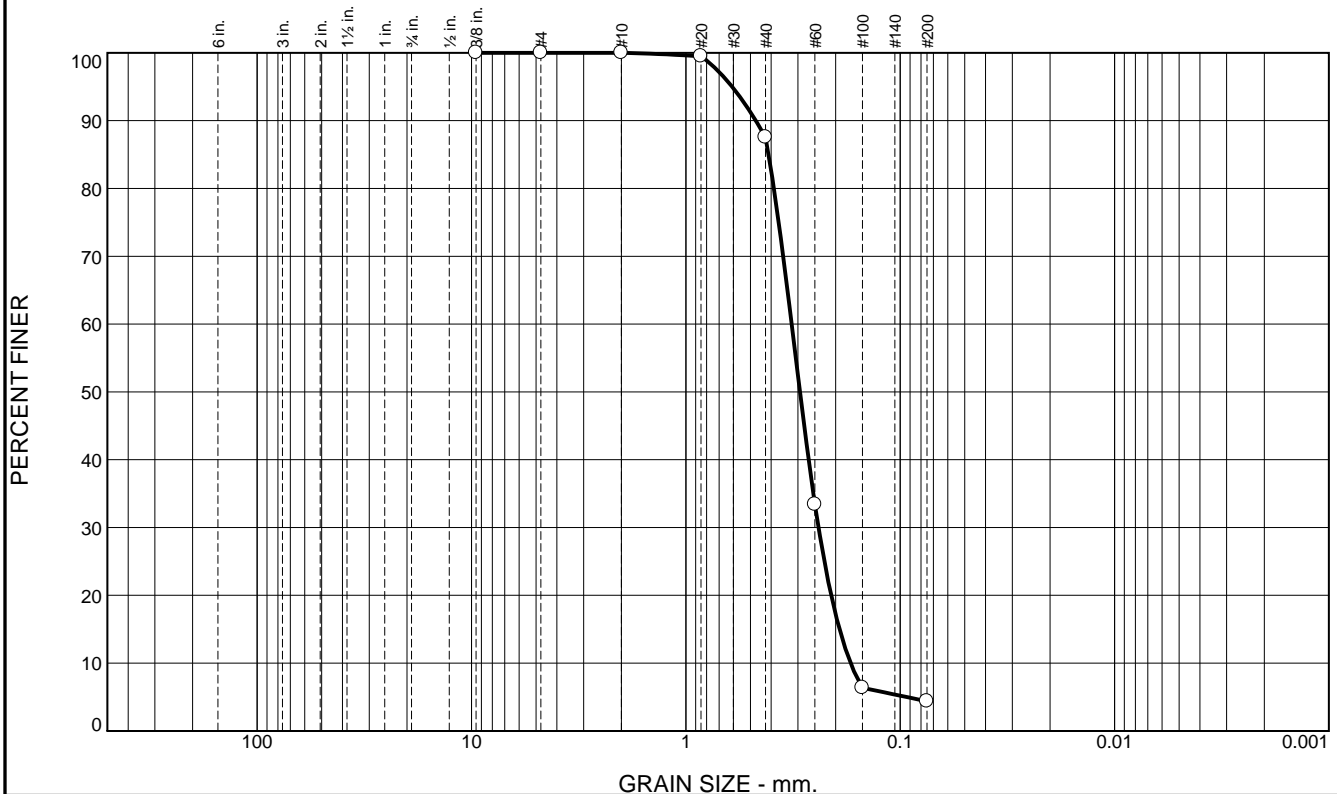


Particle Size Distribution Report



| % +3" | % Gravel | | % Sand | | | % Fines | |
|-------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| 0.0 | 0.0 | 0.0 | 0.0 | 12.5 | 83.1 | 4.4 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| .375 | 100.0 | | |
| #4 | 100.0 | | |
| #10 | 100.0 | | |
| #20 | 99.5 | | |
| #40 | 87.5 | | |
| #60 | 33.4 | | |
| #100 | 6.4 | | |
| #200 | 4.4 | | |

* (no specification provided)

| | | |
|------------------------------------|--------------------------------|--------------------------|
| <u>Material Description</u> | | |
| SAND (SP), medium to fine grained | | |
| | | |
| | | |
| PL= | <u>Atterberg Limits</u> | PI= |
| | LL= | |
| <u>Coefficients</u> | | |
| D ₉₀ = 0.4718 | D ₈₅ = 0.4113 | D ₆₀ = 0.3211 |
| D ₅₀ = 0.2937 | D ₃₀ = 0.2406 | D ₁₅ = 0.1919 |
| D ₁₀ = 0.1704 | C _u = 1.88 | C _c = 1.06 |
| <u>Classification</u> | | |
| USCS= SP | AASHTO= | |
| <u>Remarks</u> | | |

Location: USACE Sample # BI-PB-137D-11
Sample Number: TE Lab ID: 5054.123

Depth: 12.0 - 16.9 (ft)

Date: 7/18/11

Thompson Engineering

Mobile, Alabama

Client: US Army Corps of Engineers

Project: Contract No. W91278-10-D-0026 - Task 009
Mississippi Barrier Island Restoration Project

Project No: 11-2116-0057

Figure