




Boring Designation CB-DUC03-10

| 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-DUC03-10 | | | | 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 3 | | DISTURBED 0 | | UNDISTURBED (UD) | |
| 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 08-05-03 | | STARTED 08-05-03 | | COMPLETED 08-05-03 | |
| 7. DEPTH DRILLED INTO ROCK N/A | | | | 16. ELEVATION TOP OF BORING -57.8 Ft. | | 17. TOTAL RECOVERY FOR BORING 91 % | | | |
| 8. TOTAL DEPTH OF BORING 20.0 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 |
| -57.8 | 0.0 | | SAND, silty, mostly fine to medium-grained sand-sized quartz, little silt, trace shell, strong reaction with HCl, moist, 10Y 3/1 dark greenish gray (SM) | 100 | 1 | | -57.8 | | 0 |
| -61.2 | 3.4 | | SAND, poorly-graded with silt, mostly medium-grained sand-sized quartz, little medium to coarse-grained sand-sized shell, few silt, strong reaction with HCl, moist, 5Y 5/1 gray (SP-SM) | 100 | 2 | | -61.2 | | |
| -61.8 | 4.0 | | SAND, silty, mostly fine to medium-grained sand-sized quartz, little silt, trace shell, strong reaction with HCl, moist, 10Y 5/1 greenish gray (SM) | 100 | 3 | | -61.8 | | |
| -65.5 | 7.7 | | SAND, clayey, mostly fine to medium-grained sand-sized quartz, little clay, trace shell, strong reaction with HCl, moist, 10Y 4/1 dark greenish gray (SC) | 100 | | | -63.8 | | 5 |
| -66.9 | 9.1 | | CLAY, fat, high plasticity, few quartz, weak reaction with HCl, moist, 10Y 4/1 dark greenish gray (CH) | 86 | | | -64.3 | | |
| -68.8 | 11.0 | | SAND, poorly-graded with silt, mostly medium-grained sand-sized quartz, few silt, trace shell, no reaction with HCl, moist, 5GY 5/1 greenish gray (SP-SM) | | | | | | 10 |
| -69.3 | 11.5 | | SAND, clayey, mostly fine to medium-grained sand-sized quartz, little clay, trace shell, no reaction with HCl, moist, 5GY 5/1 greenish gray (SC) | | | | | | |
| -70.8 | 13.0 | | SAND, poorly-graded with silt, mostly medium-grained sand-sized quartz, few silt, trace shell, no reaction with HCl, moist, 5Y 5/1 gray (SP-SM) | | | | | | |
| -72.4 | 14.6 | | SAND, clayey, mostly fine to medium-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 NAD83 | VERTICAL MLW | | | | | | | | | | | | | | | |
| LOCATION COORDINATES X = 561,828 Y = 2,200,712 | | | ELEVATION TOP OF BORING -57.8 Ft. | | | | | | | | | | | | | | | | | | |
| ELEV. | DEPTH | LEGEND | CLASSIFICATION OF MATERIALS | % REC. | BOX OR SAMPLE | ROD OR UD | REMARKS | BLOWS/ 1 FT. | N-VALUE | | | | | | | | | | | | |
| -73.7 | 15.9 |  | sand-sized quartz, little clay, no reaction with HCl, moist, 5GY 5/1 greenish gray (SC) | | | | | | | | | | | | | | | | | | |
| -76.0 | 18.2 |  | CLAY, fat, high plasticity, trace organic matter, no reaction with HCl, moist, 5Y 2.5/1 black (CH) | | | | | | | | | | | | | | | | | | |
| -77.8 | 20.0 |  | At El. -75.0 Ft., discontinue organic matter, 5Y 5/1 gray | 86 | | | Vibracore | | | | | | | | | | | | | | |
| | | ND RECOVERY | | | | | -77.8 | | | | | | | | | | | | | | |
| 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>0.0/3.4</td> <td>SP-SM*</td> </tr> <tr> <td>2</td> <td>3.4/4.0</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>6.0/6.5</td> <td>SM*</td> </tr> </tbody> </table> | | | SAMPLE ID | SAMPLE DEPTH | LABORATORY CLASSIFICATION | 1 | 0.0/3.4 | SP-SM* | 2 | 3.4/4.0 | SP* | 3 | 6.0/6.5 | SM* | | | | | | | |
| SAMPLE ID | SAMPLE DEPTH | LABORATORY CLASSIFICATION | | | | | | | | | | | | | | | | | | | |
| 1 | 0.0/3.4 | SP-SM* | | | | | | | | | | | | | | | | | | | |
| 2 | 3.4/4.0 | SP* | | | | | | | | | | | | | | | | | | | |
| 3 | 6.0/6.5 | SM* | | | | | | | | | | | | | | | | | | | |
| *Lab visual classification based on gradation curve. No Atterberg limits. | | | | | | | | | | | | | | | | | | | | | |
| 3. Additional Laboratory Testing | | | | | | | | | | | | | | | | | | | | | |
| 1 Specific Gravity | | | | | | | | | | | | | | | | | | | | | |

