

PRELIMINARY INVESTIGATIONS OF SUBMERGED AREAS

Delivery Order Number 023

Date 10/20/04

Project AN W Refuge

Location ID Number J-20

Tide Staff Readings:

Coordinates: X 2637104

Time

Reading

Y 13238957

Water Depth 3.1

Morning

Mid-Day

Evening

Pipe Length 10 - lbs

Push No. 1 Time 9:58

Weight of Pipe Penetration (WOP) 3.5

Comment shell

One-Hand Push (40-lb) Depth 3.6

Comments

One-Hand Push (70-lb) Depth 4.0

Comments shell 2" SA layer

Two-Hand Push to Refusal - Depth 4.5

Comments shell

Tiq 5.0 shell

Push No. 2 Time 10:06

Weight of Pipe Penetration (WOP) 3.1

Comment shell

One-Hand Push (40-lb) Depth 3.1

Comments

One-Hand Push (70-lb) Depth 3.5

Comments shell

Two-Hand Push to Refusal - Depth 5.1

Comments SA soft CL mix w/shell

Tiq 8.2

shell layers 5.1 to 5.5

5.5 to 8.2 SA CL

Hand Proving Ring Penetrometer Test? yes

Hand Vane Shear Test?

Technician (Probe Handler) mike A.

Recorder Gary L.

HAND CONE PENETRATION TEST (CPT)

Delivery Order Number 023
Project ANV Refuge

Date 16 20 04

Location ID Number J-20
Time 10:20

Weight of Proving Ring _____
Weight of Rod Section 13 / 65

Weight of Rod Penetration 3.1
Comments

Number of Rods 3

[illegible]

Comments shell w/ SA

Hand Cone Penetrometer Test and Analysis:

RTB 11/8/4

Project: Aransas National Wildlife Ref. - BUS Site "J"
Location: Dunham Bay located outside of Rockport, TX
Delivery Order #: 0023
Date of Testing: 10/20/04 to 10/22/04

Probing Results

Resistance	Depth1'	Depth2'	MLT1'	MLT2'	Average
Weight of Pipe	3.5	3.1	-1.0	-0.6	-0.8
1 HP (40lbs)	3.6	3.1	-1.1	-0.6	-0.9
1 HP (70lbs)	4	3.5	-1.5	-1.0	-1.3
2 Hand Refusal	4.5	5.1	-2.0	-2.6	-2.3

[illegible]

Depth Vs. Shear Strength

♦ J20

