ARWA TRAINING AGENDA

Aerobic Digestion, Activated Sludge, Nitrification
Marshall County, Boaz, AL - Oct 29, 2024

Time: 8:00 AM - 4:00 PM

Location: Boaz Public Library
404 Thomas Ave
Boaz, AL 35957

Agenda Items

From	Until	Description - Provider
08:00 AM	08:30 AM	**Welcome and Introduction** *Tyler Grant / ARWA*
08:30 AM	10:30 AM	**Aerobic Digestion** Aerobic digestion: Employs oxygen-loving microorganisms to break down organic waste and pathogens in wastewater, efficiently reducing sludge volume and eliminating odors. We'll explore how this vital technique revolutionizes wastewater treatment, particularly in managing excess activated sludge. We'll examine common operational challenges and equip attendees with strategies to overcome such hurdles. *Tyler Grant, Mike Baumgartner / ARWA*
10:30 AM	11:30 AM	**Activated Sludge** Activated sludge: A diverse community of microorganisms to remove organic pollutants and nutrients from wastewater. By aerating and circulating a mixture of wastewater and microbes, the system promotes the growth of beneficial bacteria that consume contaminants. This method effectively cleans large volumes of wastewater, producing clear effluent and recyclable biomass. *Tyler Grant, Mike Baumgartner / ARWA*
11:30 AM	12:30 PM	**Lunch** *On Your Own*
12:30 PM	01:30 PM	**Activated Sludge (Cont.)** *Tyler Grant, Mike Baumgartner / ARWA*
01:30 PM	03:30 PM	**Nitrification** Nitrification: Conversion of ammonia into less toxic nitrate through the action of specialized bacteria. We'll examine how nitrifying bacteria transform nitrogen compounds, reducing oxygen demand and protecting aquatic ecosystems from ammonia toxicity. The course will highlight the importance of nitrification in achieving stringent effluent standards and its role in the overall nitrogen removal process. *Tyler Grant, Mike Baumgartner / ARWA*
03:30 PM	04:00 PM	**Questions and Evaluations** *Tyler Grant / ARWA*

This Training Session will provide 7 Wastewater CEH's Subject to ADEM Approval. Training is provided as a joint effort of the Alabama Rural Water Association and US EPA.

2576 BELL ROAD • MONTGOMERY, ALABAMA 36117
334.396.5511 • email: arwa@alruralwater.com • fax 334.396.7090
Visit our website at **www.alruralwater.com**