

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Jacksonville District		SHEET 1 OF 2 SHEETS			
1. PROJECT Duval County FL BEC Borrow Area A				9. SIZE AND TYPE OF BIT See Remarks					
2. BORING DESIGNATION CB-DUC04-09		LOCATION COORDINATES X = 417,560 Y = 2,187,985		10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD27 VERTICAL MLLW			
3. DRILLING AGENCY Alpine Ocean Seismic Survey, Inc.		CONTRACTOR FILE NO.		11. MANUFACTURER'S DESIGNATION OF DRILL Vibrocure		<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER			
4. NAME OF DRILLER James F. Cole				12. TOTAL SAMPLES		DISTURBED 4 UNDISTURBED (UD) 0			
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED				13. TOTAL NUMBER CORE BOXES 1		14. ELEVATION GROUND WATER Tidal			
6. THICKNESS OF OVERBURDEN N/A				15. DATE BORING		STARTED 04-16-04 COMPLETED 04-16-04			
7. DEPTH DRILLED INTO ROCK N/A				16. ELEVATION TOP OF BORING -56.6 Ft.		17. TOTAL RECOVERY FOR BORING 100 %			
8. TOTAL DEPTH OF BORING 19.2 Ft.				18. SIGNATURE AND TITLE OF INSPECTOR William H. Brenner, Geologist <i>William H. Brenner</i>					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-56.6	0.0		SAND, silty, mostly subangular to subrounded fine-grained sand-sized carbonate, some silt, trace shell up to 2-3/4", strong reaction with HCl, dry, weak cementation, 2.5Y 8/6 yellow (SM)	100			-56.6		
			At El. -58.3 Ft., 10B 6/1 bluish gray	100	1		Vibrocure		
				100			Vibrocure		
				100			Vibrocure		
				100	2		Vibrocure		
			At El. -60.8 Ft., 5B 4/1 dark bluish gray	100			Vibrocure		
-61.7	-5.1		SAND, silty, mostly subrounded medium-grained sand-sized quartz, some silt, trace shell up to 1-1/4", wet, weak cementation, 2.5Y 5/4 light olive brown (SM)	100			Vibrocure		
				100	3		Vibrocure		
-64.0	7.4		SILT, inorganic-L, low plasticity, very soft, some clay, little subangular to subrounded fine-grained sand-sized carbonate, strong reaction with HCl, wet, 2.5Y 7/6 yellow (ML)	100			Vibrocure		
-64.6	8.0		SAND, silty, mostly subrounded medium-grained sand-sized carbonate, some subrounded fine-grained sand-sized quartz, few silt, trace medium-grained sand-sized shell up to 1-1/4", strong reaction with HCl, wet, 2.5Y 7/6 yellow (SM)	100	4		Vibrocure		
-66.6	10.0		SAND, poorly-graded, mostly quartz, trace silt, dry, moderate cementation, 10B 5/1 bluish gray (SP)	100			Vibrocure		

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 NAD27	VERTICAL MLLW																	
LOCATION COORDINATES X = 417,560 Y = 2,187,985			ELEVATION TOP OF BORING -56.6 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE														
-75.8	19.2			100			Vibracore																
			NOTES:  1. Soils are field visually classified in accordance with the Unified Soils Classification System.  2. 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>0.5/1.5</td> <td>SM*</td> </tr> <tr> <td>2</td> <td>3.0/4.0</td> <td>SM*</td> </tr> <tr> <td>3</td> <td>6.0/7.0</td> <td>SM*</td> </tr> <tr> <td>4</td> <td>8.0/9.0</td> <td>SM*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve. No Atterberg limits.  3. Additional Laboratory Testing  4 Specific Gravity	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	0.5/1.5	SM*	2	3.0/4.0	SM*	3	6.0/7.0	SM*	4	8.0/9.0	SM*					
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