CSWEA Webinar Series

Thursday – March 27, 2025

11:00 AM to 12:00 PM

Microaerating Anaerobic Digesters Provides Benefits for Biogas Quality

In-situ digester microaeration is an emerging solution for biogas hydrogen sulfide (H2S) control that offers advantages including reduced chemical inputs. In this process, small quantities of oxygen are introduced directly into an anaerobic digester to facilitate conversion of hydrogen sulfide to elemental sulfur via sulfur oxidizing bacteria. The use of microaeration for hydrogen sulfide control has been described at bench scale and has been implemented to a limited extent in full-scale applications. However, little information exists on the viability of using microaeration for hydrogen sulfide control in anaerobic digesters at municipal wastewater treatment facilities. This presentation describes a full-scale microaeration case study, where various impacts to the digester were evaluated including biogas quality and yield, volatile solids destruction, impacts to digestate thickening, and changes in digestate chemistry.

Agenda

11:00 AM - Introduction
11:05 AM - Presentation – Matt Seib
Madison Metropolitan SD
11:45 AM - Q&A with presenter
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)
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PRESENTED BY:

Matt Seib
Assistant Operations Manager – Madison MSD

Matt Seib is the assistant operations manager at the Madison Metropolitan Sewerage District. He has 10+ years of experience in wastewater process engineering research and holds a PhD in civil engineering with a specialization in anaerobic biotechnology. He is also an adjunct civil engineering faculty member at Marquette University.