

PRELIMINARY INVESTIGATIONS OF SUBMERGED AREAS

Delivery Order Number 023

Date 10/20/04

Project ANW Refuge

Location ID Number J-17

Tide Staff Readings:

Coordinates: X 2638289

Time

Reading

Y 13236950

Water Depth 2.5

Morning

Mid-Day

Evening

Pipe Length 10'-8 lbs

Push No. 1

Time 8:52

Weight of Pipe Penetration (WOP) 2.8

Comment

One-Hand Push (40-lb) Depth 2.8

Comments shell

One-Hand Push (70-lb) Depth 2.9

Comments shell

Two-Hand Push to Refusal - Depth 3.0 Comments shell

Tiq 4.5 shell, shell layers

Push No. 2

Time 9:08

Weight of Pipe Penetration (WOP) 2.6

Comment

One-Hand Push (40-lb) Depth 2.9

Comments shell

One-Hand Push (70-lb) Depth 4.0

Comments shell

Two-Hand Push to Refusal - Depth 4.1 Comments shell 4.1 to 5.0 shell layers

Tiq 7.8 soft CL with shell

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 ANW Refuge

Date 10/20/04

Location ID Number 5.17
Time 9:12

Weight of Proving Ring _____
Weight of Rod Section 1316s

Weight of Rod Penetration 2.5
Comments _____

Number of Rods 3[illegible]

Comments Shell c/L laysee w/ large shell

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	2.8	2.6	-0.4	-0.2	-0.3
1 HP (40lbs)	2.8	2.9	-0.4	-0.5	-0.5
1 HP (70lbs)	2.9	4.0	-0.5	-1.6	-1.1
2 Hand Refusal	3	4.1	-0.6	-1.7	-1.2

[illegible]

Depth Vs. Shear Strength

♦ J17

