

PRELIMINARY INVESTIGATIONS OF SUBMERGED AREAS

Delivery Order Number 023
Project ANW Refuge

Date 10/20/04

Location ID Number J-25

Coordinates: X 2635405

Y 13234105

Water Depth 4.0

Pipe Length 10 - 8 lbs

Tide Staff Readings:

Time Reading

Morning _____

Mid-Day _____

Evening _____

Push No. 1 Time 11:53

Weight of Pipe Penetration (WOP) 6.2

One-Hand Push (40-lb) Depth 6.8

Comment soft CL

Comments 11 " SA @ Bottom

One-Hand Push (70-lb) Depth 7.0

Comments SA

Two-Hand Push to Refusal - Depth 8.5

Tig 9.5 SA CL

small SA layers

Comments soft CL SA @ Bottom

1.0 to 8.5 soft SA layers

Push No. 2 Time 12:04

Weight of Pipe Penetration (WOP) 6.0

One-Hand Push (40-lb) Depth 6.0

Comment SA

Comments SA

One-Hand Push (70-lb) Depth 6.0

Comments SA

6.0 to 4.2 SA layer

Two-Hand Push to Refusal - Depth 8.5

Tig 9.0

8.5 - 9.0 SA CL

Comments 6.2 to 8.5 soft CL

Hand Proving Ring Penetrometer Test? yes

Hand Vane Shear Test? _____

Technician (Probe Handler) Mike A.

Recorder GARY L.

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	6.2	6.0	-3.8	-3.6	-3.7
1 HP (40lbs)	6.8	6.0	-4.4	-3.6	-4.0
1 HP (70lbs)	7	6.0	-4.6	-3.6	-4.1
2 Hand Refusal	8.5	8.5	-6.1	-6.1	-6.1

[illegible]

Depth Vs. Shear Strength

♦ J25

