



# **2022 ANNUAL TRADE FAIR AND WWTP TOUR ANNOUNCEMENT**

Dear CPWQA Members and Guests:

The CPWQA Board of Directors and Trade Fair Committee are pleased to announce that the 2022 Trade Fair will be held on **Friday, September 9, 2022** at the **Springettsbury Township Waste Water Treatment Facility, 3501 N. Sherman St. Ext., York, PA 17406**. This year's Trade Fair will include a tour of the Springettsbury Township Waste Water Treatment Facility.

CPWQA By-Laws state that the objective of the association shall be the advancement of the knowledge of design, construction, operation, and management of municipal and industrial wastewater treatment facilities and the encouragement, through meetings of the members and otherwise, for the exchange of information and experience. The Trade Fair supports this objective by assembling representatives of manufacturers, consulting engineers, and service providers with the specific intent of sharing their knowledge, insight, and experience with you. CPWQA has been approved by DEP to award one (1) contact hour to those who register in advance and attend the WWTF Tour.

Springettsbury Township operates a 15 mgd wastewater treatment plant that serves nine municipalities in York County. The original plant was constructed on the site in 1968 and was expanded in 1982. A 2011 upgrade provided Biological Nutrient Removal without constructing new tanks by means of adding an integrated fixed film activated sludge (IFAS) system. Construction began on the most recent project in 2018, which featured miscellaneous upgrades and equipment replacement.

A significant part of the project was replacement of the original raw sewage pumps, which had been in service for over 40 years. The new pumps provide additional capacity and redundancy to the system. The horizontal dry pit immersible pumps convey 8,600 gallons per minute and are powered by 200 HP motors. A bypass pumping system was installed. The project design featured permanent installation of bypass valves and bypass connection allowing future bypassing to be achieved with minimal effort. Not long after installation, the new pumps were tested by the heavy rainfall of Hurricane Ida and handled the task with ease.

The recent project included upgrades to an existing septage receiving station. The new equipment can unload a 5,000 gallon truck in 8 minutes, screen the waste, remove grit and, measure actual septage discharged.

Also added was a system specifically designed to accept and treat fats, oils and grease. An existing sludge holding tank was converted to a grease digestion tank and two 1500 gpm pumps were installed in the control building basement. The pumps recirculate the grease and a motorized valve is used to divert flow from the mixing nozzles to a venturi aerator in the grease tank, keeping the contents mixed and the aerated. Bio-generators deliver grease conditioning bacteria to the tank while a magnesium hydroxide feed system adds alkalinity to the mixture. The acceptance of grease increased the plant BOD so a fifth 7,000 scfm blower was installed to add air to the treatment process.

The schedule for this year's event includes the following:



**CPWQA**  
Central Pennsylvania Water Quality Association

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## **SCHEDULE OF EVENTS**

<b>8:00 – 9:00 AM</b>	<b>BREAKFAST:</b>	A buffet style breakfast will be served on-site adjacent to the exhibitors.
	<b>THANKS TO:</b>	BUCHART HORN for the donation for the buffet breakfast.
<b>8:00 – 2:00 PM</b>	<b>TOUR*:</b>	Springettsbury Township Waste Water Treatment Facility.
	<b>EXHIBITS:</b>	Vendors will be exhibiting their products and services.
<b>11:45 – 1:00 PM</b>	<b>LUNCHEON:</b>	A buffet style lunch will be served on-site adjacent to the exhibitors.
<b>1:00 – 1:30 PM</b>	<b>PRESENTATION: SPEAKER:</b>	Springettsbury WWTP; Past, Present, and Future. Paul Gross PE, BUCHART HORN.
<b>1:30 – 2:00 PM</b>	<b>CPWQA:</b>	Business meeting, door prize drawings, and (2) \$200 gift cards for the Meet the Exhibitors Event will be drawn at 2:30 PM along with other great door prizes!

**\*IF YOU REGISTER FOR THE DEP CONTACT HOUR, YOU MUST PRESENT YOUR DEP CLIENT ID CARD/CERTIFICATE AND A PHOTO ID AT THE CONTACT HOUR ATTENDANCE DESK IN ORDER TO RECEIVE CREDIT FOR THE CONTACT HOUR.**

**NOTE FOR PROFESSIONAL ENGINEERS: PEs ATTENDING WWTP TOUR WILL RECEIVE A CERTIFICATE FOR 1 PDH.**

## **DIRECTIONS**

**Local Address for MapQuest or other electronic mapping program:**

Springettsbury, WWTF  
3501 North Sherman St. Ext.  
York, PA 17406.