

Greg Ulman

From: Mark Mackey
Sent: Friday, February 28, 2025 8:23 AM
To: Emily Nurmi; Brian Marquardt; Zach Gilmaster; Joe Kafczynski; Greg Ulman; Elbert JOHNSON; Nina HALVERSON
Cc: Dan Moore; Brandon Mancilla
Subject: RE: [External] Kronenwetter treatment plant backwash

All

Just an update. The guys ran the backwash sequence this past Wednesday for the 3rd time (I was out of state for a funeral for the past week). The guys encountered the same alarm with the pressure differential gauge, so we will need to get that taken care of. The backwash effluent valve did automatically open this time for cell 3. However, the guys reported that there was a " Filtered water effluent flow loss of signal" alarm at the end of the backwash cycle.

Another issue that the guys noticed this past week is that the post treatment manganese levels are way higher than they should be. I've had them test daily for the past week, and the results are just below 0.100 mg/l on average. I've ran them myself and received similar results. We are not sure if perhaps drawing water from the distribution system would be causing the increased levels of manganese. We are planning on bumping up the potassium permanganate and chlorine a bit to see if that helps.

Mark Mackey
Operator – Kronenwetter Water Utility
(715)574-3868
mmackey@kronenwetter.org

From: Mark Mackey
Sent: Wednesday, February 19, 2025 11:14 AM
To: Emily Nurmi <Emily@williamreidltd.com>; Brian Marquardt <marquardtb@rohdebros.com>; Zach Gilmaster <zach@elliswi.com>; Joe Kafczynski <jkafczynski@becherhoppe.com>; Greg Ulman <gulman@kronenwetter.org>; Elbert JOHNSON <e.johnson@kurita-water.com>; Nina HALVERSON <n.halverson@kurita-water.com>
Cc: Dan Moore <moored@rohdebros.com>; Brandon Mancilla <Brandon@williamreidltd.com>
Subject: RE: [External] Kronenwetter treatment plant backwash

All,

We just completed our second "solo" backwash this morning (2-19-25). Again, during the Restoration stage of the backwash, we received a "Pressure Differential" alarm when water from the distribution system was flushing the cell (currently being backwashed) to waste. This time however differential gauge pegged out and stayed there for most of the cycle; it was only in the last 30 to 60 seconds it dropped below 5 psi. In each instance the alarm cleared itself after the gauge dropped below 5 psi. The same alarm occurred on all three cells during the restoration stage.

We also had another issue this time with the backwash process. During the cell 3 drawdown stage, the backwash effluent valve did not open automatically, and we received a "Limit switch failed to open" alarm. Once cleared the alarm the valve opened on its own and the backwash continued for cell 3.

On a side note, we have been having issues with the pretreatment chlorine feed pump. We have had to degas the lines several times now. Would increasing the dosage prevent this? We have had lower pretreatment residuals due to the loss of prime on the pump.

Mark Mackey
Operator – Kronenwetter Water Utility
(715)574-3868
mmackey@kronenwetter.org

From: Emily Nurmi <Emily@williamreidltd.com>
Sent: Friday, February 14, 2025 12:00 PM
To: Brian Marquardt <marquardtb@rohdebros.com>; Mark Mackey <mmackey@kronenwetter.org>; Zach Gilmaster <zach@elliswi.com>; Joe Kafczynski <jkafczynski@becherhoppe.com>; Greg Ulman <gulman@kronenwetter.org>; Elbert JOHNSON <e.johnson@kurita-water.com>; Nina HALVERSON <n.halverson@kurita-water.com>
Cc: Dan Moore <moored@rohdebros.com>; Brandon Mancilla <Brandon@williamreidltd.com>
Subject: Re: [External] Kronenwetter treatment plant backwash

Sonny and Nina,

Have you had a chance to review their concern and supply a response?

Please advise. Thank you!!!

Emily Nurmi (she, hers, her)

Project Manager



PO Box 397

Germantown, WI 53022

O: 262-255-5420 C: 608-733-1403

Emily@williamreidltd.com

From: Brian Marquardt <marquardtb@rohdebros.com>
Sent: Wednesday, February 12, 2025 2:37 PM
To: 'Mark Mackey' <mmackey@kronenwetter.org>; Zach Gilmaster <zach@elliswi.com>; Joe Kafczynski <jkafczynski@becherhoppe.com>; Greg Ulman <gulman@kronenwetter.org>; Elbert JOHNSON <e.johnson@kurita-water.com>; Nina HALVERSON <n.halverson@kurita-water.com>; Emily Nurmi <Emily@williamreidltd.com>
Cc: Dan Moore <moored@rohdebros.com>
Subject: RE: Kronenwetter treatment plant backwash

Sonny and Nina,

Can you comment on Mark's email and what he was seeing during his first backwash? Be sure to "reply all" with comments or questions so everyone is kept up to date.

BRIAN MARQUARDT

Superintendent

Rohde Brothers Inc.

920-838-1628

marquardtb@rohdebros.com

From: Mark Mackey <mmackey@kronenwetter.org>

Sent: Wednesday, February 12, 2025 1:46 PM

To: Brian Marquardt <marquardtb@rohdebros.com>; Zach Gilmaster <zach@elliswi.com>; Joe Kafczynski <jkafczynski@becherhoppe.com>; Greg Ulman <gulman@kronenwetter.org>; Elbert JOHNSON <e.johnson@kurita-water.com>

Cc: Dan Moore <moored@rohdebros.com>

Subject: Kronenwetter treatment plant backwash

All,

We completed our first backwash on our own today (2-12-25). Everything went smoothly except for one little hiccup. During the Restoration stage of the backwash, we received a "Pressure Differential" alarm when water from the distribution system was flushing the cell (currently being backwashed) to waste. The differential gauge pegged out and then dropped back down below 5 psi several times. We were able to clear the alarm in each instance. Since the water on the influent side of the filter is isolated and static is there any harm coming to the filter if we keep getting these alarms during the backflush process?

Mark Mackey

Operator – Kronenwetter Water Utility

(715)574-3868

mmackey@kronenwetter.org

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