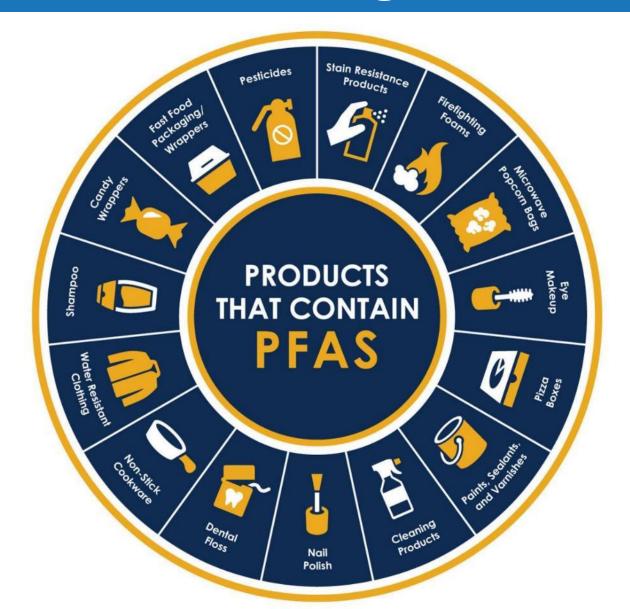
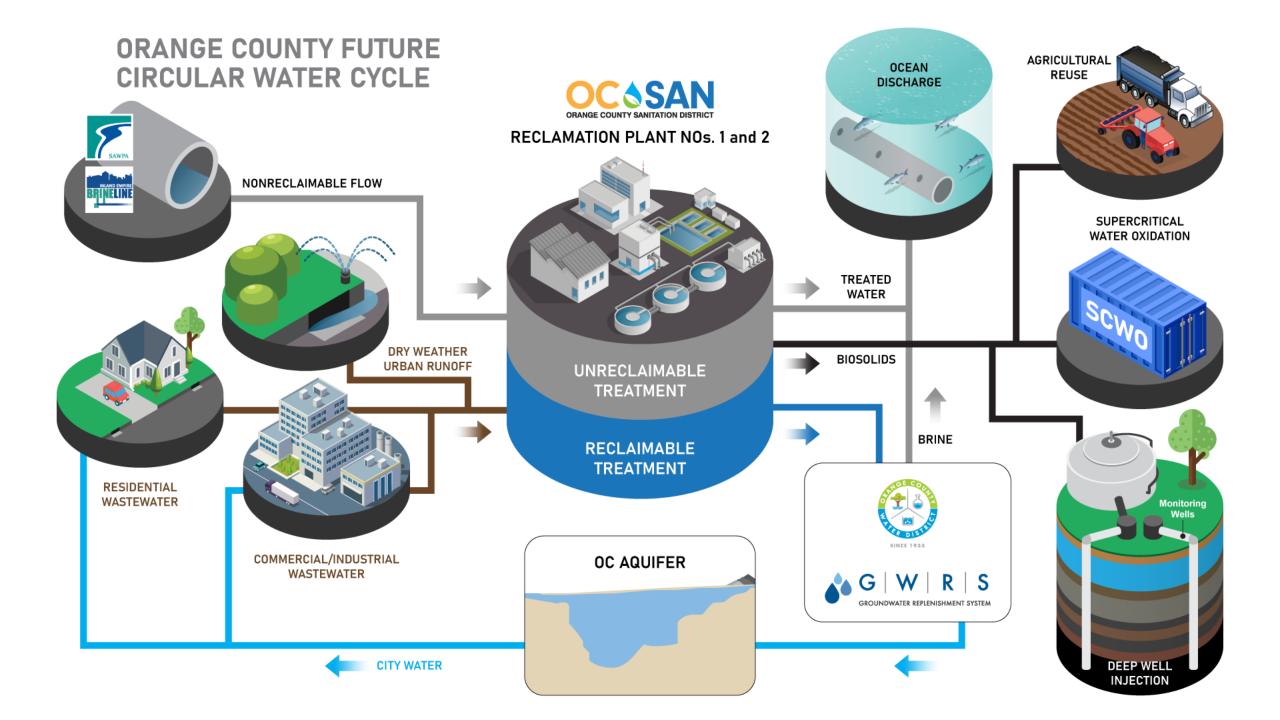
Orange County Sanitation District Supercritical Water Oxidation Project



Treatment Challenges

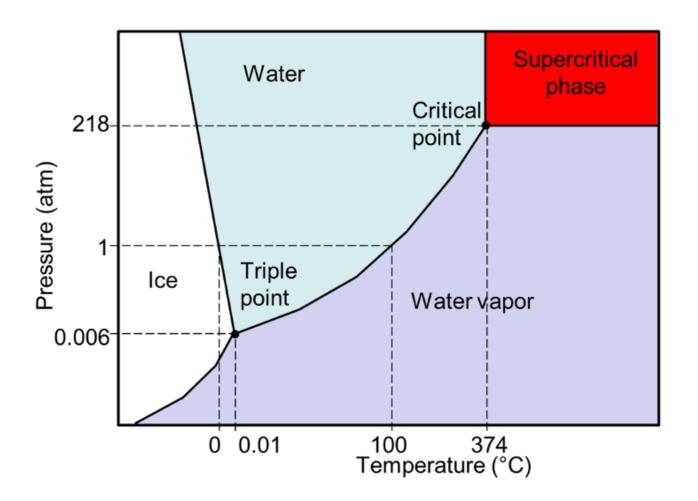


- PFAS
- Microplastics
- Methane
- Brine
- Electric Haul Trucks

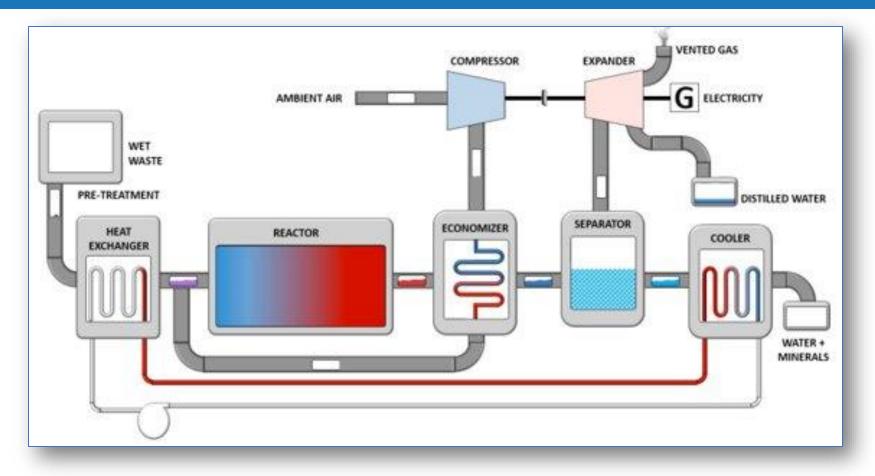


What is Supercritical Water

The properties of H2O change significantly above 3200 psi and 705 degrees Fahrenheit.

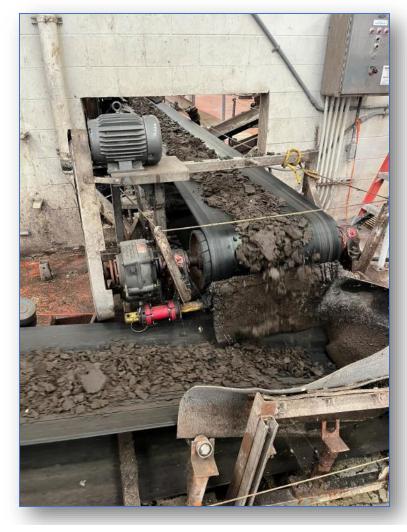


Tomorrow's Solids Solution



OC San and 374Water° have partnered to build a six-ton-per day demonstration project called AirSCWO Nix6. This process uses water at a high temperature and pressure to oxidize and break down complex compound materials like PFAS.

The Process...



Sludge Cake to the Preprocessing Unit



Preprocessed Sludge

The Process...

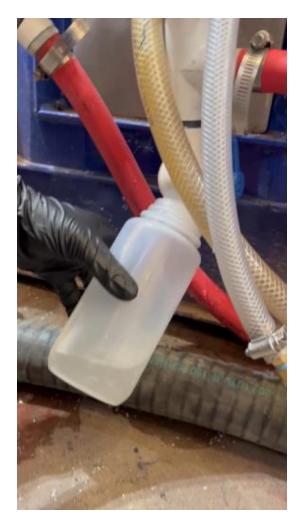


Effluent/Minerals/Influent

What's Left



Clean Gas Effluent



Effluent Water After Processing

Next Steps...

- Demonstrate the industrial machine at 6 tons/day
- Investigate 30 ton/day unit with energy recovery.
- How can we concentrate problem compounds?
- What path do we take to a 100 ton/day unit?
- What else might SCWO help with?
 - Leachate
 - Food waste
 - GAC/Ion Exchange Resin



Questions?

