



Paper Mill - Bleach Plant - August 1, 2011

Location:	<i>Boise Paper Mill Walla, Washington - USA</i>	Date of First Inspection:	<i>July 18, 2011</i>
Application:	<i>Inlet to E1 shower unit</i>	Date of Second Inspection:	<i>October 11, 2011 (not required)</i>
Purpose of Installation:	<i>Decrease new limescale accumulation inside pipes and nozzles of E1 unit</i>		
Installation Date:	<i>May 4, 2011</i>		

Installation Details

Model of Water conditioner	Custom C8"
Pipe Diameter (OD)	8.625"
Pipe Material	Metal
Installation location (before/after pump)	Bleach Plant Mezzanine Floor - 30' before the E1 unit

Overview

1. General

The bleach plant has multiple shower units which suffer from severe limescale accumulation. Shower nozzles need to either be hydro-blasted or replaced periodically.

2. Trial method

The trial will start with clean or new nozzles with zero limescale buildup. Shower units to be examined after 11 weeks - the treated E1 unit will be compared to the untreated D1 unit. If needed, a third inspection will take place on October 11, 2011.

3. Expected results

New scale deposits in the E1 unit to be less labor intensive to clean.

Pictures of application



Untreated D1 unit



Treated E1 unit

Installation point



30' before the E1 shower nozzles



Scope reading of 33~37 peak-to-peak voltage

Comparison pictures



Untreated D1 unit



Treated E1 unit



Untreated D1 nozzle – close up



Treated E1 nozzle – close up



Untreated D1 nozzle – 30' down the line



Treated E1 nozzle – 30' down the line

Results

The D1/E1 comparison pictures speak for themselves...

Conclusion

Hydropath Technology can be recommended as a chemical-free method of treating limescale related problems at a paper mill bleach plant.