

Stamford WPCA Top Issues (2/28/22)

No.	Issue	Action Description	Impact	Status	Schedule
1	COVID-19 Outbreak	Take action to reduce impact on SWPCA Operations and Finances	Operations and Financial	No 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 degritting 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 degritting 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. Bid date is March 10 th . 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	No UV dose exceedances since last Board meeting.	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	Prepared talking points for meeting with BOR Operations Committee on March 3 rd .	Will coordinate with Matt Quinones, Director of Operations and City Engineering to develop a short and long term action plan for SWPCA.

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	Hazen has completed developing the mass balance, energy use and life cycle costs of the seven (7) short listed alternatives.	Hazen to conduct a workshop on March 10 th to refine the selection criteria and further discuss the most viable alternatives.
8	WPCF evaluations and improvements	Study, design, and construct WPCF improvements to replace aged equipment and increase operations and energy efficiency.	Regulatory and Operations	The Secondary Treatment and UV Disinfection Improvements are substantially complete with all equipment now in service.	Upgrade of Raw Sewage Pump Station will soon be substantially complete. Raw sewage pumps and shafts have experienced vibration at various pump speeds. Vibration testing has been completed and the report on test results is being reviewed for corrective action.
9	Providing sanitary sewers to Perna Lane Area	Evaluate cost effective options for providing sanitary sewers to the Perna Lane Area.	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.	Will attend BOR Operations Committee meeting on March 3 rd to answer questions on the project raised by committee members.