



CSWEA  
**Webinar**  
Series

**Wednesday – January 8th, 2025**

**11:00 AM to 12:00 PM CST**

## **Commissioning of Biological Phosphorus Facilities**

This presentation focusses on how optimization efforts and training during commissioning can create collaboration opportunities to improve effluent quality. The presentation will use case studies related to biological phosphorus removal to demonstrate the positive impact of these collaborative efforts. A case study illustrating how a facility was operated in both a traditional and side stream biological phosphorus removal was able to identify a hybrid mode of operations that has been demonstrated to be the best performing mode of operation at this facility.

### **Agenda**

**11:00 AM** - Introduction

**11:05 AM** - Presentation

**11:45 AM** - Q&A

**12:00 PM** - Adjourn

---

### **CONTINUING EDUCATION**



**1.0 CEUs** for Operators in Illinois, Wisconsin & Minnesota.

Operator ID/Quiz required for webinar.

**1.2 PDHs** for all Professional Engineers

---

### **COST**

\$25 – Members (Discount Code: CSWEA)

\$35 – Non-Members

\$10 – Student (Discount Code: Student)

\$10 – International (Discount Code: International)

**REGISTER [HERE](#)**

 **GoToWebinar**

CSWEA

**Webinar** Series



CSWEA  
**Webinar**  
Series

**PRESENTED BY:**



**Troy Larson**  
**WW Operations Specialist**  
**Strand Associates**

Troy Larson is a Wastewater Operations Specialist for Strand Associates, Inc. in Madison where he works on projects as a troubleshooter, trainer, planner and performing operability reviews for process designs. Troy has a biology degree from the University of Wisconsin - Whitewater and is a certified wastewater operator in the State of WI. Troy is active in CSWEA and Wisconsin Wastewater Operators Association (WWOA). He is currently the President of CSWEA, is a past WI Section Chair and has been active on the WI Section Operations Committee for nearly 20 years.