

WPCA COMMUNICATIONS AND REPORTS

November 8, 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	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	AVERAGE
AVG FLOW (MGD)	2.23	2.35	2.58	3.25	2.91	3.29	3.02	3.04	3.17	3.16	2.63	2.87	2.88
BOD REMOVAL	98%	98%	98%	99%	99%	99%	99%	98%	99%	99%	99%	98%	98.6%
TSS REMOVAL	98%	99%	99%	99%	99%	99%	99%	98%	99%	99%	99%	98%	98.8%
NITROGEN LBS. (106 LBS. LIMIT)	89	93	92	98	89	91	96	111	90	104	92	111	96
NITROGEN mg/L	4.6	4.6	4.2	3.8	3.5	3.3	3.7	5.2	4.4	5.0	4.1	3.8	4.2

Maintenance

- Inspected and repaired two faulty plant water valves.
- Continued to work on reconstruction of old cake bay.
- Repaired bar screen auger.
- Installed pressure switch on TPS Pump 2.
- Performed maintenance on blower building polymer chemical feed system.
- Replaced Headworks Wash Press Grinder.
- Assisted with electricians to replace Headworks lower level lighting with LED light fixtures.
- Drained and inspected Secondary Clarifier 1.
- Replaced bad ballast and two bad bulbs on UV system.
- Cleaned Parshall Flume and flushed effluent line.

Collection System

COLLECTION SYSTEM	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-22	Jul-22	Aug-22	Sep-23	TOTAL FT
CCTV (FEET)	1,642	0	2,655	8,414	14,525	8,722	15,978	4,027	13,831	5,129	9,427	4,912	89,262
CLEANING (FEET)	5,546	4,748	1,800	5,339	13,903	5,500	7,400	3,200	2,850	7,047	3,149	1,739	62,221

- Continued line cleaning and CCTV work.
- Completed work on Clark Street bypass connection to add check valve to the configuration.
- Cleaned check valves at Benedict Drive and made adjustments to check arms for greater pump efficiency.

Call Outs

CALL OUTS	Oct-22	Nov-22	Dec-22	Jan-23	Column1	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	TOTAL
TREATMENT PLANT	3	5	4	2	1	1	2	3	3	3	0	1	28
PUMP STATIONS	1	2	4	2	3	0	1	2	1	1	2	1	20
SEWER BLOCKAGES	0	0	0	1	0	0	0	0	1	0	0	1	3
CALL BEFORE YOU DIG	0	2	1	1	1	0	0	0	1	1	0	0	7
ODOR COMPLAINT	2	1	0	1	2	2	6	4	8	0	0	0	26

Capital Improvement Project Updates

Clark Street, Benedict Drive, Pleasant Valley Pump Station Upgrades

- Land & Water Resources Division Applications have been filed with DEEP for Clark Street and Pleasant Valley Road Pump Stations.

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.



- The westerly aeration tank gates are in place. Final adjustments are pending.
- It will take one week for the new concrete to cure and then we will be switching over to the west tank to begin work on the eastern tank.

Next Steps:

- *Complete west tank.*
- *Pump out east tank.*
- *Fill channel with flowable fill.*
- *Install new east tank gates.*

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.

- *Still working with DEEP to draft an agreement to receive grant 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.

- *The scope and fees of the project are currently being negotiated.*
- *Wright Pierce is drafting a revised approval.*

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.

- *Project completed.*

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.

- Preparing to bid the project.
- DEEP is reviewing the design and bid specifications.

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.

- Project completed.

Next Steps:

- *Release project retainage (\$12,515.50) in December 2023.*

Collection of Sewer User Fees and Delinquent Accounts

Report to be distributed.

Respectfully submitted by: Tony Manfre, Superintendent of Pollution Control