

October 16, 2006  
 Attn.: Mr. Josh Carter  
 RETL Job No.: G106505

**PROPOSED SAN LUIS PASS PROJECT PHASE 2**  
 West Galveston Bay  
 Freeport, Texas

|             | BORING C10 |          | BORING C11             |          |                   |
|-------------|------------|----------|------------------------|----------|-------------------|
| SIEVE SIZE  | 2.5'-5'    | 7.5'-10' | 0-2.5'                 | 5'-7.5'  | 10'-12.5'         |
| #10         | 100        | 100      | 100                    | 100      | 99                |
| #20         | 100        | 100      | 100                    | 100      | 98                |
| #40         | 100        | 100      | 100                    | 100      | 98                |
| #60         | 100        | 100      | 99                     | 99       | 97                |
| #70         | 99         | 99       | 99                     | 98       | 96                |
| #80         | 98         | 98       | 97                     | 95       | 92                |
| #100        | 72         | 75       | 73                     | 70       | 61                |
| #120        | 36         | 43       | 37                     | 32       | 23                |
| #140        | 15         | 25       | 21                     | 17       | 12                |
| #200        | 3.5        | 9.4      | 8.5                    | 3.7      | 3.6               |
| #230        | 2.7        | 7.0      | 7.2                    | 2.8      | 3.2               |
| Color       | 2.5Y 2.5/1 | 2.5Y 5/1 | 2.5Y 3/2               | 2.5Y 5/1 | 2.5Y 5/3          |
| Description | Black      | Gray     | Vry. Dk.<br>Gray Brown | Gray     | Lt Olive<br>Brown |

|             | BORING C12 |               | BORING C13        |          |
|-------------|------------|---------------|-------------------|----------|
| SIEVE SIZE  | 2.5'-5'    | 7.5'-10'      | 0-2.5'            | 5'-7.5'  |
| #10         | 100        | 97            | 100               | 100      |
| #20         | 100        | 94            | 100               | 100      |
| #40         | 99         | 92            | 99                | 100      |
| #60         | 99         | 89            | 99                | 100      |
| #70         | 97         | 83            | 98                | 99       |
| #80         | 91         | 74            | 91                | 98       |
| #100        | 52         | 40            | 41                | 73       |
| #120        | 20         | 19            | 15                | 42       |
| #140        | 11         | 11            | 8                 | 26       |
| #200        | 4.6        | 4.2           | 3.9               | 11.7     |
| #230        | 4.2        | 3.9           | 3.5               | 9.3      |
| Color       | 2.5Y 4/1   | 2.5Y 5/2      | 2.5Y 3/1          | 2.5Y 4/1 |
| Description | Dk. Gray   | Gray<br>Brown | Vry. Drk.<br>Gray | Dk. Gray |

## LOG OF BORING C-12

SHEET 1 of 1



Rock Engineering & Testing Laboratory  
4910 Neptune Street  
Corpus Christi, TX 78405  
Telephone: 361-883-4555  
Fax: 361-883-4711

CLIENT: Coast and Harbor Engineering, Inc.  
PROJECT: Proposed San Luis Pass Project Phase 2  
LOCATION: W. Galveston Bay; Freeport, Texas  
NUMBER: G106505

DATE(S) DRILLED: 9/22/06 - 9/22/06

| FIELD DATA                                                                                                          |            |               |         |                                                                                                |                      |                  |               |                  |                             | LABORATORY DATA                         |                         |                                                                            |  |  | DRILLING METHOD(S): |
|---------------------------------------------------------------------------------------------------------------------|------------|---------------|---------|------------------------------------------------------------------------------------------------|----------------------|------------------|---------------|------------------|-----------------------------|-----------------------------------------|-------------------------|----------------------------------------------------------------------------|--|--|---------------------|
| SOIL SYMBOL                                                                                                         | DEPTH (FT) | SAMPLE NUMBER | SAMPLES | N: BLOWS/FT<br>P: TONS/SQ FT<br>T: TONS/SQ FT<br>PERCENT RECOVERY/<br>ROCK QUALITY DESIGNATION | MOISTURE CONTENT (%) | ATTERBERG LIMITS |               |                  | DRY DENSITY<br>POUNDS/CU.FT | COMPRESSIVE<br>STRENGTH<br>(TONS/SQ FT) | MINUS NO. 200 SIEVE (%) |                                                                            |  |  |                     |
|                                                                                                                     |            |               |         |                                                                                                |                      | LIQUID LIMIT     | PLASTIC LIMIT | PLASTICITY INDEX |                             |                                         |                         |                                                                            |  |  |                     |
|                                                                                                                     |            |               |         |                                                                                                |                      | LL               | PL            | PI               |                             |                                         |                         |                                                                            |  |  |                     |
|                                                                                                                     | 1          | UNDIS<br>S-1  |         |                                                                                                |                      |                  |               |                  |                             |                                         |                         |                                                                            |  |  |                     |
|                                                                                                                     | 2          |               |         |                                                                                                |                      |                  |               |                  |                             |                                         |                         |                                                                            |  |  |                     |
|                                                                                                                     | 3          |               |         |                                                                                                |                      |                  |               |                  |                             |                                         |                         |                                                                            |  |  |                     |
|                                                                                                                     | 4          | UNDIS<br>S-2  |         |                                                                                                |                      |                  |               |                  |                             |                                         | 5                       |                                                                            |  |  |                     |
|                                                                                                                     | 5          |               |         |                                                                                                |                      |                  |               |                  |                             |                                         |                         |                                                                            |  |  |                     |
|                                                                                                                     | 6          | UNDIS<br>S-3  |         |                                                                                                |                      |                  |               |                  |                             |                                         |                         |                                                                            |  |  |                     |
|                                                                                                                     | 7          |               |         |                                                                                                |                      |                  |               |                  |                             |                                         |                         |                                                                            |  |  |                     |
|                                                                                                                     | 8          |               |         |                                                                                                |                      |                  |               |                  |                             |                                         |                         |                                                                            |  |  |                     |
|                                                                                                                     | 9          | UNDIS<br>S-4  |         |                                                                                                |                      |                  |               |                  |                             |                                         | 4                       |                                                                            |  |  |                     |
|                                                                                                                     | 10         |               |         |                                                                                                |                      |                  |               |                  |                             |                                         |                         |                                                                            |  |  |                     |
|                                                                                                                     |            |               |         |                                                                                                |                      |                  |               |                  |                             |                                         |                         | Boring terminated at a depth of 10' below the bay bottom.                  |  |  |                     |
| N - STANDARD PENETRATION TEST RESISTANCE<br>P - POCKET PENETROMETER RESISTANCE<br>T - POCKET TORVANE SHEAR STRENGTH |            |               |         |                                                                                                |                      |                  |               |                  |                             |                                         |                         | REMARKS:<br>Soil Sampling performed by RETL at N29.1108 deg. W95.1296 deg. |  |  |                     |

Disturbed Samples

GROUNDWATER INFORMATION:  
Boring Performed in water approximately 2 to 3 feet in depth.

SURFACE ELEVATION: N/A

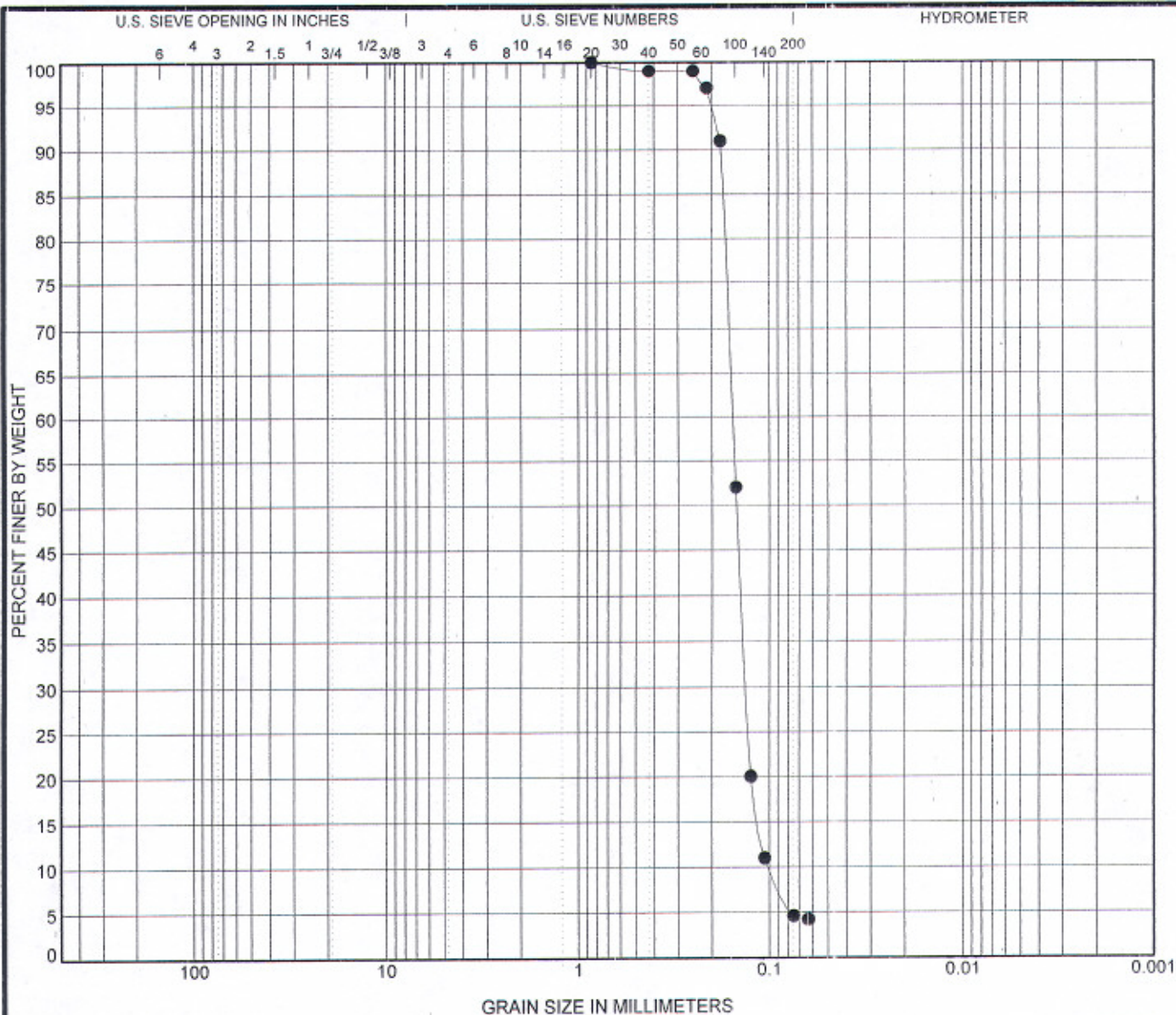
## DESCRIPTION OF STRATUM

POORLY GRADED SAND, 2.5Y 5/2 gray brown.

Same as above, 2.5Y 4/1 dark gray.

Same as above, 2.5Y 5/2 gray brown.

POORLY GRADED SAND, 2.5Y 5/2 gray brown.



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

| Specimen Identification | Classification         | LL | PL | PI | Cc   | Cu   |
|-------------------------|------------------------|----|----|----|------|------|
| ● C-12 2.5              | POORLY GRADED SAND(SP) |    |    |    | 1.12 | 1.55 |
|                         |                        |    |    |    |      |      |
|                         |                        |    |    |    |      |      |
|                         |                        |    |    |    |      |      |

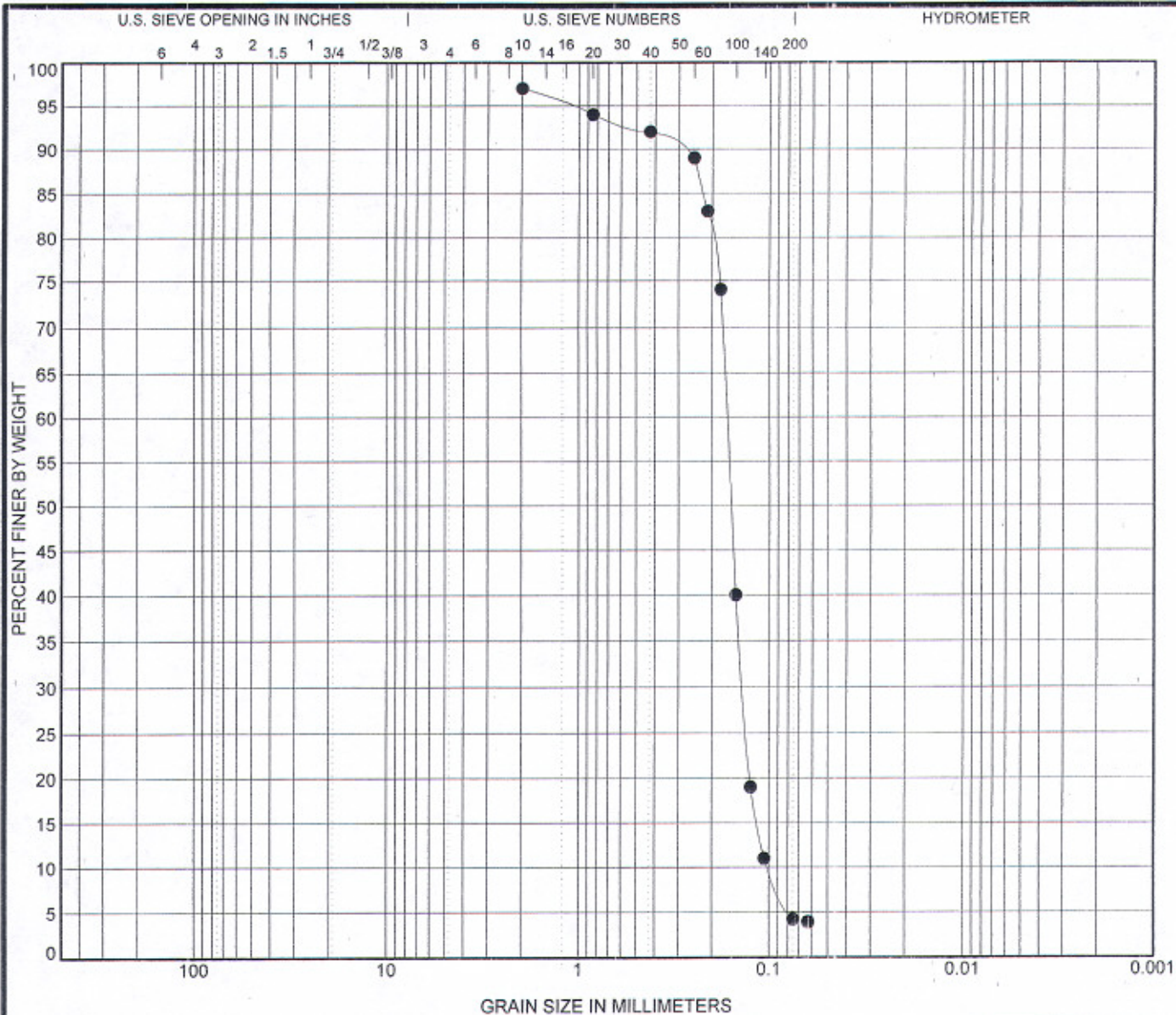
| Specimen Identification | D100 | D60   | D30   | D10 | %Gravel | %Sand | %Silt | %Clay |
|-------------------------|------|-------|-------|-----|---------|-------|-------|-------|
| ● C-12 2.5              | 0.85 | 0.156 | 0.132 | 0.1 | 0.0     | 95.4  | 4.6   |       |
|                         |      |       |       |     |         |       |       |       |
|                         |      |       |       |     |         |       |       |       |
|                         |      |       |       |     |         |       |       |       |

### GRAIN SIZE DISTRIBUTION

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

| Specimen Identification | Classification         | LL | PL | PI | Cc   | Cu   |
|-------------------------|------------------------|----|----|----|------|------|
| ● C-12 7.5              | POORLY GRADED SAND(SP) |    |    |    | 1.12 | 1.66 |
|                         |                        |    |    |    |      |      |
|                         |                        |    |    |    |      |      |
|                         |                        |    |    |    |      |      |

| Specimen Identification | D100 | D60   | D30   | D10   | %Gravel | %Sand | %Silt | %Clay |
|-------------------------|------|-------|-------|-------|---------|-------|-------|-------|
| ● C-12 7.5              | 2    | 0.167 | 0.138 | 0.101 | 0.0     | 92.8  | 4.2   |       |
|                         |      |       |       |       |         |       |       |       |
|                         |      |       |       |       |         |       |       |       |
|                         |      |       |       |       |         |       |       |       |

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