

### Stamford WPCA Top Issues (11/12/20)

No.	Issue	Action Description	Impact	Status	Schedule
1	COVID-19 Outbreak	Take action to reduce impact on SWPCA Operations and Finances	Operations and Financial	3 SWPCA staff currently home under quarantine. Operators, mechanics and lab staff are all following normal work schedule. Admin staff working on site and home in staggered schedule.	Will adjust staffing on site based on response to pandemic and direction by Governor and Mayor.
2	Sludge dryer had an explosion on 8/1/19 that resulted in damage to the dryer equipment and building. Currently hauling sludge cake at additional cost until dryer can be repaired and put back in service.	Need to replace damaged dryer equipment and building window, doors, skylights and masonry damaged by explosion.	Operations and Financial	Dryer equipment ran for 10 days to go through trouble shooting and performance tests. Need to adjust settings on breakers for dryer drum and IDI fan from arc flash study.	Building windows and skylights to be installed week of 11/16.
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	Two (2) new UV channels have been in service since 8/1/20. Most recent issue with water level sensors appears to be resolved by moving level sensor to center of UV channel.	Will relocate level sensor in Channel 2 and let Channel 1 run in auto to confirm that new location of sensor resolved problem.
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) have been completed.	Phase I (A) sewer rehabilitation by Kenyon Pipeline is ongoing.
5	Reduce energy costs	Evaluate and implement energy conservation measures (ECM)	Operations and Financial	Installation of interior LED lighting is complete.	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 started to perform electrical preventive maintenance (EPM), starting with sludge dryer electrical switchgear.
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	Technical Committee has reviewed and approved Hazen's proposed scope of work and fee. Agreement to be presented to Board at November meeting.	Expect 16 months to complete the Sludge Management Plan.
8	WPCF evaluations and improvements	Study, design, and construct WPCF improvements to replace aged equipment and increase operations and energy efficiency.	Regulatory and Operations	Work on aeration tanks is nearing completion. New 1500 kW generator is now online. Completed Install of 3 – 18" dia temporary force main piping for bypass pumping. Work in Raw Sewage Pump Station has begun.	Third channel for UV will likely be delayed to June 2021. Expect some delays in meeting overall project completion by June 2021 due to equipment delays caused by COVID-19.
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 will proceed upon receipt of petition signed by 2/3 of property owners in favor of the project	Project is currently on hold pending receipt of petition signed by 2/3 of property owners in favor of the sewer project.