

PRELIMINARY INVESTIGATIONS OF SUBMERGED AREAS

Delivery Order Number 024

Date 11/11/04

Project Alamogordo Wildlife Refuge

Location ID Number J-31

Tide Staff Readings:

Coordinates: X 2633276

Time Reading

Y 13232269

Morning

Water Depth 3.1

Mid-Day

Pipe Length 15

Evening

Push No. 1

Time 8:27

Weight of Pipe Penetration (WOP) 3.4

Comment SA shell frag

One-Hand Push (40-lb) Depth 3.9

Comments

One-Hand Push (70-lb) Depth 4.3

Comments SA shell frag

Two-Hand Push to Refusal - Depth 5.1

Comments

Jig 5.7 shell

SA CL shell frag.

Push No. 2

Time 8:43

Weight of Pipe Penetration (WOP) 3.3

Comment SA

One-Hand Push (40-lb) Depth 3.7

Comments

One-Hand Push (70-lb) Depth 4.5

Comments SA shell frag.

Two-Hand Push to Refusal - Depth 4.9

Comments

Jig 5.3 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 024
Project Aegion Wildlife Refuge

Date 11/11/04

Location ID Number J-31
Time 8:54

Weight of Proving Ring _____
Weight of Rod Section _____

Weight of Rod Penetration 3.6
Comments:

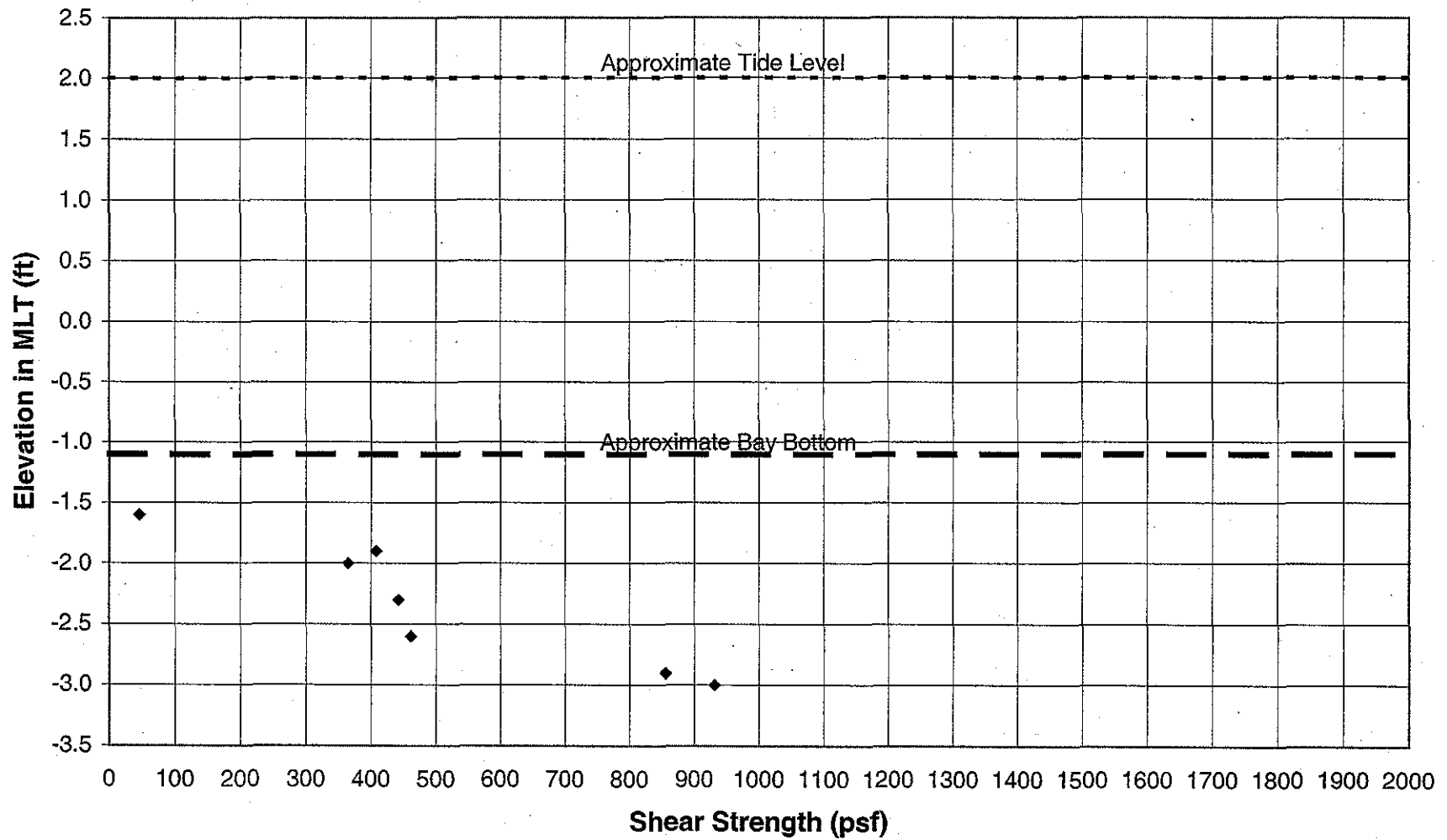
Number of Rods 4

[illegible][illegible]

Comments _____

Depth Vs. Shear Strength

♦ J31



Hand Cone Penetrometer Test and Analysis:

RTB 12/07/04

Project: Aransas National Wildlife Ref. - BUS Site "J"
Location: Dunham Bay located outside of Rockport, TX
Delivery Order #: 0024
Date of Testing: 11/10/04 - 11/11/04

Probing Results

Resistance	Depth 1	Depth 1	MLT1'	MLT2'	Average
Weight of Pipe	3.4	3.3	-1.4	-1.3	-1.4
1 HP (40lbs)	3.9	3.7	-1.9	-1.7	-1.8
1 HP (70lbs)	4.3	4.5	-2.3	-2.5	-2.4
2 Hand Refusal	5.1	4.9	-3.1	-2.9	-3.0

[illegible]