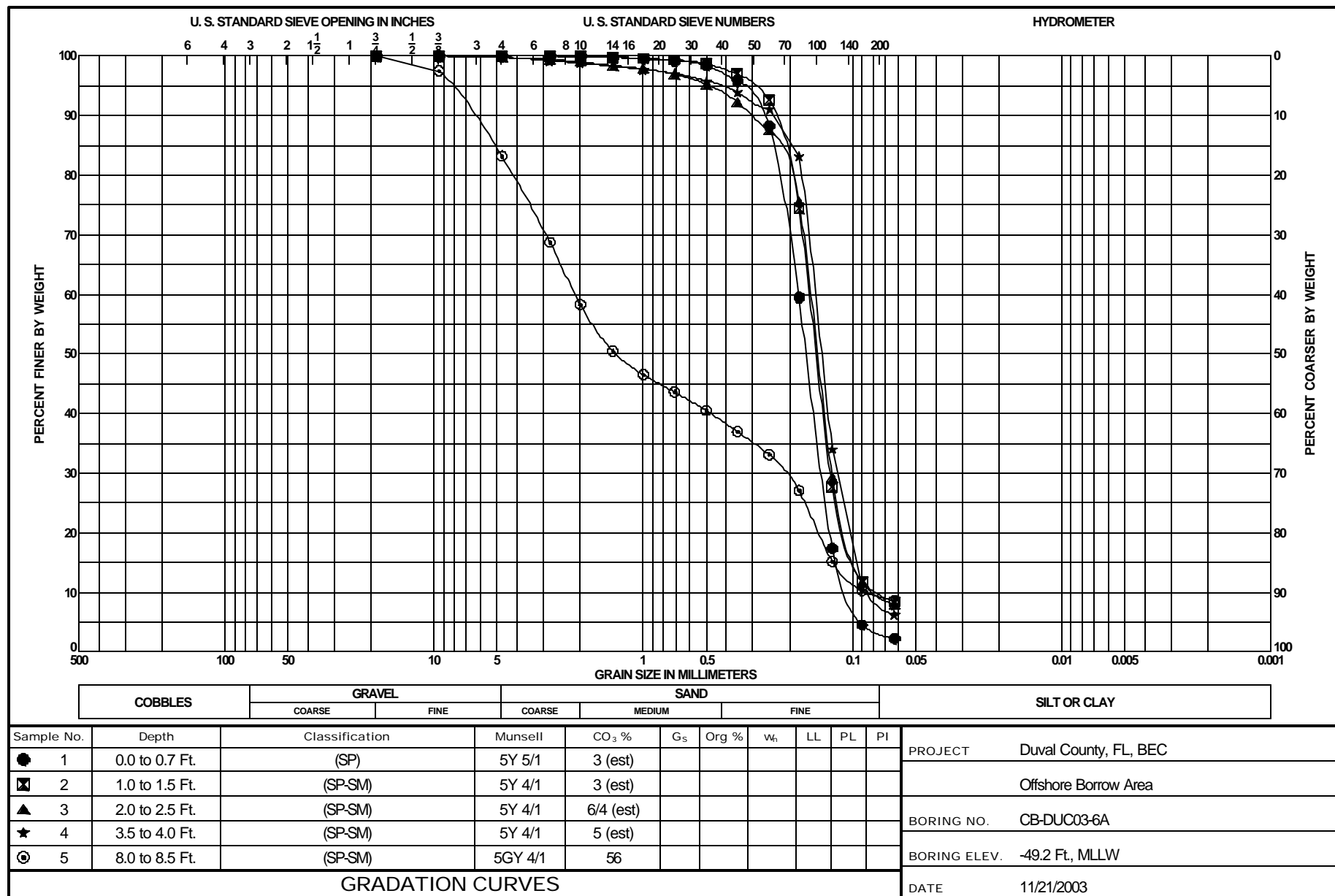


Boring Designation CB-DUC03-6A

DRILLING LOG		DIVISION South Atlantic		INSTALLATION Jacksonville District			SHEET 1 OF 2 SHEETS		
1. PROJECT Duval County, FL, BEC Offshore Borrow Area				9. SIZE AND TYPE OF BIT 3" Vibracore					
2. BORING DESIGNATION CB-DUC03-6A				10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD83		VERTICAL MLLW	
3. DRILLING AGENCY Athena Technologies				11. MANUFACTURER'S DESIGNATION OF DRILL Athena Technologies Vibracore System		<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER			
4. NAME OF DRILLER G. Bonn				12. TOTAL SAMPLES		DISTURBED 5		UNDISTURBED (UD) 0	
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED				13. TOTAL NUMBER CORE BOXES 2		14. ELEVATION GROUND WATER N/A			
6. THICKNESS OF OVERBURDEN N/A				15. DATE BORING		STARTED 08-11-03		COMPLETED 08-11-03	
7. DEPTH DRILLED INTO ROCK N/A				16. ELEVATION TOP OF BORING -49.2 Ft.		17. TOTAL RECOVERY FOR BORING 75 %			
8. TOTAL DEPTH OF BORING 16.5 Ft.				18. SIGNATURE AND TITLE OF INSPECTOR Julie Minton, Geologist					
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE
-49.2	0.0						-49.2		
-50.2	1.0		SAND, poorly-graded, mostly fine-grained sand-sized quartz, trace shell, trace silt, strong reaction with HCl, moist, 5Y 5/1 gray (SP)	100	1		Vibracore		
-51.2	2.0		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, trace shell, strong reaction with HCl, moist, 5Y 4/1 dark gray (SP-SM)	100	2		Vibracore		
-52.5	3.3		SAND, silty, mostly fine-grained sand-sized quartz, little silt, trace shell, strong reaction with HCl, moist, 5Y 4/1 dark gray (SM) At El. -52.0 Ft., few medium to coarse-grained sand-sized shell	100	3		Vibracore		
-54.2	5.0		SAND, poorly-graded with silt, mostly fine-grained sand-sized quartz, few silt, trace shell, strong reaction with HCl, moist, 5Y 4/1 dark gray (SP-SM)	100	4		Vibracore		
-58.2	9.0		SAND, silty, mostly fine-grained sand-sized quartz, little silt, trace shell, strong reaction with HCl, moist, 5GY 4/1 dark greenish gray (SM) At El. -56.2 Ft., few medium to coarse-grained sand-sized shell At El. -57.2 Ft., little medium to coarse-grained sand-sized shell At El. -57.7 Ft., some medium to coarse-grained sand-sized shell, 10Y 5/1 greenish gray	100	5		Vibracore		
-60.1	10.9		SAND, silty, mostly medium to coarse-grained sand-sized shell, little fine-grained sand-sized quartz, trace fine gravel-sized shell, 10Y 6/1 greenish gray (SM)						
-61.5	12.3		CLAY, fat, high plasticity, trace quartz, trace shell, weak reaction with HCl, moist, 10Y 4/1 dark greenish gray (CH)	48			Vibracore		
		NO RECOVERY							

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 NAD83		VERTICAL MLW																				
LOCATION COORDINATES X = 559,881 Y = 2,181,278			ELEVATION TOP OF BORING -49.2 Ft.																								
ELEV.	DEPTH	RECOVERED PERCENT	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	ROD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE																		
-65.7	16.5	RECOVERED		48			Vibracore																				
		NOTES:																									
		1. Soils are field visually classified in accordance with the Unified Soils Classification System.																									
		2. Laboratory Testing Results																									
		<table><tr><td>SAMPLE ID</td><td>SAMPLE DEPTH</td><td>LABORATORY CLASSIFICATION</td></tr><tr><td>1</td><td>0.0/0.7</td><td>SP*</td></tr><tr><td>2</td><td>1.0/1.5</td><td>SP-SM*</td></tr><tr><td>3</td><td>2.0/2.5</td><td>SP-SM*</td></tr><tr><td>4</td><td>3.5/4.0</td><td>SP-SM*</td></tr><tr><td>5</td><td>8.0/8.5</td><td>SP-SM*</td></tr></table>	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	0.0/0.7	SP*	2	1.0/1.5	SP-SM*	3	2.0/2.5	SP-SM*	4	3.5/4.0	SP-SM*	5	8.0/8.5	SP-SM*							
SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION																									
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2	1.0/1.5	SP-SM*																									
3	2.0/2.5	SP-SM*																									
4	3.5/4.0	SP-SM*																									
5	8.0/8.5	SP-SM*																									
		*Lab visual classification based on gradation curve. No Atterberg limits.																									



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