

Stamford WPCA Top Issues (7/19/21)

No.	Issue	Action Description	Impact	Status	Schedule
1	COVID-19 Outbreak	Take action to reduce impact on SWPCA Operations and Finances	Operations and Financial	No positive COVID cases since last Board meeting. All staff that wanted to be vaccinated has been fully vaccinated. 90% of staff is fully vaccinated.	All SWPCA staff have returned to working full time on site as of July 12, 2021.
2	42" Diameter Force Main from Raw Sewage Pumps Station to Primary Clarifiers developed a longitudinal crack and required repair.	Investigate force main condition to determine need for lining or replacement. Complete force main lining or replacement as soon as practicable.	Operations and Financial	Two (2) of four (4) sections of the force main were lined by Insituform on 7/15 and are being cured with hot water.	The remaining two (2) sections of the force main will be lined this week followed by three (3) to four (4) days of liner curing. Nickerson will then install new 45 degree bends and pipe connections at the lining insertion pits, and the new 90 degree elbow inside the Raw Sewage Pump Station. Work should be completed by mid-August.
3	UV System Performance and Permit Exceedances	Upgrade UV System adding 2 new UV channels for system redundancy during peak flow and replacing aged Wedeco UV equipment with Trojan.	Regulatory and Operations	3 rd UV channel passed its performance test and has been operating without incident. Have requested Trojan to make some programming changes to improve system operation.	Will test use of radar level sensor in one UV channel.
4	Extreme wet weather - high flow discharge and permit exceedance on 5/1/14	Perform an Infiltration and Inflow (I/I) Study to identify and remove extraneous flows caused by rainfall and high groundwater	Regulatory and Operations	Phase II SSES (CCTV, manhole inspections and smoke testing) and Phase 1 sewer rehabilitation for smaller diameter sewers have been completed.	Rainfall from 3:00 pm Thursday, 7/8 thru 10:30 am Friday, 7/9 totaled 8.15 inches at the plant, resulting in widespread flooding of City streets south of I-95. Flows at the plant exceeded the raw sewage pumping capacity of 55 mgd, surcharging the sewer system, with some sanitary sewer overflows.

5	Reduce energy costs	Evaluate and implement energy conservation measures (ECM)	Operations and Financial	Received payment of Eversource cash incentive for LED lighting and UV system upgrade.	Eversource to provide \$469,695 cash incentive for energy efficiency measures used in Primary and Secondary Treatment Improvements
6	Personnel Safety	Comply with requirements for arc flash protection.	Operations		Siemens has completed electrical preventive maintenance (EPM) on electrical switchgear at treatment plant, except for the Operations Building, and four (4) pump stations.
7	Sludge dryer before explosion was operating close to its capacity and there are limited options for disposal of sludge cake due to incinerators operating at their capacity and landfills that are closing, or won't accept sludge cake.	SWPCA needs to evaluate its future options for sludge processing and disposal and develop a long term Sludge Management Plan.	Operations	Have completed end use market survey and prepared weighting criteria for evaluation of the world of options for sludge treatment and disposal. Hazen presented world of options on July 6 th .	Will complete Task 1 and 2 of study by this summer with Task 3 and 4 to be done in FY22. Expect 16 months to complete the Sludge Management Plan (summer of 2022).
8	WPCF evaluations and improvements	Study, design, and construct WPCF improvements to replace aged equipment and increase operations and energy efficiency.	Regulatory and Operations	One (1) new mechanical screen, two (2) new raw sewage pumps and three (3) new aeration blowers are now in service.	Work is focused on installing the remaining 2 mechanical screens, 3 raw sewage pumps and dissolved oxygen control system for the new blowers Project to be substantially complete in October
9	Perna Lane Area is in need of sanitary sewers due to failing septic systems.	Evaluate cost effective options for providing sanitary sewers to the Perna Lane Area that avoid deep sewers (in rock) in High Ridge Road.	Operations	Most cost effective option will include a combination of gravity and low pressure sewers.	Project is currently on hold pending receipt of petition signed by 2/3 of property owners in favor of the sewer project.