| | **BORING B-11** | | | | | |
|---|---|---|---|---|---|---|
| **SIEVE SIZE** | **0-2.5'** | **2.5'-5'** | **5'-7.5'** | **7.5'-10'** | **10'-12.5'** | **12.5'-15'** |
| #10 | 100 | 100 | 100 | 100 | 100 | 98 |
| #20 | 100 | 100 | 100 | 100 | 99 | 97 |
| #40 | 100 | 100 | 99 | 100 | 99 | 95 |
| #60 | 99 | 100 | 99 | 99 | 98 | 93 |
| #70 | 98 | 99 | 99 | 99 | 97 | 89 |
| #80 | 98 | 98 | 98 | 97 | 93 | 80 |
| #100 | 55 | 69 | 53 | 58 | 57 | 47 |
| #120 | 21 | 29 | 17 | 25 | 26 | 20 |
| #140 | 7 | 12 | 8 | 10 | 11 | 9 |
| #200 | 1.8 | 4.4 | 3.2 | 2.9 | 3.4 | 2.9 |
| #230 | 1.6 | 3.8 | 2.9 | 2.6 | 3.0 | 2.5 |
| Color | 2.5Y 5/2 | 2.5Y 5/1 | 2.5Y 6/2 | 2.5Y 5/1 | 2.5Y 5/2 | 2.5Y 6/1 |
| Description | Gray Brown | Gray | Lt Brown Gray | Gray | Gray Brown | Gray |

| | **BORING B-12** | | | | |
|---|---|---|---|---|---|
| **SIEVE SIZE** | **0-2.5'** | **2.5'-5'** | **5'-7.5'** | **7.5'-10'** | **10'-12.5'** |
| #10 | 100 | 100 | 100 | 100 | 100 |
| #20 | 99 | 99 | 99 | 99 | 99 |
| #40 | 99 | 99 | 98 | 99 | 99 |
| #60 | 98 | 97 | 97 | 99 | 98 |
| #70 | 96 | 94 | 95 | 98 | 98 |
| #80 | 93 | 89 | 89 | 96 | 95 |
| #100 | 51 | 56 | 39 | 60 | 60 |
| #120 | 22 | 26 | 15 | 29 | 25 |
| #140 | 9 | 12 | 7 | 16 | 10 |
| #200 | 3.3 | 4.2 | 3.1 | 10.0 | 3.6 |
| #230 | 3.0 | 3.9 | 3.0 | 9.1 | 3.2 |
| Color | 2.5Y 5/1 | 2.5Y 5/2 | 2.5Y 6/2 | 2.5Y 5/2 | 2.5Y 5/1 |
| Description | Gray | Gray Brown | Lt Brown Gray | Gray Brown | Gray |

# LOG OF BORING B-12



Rock Engineering and Testing Laboratory, Inc.
4910 Neptune Street
Corpus Christi, Texas 78405
Telephone: (361) 883-4555
Fax: (361) 883-4711

CLIENT: Coast and Harbor Engineering, Inc.
PROJECT: Proposed San Luis Pass Project
LOCATION: W. Galveston Bay; Freeport, Texas
NUMBER: G106337

DATE(S) DRILLED: 5/18/06 - 5/18/06

DRILLING METHOD(S):
Disturbed Samples

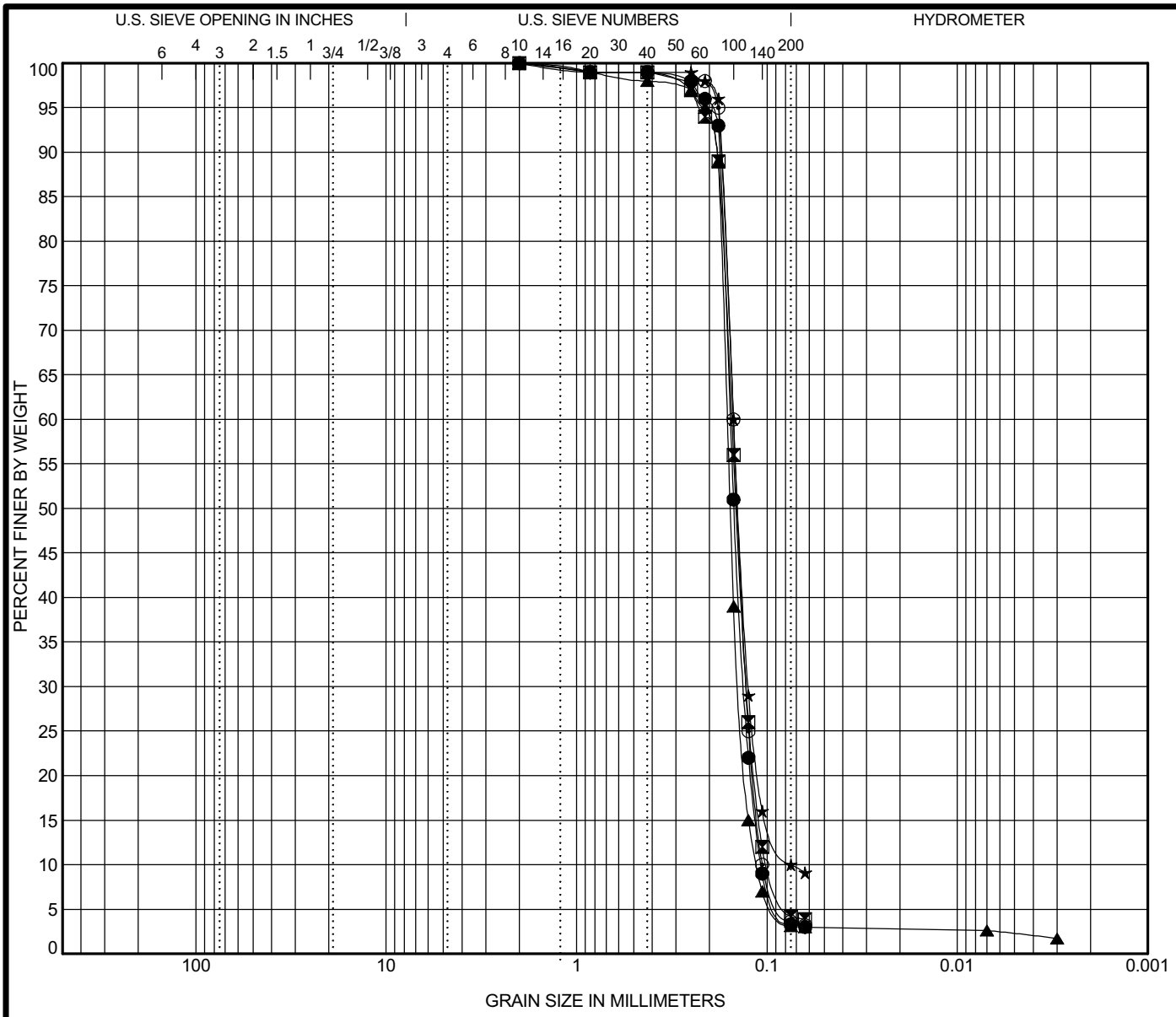
GROUNDWATER INFORMATION:
N/A

SURFACE ELEVATION: N/A

| SOIL SYMBOL | DEPTH (FT) | SAMPLE NUMBER | SAMPLES | N: BLOWS/FT P: TONS/SQ FT T: TONS/SQ FT PERCENT RECOVERY/ ROCK QUALITY DESIGNATION | MOISTURE CONTENT (%) | ATTERBERG LIMITS LIQUID LIMIT LL | ATTERBERG LIMITS PLASTIC LIMIT PL | ATTERBERG LIMITS PLASTICITY INDEX PI | DRY DENSITY POUNDS/CU.FT | COMPRESSIVE STRENGTH (TONS/SQ FT) | MINUS NO. 200 SIEVE (%) | DESCRIPTION OF STRATUM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | **WATER DEPTH= 1/2-FOOT** |
| | 1 | | | | | | | | | | | **POORLY GRADED SAND**, 2.5Y 5/1 gray. |
| | 2 | S-1 | | | | | | | | | 3 | |
| | 3 | S-2 | | | | | | | | | 4 | Same as above, 2.5Y 5/2 gray brown. |
| | 4 | | | | | | | | | | | |
| | 5 | | | | | | | | | | | Same as above, 2.5Y 6/2 light brown gray. |
| | 6 | S-3 | | | | | | | | | 3 | |
| | 7 | | | | | | | | | | | |
| | 8 | | | | | | | | | | | **POORLY GRADED SAND**, 2.5Y 5/2 gray brown. |
| | 9 | S-4 | | | | | | | | | 10 | |
| | 10 | | | | | | | | | | | Same as above, 2.5Y 5/1 gray. |
| | 11 | S-5 | | | | | | | | | 4 | |
| | 12 | | | | | | | | | | | |
| | | | | | | | | | | | | Boring terminated at a depth of 12.5' below the bay bottom. |

N - STANDARD PENETRATION TEST RESISTANCE
P - POCKET PENETROMETER RESISTANCE
T - POCKET TORVANE SHEAR STRENGTH

REMARKS:
Soil Sampling perfomred by RETL at N29 deg 05' 30.6" W95 deg 07' 35.5"




| COBBLES | GRAVEL | | SAND | | | SILT OR CLAY |
|---|---|---|---|---|---|---|
| | coarse | fine | coarse | medium | fine | |

| | Specimen Identification | | Classification | LL | PL | PI | Cc | Cu |
|---|---|---|---|---|---|---|---|---|
| ● | B-12 | 1.0 | POORLY GRADED SAND(SP) | | | | 1.03 | 1.45 |
| ⊠ | B-12 | 2.5 | POORLY GRADED SAND(SP) | | | | 1.10 | 1.58 |
| ▲ | B-12 | 5.0 | POORLY GRADED SAND(SP) | | | | 1.07 | 1.44 |
| ★ | B-12 | 7.5 | | | | | 1.41 | 2.00 |
| ⊙ | B-12 | 10.0 | POORLY GRADED SAND(SP) | | | | 1.04 | 1.42 |

| | Specimen Identification | | D100 | D60 | D30 | D10 | %Gravel | %Sand | %Silt | %Clay |
|---|---|---|---|---|---|---|---|---|---|---|
| ● | B-12 | 1.0 | 2 | 0.156 | 0.131 | 0.107 | 0.0 | 96.7 | 3.3 | |
| ⊠ | B-12 | 2.5 | 2 | 0.153 | 0.128 | 0.097 | 0.0 | 95.8 | 4.2 | |
| ▲ | B-12 | 5.0 | 2 | 0.162 | 0.14 | 0.113 | 0.0 | 96.9 | 3.1 | |
| ★ | B-12 | 7.5 | 2 | 0.15 | 0.126 | 0.075 | 0.0 | 90.0 | 10.0 | |
| ⊙ | B-12 | 10.0 | 2 | 0.15 | 0.128 | 0.106 | 0.0 | 96.4 | 3.6 | |

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# GRAIN SIZE DISTRIBUTION

Project: Proposed San Luis Pass Project

Location: W. Galveston Bay; Freeport, Texas

Number: G106337