



## Customer:

An Oriented Strand Board (OSB) manufacturer located in the Northeast United States incurring high maintenance costs and lost production time

## Project:

Implement CleanWESP™ wastewater treatment program to reduce Total Suspended Solids (TSS). Provide total water management program to assist in extending the longevity and performance of process equipment

## Highlights:

- Poorly maintained water quality costs facility millions of dollars due to Corrosion damage of process equipment
- Significant production downtime occurring as a result of process equipment failures
- ProChem Inc. chemical treatment and water management program provides better performance from emissions control equipment, stable production schedules, and protection of capital investments

## Reduce Downtime and Extend Capital Equipment Life with Well Designed Water Treatment Program

### THE CLIENT'S CHALLENGE

Although the facility was treating a significant portion of their wastewater, it was still incurring high maintenance costs and unexpected periods of downtime for repairs from corrosion damage to capital equipment:

- Heat exchanger was unrepairable due to corrosion
- Piping in the facility was failing due to corrosion which was impacting production due to unexpected downtime
- Significant damage incurred to the emission control systems
- Reduced knife life for flaking
- Significantly reduced pump and equipment life

Poorly maintained water quality was leading to serious corrosion of capital equipment for a significant loss, additionally solids management was not optimized for the prevention of erosion in the plant equipment.

### THE PROCHEM SOLUTION

After analysis of the wastewater, ProChem designed a chemical treatment process and water profile for the facility using the CleanWESP™ platform. This chemical treatment process optimizes the removal of solids from the water to prevent erosion of capital equipment. ProChem Inc.'s Total Water Management services allows the plant to greatly reduce corrosion and stop unexpected downtime from leaks. Moreover, the **CleanWESP™** platform allows for tracking process changes throughout the plant and evaluation of their impact on the water and emission control equipment.

### THE WIN

- This program allowed the facility to control damage incurred to capital equipment from corrosion and erosion and stop having unexpected downtime in production.
- Found alternatives to landfilling filter cake from treatment process
- Helped optimize emission control equipment with a water profile
- Eliminated corrosion from poorly maintained water quality
- Eliminated erosion from sub optimal solids management
- Reduced costs for running the existing chemical treatment system

