

# WPCA COMMUNICATIONS AND REPORTS

May 4, 2021

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

## General Information

### Staff Recognition

This past month Jim Kavanaugh, who joined our team as a CT DEEP Class I Wastewater Operator in 2018, has successfully passed the Class III Wastewater Operator exam in April. Over the past 5 years the pass rate for the Class III exam is 29%. Mr. Kavanaugh also holds credentials in the NASSCO Pipe Assessment and Certification Program and Manhole Assessment and Certification Program. He shows commitment, integrity and problem solving skills on a daily basis. He is dependable and a proven asset to our organization. Our team now has 2 – Class IV, 8 – Class III, 2 – Class II, and 1 – Class I licensed operators.

CT DEEP Operator Certification			
	Pass Rate	State Licenses	Town Licenses
Class I	44%	234	1
Class II	59%	228	2
Class III	29%	172	8
Class IV	20%	181	2

### Covid-19 Update

The South Windsor Town Hall has been closed to the public since last year and department staff have been divided and moved to various town buildings to prevent the spread of the Covid 19 virus among entire departments. The Town Manager has recently announced that the Staff will be returning to their normal work stations on May 14<sup>th</sup> and Town Hall will be opening to the public beginning May 19<sup>th</sup>. The WPC team has been working staggered shifts during this time and will be returning to their typical work day of 7:00 – 3:30 pm.

## Treatment Plant and Collection Systems

### Treatment Plant

#### *Process*

TREATMENT PLANT	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	AVERAGE
AVG FLOW (MGD)	2.93	2.70	2.19	2.10	2.04	1.85	1.92	2.13	2.79	2.92	2.63	2.76	2.41
BOD REMOVAL	97.0%	98.0%	99.0%	98.8%	99.1%	98.8%	98.0%	98.6%	97.3%	95.7%	98.2%	98.4%	98%
TSS REMOVAL	98.0%	98.0%	99.0%	98.9%	99.0%	98.6%	98.0%	98.7%	97.7%	95.6%	98.8%	99.0%	98%
NITROGEN LBS. (106 LBS. LIMIT)	126	108	82	95	84	80	87	85	113	115	95	87	96.42

## Maintenance

- Performed maintenance and repairs on UV System to prepare for Disinfection Season. This included installing a new coolant pump, replacing two failing wiper cylinders, and repairing an extensive hydraulic oil leak.
- Performed an oil change on main plant generator.
- Exercised all treatment plant sluice gates. This is done annually to ensure proper function and longevity.
- Inspected East Gravity Thickener and put it back online. Took West Gravity Thickener off line and cleaned.
- Performed oil changes in Primary Clarifiers, Secondary Clarifiers, and Gravity Thickener drives.
- Assisted Kone Cranes in crane and hoist inspections at the treatment plant and pump stations.
- Worked with Advanced Coatings to repair the failing concrete floor in Sludge Storage Tank 3

## Collection System

COLLECTION SYSTEM	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	TOTAL FT	TOTAL MI
CCTV (FEET)				23,128	23,724	58,045	9,992	5,223	14,848	6,544	7,100	8,621	157,225	29.8
Contracted CCTV				0	0	13,744	17,617	20,392	0	3,374	0	21,414	76,541	14.5
CLEANING (FEET)				27,458	25,301	65,099	28,250	25,000	10,000	3,000	4,500	7,251	195,859	37.1

- Completed annual maintenance on all submersible pump station pumps. This includes oil changes, checking and adjusting wear ring tolerances, and inspecting impellers.
- Replaced pump 2 at Quarry Brook Pump Station with a temporary pump while the front line pump is undergoes rehabilitation.
- Degritted and degreased Avery Street, Quarry Brook, Burgess, Scantic 1, and Scantic 2 pump stations.
- Performed extensive line cleaning on Sullivan Avenue and surrounding roads.
- Performed CCTV work and assisted Mobile Robotics in contracted CCTV Work.

## Capital Improvement Project Updates

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

- Worked with Arcadis to determine condition of Benedict Drive Pump Station Force Main. This included CCTV work of the Force Main and cleaning of the associated air vents to help determine proper pump size for the station upgrade.
- Arcadis continues to work on 30% design submittal.

#### *Next Steps:*

- *Develop 30% and 60% design*

- *Project design phase*
  - *Complete 90% design (est. 36 weeks from the January 4, 2021 NTP).*
- *Submit design to DEEP for review and approval (min. 90 day review).*

#### Chapel Road Phase 2

- Inland Waters was on site to complete the grout injection of the service laterals. Expecting this work to finish by the end of April.
- Last section of the project is scheduled to be lined by the end of May.

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

*Collector of Revenue Report provided at the meeting.*

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