



# **Water and Wastewater Treatment 2024**

# Water Reclamation 2024 Permit Data

2024 EFF	High	Low	Average	INF Avg
Temp	28 ↑	8.5 ↓	16.8 ↑	-
D.O.	10.84 ↑	7.32 ↑	8.73 ↑	-
pH	8.04 ↑	7.17 ↑	-	-
TSS	12 ↑	BDL	3.55 ↑	245.16 ↑
NH3	1 ↓	BDL	0.084 ↑	-
CBOD	90	BDL	4.03 ↓	241.88 ↓
E. Coli	1190 ↑	BDL	34.25 ↑	-
Phos	3.2 ↑	0.5 ↑	1.17 ↑	-
Flow	1.72 ↓	0.17 ↓	0.38 ↓	-



# Water Treatment Plant 2024 Lab & Flow Data Averages

## **2024 Average flow rate of 0.317 MGD**

pH: 7.78

Total Alkalinity: 284 mg/l

Phenol Alkalinity: 0

Total Hardness: 213 mg/l

Iron: 0.08 mg/l or BDL

Manganese: 0.020 or BDL mg/l

Total RAW Water Pumped: 121.067 MG

Total Treated Water Pumped: 115.923 MG

Sodium Hypochlorite: 6,012 gallons or 16.47 gallons per day

Sodium Hydroxide: 36,484 gallons or 99.95 gallons per day

Stability: 0.60

Free Chlorine: 1.01 mg/l

# 2024 Water Loss

2024				
Months	WTP Total MG	Billing Total MG	Water Loss MG	Water Loss Percentage
Jan	8.978	6.084	2.894	32.23%
Feb	8.492	5.786	2.706	31.87%
Mar	9.482	6.28	3.202	33.77%
Apr	9.071	6.19	2.881	31.76%
May	9.883	5.407	4.476	45.29%
Jun	10.204	7	3.204	31.40%
July	10.185	8.009	2.176	21.36%
Aug	10.566	6.267	4.299	40.69%
Sep	11.519	8.377	3.142	27.28%
Oct	9.82	6.963	2.857	29.09%
Nov	8.701	6.116	2.585	29.71%
Dec	9.022	6.583	2.439	27.03%
Total	115.923	79.062	36.861	31.80%
Monthly Avg	9.66025	6.5885	3.07175	31.80%
Daily avg	0.31759726	0.216608219	0.100989041	31.80%



# Water Reclamation Facility

## Sludge Removed

- Ran sludge press and removed 615,992 gallons of sludge.
- Cleaned belt on sludge press with cleaning agents and helped keep pressing at optimal level.



# Repaired Diffusers in Aeration Tank I



## Removed failed blower

- Removed blower #1 from service after failure. Capped off air header so we can use other blowers to provide air to sludge digesters.



## Repaired West RAS Pump

- Repaired failed West RAS pump and reinstalled and returned to service.

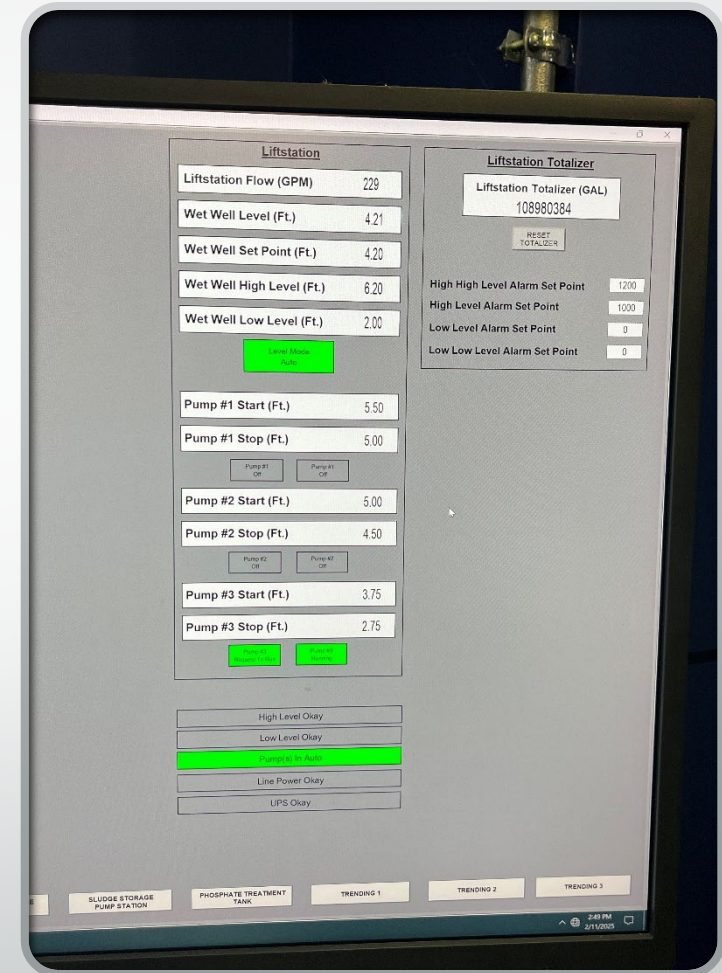




# Lift Stations

## Installed new flow meter

- We now have the capability to flow trend at the WRF and monitor the wet well depth.



## Replaced Muffin Monster

- Removed failed grinder and replaced.
- Helps protect pumps from wipes and any debris that could cause damage.



# Pressure washing and channel cleaning



# Start up of new Spring Meadows Lift Station





# **Water Treatment Plant**

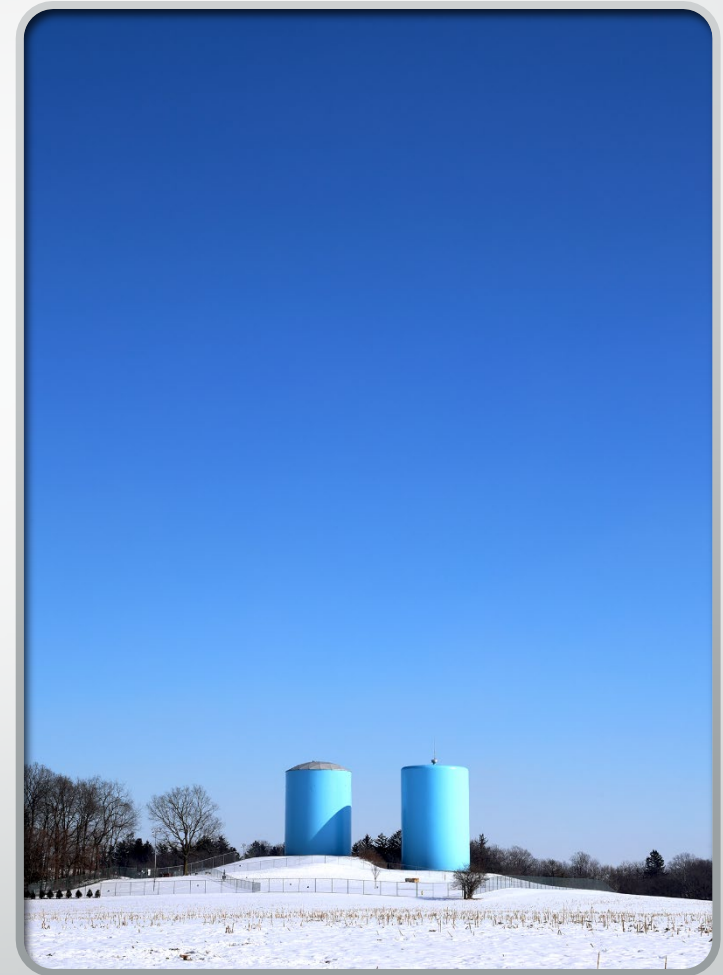
## Cleaned Well #6

- Completed regular cleaning and video inspection.
  - Makes sure well is running to full capacity



## Tower Rehab

- Exercised valves at water towers. Reset all valves to make sure they are aligned for proper installation and use.
- Drained South Tower for complete inside and outside rehab.
- Completed North tower warranty inspection from 2023 rehab.



## Taste contest

- Competed in Nation Taste contest in Washington D.C.
- Took 3<sup>rd</sup> place in Ohio Rural Water Association taste test competition.
  - Looking to win again in 2025!



## OAWWA Section Meeting

- Hosted approx. 50 professionals for OAWWA Southwest district section meeting.
- Conducted plant tours for OEPA chief of drinking and ground waters, Amy Klei.

