

## Boring Designation CB-DUC03-36R

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Jacksonville District			SHEET 1 OF 3 SHEETS		
1. PROJECT Duval County, FL, BEC Offshore Borrow Area				9. SIZE AND TYPE OF BIT 3" Vibracore					
2. BORING DESIGNATION CB-DUC03-36R		LOCATION COORDINATES X = 581,919 Y = 2,182,829		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				
4. NAME OF DRILLER G. Bonn				12. TOTAL SAMPLES 9		DISTURBED 9	UNDISTURBED (UD) 0		
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED				13. TOTAL NUMBER CORE BOXES 4		14. ELEVATION GROUND WATER N/A			
6. THICKNESS OF OVERBURDEN N/A				15. DATE BORING 08-07-03		STARTED 08-07-03	COMPLETED 08-24-03		
7. DEPTH DRILLED INTO ROCK N/A				16. ELEVATION TOP OF BORING -46.8 Ft.		17. TOTAL RECOVERY FOR BORING 60 %			
8. TOTAL DEPTH OF BORING 40.0 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
-46.8	0.0						-46.8		
			SAND, poorly-graded, mostly fine to medium-grained sand-sized quartz, few fine to medium-grained sand-sized shell, trace silt, strong reaction with HCl, moist, 10Y 7/1 light greenish gray (SP)  At El. -50.8 Ft., mostly fine-grained sand-sized quartz, trace shell, 5Y 6/1 gray  At El. -55.9 Ft., mostly fine to medium-grained sand-sized quartz, 5GY 7/1 light greenish gray	100			Vibracore		
				100	1		-47.8		
							-48.3		
				100			Vibracore		
							-50.8		
				100	1AJ		-51.3		
							Vibracore		
							-55.3		
				100	2AJ		-55.8		
							-56.4		
					-56.9				
					Vibracore				
					-59.4				
					-59.9				
					Vibracore				

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 3 SHEETS			
PROJECT Duval County, FL, BEC			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL MLW			
LOCATION COORDINATES X = 581,919 Y = 2,182,829			ELEVATION TOP OF BORING -46.8 Ft.						
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
				100	3BJ		-61.9		
				100			-62.4	Vibracore	
			At El. -62.9 Ft., few medium to coarse-grained sand-sized shell, 5Y 6/1 gray	100			-63.4	Vibracore	
				100	1CJ		-63.9	Vibracore	
				100				Vibracore	
			At El. -65.5 Ft., mostly fine-grained sand-sized quartz, trace shell, 5Y 5/1 gray	100	2CJ		-65.6		
				100			-66.1	Vibracore	
-66.7	19.9			100			-66.9	Vibracore	
			SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, trace shell, strong reaction with HCl, moist, 5Y 5/1 gray (SP-SM)	100	3CJ		-67.4	Vibracore	
-70.7	23.9								
		NO RECOVERY		17				Vibracore	

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 3 OF 3 SHEETS																				
PROJECT Duval County, FL, BEC			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83	VERTICAL MLW																				
LOCATION COORDINATES X = 581,919 Y = 2,182,829			ELEVATION TOP OF BORING -46.8 Ft.																							
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																	
-86.9	40.0	NO RECOVERY		17			Vibracore																			
			<p>NOTES:</p> <p>1. Soils are field visually classified in accordance with the Unified Soils Classification System.</p> <p>2. Boring was completed through multiple attempts of the vibracore to reach the target depth. These multiple attempts were combined to produce the final boring log. Physical samples of each separate attempt were prepared under the original boring designations of CB-DUC03-36, CB-DUC03-36AJ, CB-DUC03-36BJ and CB-DUC03-36CJ.</p> <p>3. X,Y data from initial drilling attempt (36) is used for 36R.</p> <p>4. Lab samples have a letter following the sample number which refers to the initial assigned hole number. Example: sample number 1AJ reflects sample 1 from hole AJ.</p> <p>5. 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>1.0/1.5</td> <td>SP*</td> </tr> <tr> <td>1AJ</td> <td>4.0/4.5</td> <td>SP*</td> </tr> <tr> <td>2AJ</td> <td>8.5/9.0</td> <td>SP*</td> </tr> <tr> <td>3BJ</td> <td>15.1/15.6</td> <td>SP*</td> </tr> <tr> <td>3CJ</td> <td>20.1/20.6</td> <td>SP*</td> </tr> </tbody> </table> <p>*Lab visual classification based on gradation curve. No Atterberg limits.</p> <p>6. Additional Laboratory Testing</p> <p>2AJ Specific Gravity</p>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.0/1.5	SP*	1AJ	4.0/4.5	SP*	2AJ	8.5/9.0	SP*	3BJ	15.1/15.6	SP*	3CJ	20.1/20.6	SP*					
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