

**PRELIMINARY INVESTIGATIONS OF SUBMERGED AREAS**

Delivery Order Number 023 Date 10/21/02  
Project A N W Refuge

Location ID Number J-6 Tide Staff Readings:  
Coordinates: X 2636032 Time Reading  
Y 13233024  
Water Depth 3.0 Morning \_\_\_\_\_  
Pipe Length 15 13/16 Mid-Day \_\_\_\_\_  
Evening \_\_\_\_\_

**Push No. 1** Time 9:58  
Weight of Pipe Penetration (WOP) 4.3 Comment SOE+CL  
One-Hand Push (40-lb) Depth 5.3 Comments SOE+CL

One-Hand Push (70-lb) Depth 5.8 Comments SA CL

Two-Hand Push to Refusal - Depth 6.6 Comments SA & Shell  
Fig 7.5 SA & Shell

**Push No. 2** Time 10:17  
Weight of Pipe Penetration (WOP) 4.0 Comment \_\_\_\_\_  
One-Hand Push (40-lb) Depth 5.8 Comments CL

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

Two-Hand Push to Refusal - Depth 6.3 Comments SA & Shell  
Fig 9.0 SA & Shell 6.3 to 7.0  
7.0 to 9.0 Shell

Hand Proving Ring Penetrometer Test? yes  
Hand Vane Shear Test? \_\_\_\_\_

Technician (Probe Handler) mike A Recorder Gary L.





### Depth Vs. Shear Strength

◆ J6

