



PILE JACKETS

Location:

Edwards & Kelcey, Inc.
Morristown, NJ

Project:

Pile Inspection & Repair
PSE&G Line, D & R Canal

Description:

W.J. Castle, P.E. & Associates, P.C. was retained by the engineering company Edwards & Kelcey located in Morristown, New Jersey to perform an in-depth underwater inspection and evaluation of three steel H-piles supporting an active PSE&G gas line over the D&R Canal in South Boundbrook, New Jersey. After the inspection was complete, CASTLE provided detailed drawings with recommended repairs.

Upon completion of design and details, **Hydro-Marine Construction Co., Inc.** was retained to perform the actual repairs which included the following:

- High-pressure water blasting of all deteriorated steel above and below water.
- The pile sections were then rebuilt using pre-fabricated steel sections that were bolted through both the web and flange areas above and below the severely deteriorated pile sections. (Welding was not permitted due to the active gas line.)
- Upon completion of these repairs, the entire 6 foot rebuilt section of each pile was then encased in a specially designed Fox Form Fiberglass jacket.

Underwater epoxy grout was then pumped into each section which essentially encased and protected the repaired pilings. The repair work was performed over an eight day period in August 2004.



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Hydro-Marine Construction
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