Case Study

USWAPW-2544.001 USWAPW-2544.002



GS-9 Mixing In A 500K and 750K Gallon Standpipe

Mixing breaks temperature stratification leading to uniform & consistent water age. **Topics:** tank mixing, temperature stratification, water age, GS Series



Location & Contact Information:

Further information may be available upon request. Please contact Ixom Watercare by phone at +1 866-437-8076 or by e-mail, watercare@ixom.com

Overview: This Customer was performing seismic retrofits on two potable water reservoirs and wanted to add active mixing as part of the overall project. Tank volumes are 750,000 to 500,000 gallons with each tank having a common inlet/outlet. Both are part of a non-treated system (no added chemicals).

•Southwest Reservoir

Volume (gallons): 750,000 Height (ft): 50 Diameter (ft): 50 Operating Range (ft): 38-48

Southeast Reservoir

Volume (gallons): 500,000 Height (ft): 50 Diameter (ft): 39 Operating Range (ft): 38-48

Pre-Deployment Conditions: Temperature

stratification and water age issues especially during the summer months.

Project Objectives: Create uniform temperature profile top to bottom and consistent water age.

Solution: One (1) GS-9 submersible tank mixer per tank. (August 2015)

Results: Baseline temperature stratification before mixer start-up exceeded 11° F top to bottom.

24 Hrs After Start-Up: Temperatures converged to less than 1.0° F.

72 Hrs After Start-Up: An even mix was further confirmed with temperature convergence between 0.1° to 0.3° F.

Check out before & after temperature stratification data on the next page.

Update (April 2016): Per the Customer, "...these are amazing little machines and I just love them..."

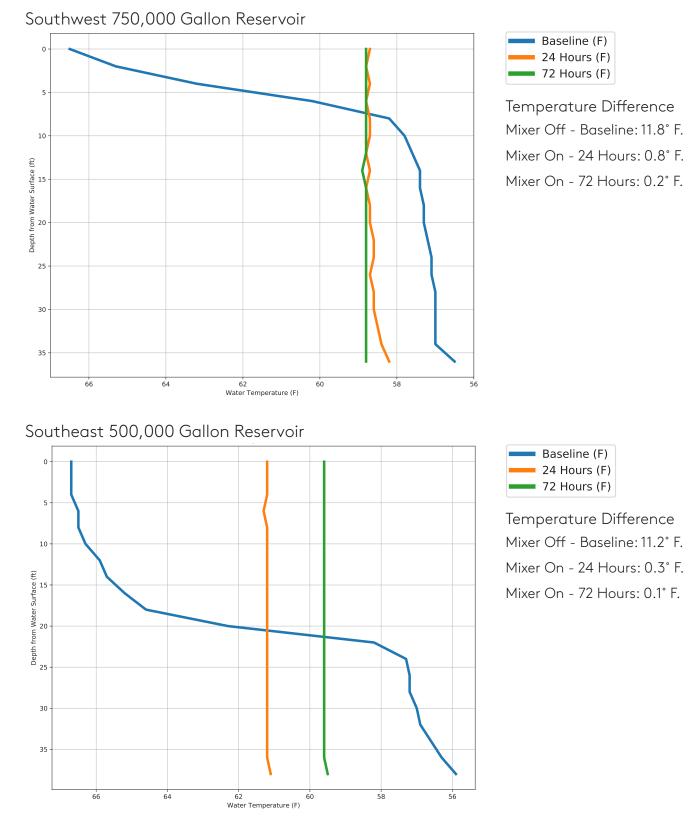
Update (November 2020): The Customer continues to be happy with the equipment and the results. They have ordered two (2) additional GS Series Tank Mixers in 2019 for a total of four(4).

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GS-9 Mixing - Temperature Stratification Testing



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