

Medora Corporation

Active Mixing in a 4MG Pre-Cast Concrete GST

Eliminate Stratification and improve overall water quality.

Topics: tank mixing, chloramine, nitrification, stratification, taste, odor, inconsistent disinfectant residuals



Contact Information

Further information may be available upon request. Please contact Medora Corporation via phone at 866-437-8076 or by e-mail, info@medoraco.com

System Overview:

This municipality purchases 1.5 MGD from an outside source.

Disinfectant Type: Chloramine

Tank / Reservoir Build Information:

Volume: 4 million gallons
Construction: Pre-cast concrete
Type: Cylindrical GST (Ground Storage Tank)
Inlet / Outlet: Common
Height: 26 feet
Diameter: 163 feet

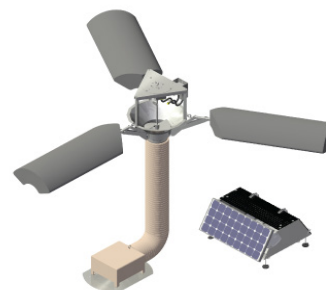
Pre-Deployment Conditions:

Summertime thermal stratification and inconsistent disinfectant residuals leading to nitrification and taste / odor events.

Project Objectives: Complete tank mixing to alleviate thermal stratification, create consistent top to bottom disinfectant residual, mitigate nitrification.

Solution: One (1) SolarBee® SB Series Small Frame Potable Tank Mixer (2006).

Results: This tank experienced significant improvements in chlorine residual immediately after mixer deployment. Thermal stratification has been alleviated and disinfectant residuals are now consistent throughout the tank water column. Nitrification is no longer an issue. The community credits the addition of the SolarBee® as one of the best investments their utility has ever made (based on affordability, pre & post sale services, near zero maintenance, and self-sustainability).



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