



May 15th Dinner

Meeting

Optimizing Energy and Emissions: Aeration Off-Gas Testing Case Studies

Thursday, May 15, 2025

DESCRIPTION:

Aeration is the heartbeat of biological wastewater treatment, driving both treatment efficiency and energy consumption. Off-gas testing offers a direct window into aeration performance, revealing opportunities for optimization while also quantifying greenhouse gas emissions like nitrous oxide (N₂O). This presentation will share key findings from real-world off-gas testing campaigns, uncovering practical strategies to enhance aeration efficiency, reduce energy costs, and mitigate emissions.

Learning Objectives:

- Understand the applications of off-gas testing for wastewater treatment.
- Identify strategies to improve aeration efficiency and energy savings.
- Understand the impact of nitrous oxide emissions from BNR processes on carbon footprints and explore mitigation strategies.

SPEAKER



Sam Reifsnyder is a Wastewater Technologist and the R&D NorCal Lead at Carollo. With nine years of experience addressing aeration performance, energy optimization, and greenhouse gas emissions mitigation, Sam now leads Carollo's off-gas testing consulting services, supports local projects transitioning to biological nutrient removal (BNR), and coordinates national programs that integrate innovative renewable energy systems into the wastewater sector.

Schedule

6:00pm Social Gathering
6:30pm Dinner
7:00pm Presentation
8:00pm Door prizes

Back Forty Texas BBQ

100 Coggins Drive
Pleasant Hill, CA 94523

*Dinner will be served
prior to presentation.*

Costs*

\$50 members
\$70 non-members
\$30 students

* Early registration discount of \$5.00 for registrations through May 12th

Earn one contact hour!

RSVP here:
<https://bit.ly/SFBSDinnerMeeting2025>

