

# BORING LOG



**FROEHLING & ROBERTSON, INC.**  
 FULL SERVICE LABORATORIES • ENGINEERS & CHEMISTS  
 "OVER ONE HUNDRED YEARS OF SERVICE"

Report No. **Q-73-329** *PC 33-69* DATE **November 9, 1989**

Client: **Allied Terminals** *4276735.65 4146112.88*

Project: **Allied Terminal Expansion - Seaford, Delaware**

Boring No.: **B-3** Total Depth: **36.5-ft** Elevation: **INA** Location: **Upper Terminal**

Type of Boring: **Hollow Stem** Started: **10-25-89** Completed: **10-25-89** Driller: **J Burch**

Elevation	Depth	DESCRIPTION OF MATERIALS (Classification)	Sample Blows	Sample Depth (Feet)	% Core Recovery	REMARKS
	0.0					<p><u>GROUNDWATER DATA</u></p> <p>Test boring caved-in to 3-3/4-ft upon completion. Boring dry to this depth.</p> <p>Approximately 3-inches of organic bearing soils at surface</p> <p>Test boring located in the field by F &amp; R .</p> <p>* clayey SILT with some fine sand</p>
		Dark brown to brown, moist, med. dense to loose, fine SAND with a little silt and trace organic material to 1-1/2-ft (SM)	2 5-6	1.5		
			3 3-3	3.5		
4.5		Brown to light brown, wet, very loose to loose, fine to coarse SAND with a trace silt and fine gravel (SP)	2 1-1	6.5		
			4 3-3	10.0		
13.0		Light brown to light gray, wet, med. stiff, silty CLAY, with a little fine sand (CH)	8 5-5	15.0		
16.5		Light gray, wet, dense, clayey, fine SAND with a trace silt (SC)	8 24-16	20.0		
21.0		Dark gray, wet, med. dense, fine SAND and SILT with a trace clay and organic material (SM)	6 7-7	25.0		
26.0		Dark gray, wet, loose, fine SAND with a little silt and trace organic material (SM)	4 3-3	30.0		
30.0		Orange to light brown, wet, dense, fine SAND with a little silt (SM)	19 21-24	35.0		
35.0		Orange to dark gray, wet, stiff,*	7 6-7	36.5		
36.5		Boring terminated at 36.5-feet				

of blows req'd. for a 140 lb. hammer dropping 30 in. to drive 2 in O.D., 1.375 in. I.D. sampler a total of 18 inches in three 6 increments. The sum of the last two increments of penetration is termed the standard penetration resistance, N.

Scale 1"=5' unless otherwise noted