

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-DUC04-23		LOCATION COORDINATES X = 419,019 Y = 2,184,770		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 4		DISTURBED 0	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		DEG. FROM VERTICAL		15. DATE BORING 04-17-04		STARTED 04-17-04	COMPLETED 04-17-04		
7. DEPTH DRILLED INTO ROCK N/A		BEARING		16. ELEVATION TOP OF BORING -53.3 Ft.					
8. TOTAL DEPTH OF BORING 19.6 Ft.				17. TOTAL RECOVERY FOR BORING 100 %					
				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
-53.3	0.0		SAND, poorly-graded with silt, mostly subrounded fine-grained sand-sized quartz, few subrounded fine-grained sand-sized carbonate, trace silt, trace angular coarse gravel-sized shell up to 3", weak reaction with HCl, wet, 10Y 5/1 greenish gray (SP-SM)	100			-53.3		
				100	1		-55.3		
							-56.3		
-57.8	4.5		CLAY, lean, 10Y 5/1 greenish gray (CL)	100			-57.8		
-58.2	4.9						-58.2		
-58.8	5.5		SAND, poorly-graded with silt, mostly subrounded fine-grained sand-sized quartz, some subrounded fine-grained sand-sized carbonate, trace angular coarse gravel-sized shell up to 3", 10Y 5/1 greenish gray (SP-SM)	100	2		-58.8		
-59.3	6.0		SHELL, mostly angular medium to coarse-grained sand-sized shell up to 1-1/2", few subangular fine-grained sand-sized quartz, 10Y 5/1 greenish gray	100			-59.3		
			SAND, silty, mostly subrounded fine-grained sand-sized carbonate, some subrounded fine-grained sand-sized quartz, little silt, trace shell up to 3", wet, 10Y 5/1 greenish gray (SM)	100			-60.8		
-62.3	9.0			100			-62.3		
				100	3		-64.3		
							-65.3		
				100					
-67.9	14.6		SAND, poorly-graded with silt, mostly						

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 = 419,019 Y = 2,184,770			ELEVATION TOP OF BORING -53.3 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-72.9	19.6		subrounded fine-grained sand-sized carbonate, some subrounded fine-grained sand-sized quartz, trace silt, trace shell up to 3", wet, N 7/ light gray (SP-SM) At El. -70.3 Ft., occasional layers of clay up to 2", N 7/ light gray	100			Vibracore	-69.3																
				100	4		Vibracore	-70.3																
				100			Vibracore																	
								-72.9																
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>2.0/3.0</td> <td>SP-SM*</td> </tr> <tr> <td>2</td> <td>6.5/7.5</td> <td>SM*</td> </tr> <tr> <td>3</td> <td>11.0/12.0</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>16.0/17.0</td> <td>SP-SM*</td> </tr> </tbody> </table>			SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/3.0	SP-SM*	2	6.5/7.5	SM*	3	11.0/12.0	SP*	4	16.0/17.0	SP-SM*							
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																						
1	2.0/3.0	SP-SM*																						
2	6.5/7.5	SM*																						
3	11.0/12.0	SP*																						
4	16.0/17.0	SP-SM*																						
*Lab visual classification based on gradation curve. No Atterberg limits.																								
3. Additional Laboratory Testing																								
3 Specific Gravity																								