

Why Your Lumber Mill Pays More for Water Than It Should — and How to Fix It

Your log pond, green chain washdown, and kiln systems all draw from the same municipal supply — but your meter counts more than actually flows. **Log pond fill cycles, washdown bursts, and kiln makeup water draws create the conditions for air, gas, and turbulence to form in the line at your meter — and you're billed for all of it.** The FCD (Flow Conditioning Device) corrects the measurement. Your mill operations don't change. Your water bill drops — and so does your sewer bill, because sewer charges are calculated from the same inflated meter reading. One device. Two bills fixed.

WHY LUMBER MILL & WOOD PRODUCTS METERS OVER-READ

The Core Problem: Log Pond Cycling, Green Chain Washdown & Kiln Systems Create Continuous Air Entrainment Events at Your Supply Meter

Municipal water meters measure total volume passing through — water and entrained air combined. Every log pond fill cycle, every green chain washdown burst, every kiln makeup water draw, and every dust suppression switch-on creates a rapid high-volume demand change that introduces air, gas, and turbulence into the supply line. That registers as water volume. You pay for it on every bill, every month, across every system running simultaneously in your facility.

THE THREE OVER-READING SOURCES UNIQUE TO WOOD PRODUCTS FACILITIES



Log Pond Fill & Cycling

High-volume pond fill events and log transport cycling drive large, rapid demand draws — creating the conditions for air, gas, and turbulence at the supply meter on every cycle, every shift.



Green Chain Washdown Bursts

Repeated high-pressure washdown bursts throughout each production shift create the strongest per-event meter over-reads in the facility — compounding across every shift into measurable over-billing every billing cycle.



Kiln Makeup & Dust Suppression

Kiln condensate makeup draws and dust suppression systems switching on and off in response to particulate sensors create repeated start-stop demand cycles — adding a third compounding over-reading source running throughout every production day.



The Sewer Bill Doubles the Impact — Even for Water That Never Entered a Drain

Municipal sewer charges are calculated as a percentage of metered water consumption. Every phantom gallon your meter over-registers generates a sewer charge alongside the water charge — even though that volume was never actually delivered. At a lumber mill with log pond, washdown, and kiln systems all contributing to over-reading simultaneously, the sewer multiplier compounds the cost of every over-read event across every billing cycle. The FCD corrects the water meter reading, which automatically corrects the sewer charge on the same bill.

BEFORE & AFTER THE FCD

WITHOUT FCD

- ✗ Air, gas & turbulence billed as water volume
- ✗ Log pond fill events inflate meter every cycle
- ✗ Green chain washdown bursts compound over-billing
- ✗ Sewer charge tied to inflated meter reading
- ✗ Problem persists even after meter replacement

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WITH FCD INSTALLED

- ✓ Metered volume reflects water actually delivered
- ✓ Log pond events read accurately
- ✓ Washdown bursts measured correctly
- ✓ Sewer charge based on real water consumption
- ✓ Mill operations, pressure & output unchanged

5–30%

Average water & sewer bill reduction

46%

Highest documented single-site reduction

~1 Hour

Install time — water off about 1 hour

6-Mo

Money-back, no questions asked · install non-refundable

How the FCD Works — Four Steps

1

Installs between two pipe joints right after your water meter — water off about one hour

2

Creates a slight back-pressure that extends back through the meter, reducing air, gas, and turbulence

3

Delivers a laminar-like flow profile through the meter — the condition it was calibrated to read

4

Meter reads accurately. Bill drops. Log pond, washdown, kiln, and dust suppression systems are effectively unchanged.