U.S. ARMY CORPS OF ENGINEERS

BORING NO. 92-114 DATE: BEGIN 7-27-92 PAGE 1 / 1
JOB NO. 146548 COMPLETE 7-27-92 Thin Walled Tube
PROJECT DISPOSAL AREA #5 ☒ 3" ☐ 6"
LOCATION BROWNSVILLE SHIP CHANNEL
ELEVATION OF HOLE
MANUFACTURER'S DESIGNATION OF DRILL RIG C-1000 Marsh Buggy
GROUNDWATER: DEPTH 4.00 ft., ELEV. ft., at end of Drilling
WEATHER PARTLY CLOUDY & WINDY
DRILLER SCOTT GREGUREK LOGGER JOHN A. GENTRY

| DEPTH, FEET | SAMPLE | SAMPLE NO. | PEN./TORVANE SPT.-BLOW COUNT | COLOR | MATERIAL TYPE | CONSISTENCY | SECONDARY CONSTITUENTS | STRUCTURAL FEATURES AND COMMENTS |
|---|---|---|---|---|---|---|---|---|
| 0 | | 1 | 4.25 | BROWN | CLAY | HARD | | & GRAY 0-2 |
| | | | | | | | | -w Sa SM(S) 2'-4' |
| | | 2 | 3.25 | GRAY | CLAY | VERY STIFF | | & BROWN 2'-4 |
| 5 | | 3 | 1.25 | BROWN | CLAY | STIFF | | |
| | | 4 | 1.25 | GRAY | " | " | | & BROWN 6'-14 |
| | | 5 | 1.25 | " | CLAY | " | | |
| 10 | | 6 | 0.75 | " | " | MEDIUM STIFF | | |
| | | 7 | 1.0 | " | " | STIFF | | -w Sa LAYERS 12'-14 |
| 15 | | 8 | NA | GRAY | SAND | | CLAY | & BROWN w |
| | ▽ | 9 | S45 | GRAY | SAND | LOOSE | SILTY | & FINE |
| 20 | | 10 | 0.75 | GRAY | CLAY | MEDIUM STIFF | | |
| | | 11 | 0.75 | " | " | " | | |
| 25 | | 12 | 0.75 | " | " | " | | |
| | | 13 | 1.75 | BROWN | CLAY | STIFF | | & GRAY Below 26' |
| | | 14 | 2.5 | " | " | VERY STIFF | | |
| 30 | | | | | | | | |
| 35 | | | | | | | | |

Project : Disposal area site adjacent to the Brownsville Ship channel for the Brazos Island Harbor project near Brownsville, Texas
Contract No. DACW64-92-D-0001 Delivery order No. 0025

## SUMMARY OF LABORATORY TEST RESULTS

Boring No. 92-114

| S # | Depth (ft) | P P (tsf) | SPT Blows per Foot | Visual Classification | U S C | M c (%) | Dry Unit Wt (pcf) | Wet Unit Wt (pcf) | L L (%) | P L (%) | Mechanical Analysis % Passing | | | | | Torvane Shear Strength (tsf) | q u (tsf) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | #4 | #10 | #40 | #100 | #200 | | |
| 1 | 0-2 | 4.25 | | Brown,Clay,Hard,Sandy | CL | 22.1 | | | | | | | | | | | |
| 2 | 2-4 | 3.00 | | Gray,Clay,Very stiff,Sandy,w/sand seams& brown clay pockets | CL | 20.1 | | | | | | | | | | | |
| 3 | 4-6 | 1.75 | | Brown,Clay,Stiff,Sandy,w/sand seams | CL | 28.8 | 92.4 | 119.0 | 46 | 21 | | | | | | | |
| 4 | 6-8 | 0.75 | | Brown,Clay,Medium stiff,w/sand seams | CH | 31.0 | | | | | | | | | | | |
| 5 | 8-10 | 1.50 | | Brown,Clay,Stiff,w/sand seams | CH | 33.4 | | | | | | | | | | | |
| 6 | 10-12 | 1.25 | | Brown,Clay,Stiff,w/sand seams | CH | 22.6 | 101.6 | 124.6 | 54 | | | | | | | | |
| 7 | 12-14 | 2.00 | | Brown,Clay,Very stiff,w/sand seams&mica | CH | 32.7 | | | | | | | | | | | |
| 8 | 14-16 | | | Gray,Sand,Loose,Silty | S M | | | | | | | | | | | | |
| 9 | 16.5-18 | | 9 | Gray,Sand,Loose,Silty | S M | | | | | | 100.0 | 99.9 | 99.8 | 78.3 | 44.4 | | |
| 10 | 20-22 | 0.00 | | Gray,Clay,Very soft | CH | 42.2 | | | | | | | | | | | |
| 11 | 22-24 | 0.50 | | Gray,Clay,Medium stiff | CH | 32.9 | | | | | | | | | | | |
| 12 | 24-26 | 0.75 | | Olive gray,Clay,Medium stiff | CH | 35.3 | | | | | | | | | | | |
| 13 | 26-28 | 0.75 | | Brown,Clay,Medium stiff | CH | 39.2 | | | | | | | | | | | |
| 14 | 28-30 | 1.50 | | Brown,Clay,Stiff | CH | 38.4 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

S # : Sample Number, P P : Pocket Penetrometer Reading, U S C : Unified Soil Classification, M c : Moisture Content
q u : Unconfined Compressive Strength, W O H : Weight of hammer, W O P : Weight of pipe