

WPCA COMMUNICATIONS AND REPORTS

February 1, 2022

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

General Information

2021 EPA Regional Wastewater Treatment Plant Operator of the Year

The EPA Regional Wastewater Treatment Plant Operator of the Year Award was established to recognize and honor the employees of publicly owned wastewater treatment plants for their commitment to improving water quality with outstanding plant operations and maintenance. I am proud to announce that this year's recipient is South Windsor's Plant Supervisor, Jeff LeMay. Jeff began his wastewater career at the South Windsor Wastewater Pollution Control Facility in July of 2013. Jeff proved himself to be a talented, ambitious and dedicated operator who earned his DEEP Class IV Wastewater License and was eventually promoted to Plant Supervisor in 2019. More recently he has served as Vice President and President of the Connecticut Water Pollution Abatement Association (CWPA), helping shape the DEEP's Miscellaneous Industrial User requirements of municipalities and playing a key role in the merger of CWPA and Connecticut Water Pollution Control Authority (CWPCA) into Connecticut Water Environmental Association (CTWEA). This is a well-deserved recognition of Jeff's tireless work.

Platt Hill Solar Farm

LodeStar Energy has announced that they successfully energized the Platt Hill Road Solar Project in Winchester on December 28, 2021. The project will deliver 33% of its net metering credits to the South Windsor WPCF. This is expected to save over \$500,000 over the next 20 years.

Battery Energy Storage System

We met with Titan Energy and ConEd to identify a suitable site to construct the battery infrastructure. Two locations within the treatment plant grounds were identified as desirable sites. Currently a Land Lease Option and Agreement are under legal review and a non-binding Letter of Intent has been submitted allowing the project application to be filed with the State's program.

Water Service Line Repair

During a routine pump station inspection at Benedict Drive a water service line leak was detected when water was leaching through the asphalt. ESI was contacted to locate and repair the water line.



Treatment Plant and Collection Systems

Treatment Plant

Process

TREATMENT PLANT	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	AVERAGE
AVG FLOW (MGD)	2.92	2.63	2.76	2.61	2.57	2.55	4.67	3.57	4.15	2.93	2.67	2.51	3.05
BOD REMOVAL	95.7%	98.2%	98.4%	98.6%	98.6%	99.0%	97.4%	98.4%	98.5%	98.5%	98.5%	98.7%	98%
TSS REMOVAL	95.6%	98.8%	99.0%	98.6%	98.6%	98.9%	97.4%	98.3%	98.2%	98.9%	98.8%	99.0%	98%
NITROGEN LBS. (106 LBS. LIMIT)	115	95	87	86	96	87	142	102	115	97	97	88	100.51
NITROGEN mg/L	4.7	4.2	3.7	3.9	4.4	3.9	3.7	3.7	3.3	3.8	4.2	4.1	3.96

Maintenance

- Installation of new modems, signal booster, and antenna for upgraded SCADA system
- Removal of rotting air filter silencers for grit blowers for repair
- Installation of new Mixer Pump for Aeration Basin 2 effluent channel. Previous pump removed and sent out for preventative maintenance
- Repair of faulty Return Activated Sludge Pump switch
- Annual maintenance of headworks bar screen and bypass grinder
- Reconfiguration of GBT Polymer room to allow for more storage space
- Several days' worth of snow/ice removal at Treatment Plant and Pump Stations

Collection System

COLLECTION SYSTEM	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	AVG FT
CCTV (FEET)	14,848	6,544	7,100	8,621	2,977	4,077	5,457	0	0	2,080	2,000	1,200	4,575
Contracted CCTV	0	3,374	0	21,414	18,569	10,254	0	0	9,693	12,783	0	0	6,341
CLEANING (FEET)	10,000	3,000	4,500	7,251	22,000	12,300	0	2,200	6,050	2,700	4,100	4,000	6,508

- Installation of new Influent Channel Grinder at Benedict Drive Pump Station
- Repair of Pleasant Valley Pump Station dry pit submersible pump

- Performed quarterly pump station bypass valve exercises
- Provided technical and administrative support to Green Mountain Pipelining for rehabilitation of 18 manholes

Capital Improvement Project Updates

Clark Street, Benedict Drive, Pleasant Valley Pump Station Upgrades

- Arcadis continues to work on 60% design

Next Steps:

- *Engineer to perform Connecticut Environmental Policy Act (CEPA) Permit Review*
- *Project 90% design phase*
- *Submit design to DEEP for review and approval (min. 90-day review)*

Phase IV Part 1

This project has been approved with the FY22 WPCA budget and will include the lining of sewer pipe and rehabilitation of manholes. The line item budget is \$750,000.

- Wright Pierce has completed the final bid package
- Project was bid January 24, 2022
- Bid opening is February 23, 2022

American Rescue Plan Act (ARPA) Funded Projects

Phase IV Part 2

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

- Wright Pierce has completed the final bid package
- Project was bid January 24, 2022
- Bid opening is February 23, 2022

UV Disinfection Upgrade

This project has been approved utilizing American Rescue Plan Act funds. The budget for this project is \$1,300,000.

- Executed an agreement with Weston & Sampson for the design, bid and construction oversight

Clark Street Bypass Valve

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

- Bids were opened January 13, 2022
- Lowest responsible bid was \$191,260 which was submitted by VMS Construction

Collection of Sewer User Fees and Delinquent Accounts

Collector of Revenue Report

To be provided at the meeting.

Respectfully submitted by: Tony Manfre, Superintendent of Pollution Control