

Stamford WPCA Top Issues (2/19/21)

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 cases since last Board meeting. 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. SWPCA staff to be vaccinated as essential workers in phase 1b, likely in March or April.
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 repairs have been completed and dryer has been in operation since the end of December. Dryer production of dry tons of solids per day equals or exceeds the production prior to the explosion.	.
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	Erratic readings by the channel level sensor in Channel 1 occurred on 1/29/21 causing an exceedance of low UV dose. Cause of erratic readings is still under investigation by Trojan.	C H Nickerson is continuing work on the 3 rd UV channel with completion expected by May..
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.	Completion of Phase I (A) sewer rehabilitation by Kenyon Pipeline is suspended until the weather improves.
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 is continuing performing electrical preventive maintenance (EPM) on electrical switchgear at treatment plant and four (4) pump stations. Completed EPM of switchgear for sludge dryer.
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	Had kick-off meeting with Hazen's project team and Technical Committee on February 1 st .	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	Work inside aeration tanks is complete. Work is now focused on installing new electrical switchgear for the new aeration blowers, and work on the Raw Sewage Pump Station (RSPS). Bypass pumps and temporary piping are being used to pump from the influent sewer directly to the Primary Settling Tanks or Primary effluent channels to allow work to continue inside RSPS. .	C H Nickerson has advised they will request an additional 3 to 4 month time extension to complete the project (originally by June 2021) due to equipment delays caused by COVID-19. While doing startup of the bypass pumps, we sprung a leak in the existing 42" diameter force main from RSPS to the Primary Clarifiers. One pipe section in the force main was found to have a crack along the bottom of the pipe. The pipe section will be replaced and the broken pipe sent to a testing lab to determine the cause of the break.
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.

