

PRELIMINARY INVESTIGATIONS OF SUBMERGED AREAS

Delivery Order Number 023
Project ANW Refuge

Date 10/21/04

Location ID Number J-11
Coordinates: X 2637569

Tide Staff Readings:
Time Reading

Y 13234997
Water Depth 2.4
Pipe Length 15 13/65

Morning _____
Mid-Day _____
Evening _____

Push No. 1 Time 12:02

Weight of Pipe Penetration (WOP) 2.9 Comment SA

One-Hand Push (40-lb) Depth 3.0 Comments SA

1" SA Layer

One-Hand Push (70-lb) Depth 5.9 Comments soft + CL

Two-Hand Push to Refusal - Depth 6.5 Comments 5.9 to 6.4 soft + CL

Fig 7.5 SA CL shell 6.4 to 6.5 SA shell
on Bottom

Push No. 2 Time 12:10

Weight of Pipe Penetration (WOP) 4.4 Comment SA CL

One-Hand Push (40-lb) Depth 5.6 Comments SA CL

One-Hand Push (70-lb) Depth 6.0 Comments SA

Two-Hand Push to Refusal - Depth 8.5 Comments SA CL shell on Bottom

Fig 8.5

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	2.9	4.4	-0.9	-2.4	-1.7
1 HP (40lbs)	3	5.6	-1.0	-3.6	-2.3
1 HP (70lbs)	5.9	6.0	-3.9	-4.0	-4.0
2 Hand Refusal	6.5	7.5	-4.5	-5.5	-5.0

[illegible]

Depth Vs. Shear Strength

♦ J11

