

 **Case Study ▶**

## 72 Hours Of Work: Major Corrosive Attack Countered.

When Blue Heron Corporation discovered exposed rebar on their concrete wastewater clarifier, LifeLast responded ASAP. After a good coating of LifeLast DuraShield polyurethane, even the toughest chemicals were ably contained. Inspections years later showed that the entire clarifier was 100% intact, corrosion-free.

### Case Study: Paper Mill Wastewater Treatment Clarifier

In 1996 Blue Heron Corporation's Newsprint Mill in Oregon City, Oregon, had an opportunity to perform a close inspection of their wastewater treatment clarifier. Upon inspection they discovered the concrete structures of their clarifier, particularly the walls, were experiencing extensive corrosive attack. The corrosion was so extreme that rebar was exposed in areas and the



Wastewater Treatment Clarifier  
Coated with DuraShield 310



Blue Heron Paper Mill

aggregate was protruding as much as 1/2" in spots. They needed something to eliminate the corrosive attack caused by the hydrosulfurous acid, sulfuric acid and hydrogen sulfide gas present in the system.

### The Nitty Gritty

**Project:** Clarifier Lining at Blue Heron Paper

**Scope:** Lining of Wastewater Clarifier with 125 mils of DuraShield 310.

**Owner:** Blue Heron Corporation (formally Jefferson Smurfit)

**Completion Date:** 1996

## Case Study: Paper Mill Wastewater Treatment Clarifier

Blue Heron turned to LifeLast DuraShield polyurethane coatings to solve the problem. LifeLast DuraShield's extremely low permeability, excellent chemical resistance, great flexibility, high build characteristics, quick turnaround and proven performance made it the natural choice as the solution.



Wastewater Treatment Clarifier Empty During 5 Year Inspection of DuraShield 310 Coating

The concrete walls and steel center fill structure were sandblasted and lined with 125 mils and 60 mils of LifeLast DuraShield polyurethane respectively. The work was completed in less than 72 hours. In August 2001 the clarifier was thoroughly inspected and Blue Heron (originally Jefferson Smurfit) found no disbondment or loss of coating throughout the structure. All 10,000 square feet was 100% intact.



Clarifier Fill Tube 5 Year Inspection

effective, proven solution to corrosion challenges. We are honored to be a partner in the long-term remedy for this particular clarifier and all of the projects on which we have supplied DuraShield polyurethanes.

Questions or technical assistance on your specification or project? Contact us; we're happy to help. Email us at [info@LifeLast.com](mailto:info@LifeLast.com) or call (512) 628-2112.

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