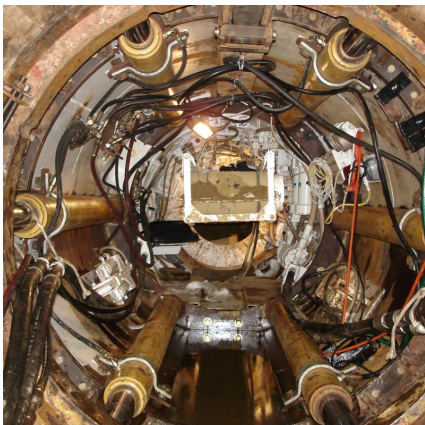


## International Paper Company Effluent Pipeline Cantonment, FL



### PROJECT OVERVIEW AND CHALLENGES

Bradshaw Construction installed 1,150' of 75' O.D. Rib and Board Tunnel, as well as 48"• DIP Carrier pipe to be utilized as an effluent pipeline. Bradshaw Construction worked through severe weather conditions which caused shaft movement and water intrusion. In addition, the work was completed within a residential zone. Bradshaw worked closely with the General Contractor and local residents to be sure all parties were happy with our tunnel progress, paying special attention to the crossing of gas utility lines. The tunnel alignment was revised by Bradshaw within the last 200 feet, allowing for a successful tie-in to previously installed open-cut pipe.



### PROJECT INFORMATION - 497

**OWNER:**

International Paper  
850-968-2121

**ENGINEER:**

Jacobs Engineering  
Robert Leacock  
864-676-5456

**CONTRACTOR:**

Garney Companies, Inc.

**COMPLETION DATE:**

6/8/2011

**GEOLOGY:**

Clay & Sandy Silts

**EXCAVATION METHOD:**

Akkerman Excavator Shield &  
Wheeled WM-60C TBM

**MINING DIMENSIONS:**

1150' x 75" Rib & Board TBM Ø

**FINAL LINING:**

48" Ductile Iron Pipe

**FOR MORE INFORMATION:**

Eric Eisold, Vice President  
410-970-8300  
eeisold@bradshawcc.com  
Refer to Project 497