



Orenco®

S Y S T E M S

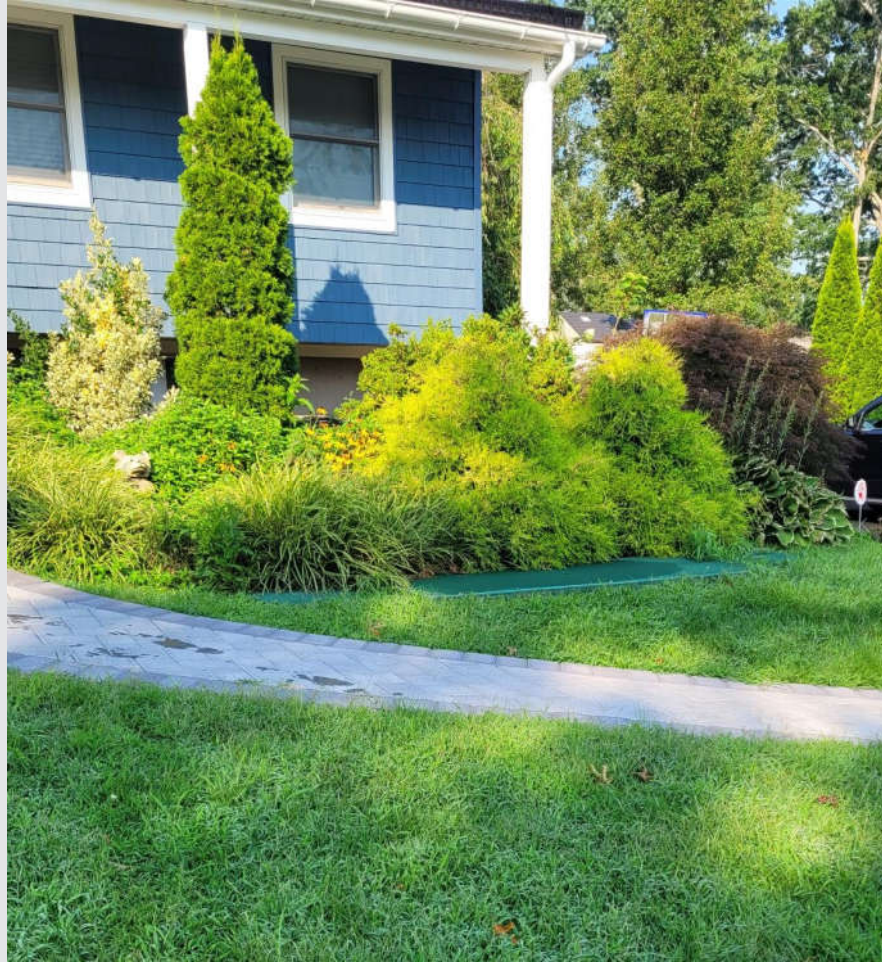
PROTECTING THE WORLD'S WATER

Orenco Systems® – History & Background

- Founded in 1981
- Headquartered in Sutherlin, OR
- 3 Separate Divisions-Orenco Water, Controls & Composites
- Pioneers in Textile Packed Bed Filter Wastewater Treatment Technology
- Continual R&D Focus on Treatment & Materials Technology Targeting Next Level Nitrogen & Phosphorus Removal



Our Solutions ...



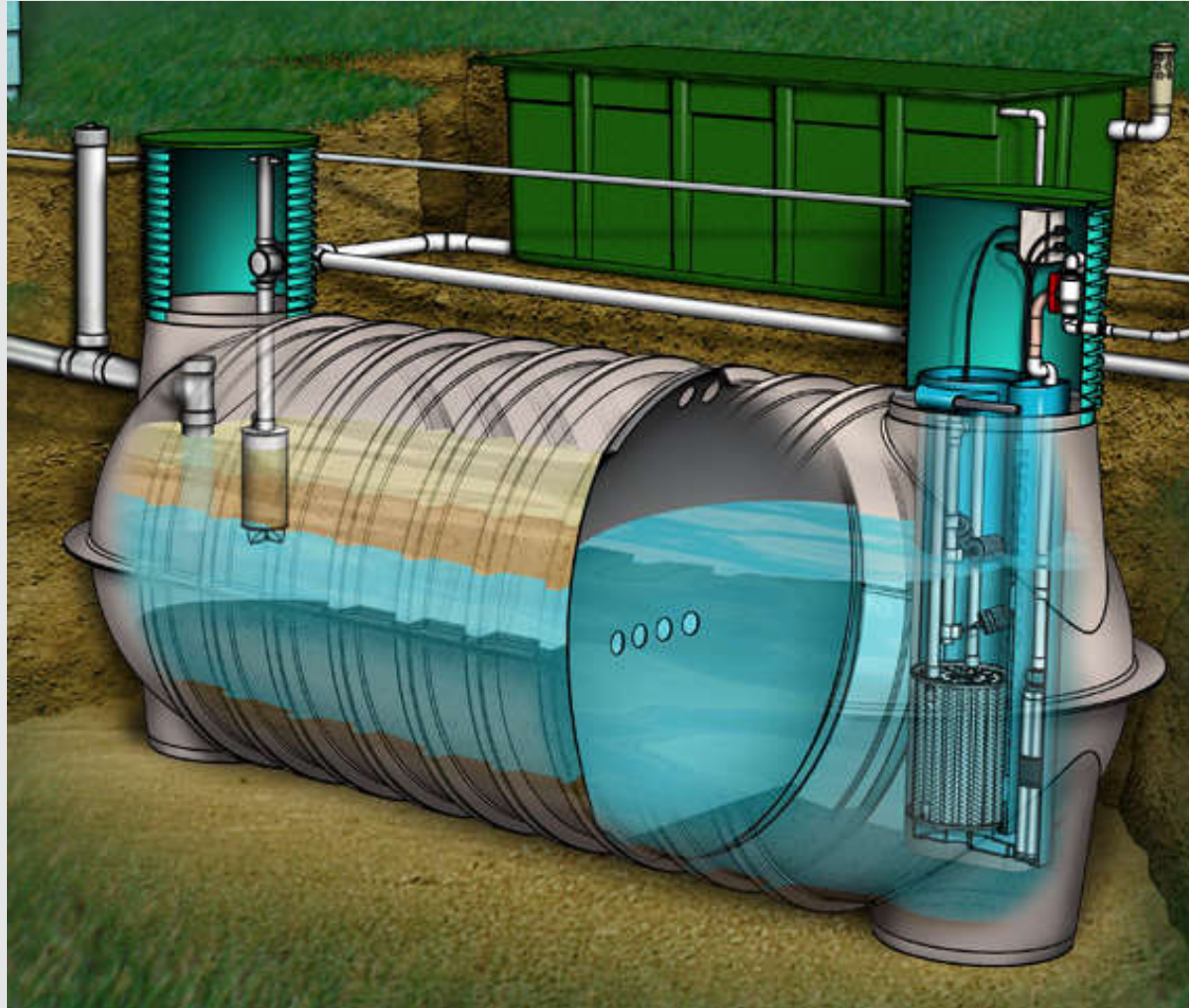
AdvanTex® Wastewater Treatment Systems

SUSTAINABLE SOLUTIONS

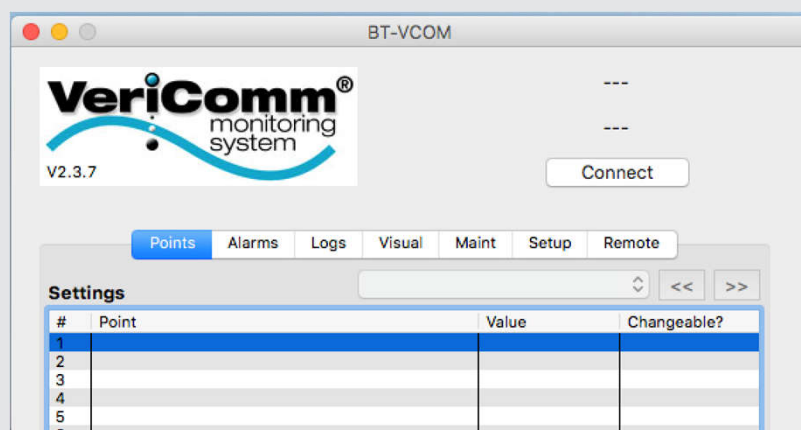
- Advanced Secondary Treatment of Commercial, Residential and Municipal Wastewater
- Recirculating Packed Bed Filtration Technology Categorized as Non-Submerged “Fixed Film” Treatment
- More Than 10,000 Units Installed in the Northeast Since 2000 Consistently Delivering 18 mg/l TN
- Major Advantages Include:
 - Dependable, sustainable treatment
 - Simple operation with easily adjustable controls
 - Untreated effluent cannot pass through to final dispersal
 - Low energy consumption (*less than 3kW / 1000 treated gallons*);
 - Low maintenance with minimal spare parts required
 - Strong Dealer and Service Provider network in place
 - Quiet and visually appealing
 - Superior long-term cost of ownership savings!
 - Backed by 40 years of industry experience



ADVANTECH AX20 MODE 3

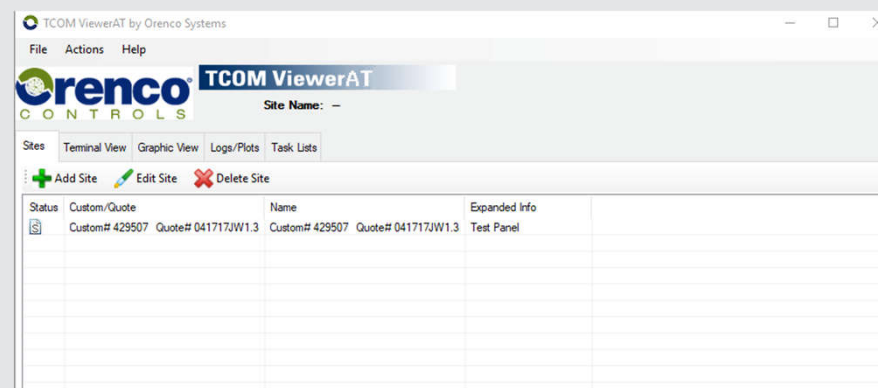


Orenco Controls Local Monitoring



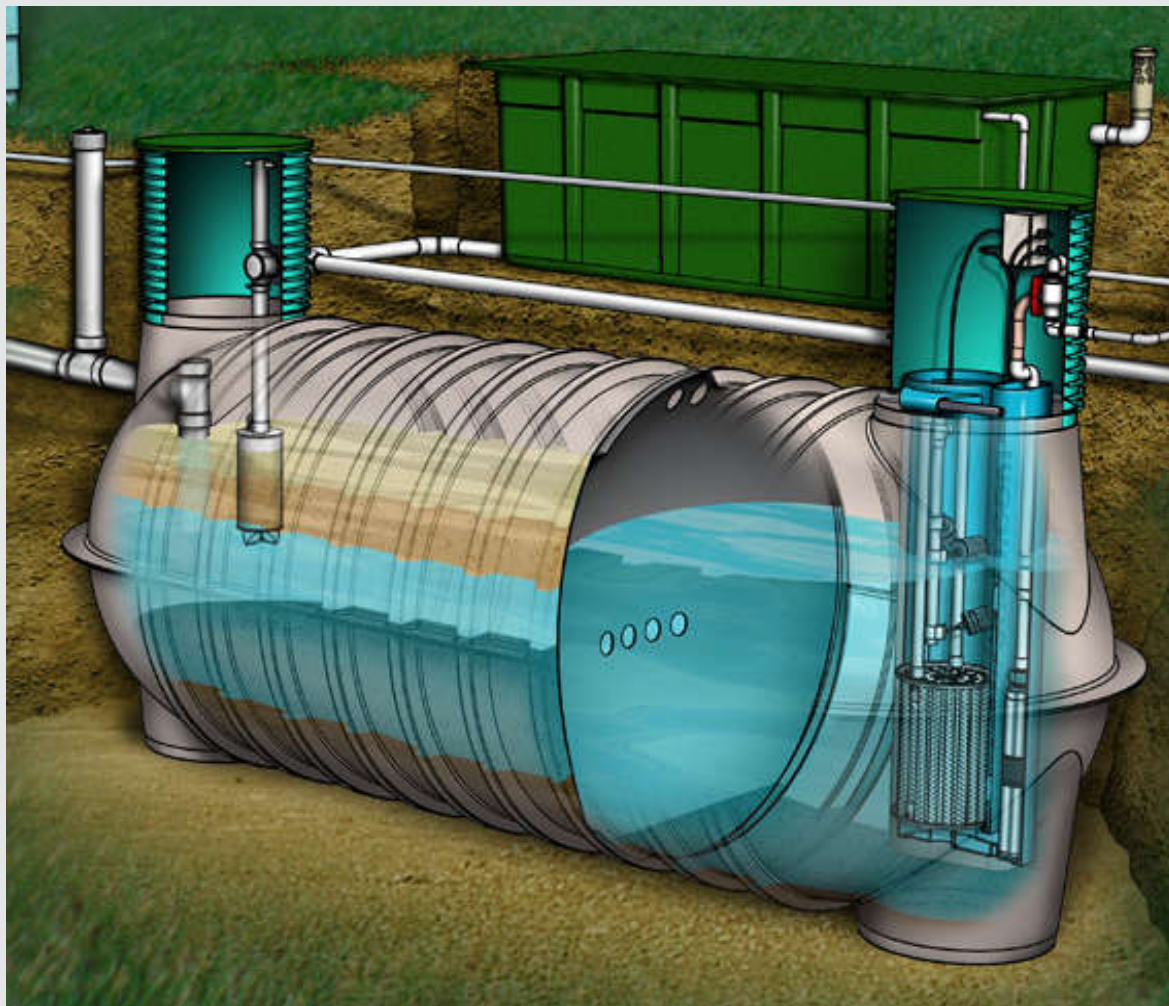
- TCOM™
 - Commercial systems
 - Local and remote connection
 - POTS or IP

- Vericommm®
 - Residential systems
 - Local connection



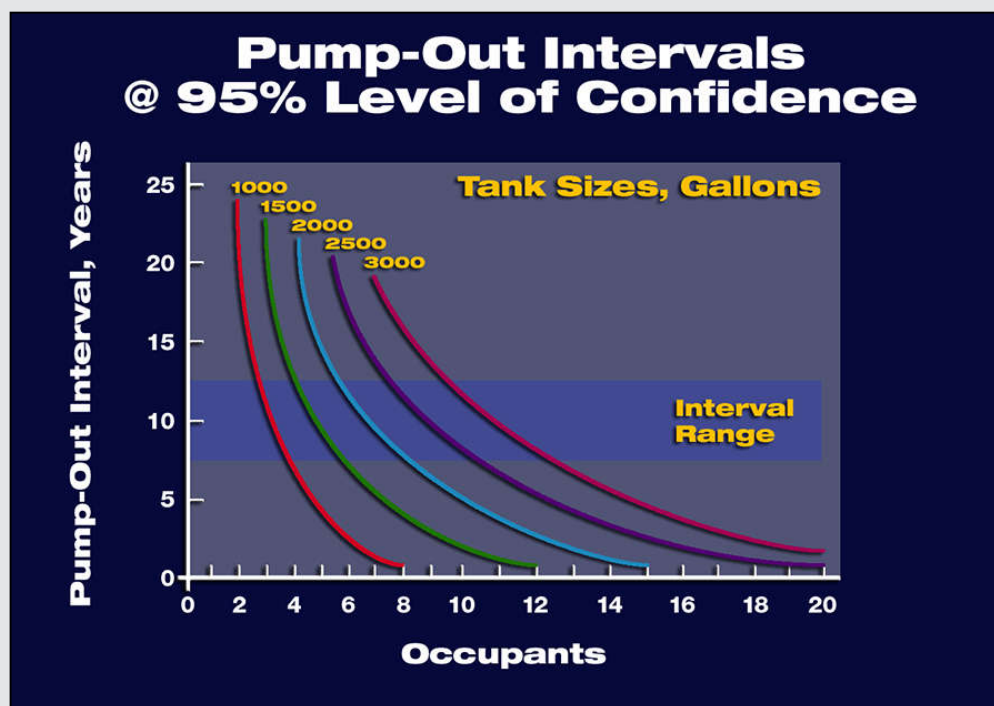
Routine Maintenance Focuses On ...

- Control panel
- Pump system
- Processing tank
- Textile filter
- Miscellaneous



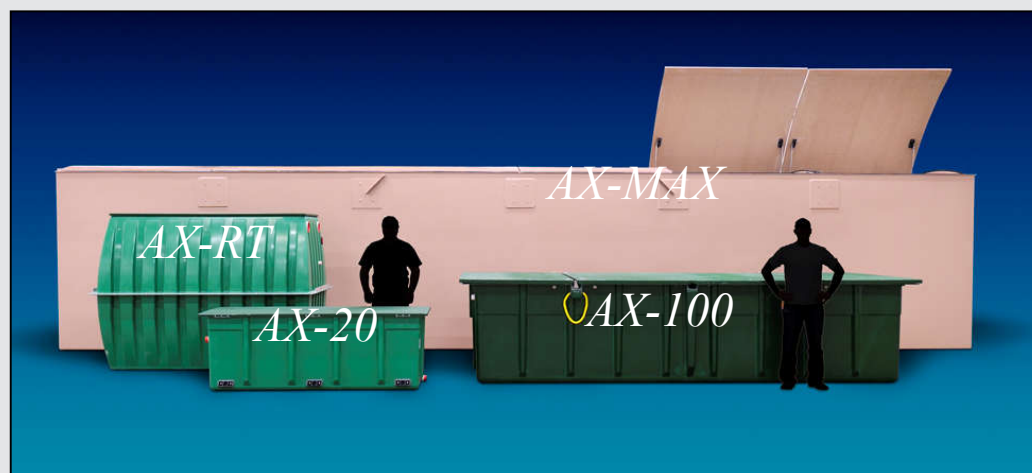
Pumpout Interval (In Years)

- Don't pump the tank unnecessarily
- Excessive pumping ...
 - Hinders digestion of solids
 - Increases maintenance costs



AdvanTex[®] Treatment System Cost 20 Yrs

- 4-Bedroom home, AX20 system installed \approx \$14,500
 - Design flow of 440 gpd
- Annual O&M w/sampling \approx \$2,000
- Annual O&M w/o sampling \approx \$300
- Tank Pump-outs 2 @ \$375 \approx \$750
- Annual electric cost (.23¢/kwh) \approx \$148
- Cost of ownership (2022 dollars) \approx \$27,610
- Cost per kilo of nitrogen removed \approx \$48.20



AdvanTex®

The Sustainable Solution for I/A OWTS Nitrogen Removal

Contact Jim Healy for design support

jhealy@orencosystems.com – (339) 222-6025



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