

# WPCA COMMUNICATIONS AND REPORTS

December 6, 2022

*The following is a monthly report from the Superintendent of Pollution Control as an appendix to the Water Pollution Control Authority meeting.*

## Treatment Plant and Collection Systems

### Treatment Plant

#### *Process*

TREATMENT PLANT	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	AVERAGE
AVG FLOW (MGD)	2.67	2.51	2.63	3.07	3.30	3.12	2.55	2.39	2.10	2.06	2.20	2.23	2.57
BOD REMOVAL	98.5%	98.7%	98.8%	98.7%	98.6%	98.1%	98.9%	99.0%	98.7%	98.4%	98.0%	98.4%	98.6%
TSS REMOVAL	98.8%	99.0%	99.2%	99.0%	98.9%	97.9%	99.0%	99.1%	99.0%	99.1%	98.0%	98.2%	98.8%
NITROGEN LBS. (106 LBS. LIMIT)	113	115	95	87	86	96	84	95	100	85	94	89	95
NITROGEN mg/L	4.2	4.1	4.2	3.5	3.5	3.7	3.9	4.7	5.5	4.9	4.9	4.6	4.3

#### *Maintenance*

- Repaired collection arm on Gravity Thickener 1.
- Repaired Headworks Wash Press Auger.
- Installed new VFD (Variable Frequency Drive) on Aeration Turbo Blower 3.
- Repaired potable water line in high bay of Admin Building.
- Repaired sodium hypochlorite leaks in Hypo Room and GBT Room.
- Replaced Filtrate Pump 2 and exercised Filtrate Pump station valves.
- Removed grease buildup in Secondary 1 and 2 air bleed valves.
- Dewatered Aeration Tank 2 effluent channel in preparation for gate rehabilitation.
- 3 Operators completed extensive PLC (Programmable Logic Controller) training.
- Continued to work with Conn OSHA consultant. After finishing up with Confined Space we have moved on to our Lockout/Tagout Program.

### Collection System

COLLECTION SYSTEM	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	TOTAL FT
CCTV (FEET)	2,000	1,200	2,642	1,950	8,538	4,681	0	3,033	5,129	3,695	2,282	1,642	36,792
CLEANING (FEET)	4,100	4,000	1,363	1,550	3,677	1,500	1,739	4,413	7,047	6,275	4,883	5,546	46,093

- Replaced broken 8" plug valve on Pleasant Valley Pump 3 discharge.
- Checked wear ring tolerances and cleaned rags out of Clark Street Pump Station Pumps 1 and 2 check valves.
- Removed grease and grit from Clark Street Pump Station wet well.
- Completed annual hydraulic oil changes on Combo Truck and Vac Truck.
- Completed all accessible cross-country sewer line cleaning.

- Completed quarterly pump station bypass valve exercises.

### Emergency Call Outs

EMERGENCY CALL OUTS	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	TOTAL
TREATMENT PLANT	0	0	0	1	3	0	2	3	2	2	1	3	17
PUMP STATIONS	1	2	2	0	3	0	2	1	5	2	2	1	21
SEWER BLOCKAGES	0	0	1	0	0	0	0	1	0	0	0	0	2
CALL BEFORE YOU DIG	0	0	0	0	0	0	0	1	0	1	0	0	2
ODOR COMPLAINT	1	1	1	2	2	7	5	8	1	0	3	2	33

## **Capital Improvement Project Updates**

### Clark Street, Benedict Drive, Pleasant Valley Pump Station Upgrades

- Provided 95% design comments back to Arcadis.
- Met with SW Engineering Dept and Arcadis to discuss replacing the adjacent bridge crossing the Podunk River.
- Required bridge elevations are going to require modifications to the Pleasant Valley Pump Station design.

#### *Next Steps:*

- *Submit design to DEEP for review and approval (min. 90-day review).*
- *WPCA and Town Council Resolution to enter into CWF agreement*
- *Bid project.*

### Aeration Weir Gate Improvements

*The WPCA approved transferring \$750,000 from FY21/22 CIP (Phase IV Part 1 Sewer System Improvements) to complete critical improvements to the aeration basin weir gates. An additional \$50,000 was approved with the FY22/23 CIP budget.*

- Weston & Sampson are working on bid specification.

## **American Rescue Plan Act (ARPA) Funded Projects**

### Phase IV Sewer System Improvements

*This project has been approved utilizing American Rescue Plan Act funds. The budget for this project is \$1,100,000.*

- Substantial completion was met before the November 16<sup>th</sup> deadline.

### UV Disinfection Upgrade

*This project has been approved utilizing American Rescue Plan Act funds. The original budget for this project was \$1,300,000. In February 2022 the Authority approved transferring \$120,000 from this project to the Clark Street Bypass Valve project.*

Nothing new to report.

### Clark Street Bypass Valve

*This project has been approved utilizing American Rescue Plan Act funds. The original budget for this project was \$100,000. In February 2022 the Authority approved transferring \$120,000 from the UV Disinfection Upgrade project to the Clark Street Bypass Valve project.*

- VMS began moving material to the site.
- Excavation is scheduled to begin December 1<sup>st</sup>.

### **Collection of Sewer User Fees and Delinquent Accounts**

*To be reported during the meeting.*

*Respectfully submitted by: Tony Manfre, Superintendent of Pollution Control*