

ARWA TRAINING AGENDA

Wastewater Nutrient Removal/Microbiology, Emerging Contaminants
Montgomery, AL - Dec 12, 2023

Time: 8:00 AM - 12:00 PM
Location: ARWA Training Room
2576 Bell Rd
Montgomery, AL 36117



Agenda Items

From	Until	Description - Provider
08:00 AM	10:00 AM	Nutrient Removal(Nitrification/Denitrification) This session will examine the key nitrogen transformations of nitrification and denitrification mediated by heterotrophic and nitrifying bacteria. Nitrifying autotrophs facilitate the nitrification process, oxidizing ammonia to nitrite and subsequently to nitrate. Denitrification then allows facultative heterotrophs to reduce nitrate in a stepwise fashion to nitrous oxide and nitrogen gas. Mike Baumgartner/ARWA
10:00 AM	12:00 PM	Emerging Contaminants This session will provide valuable information of common contaminants found in wastewater, including pharmaceuticals, personal care products, diagnostic agents, detergents, antimicrobials, industrial chemicals, solvents, per- and polyfluoroalkyl substances (PFAS), and microplastics. The identification and analysis of these contaminants in wastewater matrices will be discussed. Furthermore, strategies and technologies for the effective removal and treatment of these contaminants will be presented. Participants in this seminar can expect to gain an understanding of current methods for detecting trace organic contaminants and emerging contaminants of concern in the environment. Additionally, they will learn about best practices and recent advances in wastewater treatment for contaminant removal and creating higher quality effluent. Tyler Grant/ ARWA

This Training Session will provide 4 Wastewater CEH's Subject to ADEM Approval.