

<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-DUC04-08			<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)	
<b>LOCATION COORDINATES</b> X = 415,793 Y = 2,188,314			<b>HORIZONTAL</b> NAD27	
<b>3. DRILLING AGENCY</b> Alpine Ocean Seismic Survey, Inc.			<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> Vibrocure	
<b>CONTRACTOR FILE NO.</b>			<input type="checkbox"/> <b>AUTO HAMMER</b> <input type="checkbox"/> <b>MANUAL HAMMER</b>	
<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"/> <b>VERTICAL</b> <input type="checkbox"/> <b>INCLINED</b>			<b>13. TOTAL NUMBER CORE BOXES</b> 1	
<b>DEG. FROM VERTICAL</b>			<b>14. ELEVATION GROUND WATER</b> Tidal	
<b>BEARING</b>			<b>15. DATE BORING</b> 04-15-04	
<b>6. THICKNESS OF OVERBURDEN</b> N/A			<b>16. ELEVATION TOP OF BORING</b> -48.6 Ft.	
<b>7. DEPTH DRILLED INTO ROCK</b> N/A			<b>17. TOTAL RECOVERY FOR BORING</b> 99 %	
<b>8. TOTAL DEPTH OF BORING</b> 19.8 Ft.			<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
-48.6	0.0						-48.6		
			SAND, poorly-graded, mostly subangular fine-grained sand-sized quartz, trace silt, trace angular shell up to 1", strong reaction with HCl, wet, 10B 6/1 bluish gray (SP)	100			Vibrocure		
				100	1		-50.6		
							Vibrocure		
							-51.6		
				100			Vibrocure		
							-55.6		
				100	2		Vibrocure		
							-56.6		
				100			Vibrocure		
							-59.7		
-59.7	11.1						-60.1		
-60.6	12.0		SHELL, mostly medium to coarse-grained sand-sized shell up to 1-1/2", some subrounded fine-grained sand-sized quartz, few subrounded fine-grained sand-sized carbonate, trace silt, strong reaction with HCl, wet, 10B 5/1 bluish gray	100	3		Vibrocure		
			SILT, inorganic-L, low plasticity, soft, little clay, few subrounded fine-grained sand-sized quartz, trace angular shell up to 1-1/2", weak reaction with HCl, wet, 10B 4/1 dark bluish gray (ML)	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 = 415,793 Y = 2,188,314			ELEVATION TOP OF BORING -48.6 Ft.																					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE															
-64.0	15.4		SAND, poorly-graded, mostly subrounded fine-grained sand-sized quartz, trace shell up to 1/2", weak reaction with HCl, wet, weak cementation, 5PB 7/1 light bluish gray (SP)  At El. -67.6 Ft., occasional layers of clay up to 2"	100	4		-64.6	Vibracore																
				100			-65.6	Vibracore																
				93				Vibracore																
-68.2 -68.4	19.6 19.8						-68.4																	
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>11.5/12.5</td> <td>SM*</td> </tr> <tr> <td>4</td> <td>16.0/17.0</td> <td>SP*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve. No Atterberg limits.  3. Additional Laboratory Testing  3 Specific Gravity										SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/3.0	SP*	2	7.0/8.0	SP*	3	11.5/12.5	SM*	4	16.0/17.0	SP*
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