

<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic	<b>INSTALLATION</b> Jacksonville District	<b>SHEET 1</b> <b>OF 2 SHEETS</b>
<b>1. PROJECT</b> Duval County FL BEC Borrow Area A			<b>9. SIZE AND TYPE OF BIT</b> See Remarks	
<b>2. BORING DESIGNATION</b> CB-DUC04-24			<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)	
<b>3. DRILLING AGENCY</b> Alpine Ocean Seismic Survey, Inc.			<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> Vibrocure	
<b>4. NAME OF DRILLER</b> James F. Cole			<b>12. TOTAL SAMPLES</b> 4	
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			<b>13. TOTAL NUMBER CORE BOXES</b> 1	
<b>6. THICKNESS OF OVERBURDEN</b> N/A			<b>14. ELEVATION GROUND WATER</b> Tidal	
<b>7. DEPTH DRILLED INTO ROCK</b> N/A			<b>15. DATE BORING</b> 04-17-04	
<b>8. TOTAL DEPTH OF BORING</b> 19.6 Ft.			<b>16. ELEVATION TOP OF BORING</b> -52.8 Ft.	
			<b>17. TOTAL RECOVERY FOR BORING</b> 84 %	
			<b>18. SIGNATURE AND TITLE OF INSPECTOR</b> 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
-52.8	0.0						-52.8		0
			SAND, poorly-graded, mostly subrounded fine-grained sand-sized quartz, few subrounded fine-grained sand-sized carbonate, few angular coarse-grained sand-sized shell up to 1/2", trace silt, strong reaction with HCl, wet, 10Y 6/1 greenish gray (SP)	100			Vibrocure		
				100	1		-54.8		
							Vibrocure		
							-55.8		
-57.3	4.5		CLAY, lean, low plasticity, firm, 10Y 6/1 greenish gray (CL)	100			Vibrocure		5
-57.5	4.7		SAND, poorly-graded, mostly subrounded fine-grained sand-sized quartz, few subrounded fine-grained sand-sized carbonate, few angular coarse-grained sand-sized shell up to 1/2", trace silt, strong reaction with HCl, wet, 10Y 6/1 greenish gray (SP)				-59.8		
			At El. -58.8 Ft., N 8/ white	100	2		Vibrocure		
							-60.8		
				100			Vibrocure		10
							-64.8		
				100	3		Vibrocure		
							-65.8		
				100			Vibrocure		
-67.4	14.6		At El. -67.1 Ft., strong reaction with HCl						
			SAND, silty, mostly subrounded fine-grained						15

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 = 419,206 Y = 2,184,061			ELEVATION TOP OF BORING -52.8 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-69.2	16.4	NO RECOVERY	sand-sized carbonate, some subrounded fine-grained sand-sized quartz, weak reaction with HCl, wet, 2.5Y 7/4 pale yellow (SM)	100	4		-68.3	Vibracore																
	90			-69.3			Vibracore																	
-72.4	19.6			0			-72.4	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>2.0/3.0</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>7.0/8.0</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>12.0/13.0</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>15.5/16.5</td> <td>SM*</td> </tr> </tbody> </table>			SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/3.0	SP*	2	7.0/8.0	SP*	3	12.0/13.0	SP*	4	15.5/16.5	SM*							
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*Lab visual classification based on gradation curve. No Atterberg limits.																								
3. Additional Laboratory Testing																								
2 Specific Gravity																								