

REINHOLD ENVIRONMENTAL®



2025 Reinhold/PCUG Round Table Presentation

Hosted by AEP and Buckeye Power

in The Hilton Columbus Polaris Hotel, Columbus, OH

on June 23-24, 2025

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Wastewater Troubleshooting

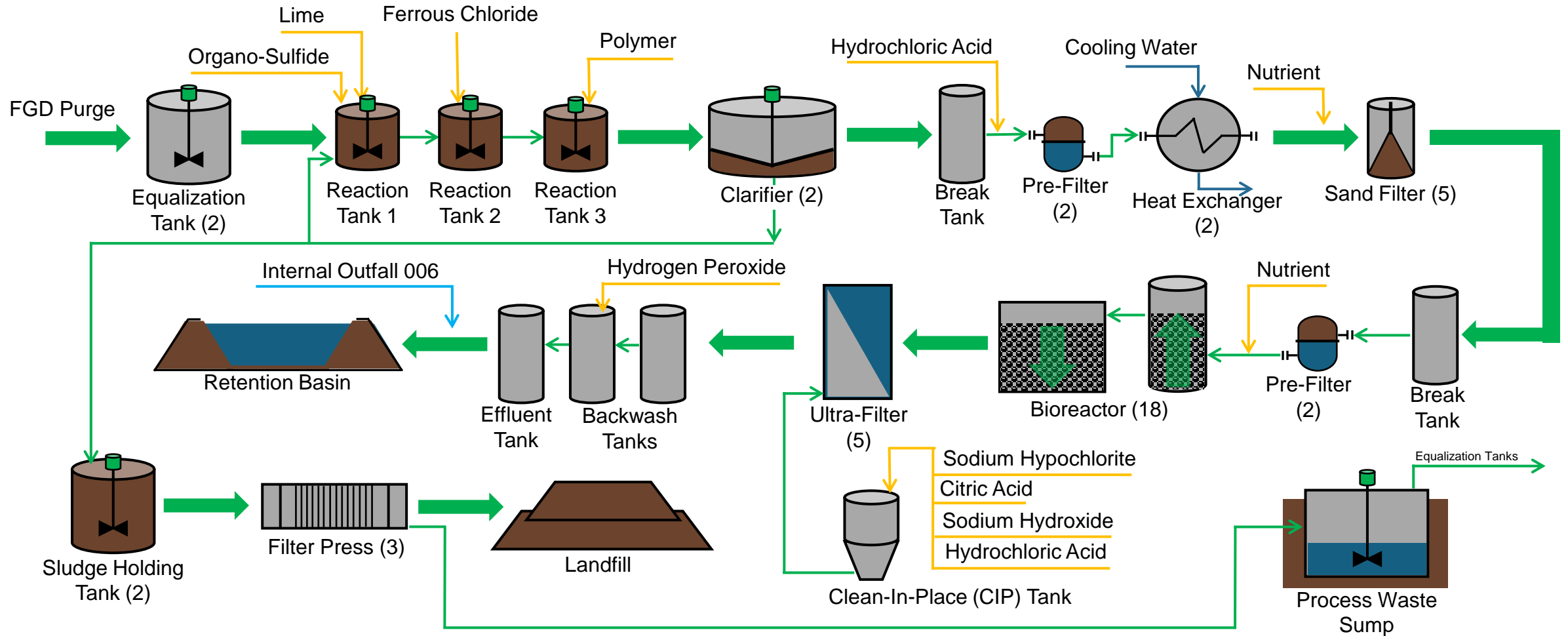
Ray Lidke

Wastewater SME



BUILDING A SMARTER ENERGY FUTURE®

WWTS Process Flow Diagram



Physical Chemical Treatment



Lime Slurry System



Chemical Feed



pH/ORP Probes

Lime Slurry System

- Clean and calibrate pH probes
- Perform Citric Acid wash on Lime Slurry System
- Remove Lime build-up in Reaction Tank



Lime Slurry System – Probes



Chemical Feed System

01

Perform
Drawdowns on
chemical pumps

02

Clean and
calibrate pH /
ORP Probes

03

Make sure DCS
Setpoints are
correct

Chemical Pump Skid



Chemical Feed System



Bioreactors



Bioreactor



**Clean and calibrate
pH/ORP Probes**



**Measure carbon
beds**



**Perform
Backwashes**



**Look at Sulfide
levels**

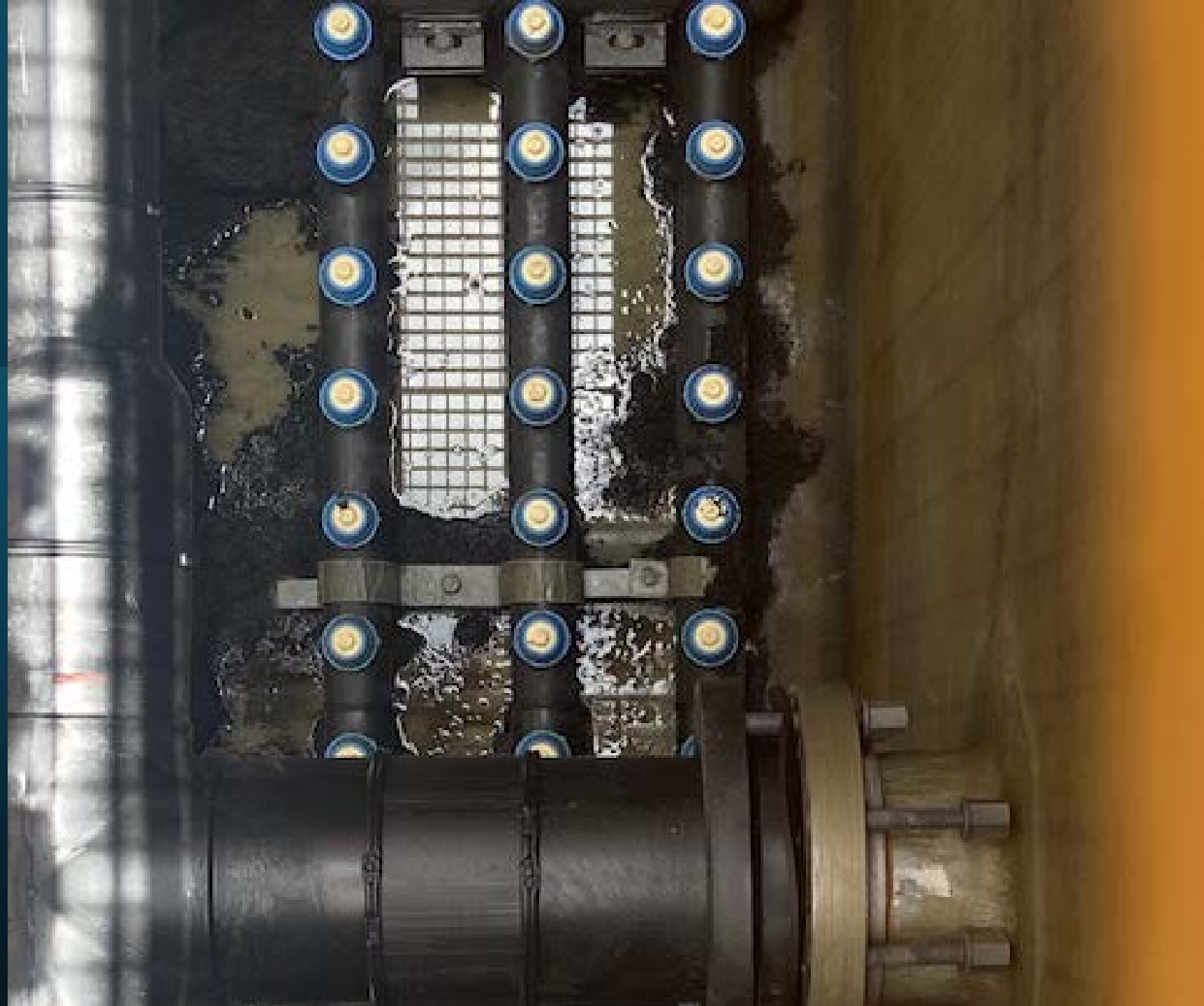
pH / ORP Probes



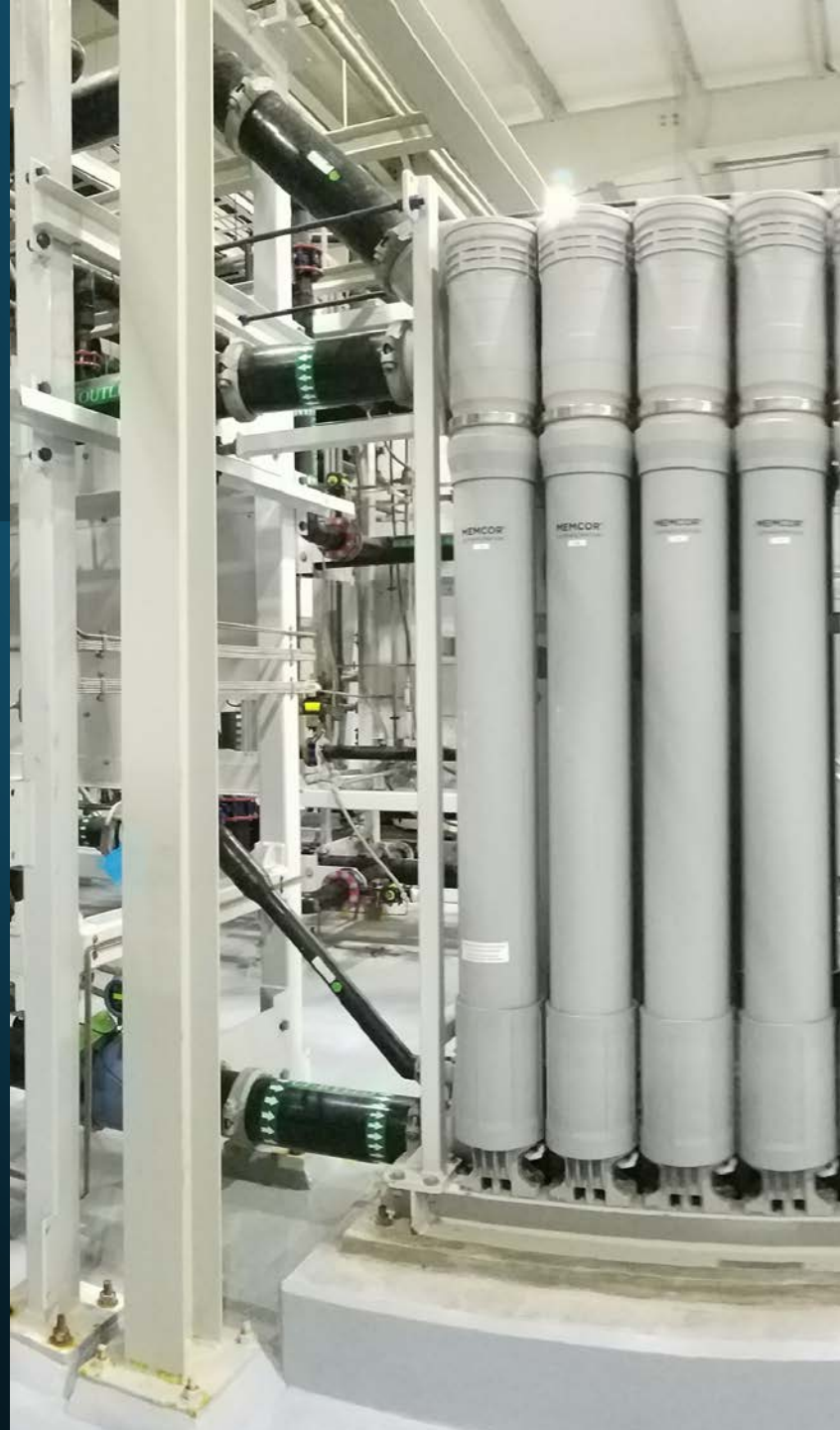
Biocell Backwash



Carbon Bed Level



Ultrafiltration



Ultrafiltration



**CIP and CEB
Cleaning**



Sulfides



Oxidation

UF Membrane Change Out



UF – Venting



Questions

