

### Stamford WPCA Top Issues (1-27-20)

No.	Issue	Action Description	Impact	Status	Schedule
1	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.	Cost of repairs is estimated to be as high as \$10 million and will take 12 months to complete. Most costs to be paid by insurance.	Demolition of damaged dryer equipment was completed by 11/28. Shop drawings for replacement equipment have been reviewed and comments provided to Andritz.. Andritz submitted design of new safety equipment.	Replacement equipment damaged by explosion to be released for fabrication by Andritz by the end of January. Tighe & Bond completing bid documents for repairs to the Dryer Building Dryer by early February. Dryer repairs to be completed by mid-August.
2	UV System Performance and Permit Exceedances	Install temporary liquid chlorine disinfection and dechlorination to provide effluent disinfection if the UV system malfunctions.	Regulatory and Operations	A loose connection that caused UV exceedance on 9/3/19 has been fixed. No exceedances since.	Construction of two (2) new UV channels to be completed by June 2020 as part of the Preliminary, Secondary and Disinfection Treatment Improvements.
3	Odor Control	Minimize odors off site at treatment plant	Operations	All odor control scrubbers are in service. Sludge trailers have increased odors onsite.	Replace the media in odor control scrubber for the sludge dryer this winter/spring while the dryer is out of service for repairs.
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 I SSES (CCTV, smoke testing) and Pilot Area Sewer Rehabilitation have been completed. Met with CTDEEP on 1/21 to review I/I Removal Program and Phase II SSES Report.	CDM Smith has completing the design of sewer and MH rehabilitation identified by Phase I SSES. Phase 1A sewer rehabilitation to be done this winter/spring.
5	Reduce energy costs	Evaluate and implement energy conservation measures (ECM)	Operations and Financial	Eversource has advised that the energy rebate for the LED Lighting, two (2) banana blade mixers, and UV System Upgrade will increase from \$121,030	Energy Resources to install interior LED lighting in Administration, Operations, Sludge Processing and Chemical Building this winter.

				to \$283,658 by combining the three projects together.	
6	Personnel Safety	Comply with requirements for arc flash protection.	Operations	Dyke Lane PS electrical upgrade project has been completed.	Interviewed two (2) firms who submitted proposals for performing the electrical preventive maintenance (EPM). Third interview scheduled for 2/5/20.
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	Six (6) firms submitted qualifications in response to the RFQ to prepare a Sludge Management Plan.	Technical Committee will meet the week of 2/3 to review the qualifications and short list firms to be interviewed.
8	WPCF evaluations and improvements	Study, design, and construct WPCF improvements to replace aged equipment and increase operations and energy efficiency.	Regulatory and Operations	C H Nickerson continuing work on the two (2) new UV channels and is starting work on the new 2000 kW Generator.	Two (2) new UV channels to be completed by June 2020. Work on RSPS to begin in spring. Overall construction to be complete by June 2021.
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	Tighe & Bond has completed the evaluation of alternatives for sewerage the Perna Lane Area. Presented alternatives at public meeting on 12/11/19.	Technical Committee has recommended that the District Representatives conduct a survey of the homeowners in the project area to determine the need for sewers and whether the homeowners want sewers.
10	Have a number of open positions that are affecting adequate treatment plant staffing for 24/7 operation.	Fill open positions for Plant Supervisor and Shift Foremen (2).	Regulatory and Operations	Filled one (1) open Shift Foreman position by promoting a Class III Operator. Hired two (2) Operators in Training to replace the Class III Operator and an Operator who retired.	Greg Chartier, an HR consultant, has been retained to assist in addressing personnel issues and filling the open positions.

