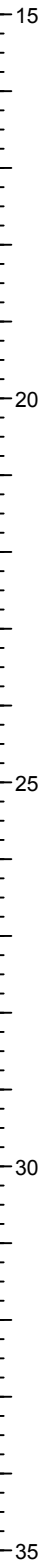
DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS			
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88			
LOCATION COORDINATES X = 573,458 Y = 2,027,111			ELEVATION TOP OF BORING -25.9 Ft.						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
			curve 4. Additional Laboratory Testing 1 Percent Carbonate 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell						



DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore		
2. BORING DESIGNATION CB-SJEB09-P21		LOCATION COORDINATES X = 571,569 Y = 2,026,293		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore	<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER American Vibracore Services			12. TOTAL SAMPLES		DISTURBED 4
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			DEG. FROM VERTICAL	BEARING	UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A			13. TOTAL NUMBER CORE BOXES 0		14. ELEVATION GROUND WATER
7. DEPTH DRILLED INTO ROCK N/A			15. DATE BORING		STARTED 11-18-09
8. TOTAL DEPTH OF BORING 9.8 Ft.			16. ELEVATION TOP OF BORING -30.3 Ft.		COMPLETED 11-18-09
			17. TOTAL RECOVERY FOR BORING 100 %		18. SIGNATURE AND TITLE OF INSPECTOR Tom Selfridge, Geotechnical Engineer,

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE	
-30.3	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, trace silt, wet, 2.5Y 5/1 gray (SP)	100			-30.3		0	
					100	1		-32.3		
				At El. -33.3 Ft., discontinue medium-grained sand-sized shell	100	2		-33.3		
				At El. -34.2 Ft., 1 inch layer with some clay		3		-34.3		
				At El. -35.0 Ft., 0.25 inch layer with some clay	100					5
					4		-38.3			
-40.1	9.8			100			Vibracore			
			BORING TERMINATED IN REFUSAL						10	
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results							
			SAMPLE ID SAMPLE DEPTH LABORATORY CLASSIFICATION							
			----- 1 2.0/2.5 SP*						15	

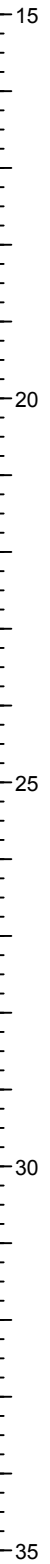
DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS				
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88				
LOCATION COORDINATES X = 571,569 Y = 2,026,293			ELEVATION TOP OF BORING -30.3 Ft.							
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS		% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
			2	3.0/4.0	SP*					
			3	4.0/5.0	SP*					
			4	8.0/8.5	SP*					
			*Lab visual classification based on gradation curve							
			4. Additional Laboratory Testing							
			1	Percent Visual Shell						
			2	Percent Visual Shell						
			3	Percent Visual Shell						
			4	Percent Visual Shell						



DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation		9. SIZE AND TYPE OF BIT 3.5" Vibracore		
2. BORING DESIGNATION CB-SJEB09-P22		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		
3. DRILLING AGENCY Corps of Engineers - CESAJ		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore		
4. NAME OF DRILLER American Vibracore Services		12. TOTAL SAMPLES 5		
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES 0		
6. THICKNESS OF OVERBURDEN N/A		14. ELEVATION GROUND WATER		
7. DEPTH DRILLED INTO ROCK N/A		15. DATE BORING 11-18-09		
8. TOTAL DEPTH OF BORING 14.8 Ft.		16. ELEVATION TOP OF BORING -28.2 Ft.		
		17. TOTAL RECOVERY FOR BORING 99 %		
		18. SIGNATURE AND TITLE OF INSPECTOR Tom Selfridge, Geotechnical Engineer,		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-28.2	0.0		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, few silt, wet, 2.5Y 5/1 gray (SP-SM)	100			-28.2 Vibracore		0
				100	1	-Post	-31.2 -31.2 Vibracore		
				100	2		-36.2 Vibracore		5
			From El. -35.7 to -37.2 Ft., little fine to medium-grained sand-sized shell	100	3		-39.2 Vibracore		10
				87	4		-42.2 -43.0 Vibracore		15

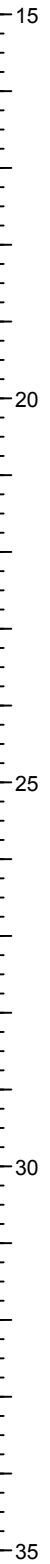
DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																					
			PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																		
LOCATION COORDINATES X = 572,343 Y = 2,025,899			ELEVATION TOP OF BORING -28.2 Ft.																								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																		
			BORING TERMINATED IN REFUSAL NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">SAMPLE ID</th> <th style="text-align: left;">SAMPLE DEPTH</th> <th style="text-align: left;">LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.0/3.5</td> <td>SP-SM*</td> </tr> <tr> <td>1-Post</td> <td>3.0/3.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>8.0/8.5</td> <td>SP-SM*</td> </tr> <tr> <td>3</td> <td>11.0/11.5</td> <td>SP-SM*</td> </tr> <tr> <td>4</td> <td>14.0/14.5</td> <td>SP-SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> 4. Additional Laboratory Testing 1 Percent Carbonate 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.5	SP-SM*	1-Post	3.0/3.5	SP*	2	8.0/8.5	SP-SM*	3	11.0/11.5	SP-SM*	4	14.0/14.5	SP-SM*						
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																									
1	3.0/3.5	SP-SM*																									
1-Post	3.0/3.5	SP*																									
2	8.0/8.5	SP-SM*																									
3	11.0/11.5	SP-SM*																									
4	14.0/14.5	SP-SM*																									



DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore		
2. BORING DESIGNATION CB-SJEB09-P23		LOCATION COORDINATES X = 572,861 Y = 2,026,548		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore	
4. NAME OF DRILLER American Vibracore Services			12. TOTAL SAMPLES		DISTURBED 4
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			DEG. FROM VERTICAL	BEARING	UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A			13. TOTAL NUMBER CORE BOXES 0		14. ELEVATION GROUND WATER
7. DEPTH DRILLED INTO ROCK N/A			15. DATE BORING		STARTED 11-18-09
8. TOTAL DEPTH OF BORING 17.2 Ft.			16. ELEVATION TOP OF BORING -31.9 Ft.		COMPLETED 11-18-09
			17. TOTAL RECOVERY FOR BORING 88 %		18. SIGNATURE AND TITLE OF INSPECTOR Tom Selfridge, Geotechnical Engineer,

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-31.9	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, trace silt, wet, 2.5Y 7/1 light gray (SP)	100			-31.9 Vibracore		0
					1		-32.9 Vibracore		
				100			-35.4 Vibracore		
-36.4	4.5		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, few silt, wet, 2.5Y 5/1 gray (SP-SM)	100	2		-36.9 Vibracore		5
-37.5	5.6		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine to medium-grained sand-sized shell, trace silt, wet, 2.5Y 5/1 gray (SP)	100	3		-38.9 Vibracore		
					4				
-40.0	8.1		CLAY, fat, high plasticity, soft, mostly clay, little fine-grained sand-sized quartz, wet, 2.5Y 4/1 dark gray (CH)						
			At El. -42.1 Ft., some fine-grained sand-sized quartz	79			Vibracore		10
-44.2	12.3		SAND, silty, mostly fine-grained sand-sized quartz, little silt, trace clay, wet, 2.5Y 5/1 gray (SM)						15

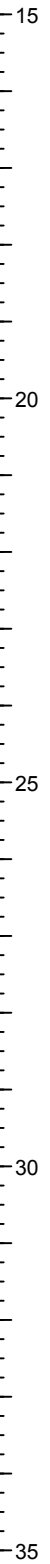
DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																		
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																		
LOCATION COORDINATES X = 572,861 Y = 2,026,548			ELEVATION TOP OF BORING -31.9 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE															
-47.0	15.1	NR		79			Vibracore																	
-49.1	17.2																							
			BORING TERMINATED IN REFUSAL NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.0/1.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>3.5/4.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>5.0/5.5</td> <td>SP-SM*</td> </tr> <tr> <td>4</td> <td>7.0/7.5</td> <td>SP*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/1.5	SP*	2	3.5/4.5	SP*	3	5.0/5.5	SP-SM*	4	7.0/7.5	SP*						
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	1.0/1.5	SP*																						
2	3.5/4.5	SP*																						
3	5.0/5.5	SP-SM*																						
4	7.0/7.5	SP*																						



DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore		
2. BORING DESIGNATION CB-SJEB09-P24		LOCATION COORDINATES X = 573,575 Y = 2,026,383		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore	
4. NAME OF DRILLER American Vibracore Services			12. TOTAL SAMPLES		DISTURBED 4
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			DEG. FROM VERTICAL	BEARING	UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A			13. TOTAL NUMBER CORE BOXES 0		14. ELEVATION GROUND WATER
7. DEPTH DRILLED INTO ROCK N/A			15. DATE BORING		STARTED 11-01-09
8. TOTAL DEPTH OF BORING 17.5 Ft.			16. ELEVATION TOP OF BORING -27.2 Ft.		COMPLETED 11-01-09
			17. TOTAL RECOVERY FOR BORING 86 %		18. SIGNATURE AND TITLE OF INSPECTOR Tom Selfridge, Geotechnical Engineer,

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE	
-27.2	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, trace silt, wet, 2.5Y 6/1 gray (SP)	100			-27.2			
					1			-28.2		
					100					
-30.7	3.5		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, few silt, wet, 2.5Y 6/1 gray (SP-SM)	100			-31.2			
					2					
			At El. -33.2 Ft., little fine to medium-grained sand-sized shell At El. -33.6 Ft., 0.1 foot layer, some clay	100			-33.2			
					3					
-35.4	8.2		At El. -35.2 Ft., 0.2 foot layer, some clay SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, trace silt, wet, 2.5Y 6/1 gray (SP)				-36.2			
					4					
-36.9	9.7		CLAY, fat, high plasticity, very soft, mostly clay, little fine-grained sand-sized quartz, wet, 2.5Y 4/1 dark gray (CH)							
-38.7	11.5		SAND, silty, mostly fine-grained sand-sized quartz, little silt, trace clay, wet, 2.5Y 4/1 dark gray (SM)							
-42.2	15.0			71						

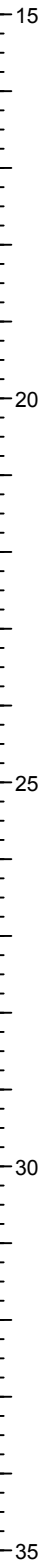
DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																		
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																		
LOCATION COORDINATES X = 573,575 Y = 2,026,383			ELEVATION TOP OF BORING -27.2 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE															
-44.7	17.5	NR		71			Vibracore																	
			BORING TERMINATED IN REFUSAL NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.0/1.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.0/4.5</td> <td>SP-SM*</td> </tr> <tr> <td>3</td> <td>6.0/7.0</td> <td>SP-SM*</td> </tr> <tr> <td>4</td> <td>9.0/9.5</td> <td>SP*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/1.5	SP*	2	4.0/4.5	SP-SM*	3	6.0/7.0	SP-SM*	4	9.0/9.5	SP*						
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	1.0/1.5	SP*																						
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DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore		
2. BORING DESIGNATION CB-SJEB09-P25		LOCATION COORDINATES X = 572,348 Y = 2,025,039		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore	<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER American Vibracore Services			12. TOTAL SAMPLES		DISTURBED 4
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			DEG. FROM VERTICAL	BEARING	UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A			13. TOTAL NUMBER CORE BOXES 0		
7. DEPTH DRILLED INTO ROCK N/A			14. ELEVATION GROUND WATER		
8. TOTAL DEPTH OF BORING 15.7 Ft.			15. DATE BORING		STARTED 11-01-09
			16. ELEVATION TOP OF BORING -30.7 Ft.		COMPLETED 11-01-09
			17. TOTAL RECOVERY FOR BORING 86 %		
			18. SIGNATURE AND TITLE OF INSPECTOR Tom Selfridge, Geotechnical Engineer,		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE	
-30.7	0.0	[Dotted pattern]	SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, wet, 2.5Y 6/1 gray (SP)	100			-30.7		0	
					1			-32.7		
					100					
						2			-35.7	
-39.2	8.5	[Dotted pattern]	SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, few silt, wet, 2.5Y 6/1 gray (SP-SM)	100			-39.7		10	
					3					
						4			-41.7	
-44.2	13.5	NR	From El. -42.9 to -43.5 Ft., some clay	53						

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																		
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																		
LOCATION COORDINATES X = 572,348 Y = 2,025,039			ELEVATION TOP OF BORING -30.7 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-46.4	15.7	NIR		53			-46.4 Vibracore																	
			BORING TERMINATED IN REFUSAL NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>5.0/5.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>9.0/9.5</td> <td>SP-SM*</td> </tr> <tr> <td>4</td> <td>11.0/11.5</td> <td>SP-SM*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.5	SP*	2	5.0/5.5	SP*	3	9.0/9.5	SP-SM*	4	11.0/11.5	SP-SM*						
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	2.0/2.5	SP*																						
2	5.0/5.5	SP*																						
3	9.0/9.5	SP-SM*																						
4	11.0/11.5	SP-SM*																						




DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore		
2. BORING DESIGNATION CB-SJEB09-P26		LOCATION COORDINATES X = 573,776 Y = 2,024,915		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore	<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER American Vibracore Services			12. TOTAL SAMPLES		DISTURBED 5
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			DEG. FROM VERTICAL		BEARING
6. THICKNESS OF OVERBURDEN N/A			13. TOTAL NUMBER CORE BOXES 0		UNDISTURBED (UD) 0
7. DEPTH DRILLED INTO ROCK N/A			14. ELEVATION GROUND WATER		15. DATE BORING 11-01-09
8. TOTAL DEPTH OF BORING 19.9 Ft.			16. ELEVATION TOP OF BORING -27.5 Ft.		COMPLETED 11-01-09
			17. TOTAL RECOVERY FOR BORING 87 %		18. SIGNATURE AND TITLE OF INSPECTOR Tom Selfridge, Geotechnical Engineer,

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE	
-27.5	0.0	[Dotted pattern]	SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, trace silt, wet, 2.5Y 5/1 gray (SP)	100			-27.5			
				100	1		-28.0	Vibracore		
							-28.0	Vibracore		
						100			Vibracore	
							-31.5			
		[Dotted pattern]	SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, few silt, wet, 2.5Y 6/2 light brownish gray (SP-SM)		2					
						100			Vibracore	
-35.0	7.5						-36.5			
		[Dotted pattern]	SAND, silty, mostly fine-grained sand-sized quartz, little silt, little fine-grained sand-sized shell, wet, 2.5Y 5/1 gray (SM)		3					
						100			Vibracore	
							-38.5			
		[Dotted pattern]	From El. -40.6 to -41.0 Ft., layer of slightly organic, high plasticity, soft clay with some fine quartz sand. From El. -41.6 to -42.0 Ft., layer of slightly organic, high plasticity, soft clay with some fine quartz sand.		4					
						72			Vibracore	



DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																					
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																					
LOCATION COORDINATES X = 573,776 Y = 2,024,915			ELEVATION TOP OF BORING -27.5 Ft.																								
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																		
-44.9	17.4		From El. -44.0 to -44.4 Ft., layer of slightly organic, high plasticity, soft clay with some fine quartz sand.	72			Vibracore																				
-47.4	19.9									NIR				-47.4													
			BORING TERMINATED IN REFUSAL NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.5/1.0</td> <td>SP*</td> </tr> <tr> <td>1-Post</td> <td>0.5/1.0</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.0/4.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>9.0/9.5</td> <td>SP-SM*</td> </tr> <tr> <td>4</td> <td>11.0/11.5</td> <td>SM*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Carbonate 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	0.5/1.0	SP*	1-Post	0.5/1.0	SP*	2	4.0/4.5	SP*	3	9.0/9.5	SP-SM*	4	11.0/11.5	SM*						
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																									
1	0.5/1.0	SP*																									
1-Post	0.5/1.0	SP*																									
2	4.0/4.5	SP*																									
3	9.0/9.5	SP-SM*																									
4	11.0/11.5	SM*																									

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT See Remarks		
2. BORING DESIGNATION CB-SJEB09-P2A		LOCATION COORDINATES X = 569,725 Y = 2,030,804		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore	<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER Athena Technologies, Inc.			12. TOTAL SAMPLES		DISTURBED 4
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			DEG. FROM VERTICAL	BEARING	UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A			13. TOTAL NUMBER CORE BOXES 0		14. ELEVATION GROUND WATER
7. DEPTH DRILLED INTO ROCK N/A			15. DATE BORING		STARTED 04-22-10
8. TOTAL DEPTH OF BORING 20.0 Ft.			16. ELEVATION TOP OF BORING -8.4 Ft.		COMPLETED 04-22-10
			17. TOTAL RECOVERY FOR BORING 95 %		18. SIGNATURE AND TITLE OF INSPECTOR Dan Blaydes, Geotechnical Engineer,

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-8.4	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, trace fine-grained sand-sized shell, 10YR 7/1 light gray (SP)	100			-8.4 Vibracore		0
					1		-10.4		
				100			Vibracore		5
			At El. -15.4 Ft., few fine-grained sand-sized shell		2		-15.4		
				100			Vibracore		10
			At El. -18.9 Ft., discontinue shell		3		-20.4		
				100			Vibracore		15

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																		
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																		
LOCATION COORDINATES X = 569,725 Y = 2,030,804			ELEVATION TOP OF BORING -8.4 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE															
-27.4	19.0	 At El. -25.4 Ft., trace fine-grained sand-sized shell		100			Vibracore																	
					67	4		Vibracore																
-28.4	20.0	NR																						
<p>NOTES:</p> <ol style="list-style-type: none"> USACE Jacksonville is the custodian for these original files. Soils are field visually classified in accordance with the Unified Soils Classification System. Laboratory Testing Results <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>7.0/7.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>12.0/12.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>17.0/17.5</td> <td>SP*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve Additional Laboratory Testing <ol style="list-style-type: none"> Percent Visual Shell Percent Visual Shell Percent Visual Shell Percent Visual Shell 										SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.5	SP*	2	7.0/7.5	SP*	3	12.0/12.5	SP*	4	17.0/17.5	SP*
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	2.0/2.5	SP*																						
2	7.0/7.5	SP*																						
3	12.0/12.5	SP*																						
4	17.0/17.5	SP*																						

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore		
2. BORING DESIGNATION CB-SJEB09-P3		LOCATION COORDINATES X = 570,310 Y = 2,030,941		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore	<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER American Vibracore Services			12. TOTAL SAMPLES		DISTURBED 4
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			DEG. FROM VERTICAL	BEARING	UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A			13. TOTAL NUMBER CORE BOXES 0		14. ELEVATION GROUND WATER
7. DEPTH DRILLED INTO ROCK N/A			15. DATE BORING		STARTED 10-31-09
8. TOTAL DEPTH OF BORING 12.1 Ft.			16. ELEVATION TOP OF BORING -25.7 Ft.		COMPLETED 10-31-09
			17. TOTAL RECOVERY FOR BORING 87 %		18. SIGNATURE AND TITLE OF INSPECTOR Tom Selfridge, Geotechnical Engineer,

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE		
-25.7	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, wet, 5Y 6/1 gray (SP) From El. -28.2 to -29.2 Ft., trace silt	100			-25.7		0		
						1		-26.7			
						100			-29.7		5
						100			-32.7		
-33.2	7.5		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, little fine-grained sand-sized shell, few silt, wet, 5Y 5/1 gray (SP-SM) At El. -32.7 Ft., 5Y 5/1 gray	100			-35.7		10		
-36.2	10.5					4					
-37.8	12.1	NR		24			-37.8				
			BORING TERMINATED IN REFUSAL NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification						15		

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District				SHEET 2 OF 2 SHEETS																	
			PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88															
LOCATION COORDINATES X = 570,310 Y = 2,030,941			ELEVATION TOP OF BORING -25.7 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE															
			System.																					
			3. Laboratory Testing Results																					
			<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">SAMPLE ID</th> <th style="width: 15%;">SAMPLE DEPTH</th> <th style="width: 75%;">LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1.0/1.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>4.0/4.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>7.0/7.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>10.0/10.5</td> <td>SP-SM*</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/1.5	SP*	2	4.0/4.5	SP*	3	7.0/7.5	SP*	4	10.0/10.5	SP-SM*						
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
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3	7.0/7.5	SP*																						
4	10.0/10.5	SP-SM*																						
			*Lab visual classification based on gradation curve																					
			4. Additional Laboratory Testing																					
			1 Percent Visual Shell																					
			2 Percent Carbonate																					
			2 Percent Visual Shell																					
			3 Percent Visual Shell																					
			4 Percent Visual Shell																					

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore		
2. BORING DESIGNATION CB-SJEB09-P4		LOCATION COORDINATES X = 569,515 Y = 2,029,788		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore	
4. NAME OF DRILLER Athena Technologies, Inc.			12. TOTAL SAMPLES		DISTURBED 6
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			DEG. FROM VERTICAL	BEARING	UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A			13. TOTAL NUMBER CORE BOXES 0		14. ELEVATION GROUND WATER
7. DEPTH DRILLED INTO ROCK N/A			15. DATE BORING		STARTED 04-21-10
8. TOTAL DEPTH OF BORING 20.0 Ft.			16. ELEVATION TOP OF BORING -15.4 Ft.		COMPLETED 04-21-10
			17. TOTAL RECOVERY FOR BORING 86 %		18. SIGNATURE AND TITLE OF INSPECTOR Dan Blaydes, Geotechnical Engineer,

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-15.4	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little medium to coarse-grained sand-sized shell, 10YR 7/1 light gray (SP)	100			-15.4		0
				100	1		-16.4		
				100	2	2-Post	-17.9		
				100			-21.4		5
				100	3		-26.4		10
			At El. -25.9 Ft., few fine-grained sand-sized shell	100	4				15

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																								
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																								
LOCATION COORDINATES X = 569,515 Y = 2,029,788			ELEVATION TOP OF BORING -15.4 Ft.																											
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																					
-32.5	17.1	[Symbol]	At El. -30.2 Ft., trace silt, 10YR 6/1 gray	100	5		Vibracore	-																						
			At El. -31.4 Ft., 10YR 7/1 light gray				-31.4																							
-35.4	20.0	NO RECOVERY		28			Vibracore																							
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr><td>1</td><td>1.0/1.5</td><td>SP*</td></tr> <tr><td>2</td><td>2.5/3.0</td><td>SP*</td></tr> <tr><td>2-Post</td><td>2.5/3.0</td><td>SP*</td></tr> <tr><td>3</td><td>6.0/6.5</td><td>SP*</td></tr> <tr><td>4</td><td>11.0/11.5</td><td>SP*</td></tr> <tr><td>5</td><td>16.0/16.5</td><td>SP*</td></tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Carbonate 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell 5 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/1.5	SP*	2	2.5/3.0	SP*	2-Post	2.5/3.0	SP*	3	6.0/6.5	SP*	4	11.0/11.5	SP*	5	16.0/16.5	SP*						
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																												
1	1.0/1.5	SP*																												
2	2.5/3.0	SP*																												
2-Post	2.5/3.0	SP*																												
3	6.0/6.5	SP*																												
4	11.0/11.5	SP*																												
5	16.0/16.5	SP*																												

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore		
2. BORING DESIGNATION CB-SJEB09-P5		LOCATION COORDINATES X = 570,255 Y = 2,030,083		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore	<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER Athena Technologies, Inc.			12. TOTAL SAMPLES		DISTURBED 3
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			DEG. FROM VERTICAL	BEARING	UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A			13. TOTAL NUMBER CORE BOXES 0		
7. DEPTH DRILLED INTO ROCK N/A			14. ELEVATION GROUND WATER		
8. TOTAL DEPTH OF BORING 20.0 Ft.			15. DATE BORING		STARTED 04-22-10
			16. ELEVATION TOP OF BORING -10.9 Ft.		COMPLETED 04-22-10
			17. TOTAL RECOVERY FOR BORING 85 %		
			18. SIGNATURE AND TITLE OF INSPECTOR Dan Blaydes, Geotechnical Engineer,		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE	
-10.9	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, trace fine-grained sand-sized shell, 10YR 7/1 light gray (SP)	100			-10.9		0	
						1		-13.9		
					100					5
						2		-18.9		
				100					10	
					3		-23.9			
				57					15	

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																				
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																				
LOCATION COORDINATES X = 570,255 Y = 2,030,083			ELEVATION TOP OF BORING -10.9 Ft.																							
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE																	
-27.9	17.0	•••••																								
-30.9	20.0	NO RECOVERY		57			Vibracore																			
			<p>NOTES:</p> <p>1. USACE Jacksonville is the custodian for these original files.</p> <p>2. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>3. Laboratory Testing Results</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">SAMPLE ID</th> <th style="text-align: left;">SAMPLE DEPTH</th> <th style="text-align: left;">LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.0/3.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>8.0/8.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>13.0/13.5</td> <td>SP*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <p>4. Additional Laboratory Testing</p> <table style="width: 100%;"> <tbody> <tr> <td style="width: 5%;">1</td> <td>Percent Visual Shell</td> </tr> <tr> <td>2</td> <td>Percent Visual Shell</td> </tr> <tr> <td>3</td> <td>Percent Visual Shell</td> </tr> </tbody> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.5	SP*	2	8.0/8.5	SP*	3	13.0/13.5	SP*	1	Percent Visual Shell	2	Percent Visual Shell	3	Percent Visual Shell					
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																								
1	3.0/3.5	SP*																								
2	8.0/8.5	SP*																								
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DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore		
2. BORING DESIGNATION CB-SJEB09-P6		LOCATION COORDINATES X = 570,796 Y = 2,029,603		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore	<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER Athena Technologies, Inc.			12. TOTAL SAMPLES		DISTURBED 4
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			DEG. FROM VERTICAL	BEARING	UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A			13. TOTAL NUMBER CORE BOXES 0		14. ELEVATION GROUND WATER
7. DEPTH DRILLED INTO ROCK N/A			15. DATE BORING		STARTED 04-21-10
8. TOTAL DEPTH OF BORING 20.9 Ft.			16. ELEVATION TOP OF BORING -17.7 Ft.		COMPLETED 04-21-10
			17. TOTAL RECOVERY FOR BORING 89 %		18. SIGNATURE AND TITLE OF INSPECTOR Dan Blaydes, Geotechnical Engineer,

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-17.7	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, trace silt, 10YR 7/1 light gray (SP)	100			-17.7 Vibracore		0
					1		-21.7 Vibracore		5
			At El. -26.7 Ft., trace fine-grained sand-sized shell		2		-26.7 Vibracore		10
				100	3		-31.7 Vibracore		
				68	3-Post		-31.7 Vibracore		15

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																	
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																	
LOCATION COORDINATES X = 570,796 Y = 2,029,603			ELEVATION TOP OF BORING -17.7 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE														
-36.4	18.7			68			Vibracore																
-38.6	20.9	NR					-38.6																
			NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4.0/4.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>9.0/9.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>14.0/14.5</td> <td>SP*</td> </tr> <tr> <td>3-Post</td> <td>14.0/14.5</td> <td>SP*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Carbonate 3 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	4.0/4.5	SP*	2	9.0/9.5	SP*	3	14.0/14.5	SP*	3-Post	14.0/14.5	SP*					
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																					
1	4.0/4.5	SP*																					
2	9.0/9.5	SP*																					
3	14.0/14.5	SP*																					
3-Post	14.0/14.5	SP*																					

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore		
2. BORING DESIGNATION CB-SJEB09-P7		LOCATION COORDINATES X = 570,481 Y = 2,030,086		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore	
4. NAME OF DRILLER American Vibracore Services			12. TOTAL SAMPLES		DISTURBED 5
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			DEG. FROM VERTICAL		UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A			13. TOTAL NUMBER CORE BOXES 0		14. ELEVATION GROUND WATER
7. DEPTH DRILLED INTO ROCK N/A			15. DATE BORING		STARTED 10-31-09
8. TOTAL DEPTH OF BORING 14.1 Ft.			16. ELEVATION TOP OF BORING -25.7 Ft.		COMPLETED 10-31-09
			17. TOTAL RECOVERY FOR BORING 89 %		18. SIGNATURE AND TITLE OF INSPECTOR Tom Selfridge, Geotechnical Engineer,

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-25.7	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, little fine to coarse-grained sand-sized shell, trace silt, wet, 2.5Y 6/1 gray (SP)	100			-25.7 Vibracore		0
					1		-27.7		
				0			Vibracore		
			At El. -30.2 Ft., discontinue shell	400000	2	2-Post	-30.7 -30.7 Vibracore		5
				75			Vibracore		
			At El. -33.2 Ft., trace silt		3		-34.7		
-36.5	10.8			100			Vibracore		10
			SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, little fine to coarse-grained sand-sized shell, few silt, wet, 2.5Y 4/1 dark gray (SP-SM)		4		-37.7		
-38.3	12.6						Vibracore		
		NR		29			Vibracore		
-39.8	14.1						-39.8		
			BORING TERMINATED IN REFUSAL						
			NOTES:						

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District				SHEET 2 OF 2 SHEETS																															
			PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																													
LOCATION COORDINATES X = 570,481 Y = 2,030,086			ELEVATION TOP OF BORING -25.7 Ft.																																			
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																													
			<p>1. USACE Jacksonville is the custodian for these original files.</p> <p>2. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>3. Laboratory Testing Results</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">SAMPLE ID</th> <th style="text-align: left;">SAMPLE DEPTH</th> <th style="text-align: left;">LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/2.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>5.0/5.5</td> <td>SP*</td> </tr> <tr> <td>2-Post</td> <td>5.0/5.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>9.0/9.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>12.0/12.5</td> <td>SP-SM*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve</p> <p>4. Additional Laboratory Testing</p> <table style="width: 100%;"> <tr><td>1</td><td>Percent Visual Shell</td></tr> <tr><td>2</td><td>Percent Carbonate</td></tr> <tr><td>2</td><td>Percent Visual Shell</td></tr> <tr><td>3</td><td>Percent Visual Shell</td></tr> <tr><td>4</td><td>Percent Visual Shell</td></tr> </table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/2.5	SP*	2	5.0/5.5	SP*	2-Post	5.0/5.5	SP*	3	9.0/9.5	SP*	4	12.0/12.5	SP-SM*	1	Percent Visual Shell	2	Percent Carbonate	2	Percent Visual Shell	3	Percent Visual Shell	4	Percent Visual Shell						15	
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																																				
1	2.0/2.5	SP*																																				
2	5.0/5.5	SP*																																				
2-Post	5.0/5.5	SP*																																				
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								30																														
								35																														

DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore		
2. BORING DESIGNATION CB-SJEB09-P8		LOCATION COORDINATES X = 568,341 Y = 2,028,200		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore	<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER American Vibracore Services			12. TOTAL SAMPLES		DISTURBED 4
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			DEG. FROM VERTICAL	BEARING	UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A			13. TOTAL NUMBER CORE BOXES 0		14. ELEVATION GROUND WATER
7. DEPTH DRILLED INTO ROCK N/A			15. DATE BORING		STARTED 10-24-09
8. TOTAL DEPTH OF BORING 19.0 Ft.			16. ELEVATION TOP OF BORING -18.3 Ft.		COMPLETED 10-24-09
			17. TOTAL RECOVERY FOR BORING 85 %		18. SIGNATURE AND TITLE OF INSPECTOR Tom Selfridge, Geotechnical Engineer,

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-18.3	0.0		SAND, poorly-graded, mostly medium to coarse-grained sand-sized shell, some fine-grained sand-sized quartz, wet, 2.5Y 6/3 light yellowish brown (SP)	100			-18.3 Vibracore		0
			At El. -20.7 Ft., mostly fine to coarse-grained sand-sized shell, some fine-grained sand-sized quartz, 2.5Y 8/2 pale yellow		1		-21.3		
				100			Vibracore		5
-24.3	6.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, some fine to medium-grained sand-sized shell, 2.5Y 6/3 light yellowish brown (SP)		2		-25.3		
				100			Vibracore		
-27.3	9.0		SAND, poorly-graded, mostly sand to gravel-sized shell, few fine-grained sand-sized quartz (SP)		3		-28.3		10
				100			Vibracore		
-33.2	14.9						-33.3		15

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																		
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																		
LOCATION COORDINATES X = 568,341 Y = 2,028,200			ELEVATION TOP OF BORING -18.3 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-34.5	16.2	SAND, poorly-graded, mostly fine-grained sand-sized quartz, some fine to medium-grained sand-sized shell, 2.5Y 8/1 white (SP)		4																			
-37.3	19.0	NO RECOVERY		30			Vibracore																	
			BORING TERMINATED IN REFUSAL NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.0/3.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>7.0/7.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>10.0/10.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>15.0/15.5</td> <td>SP*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Carbonate 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell							SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.5	SP*	2	7.0/7.5	SP*	3	10.0/10.5	SP*	4	15.0/15.5	SP*
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	3.0/3.5	SP*																						
2	7.0/7.5	SP*																						
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DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT St. Johns County Ebb Shoal Borrow Area Investigation			9. SIZE AND TYPE OF BIT 3.5" Vibracore	
2. BORING DESIGNATION CB-SJEB09-P9		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83
3. DRILLING AGENCY Corps of Engineers - CESAJ		11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore		<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER
4. NAME OF DRILLER American Vibracore Services		12. TOTAL SAMPLES		DISTURBED 4
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		13. TOTAL NUMBER CORE BOXES		UNDISTURBED (UD) 0
6. THICKNESS OF OVERBURDEN N/A		14. ELEVATION GROUND WATER		
7. DEPTH DRILLED INTO ROCK N/A		15. DATE BORING		STARTED 10-24-09
8. TOTAL DEPTH OF BORING 19.3 Ft.		16. ELEVATION TOP OF BORING -22.6 Ft.		COMPLETED 10-24-09
		17. TOTAL RECOVERY FOR BORING 95 %		
		18. SIGNATURE AND TITLE OF INSPECTOR Tom Selfridge, Geotechnical Engineer,		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-22.6	0.0		SAND, poorly-graded, mostly fine to coarse-grained sand-sized shell, little fine-grained sand-sized quartz, wet, 2.5Y 6/3 light yellowish brown (SP)	100			-22.6 Vibracore		0
			At El. -25.6 Ft., mostly sand to gravel-sized shell, few fine-grained sand-sized quartz		1		-25.6 Vibracore		5
			At El. -28.6 Ft., little fine-grained sand-sized quartz		2		-29.6 Vibracore		10
-33.8	11.2		SAND, poorly-graded, mostly fine-grained sand-sized quartz, some fine to coarse-grained sand-sized shell, 2.5Y 7/1 light gray (SP)		3		-34.6 Vibracore		
-37.5	14.9		At El. -36.0 Ft., mostly fine-grained sand-sized quartz, trace fine to coarse-grained sand-sized shell, 2.5Y 6/3 light yellowish brown	100			-37.6 Vibracore		15

DRILLING LOG (Cont. Sheet)			INSTALLATION			SHEET 2 OF 2 SHEETS																		
PROJECT St. Johns County Ebb Shoal Borrow Area			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL NAVD88																		
LOCATION COORDINATES X = 569,321 Y = 2,028,467			ELEVATION TOP OF BORING -22.6 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-40.9	18.3	↑↑↑↑↑	SAND, silty, mostly fine-grained sand-sized quartz, little silt, little fine-grained sand-sized shell, wet, 2.5Y 7/1 light gray (SM)	77	4		Vibracore																	
-41.9	19.3	NR																						
			BORING TERMINATED IN REFUSAL NOTES: 1. USACE Jacksonville is the custodian for these original files. 2. Soils are field visually classified in accordance with the Unified Soils Classification System. 3. Laboratory Testing Results <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>3.0/3.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>7.0/7.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>12.0/12.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>15.0/15.5</td> <td>SM*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve 4. Additional Laboratory Testing 1 Percent Visual Shell 2 Percent Visual Shell 3 Percent Visual Shell 4 Percent Visual Shell	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	3.0/3.5	SP*	2	7.0/7.5	SP*	3	12.0/12.5	SP*	4	15.0/15.5	SM*						
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