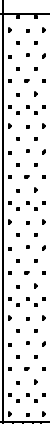




Boring Designation CB-DUC03-41

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Jacksonville District			SHEET 1 OF 2 SHEETS	
1. PROJECT Duval County, FL, BEC Offshore Borrow Area				9. SIZE AND TYPE OF BIT 3" Vibracore				
2. BORING DESIGNATION CB-DUC03-41				10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83		VERTICAL MLLW
3. DRILLING AGENCY Athena Technologies				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 3		DISTURBED 3		UNDISTURBED (UD) 0
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED				13. TOTAL NUMBER CORE BOXES 2		14. ELEVATION GROUND WATER N/A		
6. THICKNESS OF OVERBURDEN N/A				15. DATE BORING 08-04-03		STARTED 08-04-03		COMPLETED 08-04-03
7. DEPTH DRILLED INTO ROCK N/A				16. ELEVATION TOP OF BORING -54.1 Ft.		17. TOTAL RECOVERY FOR BORING 94 %		
8. TOTAL DEPTH OF BORING 21.0 Ft.				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
-54.1	0.0						-54.1		
			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) At El. -56.1 Ft., mostly fine-grained sand-sized quartz	100			-54.6	Vibracore	
	100			1		-55.1	Vibracore		
	100					-56.1	Vibracore		
	100			2		-56.6	Vibracore		
	100						Vibracore		
-59.4	5.3								
			SAND, silty, mostly fine-grained sand-sized quartz, little silt, trace shell, strong reaction with HCl, moist, 5Y 5/1 gray (SM) At El. -62.1 Ft., few medium to coarse-grained sand-sized shell At El. -62.6 Ft., trace shell	100	3		-60.1		
						-60.6	Vibracore		
							Vibracore		
-67.8	13.7								
			SAND, silty, mostly medium-grained sand-sized carbonate, little silt, strong reaction with HCl, moist, weak cementation, 5Y 7/1 light gray (SM)	92					

DRILLING LOG (Cont. Sheet)				INSTALLATION Jacksonville District				SHEET 2 OF 2 SHEETS													
PROJECT Duval County, FL, BEC				COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83		VERTICAL MLW													
LOCATION COORDINATES X = 582,507 Y = 2,167,274				ELEVATION TOP OF BORING -54.1 Ft.																	
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE												
-73.9	19.8	NO RECOVERY		92			Vibracore														
-75.1	21.0																				
		NO	NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System. 2. Laboratory Testing Results <table><tr><td>SAMPLE ID</td><td>SAMPLE DEPTH</td><td>LABORATORY CLASSIFICATION</td></tr><tr><td>1</td><td>0.5/1.0</td><td>SP*</td></tr><tr><td>2</td><td>2.0/2.5</td><td>SP*</td></tr><tr><td>3</td><td>6.0/6.5</td><td>SP*</td></tr></table> *Lab visual classification based on gradation curve. No Atterberg limits.	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	0.5/1.0	SP*	2	2.0/2.5	SP*	3	6.0/6.5	SP*						
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																			
1	0.5/1.0	SP*																			
2	2.0/2.5	SP*																			
3	6.0/6.5	SP*																			

