

WPCA COMMUNICATIONS AND REPORTS

January 2, 2024

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	Permit Limit	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	AVERAGE
AVG FLOW (MGD)	3.75 MGD/Day	2.58	3.25	2.91	3.29	3.02	3.04	3.17	3.16	2.63	2.87	3.36	3.01	3.02
BOD REMOVAL	85%	98%	99%	99%	99%	99%	98%	99%	99%	99%	98%	98%	96%	98.4%
TSS REMOVAL	85%	99%	99%	99%	99%	99%	98%	99%	99%	99%	98%	98%	97%	98.8%
NITROGEN	106 Lbs/Day	92	98	89	91	96	111	90	104	92	111	106	124	100
NITROGEN mg/L	-	4.2	3.8	3.5	3.3	3.7	5.2	4.4	5.0	4.1	3.8	3.9	5.5	4.2

Maintenance

- Replaced failing influent sampler tubing
- Performed annual maintenance and testing on plows in preparation for winter weather
- Installed stop logs and pumped Aeration Basin 2 over to Basin 1 in order to allow Nickerson Construction to continue gate replacement work
- Drained/Pumped out and cleaned Secondary Clarifiers 2 and 3 as well as completing inspection and repairs on these structures
- Worked with New England Environmental to clean and calibrate new effluent ammonia/nitrate probe
- Worked with Xylem to perform maintenance on and develop maintenance procedures for portable Godwin pump
- Drained and cleaned Gravity Thickener 1 in preparation for inspection and repair
- Repaired faulty valve on Waste Activated Sludge line from Secondary Clarifier 3
- Installed heaters on all Primary and Secondary Clarifier drives in order to mitigate cold weather failures

Collection System

COLLECTION SYSTEM	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-22	Jul-22	Aug-22	Sep-23	Oct-23	Nov-23	TOTAL FT	TOTAL MI	AVG FT	AVG MI
CCTV (FEET)	2,655	8,414	14,525	8,722	15,978	4,027	13,831	5,129	9,427	4,912	888	7,491	95,999	18.2	8,000	1.5
CLEANING (FEET)	1,800	5,339	13,903	5,500	7,400	3,200	2,850	7,047	3,149	1,739	1,800	3,111	56,838	10.8	4,737	0.9

- Line cleaning and CCTV work
- Completed annual heater maintenance at pump stations

- Worked with ESI to bypass influent lines at Pleasant Valley Pump station in order to facilitate line repair
- Degreased Benedict Drive Pump Station and also performed quarterly cleaning and maintenance of force main air vents

Call Outs

CALL OUTS	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	TOTAL
TREATMENT PLANT	4	2	1	1	2	3	3	3	0	1	2	1	23
PUMP STATIONS	4	2	3	0	1	2	1	1	2	1	0	0	17
SEWER BLOCKAGES	0	1	0	0	0	0	1	0	0	1	0	0	3
CALL BEFORE YOU DIG	1	1	1	0	0	0	1	1	0	0	0	0	5
ODOR COMPLAINT	0	1	2	2	6	4	8	0	0	0	0	0	23

Capital Improvement Project Updates

Clark Street, Benedict Drive, Pleasant Valley Pump Station Upgrades

- Final design has been received by the Town and is under review
- Plans will be submitted to DEEP upon Town acceptance

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 increasing the total project budget to \$800,000. Project was awarded to C.H. Nickerson for \$552,345.

- Gates have been replaced and both Basins are operational

Next Steps:

- *Release retainage after 1 year*

Odor Control Improvements

The WPCA approved \$245,000 with the FY2024 CIP budget. An additional \$1,300,000 was allocated to the project from the State Bond Commission in July 2023.

- DEEP requires a resolution from the Town accepting the funding

Next Steps:

- *Execute agreement with DEEP to receive funding.*
- *Submit resolution accepting funds and scope of work to DEEP.*
- *Execute agreement with Consultant.*
- *Begin design.*

Sanitary Sewer Evaluation Survey

The WPCA appropriated \$800,000 to perform a study of the Clark Street Sewer Sheds. The study includes flow metering, I/I identification, smoke testing and CCTV pipe evaluation. This project is being submitted for CWF grant funding.

- *Awaiting DEEP review and approval of the project scope and fees*

Next Steps:

- *Submit draft agreement to DEEP for review and approval.*
- *Complete CWF application process.*
- *Design Project.*

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.

- *Final CCTV inspections being performed before releasing retainage*

Next Steps:

- *Release project retainage (\$47,933) in 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.

- *Received DEEP approval to bid the project*
- *Expecting to bid the project first week of January*

Next Steps:

- *Bid project.*
- *Select contractor.*
- *Submit proposed equipment to Eversource as part of the grant application.*

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.

- Anticipating releasing final retainage in January

Collection of Sewer User Fees and Delinquent Accounts

Commercial Sewer

- A partial payment for 50 Talbot Road was received and the Collector of Revenue will continue to work with the Town Attorney to recover the full balance
- Pursuing the remaining 6 delinquent accounts to obtain a collection of 100%

Residential Sewer

- Due to staff shortages Alias Tax Warrants were unable to be issued
- Collector of Revenue's office is in the process of reviewing accounts to issue warrants

Collection Rate	2022 Grand List	2023 Grand List	2024 Grand List
Commercial	99.47%	88.63 %	n/a
Residential	n/a	94.26%	93.98%

Respectfully submitted by: Tony Manfre, Superintendent of Pollution Control