

Customer Name:	Kronenwetter, WI	Project/SLSO #:	J0030780
NES:	Mike Jensen	Date:	Tue 1.7.25

Daily Objective:	Commissioning o	g of the HPF.	
Equipment Condition Upon Arrival:		Offline	
Equipment Status Upon Departure:		Offline	
Key Performance Results:		N/A	
Travel Hours: 1		Site Hours:	10

Time	Task	Notes
6:30	Traveled to the job site.	
7:00	Arrived at the job site.	I arrived at the job site and met up with Dan Moore (Rohde construction). I
		looked over the installation of the filter and detention tanks.
	Powered on the control panel.	I powered on the control panel and found that I have an issue with the UPS
		system is not charging the battery and giving me a fault. I called Nina and ordered
		a replacement.
	Tested Bray valves.	I tested and cycled all the Bray electric valves. All the valves opened and closed
		from the HMI. I found that the open and close inputs were backwards and
		needed to be flipped around in the control panel. (The electrician fixed this
		problem.)
	Checked air wash blower.	I was checking the rotation of the air wash blower and found that the blower
		itself was locked up and would not turn freely. (Kept tripping the overloads on
		the starter panel) I talked to Nina, and she is working on getting a replacement
		blower and sending this one back for warranty.
	Backwashed the Greensand	I backwashed the Greensand in all three filter cells to be ready to skim and have
	plus in the filter.	the anthracite cap installed tomorrow.
5:30	Left site	
6:00	End of the day.	

Action Items & Recommendations	Owner
 Need a replacement UPS controller and battery. 	Kurita
Need a replacement air wash blower.	Kurita



Customer Name:	Kronenwetter, WI	Project/SLSO #:	J0030780
NES:	Mike Jensen	Date:	Wed 1.8.25

Daily Objective:	Continue with co	Continue with commissioning the filter.	
Equipment Condition Upon Arrival:		Offline	
Equipment Status Upon Departure:		Offline	
Key Performance Results:		N/A	
Travel Hours: 1		Site Hours: 10	

Time	Task	Notes
6:30	Traveled to the job site.	
7:00	Arrived at the job site.	I arrived at the job site waiting for the media installing contractor to skim the filter and add the anthracite cap to the filter. I found out that they will not be coming to the site today due to illness.
12:00	Blower being picked up.	The stuck blower is scheduled to be picked up today and shipped back to the factory to be looked at. The Truck time frame is anytime between 2 to 4 pm today. I went back to my hotel to print off the Bill of Landing for pickup.
5:00	Left site	I waited until 5 pm for the truck to pick up the blower. The truck never came. I left a message with Nina about the No show of the truck.
5:30	End of day.	

Action Items & Recommendations

- Replacement UPS controller and battery.
- Blower replacement
- N/A

Owner Kurita Kurita



Customer Name:	Kronenwetter, WI	Project/SLSO #:	J0030780
NES:	Mike Jensen	Date:	Thu 1.9.25

Daily Objective:	I witnessed the A each filter cell to	I witnessed the Anthracite cap being installed on the filter. We added 30 gallons of Hypo to each filter cell to condition the Greensand over the weekend.	
Equipment Cond	Equipment Condition Upon Arrival: Offline		
Equipment Status Upon Departure: Offline		Offline	
Key Performance Results:		N/A	
Travel Hours: 1		Site Hours: 10	

Time	Task	Notes
6:30	Traveled to the job site.	
7:00	Arrived at the job site.	I arrived at the job site and waited for the media installation contractor to come
		to site.
9:00	Witnessed the installation of	The contractor arrived and I witnessed the installation of the anthracite cap
	the anthracite cap.	installed in all three filter cells.
1:00	Filled filter with water	I filled the filter with water. 6" above the media.
	Bleach was added for	We added about 30 gallons of 12.5% hypo to each filter cell. (Three) We are going
	conditioning.	to leave the bleach in the filter over the weekend to condition the Greensand
		Plus media.
5:00	Left site	
5:30	End of day.	

Owner

Kurita

Kurita

Action Items & Recommendations

- Need replacement UPS controller and battery
- Need replacement air wash blower
- N/A



Customer Name:	Kronenwetter, WI	Project/SLSO #:	J0030780
NES:	Mike Jensen	Date:	Mon 1.13.25

Daily Objective	: I traveled to the	job site and rinsed the filter. We also tested the new blower.
Equipment Condition Upon Arrival:		Offline
Equipment Status Upon Departure:		Offline
Key Performance Results:		N/A
Travel Hours:	4	Site Hours: 8

Time	Task	Notes
7:00	Traveled to the job site.	
11:00	I arrived at the job site.	I arrived at the job site and met up with Dan. I found that the replacement
		blower has arrived onsite and has been installed.
	Rinsed the filter.	I rinsed the filter to rinse out the high dose of hypo out of the filter.
	Tested blower.	I tested the blower with the site electrician. (Checked blower rotation and remote start and stop,) The was an issue with the customer supplied breaker for the blower that will need replacing. (Arking and tripping out) The electrician bypassed the breaker and ran the feed wires to the motor starter for the time being until he gets a replacement breaker. We tested the remote start and stop, we also tested the motor fault signal coming back to the plc, The only signal that the motor start panel could not provide was an in "Auto" signal. I placed a jumper in the plc program for the in auto to allow us to start the blower.
5:30	Left site	
6:00	End of day.	

Action Items & Recommendations

Owner



Customer Name:	Kronenwetter, WI	Project/SLSO #:	J0030780
NES:	Mike Jensen	Date:	Tue 1.14.25

Daily Objective:	Cornen arrived backwash.	Cornen arrived onsite to set up comms with Scada and test the plc program during a backwash.	
Equipment Condition Upon Arrival:		Offline	
Equipment Status Upon Departure:		Offline	
Key Performance Results:		N/A	
Travel Hours:	1	Site Hours: 11	

Time	Task	Notes
6:30	Traveled to the job site.	
7:00	Arrived at the job site.	I arrived at the job site and met up with Dan. We are going to set the filter up to run through the fire hydrant to prime and test the chemical feed pumps.
1:00	Corben arrived at the site.	Corben (Kurita programmer) arrived at site and set up to start adding program changes to the plc in order to talk with the Scada plc. He also helped with testing and debugging the plc program.
	Did a backwash.	We ran through and did a backwash to check to make sure that all the steps went through without issues. I will need to wait the adjust backwash flow once we passed the bactee and are allowed to put the filter to the system, I need the back pressure and flow to provide the proper High-rate flow for the backwash. That should be happening later this week.
	Primed the chemical pumps.	Both the hypo and permaganate pumps were primed.
6:30	Left site	
7;00	End of day.	

Action Items & Recommendations

Owner



Customer Name:	Kronenwetter, WI	Project/SLSO #:	J0030780
NES:	Mike Jensen	Date:	Wed 1.15.25

Daily Objective: Corben worked w		vith the plant Scada guy and tested our remote function of the filter.
Equipment Condition Upon Arrival:		Offline
Equipment Status Upon Departure:		Offline
Key Performance Results:		N/A
Travel Hours: 1		Site Hours: 10

Time	Task	Notes
6:30	Traveled to the job site.	
7:00	Arrived at the job site.	Both Corben and I arrived at the job site. The filter was set up to run through the fire hydrant.
	Corben worked with the plant Scada.	Corben worked with Jake (Scada) as they went through and set up and tested plant and filter communications. (Alarms, Well call and well lockout and comms heartbeat)
11:00	The first bactee sample was taken.	Dan took the first filter bactee sample to the lab to be tested. Filter is still running through the fire hydrant
5:00	Left site.	
5:30	End of day.	

Action Items & Recommendations

Owner



Customer Name:	Kronenwetter, WI	Project/SLSO #:	J0030780
NES:	Mike Jensen	Date:	Thu 1.16.25

Daily Objective:	Trained the plant operators and ran the filter via a fire hydrant.		
Equipment Condition Upon Arrival:		Offline	
Equipment Status Upon Departure:		Offline	
Key Performance Results:		N/A	
Travel Hours: 1		Site Hours:	10

Time	Task	Notes
6:30	Traveled to the site.	
7:00	Arrived at the site,	I arrived at the site and the filter was set up to run through the fire hydrant.
9:00	Operator training.	I gave the plant operators training on the operation and maintenance of the filter.
11:00	Second bactee sample taken.	Da took a second bactee sample as the first one came back good. (We need two passing samples to put the filter into service.)
	Ran the filter the rest of the day.	We ran the filter the rest of the day taking FR and MG samples throughout the day, The results are very close to meeting the spec. (Fe: .05 mg/l and Mg: .01 mg/l) Are average results throughout the day were .03 for Fe and .014 of Mg. The Mg is close we are going to wait until I can backwash the filter tomorrow with full system pressure before adjusting the chemical feeds. (High-rate flows were low due to running through the fire hydrant. 400 to 560 gpm need 790 gpm)
5:00	Left site	
5:30	End of day.	

Action Items & Recommendations

Owner



Customer Name:	Kronenwetter, WI	Project/SLSO #:	J0030780
NES:	Mike Jensen	Date:	Fri 1.17.25

Daily Objective	e: Run filter to di	stribution and set all the backwash flows. I traveled home.
Equipment Condition Upon Arrival:		Offline
Equipment Status Upon Departure:		Offline but ready for service.
Key Performance Results:		Finished water results:
		Fe: .03 mg/l Mg: .013 mg/l
Travel Hours:	5	Site Hours: 8

Time	Task	Notes
6:30	Traveled to the site.	
7:00	Arrived at the site.	I arrived at the site and met up with Dan (Contractor) we are waiting for the second bactee results to allow us to put the filter into service,
11:00	Put filter into service.	We passed the second bactee and put the filter into service. I will be adjusting the backwash flows since we have system pressure.
	Set backwash flow setpoints.	I started a sequential backwash and set the Simul-wash and High backwash flow rates. I also set the filter to waste flow also. (Simul-wash rate set to 238 gpm, High-rate flow set to 790 gpm and filter to waste set to 240 gpm.)
2:30	Left site.	The filter is ready to be put into service. The city is going to keep the filter offline over the weekend and put it into service next week, (01/20/25)
7:00	End of the day.	

Action Items & Recommendations

Owner



Customer Name:	Kronenwetter, WI	Project/SLSO #:	J0030780
NES:	Sonny Johnson	Date:	Tue 2.4.25

Daily Objective: Investigate the b		ackwashing issue. Well, is caveating in backwash conditions.	
Equipment Condition Upon Arrival:		During the backwash sequence the well surges, i.e. drawing down too fast	
Equipm	nent Status Upon Departure:	Tested the ability to backwash from distribution only.	
Key Performance Results:		N/A	
Travel	Hours: 4	Site Hours: 6.0	
Time	Task	Notes	
7:30	Travel to site.	Travel to the site from Minnesota.	
10:00	Arrive on site.	Arrive on site.	
	Checking the operation of the filter.	The filtration rate of the filter wants to be 700 GPM according to the P&ID, when the system was operating at 700 GPM. The well would draw down too quickly and would cause pump cavitation, according to the contractor. So, the contractor has adjusted the final effluent gate valve to achieve a filtration feed flow of 650 GPM. No pump cavitation witnessed at this rate. This was done prior to my arrival	
	Going over the scope of the out of service backwash.	The engineer wants to backwash from distribution to mitigate the cavitation of the well pump that is caused by drawdown. I ran a high rate only on cell 3 to see how much water we are getting back from distribution system. I adjusted the SRS valve to a bit over halfway open (seen during the refill step). I opened the BRS valve to full open. I see a flow rate of 630 GPM for high rate. The flow rate for Simul wash(refill) is at 240 GPM. The GA calls out 791 GPM for high rate and 237 GPM for simul wash. At the 630 GPM as seen currently, this is about 7.9 GPM / ² ft, this is ok for green sand. Green sand is good at 8 to 10 GPM / ² ft. However, the engineer on site wants to achieve 791 GPM or as close as possible.	
	Testing backwash.	Upon further thought, the engineer on site wants to run a backwash (Inservice backwash) without making any program changes. They only tested the backwash one time during the start up phase, and since then they have restricted the main effluent valve.(with hopes that this will keep some back pressure on the well to keep it from cavitating) We tested this theory, during backwash and when the filter went into high rate the well did surge, and we could not hold a steady flow for high rate. During the high-rate step, since the BWE valve is fully open there is little to no back pressure on the well, allowing the water to go below the bowls of the pump causing cavitation issues.	
4:00	Adjusting the flow rates.	We opened the main effluent valve a bit more to see if we can get a higher flowrate coming back from distribution. to be used for the high-rate backwash step. I ran a high-rate backwash only on cell 2. At this point we see 740GPM for the flow. The filtration rate for the filter is now 700GPM. If it can run at 700 GPM as designed without drawing down the well too much, we can operate it at these parameters. We will test first thing on Wednesday.	
4:00	Left Sile.	Computer work	
4:30	End of day		
0.00	Lifu OF udy.		

Action Items & Recommendations

Owner



Customer Name:	Kronenwetter, WI	Project/SLSO #:	J0030780
NES:	Sonny Johnson	Date:	Wed 2.5.25

Daily Objective: Change the code		to operate in	an out of service mode/ test well for draw down	
Equipment Condition Upon Arrival:			Equipment is	an Inservice backwash
Equipment Status Upon Departure:			Equipment is	now an out of service backwash
Key Performance Results:		N/A		
Travel Hours:	4.5		Site Hours:	6.5

Time	Task	Notes
7:00	Trevel to site.	
7:30	Arrive on site.	
	Setup star link.	Set up the star link Wi-Fi.
	Testing the well at 700 GPM.	The tower called for water, we let the system run through the filters (with the main effluent valve a bit more open. To test for cavitation) until the tower was full (about 1.5 hours). The well held steady at about 700 GPM for the entirety of the run, but the water in the well was about 2 feet above the bowls on the well pump. (determined by pressure) When the well is not running the water sits 40 feet above the boles according to the contractor.
	On with Jacob to change the code.	Jacob is changing the code from an in-service backwash to an out of service backwash. And during the filter to waste step the 2 cells that are not in backwash will go into service
	Testing a backwash.	Running a sequence backwash, since this is an out of service backwash, we took out the ability to back wash cells individually. All 3 cells get loaded at the same rate anyway. Best practice is to backwash sequentially. Backwash works as reprogramed to do. Since the piping for the filter to waste goes from a 6" pipe down to a 3" pipe, we cannot filter to waste all 3 cells at the same time. During the filter to waste step the 2 cells not in backwash, go back into service so we can maintain a flow of 233 GPM for the filter to waste step. After the backwash was complete, the system went back into service. All influent and effluent valves opened.
2:00	Left site	Traveled back to Minnesota for flight home on Friday (expecting a snowstorm on Thursday in WI.
5:00	Checked into the hotel by the airport.	Computer work.
6:00	End of day.	

Action Items & Recommendations

- Backwash once a week at a minimum
- Se up the backwash windows on the HMI screen as desired
- Let SCADA know about the changes KURITA made to the backwash sequence, so they can make changes as well if needed
- N/A

Owner

Kronenwetter/operator Kronenwetter /operator Kronenwetter /operator



Customer Name:	Kronenwetter, WI	Project/SLSO #:	J0030780-02
NES:	Jarred Close	Date:	Tue 3.25.25

Daily Objective:	Control Changes		
Equipment Condition Upon Arrival:		In Service	
Equipment Status Upon Departure:		In Service	
Key Performance Results:		N/A	
Travel Hours: 3.5		Site Hours:	4.75

Time	Task	Notes
7:00	Travel	
7:30	Site Review	System in service,
	Control Changes	Worked with Controls (Jacob) to add the inhibits for the Differential Pressure
		triggers to only occur during service state of the Filter.
	Control Change Testing	Ran Backwash of filter and monitored, alarms did not trigger.
	Backwash Effluent (BWE) Valve Adjustment	Two of the BWE valves (Cell 1 & 2) were alarming. Discovered them set on the wrong side of the valve seat (through angle seating and back against other side of seat. Worked with the operators to adjust both valves and used as opportunity training. Operators reported that they were not given this training during the startup.
	Training	Conducted refresher training with customers. Went through Valve Adjustments, Filter to Waste settings, Backwash review, Print Package review and linkage, Electrical Print Review.
12:45	Travel	
3:45	EOD	

Action Items & Recommendations

- FIX: Air Release piping needs to be upsized. This is causing a hydraulic issue with the Simul-Wash Process.
- FIX: Add a Sludge blowdown option on Detention Tank piping. Piping outside our scope of work but P&ID and GA should call out this item.

Owner

Contractor

Contractor/Kurita