



## SUMMARY OF LABORATORY TESTS

Project No. 08.18.918

Client: United States Army Corps of Engineers

Project: Galveston Channel and Pelican Island PA

Contract No. DACW64-03-D-0008, Task Order No. 0077

| Boring No. | Sample No. | Depth (ft) | Soil Description                                           | USCS  | Water Content (%) | Dry Density (pcf) | Liquid Limit | Plastic Limit | Plast. Index | Finer than #200 Sieve (%) | Lab Vane (tsf) | Uc/UU. Compr. (tsf) | Failure Strain (%) | Conf. Pres. (psi) | Failure Type |
|------------|------------|------------|------------------------------------------------------------|-------|-------------------|-------------------|--------------|---------------|--------------|---------------------------|----------------|---------------------|--------------------|-------------------|--------------|
|            | 4          | 3-4        | Gray and brown FAT CLAY                                    | CH    | 52.7              |                   |              |               |              |                           |                |                     |                    |                   |              |
|            | 5          | 4-5        | Gray and brown FAT CLAY                                    | CH    |                   |                   |              |               |              |                           |                |                     |                    |                   |              |
|            | 6          | 5-6        | Gray and brown FAT CLAY                                    | CH    | 59.7              |                   | 100          | 30            | 70           | 94.8                      |                |                     |                    |                   |              |
| 07-171     |            |            |                                                            |       |                   |                   |              |               |              |                           |                |                     |                    |                   |              |
|            | 1          | 0-1        | Gray and brown FAT CLAY; organics                          | CH    |                   |                   |              |               |              |                           |                |                     |                    |                   |              |
|            | 2          | 1-2        | Gray and brown FAT CLAY with SAND                          | CH    | 65.6              |                   | 100          | 29            | 71           | 70.9                      |                |                     |                    |                   |              |
|            | 3          | 2-3        | Gray and brown FAT CLAY                                    | CH    |                   |                   |              |               |              |                           |                |                     |                    |                   |              |
|            | 4          | 3-4        | Gray and brown FAT CLAY                                    | CH    | 53.0              |                   | 72           | 25            | 47           | 94.2                      |                |                     |                    |                   |              |
|            | 5          | 4-5        | Gray and brown FAT CLAY; silt seams                        | CH    |                   |                   |              |               |              |                           |                |                     |                    |                   |              |
|            | 6          | 5-6        | Gray and brown FAT CLAY; silt seams                        | CH    | 48.4              |                   |              |               |              |                           |                |                     |                    |                   |              |
| 07-174     |            |            |                                                            |       |                   |                   |              |               |              |                           |                |                     |                    |                   |              |
|            | 1          | 0-1        | Gray FAT CLAY                                              | CH    |                   |                   |              |               |              |                           |                |                     |                    |                   |              |
|            | 2          | 1-2        | Gray FAT CLAY; organics                                    | CH    | 76.9              |                   | 103          | 30            | 73           | 96.3                      |                |                     |                    |                   |              |
|            | 3          | 2-3        | Gray and brown FAT CLAY                                    | CH    |                   |                   |              |               |              |                           |                |                     |                    |                   |              |
|            | 4          | 3-4        | Gray and brown FAT CLAY                                    | CH    | 60.3              |                   |              |               |              |                           |                |                     |                    |                   |              |
|            | 5          | 4-5        | Gray FAT CLAY                                              | CH    |                   |                   |              |               |              |                           |                |                     |                    |                   |              |
|            | 6          | 5-6        | Gray FAT CLAY                                              | CH    | 51.6              |                   | 102          | 31            | 71           | 96.1                      |                |                     |                    |                   |              |
| 07-175     |            |            |                                                            |       |                   |                   |              |               |              |                           |                |                     |                    |                   |              |
|            | 1          | 0-1        | Tan POORLY GRADED SAND with SILT; shells fragments         | SP-SM |                   |                   |              |               |              |                           |                |                     |                    |                   |              |
|            | 2          | 1-2        | Tan and gray POORLY GRADED SAND with SILT; shell fragments | SP-SM |                   |                   |              |               |              | 9.0                       |                |                     |                    |                   |              |
|            | 3          | 2-3        | Tan and gray POORLY GRADED SAND with SILT; shell fragments | SP-SM |                   |                   |              |               |              |                           |                |                     |                    |                   |              |
|            | 4          | 3-4        | Gray POORLY GRADED SAND with SILT; shell fragments         | SP-SM |                   |                   |              |               |              | 9.6                       |                |                     |                    |                   |              |
|            | 5          | 4-5        | Gray POORLY GRADED SAND with SILT; shell fragments         | SP-SM |                   |                   |              |               |              |                           |                |                     |                    |                   |              |
|            | 6          | 5-6        | Gray POORLY GRADED SAND; shell fragments                   | SP    |                   |                   |              |               |              | 3.8                       |                |                     |                    |                   |              |
| 07-176     |            |            |                                                            |       |                   |                   |              |               |              |                           |                |                     |                    |                   |              |
|            | 1          | 0-2        | Gray FAT CLAY; sand seams                                  | CH    |                   |                   |              |               |              |                           |                |                     |                    |                   |              |
|            | 2          | 2-4        | Gray FAT CLAY                                              | CH    | 50.3              |                   | 69           | 22            | 47           | 96.3                      |                |                     |                    |                   |              |
|            | 3          | 4-6        | Gray FAT CLAY                                              | CH    | 55.4              | 65.4              |              |               |              |                           |                |                     |                    |                   |              |
|            | 4          | 6-8        | Gray FAT CLAY                                              | CH    | 69.5              |                   | 115          | 28            | 87           | 99.7                      |                |                     |                    |                   |              |
|            | 4          | 8-10       | Tan and gray FAT CLAY; calcareous nodules                  | CH    | 42.8              | 85.3              |              |               |              |                           |                |                     |                    |                   |              |
|            | 5          | 10-12      | Tan and gray FAT CLAY                                      | CH    | 42.4              | 69.8              |              |               |              |                           |                |                     |                    |                   |              |
|            | 6          | 12-14      | Gray FAT CLAY; sand seams                                  | CH    | 80.8              | 49.8              | 120          | 32            | 88           | 87.8                      |                | 0.18                | 5.7                |                   | Slickensided |
|            | 7          | 14-15.5    | Tan SILTY SAND                                             | SM    |                   |                   |              |               |              | 31.8                      |                |                     |                    |                   |              |
|            | 8          | 19-20.5    | Gray SILTY SAND; shell fragments                           | SM    |                   |                   |              |               |              | 15.7                      |                |                     |                    |                   |              |
|            | 9          | 24-25.5    | Gray SILTY SAND; shell fragments                           | SM    |                   |                   |              |               |              | 18.3                      |                |                     |                    |                   |              |
|            | 10         | 29-30.5    | Gray SILTY SAND                                            | SM    |                   |                   |              |               |              | 35.7                      |                |                     |                    |                   |              |

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