

A photograph of an aeration basin in a wastewater treatment plant. The water is dark and turbulent, with a thick layer of white foam on the surface. A large pipe runs across the basin. The background shows some industrial structures.

Is your aeration system wasting your money?

Are you running your control system in **Manual Mode**?

Are you **over-aerating** your aeration basins?

Is the system **hunting** or struggling to stabilize?

Dresser Roots Wastewater Solutions can help you!

Through 20 years of installing control systems for the wastewater aeration, we have developed a system that minimizes energy usage and maximizes the stability of the aeration process.

- Key concepts within our control system is the use of DO measurement, air mass flow meters, true Most-Open-Valve logic, and a process specific algorithm.
- Through the use of true Most-Open-Valve logic, we can minimize the system pressure reducing the load on the blowers, resulting in less horsepower being used to move the required amount of air to the aeration basins.
- By eliminating pressure control, we can also achieve a more stable system, as Pressure Control and DO Control have a tendency to “fight” each other in more traditional control systems with cascading controls.

With our process specific algorithm, we have simplified the advanced calculus that lays the foundation for a PID algorithm used in most other aeration control systems. By making the system more intuitive for plant operators, we give them the confidence to optimize the performance of their aeration system.

Contact us at 262-650-5965 or by email to Rootscontrols@dresser.com