

WPCA COMMUNICATIONS AND REPORTS

January 3, 2023

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	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	AVERAGE
AVG FLOW (MGD)	2.51	2.63	3.07	3.30	3.12	2.55	2.39	2.10	2.06	2.20	2.23	2.35	2.54
BOD REMOVAL	97.8%	98.8%	98.7%	98.6%	98.1%	98.9%	99.0%	98.7%	98.4%	98.0%	98.4%	98.5%	98.5%
TSS REMOVAL	97.8%	99.2%	99.0%	98.9%	97.9%	99.0%	99.1%	99.0%	99.1%	98.0%	98.2%	98.8%	98.7%
NITROGEN LBS. (106 LBS. LIMIT)	115	95	87	86	96	84	95	100	85	94	89	93	93
NITROGEN mg/L	4.1	4.2	3.5	3.5	3.7	3.9	4.7	5.5	4.9	4.9	4.6	4.6	4.3

Maintenance

- Performed semiannual cleaning, maintenance, and inspection of Grit Chambers 1 and 2.
- Built and installed new IO rack on new chassis in PLC cabinet in Control Building MCC. Also replaced failed power supply on Analog rack.
- Sealed Control Building roof penetrations that were leaking down into MCC 3/4 PLC Cabinet. Ensured roof drains were clear on Admin Building.
- Unclogged air bleeds on mixed liquor line in Secondary 1/2 gallery.
- Replaced worn out brush on Headworks Wash Press Auger.
- Replaced faulty fuel pump on pony diesel tank on Truck 83.
- Put Aeration Basin 2 back online for the winter and spring seasons.
- Provided 3 hour long demand response for ISO-New England on Christmas Eve to help ensure stability of the power grid.

Collection System

COLLECTION SYSTEM	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	TOTAL FT
CCTV (FEET)	1,200	2,642	1,950	8,538	4,681	0	3,033	5,129	3,695	2,282	1,642	0	34,792
CLEANING (FEET)	4,000	1,363	1,550	3,677	1,500	1,739	4,413	7,047	6,275	4,883	5,546	4,748	46,741

- Improved surge protection at Clark Street and Benedict Drive Pump Stations.
- Worked with VMS to assist with the Clark St Pump Station bypass, installation of the force main line stop, and new valves.
- Replaced three UPS battery backup units at Rye St, Route 5, and Barrington Estates pump stations.

- Mounted all pump station UPS units out of the electrical panels for easy maintenance access and monthly inspections.
- Degreased Avery St, Scantic 1 and Scantic 2 pump station wet wells.

Emergency Call Outs

EMERGENCY CALL OUTS	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	TOTAL
TREATMENT PLANT	0	0	1	3	0	2	3	2	2	1	3		17
PUMP STATIONS	2	2	0	3	0	2	1	5	2	2	1		20
SEWER BLOCKAGES	0	1	0	0	0	0	1	0	0	0	0		2
CALL BEFORE YOU DIG	0	0	0	0	0	0	1	0	1	0	0		2
ODOR COMPLAINT	1	1	2	2	7	5	8	1	0	3	2		32

Capital Improvement Project Updates

Clark Street, Benedict Drive, Pleasant Valley Pump Station Upgrades

- Arcadis finalizing the Pleasant Valley Pump Station design revisions.
- Verifying that design change will not require any further permitting from DEEP.

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.

- 1 year retainage will be released November 2023.

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.

- Project was completed. Final payment will be released.

Collection of Sewer User Fees and Delinquent Accounts

To be provided at the meeting.

Respectfully submitted by: Tony Manfre, Superintendent of Pollution Control