Water Treatment Plant Monthly Report

July 2024

- 1. Raw water quality was good for July. The raw water temp increased to around 75F. The operators responded as expected and produced good quality water.
- 2. We continue to work on WIIA I and WIIA II grants. We are receiving submittals for the 21-1ER contract. The 21-2 Tank prep and demo contract is complete. The 21-2T contract is being manufactured and submittals are being reviewed. We have received submittals for Contract 21-1G. The pumps have been ordered.
- 3. Fluoride dosing began on June 12th @ a feed rate of 0.7 mg/L. Keeler's Construction has completed all outstanding items. We are awaiting LaBella to approve the final closeout of work.
- 4. We have changed out all Badger endpoints. All meters are reporting with the exception of Wilson Rd @ Rt 18 in Carlton. This meter has shown an endpoint tamper code which indicates something wrong with wiring or an issue with the meter signal. As it turns out, when the meter was attempted to be read on August 1st, the meter was dead. Essentially, all usage for the month of July was un registered and un-billed. The meter was replaced and the endpoint re-programmed and is performing as expected at the time of this writing.
- 5. We are still experiencing drastically increased water demand for this time of year. We pumped approximately 20% more water this June compared to last year. Q4 of 2023 we had 25.5% water loss in the village. Operators are burning out as weekend nights are getting tough to cover. Jeremy Graham has spent roughly 2/3 of his hours operating to cover shifts rather than on maintenance.
- 6. The River Crossing "Emergency Repair" has hit yet another road block. We were informed that DOT is planning to replace the bridge in 2028 and their foundation structures will be very close to the location of the existing/proposed water main. We are working with Wendel to get this issue resolved.
- 7. On July 7th, We had Scuba Services dive the intake to set the Buoy and perform an inspection. We received a nice video of the dive showing conditions of things. We are getting quite a bit of Zebra Mussel buildup in at the end of the intake.
- 8. On July 13th, We declared an Emergency condition due to low water storage and increased usage. The Emergency was declared due to an unwillingness to voluntarily stay for overtime. Per the contract, an emergency declaration can mandate overtime.
- 9. On July 22nd, We received quotes from Koester Associates for replacement filter tips and to replace Low Service Pump #3. I am awaiting an updated quote as the quote pump differed from what we have in use currently and also called for a 30 hp motor rather than the existing 25 hp.

					Jul-24	24				
					Wages	es				
Operator	Rate	Reg Hrs	αs	10	OTSD	VAC/ Pers	Sick	Total Hrs	Cost	YTD
Adam Rush	42.24	Salary							\$7,321.60	\$51,024.28
Matt Smith	30.70	48	0.98		22	40	9	202	\$6,652.15	\$48,938.80
Jeremy Graham	30.67	109	31.0	18	45	40	4	247	\$8,635.17	\$45,710.66
Levi Boyer	30.38	32	82.0		61	09	56	261	\$9,020.60	\$50,536.95
Bryan Vagg	28.60	89	10.0	2	61	9	9	153	\$5,373.13	\$43,691.49
Kevin Kelly	Salary							0	\$597.31	\$4,181.17
Total		257	500	20	189	146	42	863	\$37,599.95	\$249,467.86
Operations	atio	ns			Costs	5			YTD	
Water Pumped		60,706,000		Monthly KWH	٨H	130337		Water Pumped	388,283,000	
AVG MGD		1.958		Elec. Demand	pu	205.2		Coagulant	19,881	\$24,700.86
PACI		3350		Elec Delivery	ry	\$8,602.24		Chlorine	8,148	\$23,058.84
CI2		1268		Energy		\$1,094.45		Chlorite	17,710	\$38,076.50
NaClO2		2635		Demand		\$2,447.85		Wages		\$249,467.86
BS #1 Pumped MG		52.78		Elec Cost		\$12,144.54				
Raw NTU		4.08		Elec/KG		\$0.33		1	Total Costs	
Finish NTU		0.0562		H2O Sales (@ \$3.34/K	\$162,206.43		Total E+C		\$33,438.75
				% Electric		7.49%		E+C+P		\$71,038.70
Do	Dosing			BS #1 Elec		\$7,676.14		Op Mar		\$91,167.73
Coagulant PPM		6.62		PACI Cost		\$4,161.50		E+C / 1K		\$0.55
CI2 Per PPM		2.50		CI2 Cost		\$3,791.32		Personnel Cost/ 1K	K	\$0.62
Chlorite PPM		5.20		NaClO2 Cost	st	\$5,665.25		Cost per 1000 Gal		\$1.17
								Per K/Gal Jul 2023		\$1.1898
								Per K/Gal Jun 2024		\$1.1401