Large Energy Savings For Equalization (EQ) Basins

*AP Series Air-Powered Wastewater Mixers provide better mixing with less CFM.*

**Topics:** energy savings, eq basins, mixing

**Fifteen (15) AP2000 Air-Powered Wastewater Mixers were deployed in the East Basin.**

**Location & Contact Information:**
Further information may be available upon request. Please contact Medora Corporation by phone at 866-437-8076 or by e-mail, info@medoraco.com

**Basin Overview:**

*West Basin:* 30,000 square feet. For raw sewage influent.

*East Basin:* 20,000 square feet. For a mix of secondary effluent and raw sewage influent.

Operating depths for both basins ~4 - 6 feet.

**Pre-Deployment Conditions:** Both basins contained grids of coarse bubble “tube style” diffusers for mixing. They were powered by three (3) 75HP blowers, one dedicated for each basin, and a third for use as a spare.

**Project Objectives:** To provide thorough mixing and solids suspension with less CFM as well as to eliminate the need for a high-horsepower mechanical mixing system.

**Solution:** A total of forty (40) AP2000 Air-Powered Wastewater Mixers and two (2) 25HP blowers.


*East Basin:* Fifteen (15) AP2000 mixers.

**Results:** Improved mixing requiring substantially less CFM. The Customer observed significant energy savings estimated to be upwards of 135HP.

**Update (February 2019):** The Customer continues to be very happy the AP2000 mixing system.