

Boring Designation CB-DUC03-43

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Jacksonville District			SHEET 1 OF 2 SHEETS		
1. PROJECT Duval County, FL, BEC St. John's River Entrance, North Jetty				9. SIZE AND TYPE OF BIT 3" Vibracore					
2. BORING DESIGNATION CB-DUC03-43		LOCATION COORDINATES X = 528,038 Y = 2,207,479		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL MLLW		
3. DRILLING AGENCY Athena Technologies		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Athena Technologies Vibracore System		<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER			
4. NAME OF DRILLER G. Bonn				12. TOTAL SAMPLES		DISTURBED 4	UNDISTURBED (UD) 0		
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED		DEG. FROM VERTICAL		13. TOTAL NUMBER CORE BOXES 3					
6. THICKNESS OF OVERBURDEN N/A				14. ELEVATION GROUND WATER N/A					
7. DEPTH DRILLED INTO ROCK N/A				15. DATE BORING		STARTED 08-09-03	COMPLETED 08-09-03		
8. TOTAL DEPTH OF BORING 20.0 Ft.				16. ELEVATION TOP OF BORING -2.7 Ft.					
				17. TOTAL RECOVERY FOR BORING 88 %					
				18. SIGNATURE AND TITLE OF INSPECTOR Julie Minton, Geologist					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
-2.7	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, few medium to coarse-grained sand-sized shell, trace silt, strong reaction with HCl, moist, 5Y 6/1 gray (SP)	100			-2.7		
			At El. -4.0 Ft., little medium to coarse-grained sand-sized shell	100	1		-2.9 Vibracore		
			At El. -4.2 Ft., trace shell, weak reaction with HCl, 5Y 6/1 gray				-3.5 Vibracore		
			At El. -5.4 Ft., few medium to coarse-grained sand-sized shell, strong reaction with HCl	100	2		-5.4 Vibracore		
			At El. -6.2 Ft., little medium to coarse-grained sand-sized shell	100			-6.0 Vibracore		
			At El. -7.2 Ft., trace shell, weak reaction with HCl	100	3		-6.7 Vibracore		
			From El. -9.4 to -9.5 Ft., layer of fat clay	100			-7.2 Vibracore		
				100	4		-8.2 Vibracore		
				100			-8.9 Vibracore		
-10.1	7.4		CLAY, fat, high plasticity, trace quartz, no reaction with HCl, moist, 5Y 2.5/1 black (CH)						
			From El. -10.9 to -13.6 Ft., no reaction with HCl, moist, stratified up to 3", alternating layers of sandy clay and fat clay, 5Y 4/1 dark gray						
-13.6	10.9		SAND, clayey, mostly fine-grained sand-sized quartz, little clay, trace shell, strong reaction with HCl, moist, 5Y 4/1 dark gray (SC)	82					
-15.7	13.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, few medium to coarse-grained sand-sized shell, strong reaction with HCl, moist, 5Y 6/1 gray (SP)						
-17.7	15.0								

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																	
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LOCATION COORDINATES X = 528,038 Y = 2,207,479			ELEVATION TOP OF BORING -2.7 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE														
-19.0	16.3		SAND, poorly-graded with silt, mostly fine to medium-grained sand-sized quartz, few medium to coarse-grained sand-sized shell, few silt, strong reaction with HCl, moist, 5Y 6/1 gray (SP-SM)	82			Vibracore																
-20.2	17.5		SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few medium to coarse-grained sand-sized shell, trace silt, strong reaction with HCl, moist, 5Y 6/1 gray (SP)																				
-22.7	20.0		NO RECOVERY																				
<p>NOTES:</p> <p>1. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>2. 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>0.2/0.8</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>2.7/3.3</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>4.0/4.5</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>5.5/6.2</td> <td>SP*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve. No Atterberg limits.</p> <p>3. Additional Laboratory Testing</p> <p>1 Specific Gravity</p>			SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	0.2/0.8	SP*	2	2.7/3.3	SP*	3	4.0/4.5	SP*	4	5.5/6.2	SP*						
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