





<b>DRILLING LOG</b>		<b>DIVISION</b> South Atlantic		<b>INSTALLATION</b> Jacksonville District		<b>SHEET 1</b> OF 2 SHEETS	
<b>1. PROJECT</b> Duval County FL BEC Borrow Area B1				<b>9. SIZE AND TYPE OF BIT</b> See Remarks			
<b>2. BORING DESIGNATION</b> CB-DUC04-34		<b>LOCATION COORDINATES</b> X = 418,090 Y = 2,181,280		<b>10. COORDINATE SYSTEM/DATUM</b> State Plane, FLE (U.S. Ft.)		<b>HORIZONTAL</b> NAD27	<b>VERTICAL</b> MLLW
<b>3. DRILLING AGENCY</b> Alpine Ocean Seismic Survey, Inc.		<b>CONTRACTOR FILE NO.</b>		<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> Vibracore		<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER	
<b>4. NAME OF DRILLER</b> James F. Cole				<b>12. TOTAL SAMPLES</b>		<b>DISTURBED</b> 4	<b>UNDISTURBED (UD)</b> 0
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED				<b>13. TOTAL NUMBER CORE BOXES</b> 1		<b>14. ELEVATION GROUND WATER</b> Tidal	
<b>6. THICKNESS OF OVERBURDEN</b> N/A		<b>7. DEPTH DRILLED INTO ROCK</b> N/A		<b>15. DATE BORING</b>		<b>STARTED</b> 04-18-04	<b>COMPLETED</b> 04-18-04
<b>8. TOTAL DEPTH OF BORING</b> 19.4 Ft.				<b>16. ELEVATION TOP OF BORING</b> -47.6 Ft.		<b>17. TOTAL RECOVERY FOR BORING</b> 99 %	
				<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
-47.6	0.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, trace silt, trace fine gravel-sized shell up to 1/2", weak reaction with HCl, wet, N 8/ white (SP)	100			-47.6		0
				100	1		Vibracore		
							-49.1		
							Vibracore		
							-50.1		
				100			Vibracore		5
-53.6	6.0		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, trace clay, weak reaction with HCl, wet, N 7/ light gray (SP-SM)	100	2		-53.6		
							Vibracore		
				100			-54.6		
							Vibracore		10
-58.6	11.0		SAND, silty, mostly fine-grained sand-sized quartz, wet, N 7/ light gray (SM)	100	3		-58.6		
							Vibracore		
							-59.6		
-61.1	13.5		SHELL, mostly angular medium-grained sand-sized shell up to 1-1/2", little silt, little fine-grained sand-sized quartz, trace clay, wet, weak cementation, 10Y 5/1 greenish gray	100			Vibracore		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 = 418,090 Y = 2,181,280				ELEVATION TOP OF BORING -47.6 Ft.																			
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE														
-63.6	16.0			100			Vibracore																
			SAND, silty, mostly fine-grained sand-sized quartz, wet, weak cementation, 2.5Y 5/3 light olive brown (SM)	100	4		Vibracore																
				96			Vibracore																
-66.8	19.3																						
			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>1.5/2.5</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>6.0/7.0</td> <td>SP-SM*</td> </tr> <tr> <td>3</td> <td>11.0/12.0</td> <td>SM*</td> </tr> <tr> <td>4</td> <td>16.0/17.0</td> <td>SM*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve. No Atterberg limits.  3. Additional Laboratory Testing  2 Specific Gravity	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	1.5/2.5	SP*	2	6.0/7.0	SP-SM*	3	11.0/12.0	SM*	4	16.0/17.0	SM*					
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