MATAGORDA SHIP CHANNEL
POWERHORN LAKE TO INDIAN POINT

# TEST DATA SUMMARY



FEATURE Log of Soil Boring

| BORING NO. | SAMPLE NO. | DEPTH OR ELEV. OF SAMPLE | LABORATORY CLASSIFICATION | MECHANICAL ANALYSIS: GRAVEL % | SAND % | FINES % | $D_{10}$ | ATTERBERG LIMITS: LL | PI % | SPECIFIC GRAVITY G | NATURAL WATER CONTENT % | NATURAL DRY DENSITY LBS/CU FT | COMPACTION DATA: OPTIMUM WATER % | MAXIMUM DRY DENSITY LBS/CU FT | SHEAR DATA: INITIAL e | DRY DENSITY LBS/CU FT | $W_c$ % | $W_f$ % | $S_i$ % | TYPE TEST | SPECIMEN SIZE INCHES | TEST | $\sigma_{3c}$ T/SQ FT | $\sigma_1$ T/SQ FT | C T/SQ FT | Ø DEGREES | PERMEABILITY: e | K FT/MIN | CONSOLIDATION DATA: $P_o$ T/SQ FT | $P_c$ T/SQ FT | $C_c$ | $t_{50}$ * | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3ST- | 131 | 0.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | Water | | | | | | | | | | | | | | | | | | | |
| | | 12.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3905 | | SC | 0 | 53 | 47 | 0.0 | | 4.0 | | 31.4 | 93.0 | | Gray | Clayey Sand (SC) w/ Soft | | | | | | | | | | | | | | | | | | |
| | | 14.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3906 | | Same As 3905 | | | | 0.0 | | | | 31.9 | 90.6 | | Gray | Clayey Sand (SC) w/ Soft | | | | | | | | | | | | | | | | | | |
| | | 16.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3907 | | SM | 0 | 80 | 20 | 0.75 | | 0.0 | | 24.1 | 101.7 | | Gray | Silty Sand (SM) | | | | | | | | | | | | | | | | | | |
| | | 17.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ⇝ | | Same As 3908 | | | | | | | | | | | Driller's Classification | Same as Below | | | | | | | | | | | | | | | | | | |
| | | 20.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3908 | | Same As 3907 | | | | | | | | 19.9 | | | Gray | Silty Sand (SM) Dense | | | | | | | | | | | | | | | | | | 23/20.5-21.5 |
| | | 22.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ⇝ | | Same As 3908 | | | | | | | | | | | Driller's Classification | Same as Above | | | | | | | | | | | | | | | | | | |
| | | 25.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3909 | | CL | 0 | 36 | 64 | | 31.3 | 6.0 | | 35.7 | | | Brown | Sandy Clay (CL) | | | | | | | | | | | | | | | | | | 5/25.5-26.5 |
| | | 29.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3910 | | CL | 0 | 37 | 63 | 1.50 | 36.1 | 12.0 | | 21.2 | 108.8 | | O-Gray | Sandy Clay (CL) Stiff | | | | | | | | | | | | | | | | | | |
| | | 29.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3911 | | Same As 3910 | | | | 1.75 | | | | 18.4 | 111.3 | | O-Gray | Sandy Clay (CL) Stiff | | | | | | | | | | | | | | | | | | |
| | | 31.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3912 | | SC | 0 | 53 | 45 | 2.00 | | 7.0 | | 16.6 | 120.4 | | Gray to tan | Clayey Sand (SC) Stiff | | | | | | | | | | | | | | | | | | |
| | | 33.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3913 | | Same As 3912 | | | | 1.75 | | | | 17.5 | 113.9 | | Gray to tan | Clayey Sand (SC) Stiff | | | | | | | | | | | | | | | | | | |
| | | 35.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3914 | | Same As 3912 | | | | 2.5 | | | | 16.5 | 119.5 | | Gray to tan | Clayey Sand (SC) Stiff | | | | | | | | | | | | | | | | | | |
| | | 37.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ⇝ | | Same As 3913 | | | | | | | | | | | Driller's classification | | | | | | | | | | | | | | | | | | | |
| | | 39.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3915 | | SM | 4 | 77 | 19 | | | 0.0 | | 17.2 | | | Gray | Silty Sand (SM) | | | | | | | | | | | | | | | | | | |
| | | 41.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ⇝ | | Same As 3915 | | | | | | | | | | | Driller's Classification | | | | | | | | | | | | | | | | | | | |
| | | 43.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ⇝ | | Same As 3916 | | | | | | | | | | | Driller's Classification | | | | | | | | | | | | | | | | | | | |
| | | 45.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3916 | | SC | 0 | 54 | 46 | | | 7.0 | | 16.8 | | | Gray to tan | Clayey Sand (SC) | | | | | | | | | | | | | | | | | | 76/45.5-46.5 |
| | | 47.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Bottomed in above at 47.0' | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Water 12.0 feet deep | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Pt. Lavaca, Sta. 104+500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Tide at 1.9' at 12:45 PM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* Values at Pressure T/SQ FT

TX – Triaxial Compression
UC – Unconfined Compression

DS – Direct Shear
UU – Unconsolidated Undrained

CD – Consolidated Drained
CU – Consolidated Undrained

* Pocket Penetrometer ** BAR L. S.

MATAGORDA SHIP CHANNEL
BEACON #19 TO MATAGORDA
PENINSULA

# TEST DATA SUMMARY

Sheet 66 of ____

FEATURE Log of Soil Borings

| BORING NO. | SAMPLE NO. | DEPTH OR ELEV OF SAMPLE | LABORATORY CLASSIFICATION | MECHANICAL ANALYSIS: GRAVEL % | SAND % | FINES % | D50 MM | ATTERBERG LIMITS: LL | PI | SPECIFIC GRAVITY G | NATURAL WATER CONTENT % | NATURAL DRY DENSITY LBS/CU FT | COMPACTION DATA: OPTIMUM WATER % | MAXIMUM DRY DENSITY LBS/CU FT | SHEAR DATA: INITIAL e | DRY DENSITY LBS/CU FT | $W_i$ % | $W_f$ % | $S_i$ % | TYPE TEST | SPECIMEN SIZE INCHES | TEST | $\sigma_{III}$ T/SQ FT | $\sigma_I$ T/SQ FT | C T/SQ FT | Ø DEGREES | PERMEABILITY: e | K FT/MIN | CONSOLIDATION DATA: $P_o$ T/SQ FT | $P_c$ T/SQ FT | $C_c$ | $t_{50}$* | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BST 131 | 61- | 0.0 | = water | surface | (Lake) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 12.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5278 | | SC | 0 | 50 | 50 | 0.0 | 29.1 | 8.0 | | 11.9 | 104.1 | Gray, clayey sand (SC), v/soft | | | | | | | | | | | | | | | | | | | | |
| | | 14.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | SC | | | | | | | | (12) | | No Drillers classification, assumed same as above | | | | | | | | | | | | | | | | | | | | |
| | | 16.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5279 | | SM | 0 | 88 | 12 | 0.5 | | 0.0 | | 21.6 | 104.7 | Gray, silty sand (SM), ~~soft~~ | | | | | | | | | | | | | | | | | | | | |
| | | 18.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | SM | | | | | | | | (29) | | No Drillers classification, assumed same as above | | | | | | | | | | | | | | | | | | | | |
| | | 20.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5280 | | SM | 1 | 78 | 21 | | | 0.0 | | 37.2 | | Gray, silty sand (SM) | | | | | | | | | | | | | | | | | | | | |
| | | 22.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | SM | | | | | | | | | | No Drillers classification, assumed same as above | | | | | | | | | | | | | | | | | | | | |
| | | 25.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5281 | | ~~SC~~ CL | 0 | 41 | 59 | 0.0 | 31.4 | 8.0 | | 32.0 | 90.0 | Gray, sandy clay (~~SC~~ CL) v/soft | | | | | | | | | | | | | | | | | | | | |
| | | 27.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | ~~SC~~ CL | | | | | | | | (32) | | No Drillers classification, assumed same as above | | | | | | | | | | | | | | | | | | | | |
| | | 30.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5282 | | ~~SM~~ CL | 0 | 40 | 60 | 2.0 | 36.0 | 13.0 | | 20.0 | 109.8 | Gray, sandy clay (~~SM~~ CL), v/stiff | | | | | | | | | | | | | | | | | | | | |
| | | 32.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | ~~SM~~ CL | | | | | | | | (20) | | No Drillers classification, assumed same as above | | | | | | | | | | | | | | | | | | | | |
| | | 35.0 | | | 1-1-77 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5283 | | SM | 0 | 79 | 21 | 0.5 | | 2.0 | | 19.8 | 111.4 | Gray, silty sand (SM), medium dense | | | | | | | | | | | | | | | | | | | | |
| | | 37.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | SM | | | | | | | | (15) | | No Drillers classification, assumed same as above | | | | | | | | | | | | | | | | | | | | |
| | | 40.0 | | | 2-3-77 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5284 | | SM | 3 | 79 | 18 | 1.0 | | 0.0 | | 12.9 | 120.8 | Gray, silty sand (SM) Dense | | | | | | | | | | | | | Dense to V/Dense | | | | | | | |
| | | 42.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X | | SM | | | | | | | | | | No Drillers classification, assumed same as above | | | | | | | | | | | | | | | | | | | | |
| | | 45.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5285 | | SM | 2 | 73 | 25 | 2.5 | | 0.0 | | 13.1 | 120.8 | Gray, silty sand (SM), v/dense | | | | | | | | | | | | | | | | | | | | |
| | | 47.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Bottomed at a depth of 47.0 below water surface in Gray, silty sand (SM) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Boring Location: Sta 11+00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

* Values at Pressure T/SQ FT

TX - Triaxial Compression
UC - Unconfined Compression
DS - Direct Shear
UU - Unconsolidated Undrained
CD - Consolidated Drained
CU - Consolidated Undrained

ENG FORM 2088