

### Stamford WPCA Top Issues (1/24/22)

No.	Issue	Action Description	Impact	Status	Schedule
1	COVID-19 Outbreak	Take action to reduce impact on SWPCA Operations and Finances	Operations and Financial	Eight (8) positive COVID cases since last Board meeting. All have returned to work. 94% of staff is fully vaccinated.	Unvaccinated staff are tested weekly by City contractor.
2	Primary sludge pumping and dewatering equipment is aged and in need of replacement. Equipment in primary clarifier No. 1 is severely corroded and needs to be replaced.	Upgrade the primary sludge pumping and dewatering system with new equipment to improve primary sludge pumping and grit removal. Replace the equipment in Primary Clarifier No. 1	Increase system reliability and improve grit removal to protect downstream equipment.	Adding replacement of equipment in Primary Clarifier No. 1 to design drawings and technical specifications. .	Advertised for bids for construction. Had pre bid walk through on 1/21/22. Start construction in summer 2022
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	Had two (2) UV dose exceedances since last Board meeting believed to be related to cold weather Effluent gate on one UV channel malfunctioned and the level sensor in another channel failed.	New UV system is substantially complete. Only a few items on punch list remain.
4	Extreme wet weather - high flow discharge and permit exceedance on 5/1/14. Record rainfall on 7/9/21 and 9/1/21 caused plant flows that approached or exceeded plant capacity.	Perform an Infiltration and Inflow (I/I) Study to identify and remove extraneous flows caused by rainfall and high groundwater	Regulatory and Operations	Have completed rehabilitation of sewers in Pilot and Phase I sub areas. Have completed sewer system evaluation surveys (SSES) in Phase II subareas.	Phase II sewer subareas next on priority list have been selected for rehabilitated in FY 21-22 with CDM-Smith to provide design. Will re-examine past smoke and dye test results to determine that all inflow sources have been removed.
5	BOR Resolution No. 4113 calls for planning for upgrading City drainage infrastructure and the WWTF to cope with extreme weather events.	Coordinate with City Engineering to evaluate impact of extreme weather events on the Hurricane Barrier and three (3) pump stations. Evaluate impact on SWPCA's pump stations and WWTF	Regulatory and Operations	Met with Dir of Operations and City Engineer on 1/20/22 to begin discussion on developing an action plan.	Will attend meeting of BOR Operations Committee on 1/31/22 to discuss SWPCA's response to BOR Resolution No. 4113.

6	Personnel Safety	Comply with requirements for arc flash protection.	Operations	Siemens has completed electrical preventive maintenance (EPM) on the electrical switchgear at the treatment plant.	Data collected by Seimens from the EPM will be used by Tighe & Bond to complete the arc flash analyses and MCC panel labeling.
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 screening of the world of options for sludge treatment and disposal.. Met on December 6 <sup>th</sup> to review the mass balance and energy use of the seven (7) short listed alternatives	Hazen working on developing the life cycle costs for selected alternatives (Task 4). Expect to complete the study by this summer.
8	WPCF evaluations and improvements	Study, design, and construct WPCF improvements to replace aged equipment and increase operations and energy efficiency.	Regulatory and Operations	All three (3) new mechanical screens, five (5) new raw sewage pumps and three (3) new aeration blowers are now in service. Screenings grinder, washer and compactor and septage receiving station have been placed in service.	Upgrade of Raw Sewage Pump Station to be substantially complete by mid-February. Work remaining to be done includes painting of interior walls and coating of the first floor.
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.