



# Capabilities Statement

Wastewater operations consulting and training for treatment plants across the United States and Canada

Wastewater Solutions, Inc. helps utilities and industrial plants start up new facilities, cut energy and chemical costs, regain permit compliance, and build certified, confident operating staffs through hands-on training and plant-specific O&M manuals. We have served utilities for 17 years and work as a partner, subcontractor or prime.

**45 years**

of wastewater experience, 38 of them as a consultant

**26 of 29**

years training operators at one Indiana plant

**40 mgd MBR**

commissioning of the Sand Island facility in Hawaii

**\$536,550**

per year cut from O&M costs at an Indiana plant

## Our service lines

### Process Optimization

Process audits with documented results in activated sludge, phosphorus removal and digestion.

### Operational Energy Audit

Operational audits that cut electricity, natural gas and chemical costs.

### Startup and Commissioning

Startups from construction to full operation, with testing, SCADA loop checks and alarm setpoints.

### Operator Training

Live and online training, plus a full plant-specific package of manual, materials and workbooks.

### Condition Assessment

Assessment of the condition of your plant and its systems.

### Design Review and Conceptualization

Operability reviews, conceptualization and scoping, and SCADA loop and alarm checks.

### Value Engineering Review

Reviews with an operator's eye for cost and operability, to lower capital and operating cost.

### Operations During Construction

The operator's point of view while a project is built, so the plant is ready on startup day.

### O&M Manuals

Plant-specific and electronic O&M manuals for municipal and industrial plants.

## Certifications and education

● Class IV Wastewater, Indiana

● Class D Industrial Wastewater, Indiana

● Class IV Certification, Hawaii

● B.S., Natural Resources, Ball State

## Selected results

| State      | Result                                                                                                                                                                                                                                                |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Indiana    | Energy and process audit at a large municipal plant: <b>\$536,550 per year</b> cut from O&M costs, including <b>25% and 20%</b> less electricity on two meters and <b>\$90,000</b> in natural gas, plus <b>\$3,832,000</b> of added process capacity. |
| Washington | Overloaded SBR plant: SVI cut from <b>400 to below 150</b> , summer permit limits met for the first time in five years, and <b>17%</b> added capacity that delayed an upgrade for eight years, an estimated \$500,000.                                |
| Oregon     | City plant process evaluation: effluent TSS cut from <b>60 mg/L to reliably below 10 mg/L</b> .                                                                                                                                                       |
| California | Operational energy audit identified over <b>\$200,000 per year</b> in energy and chemical savings.                                                                                                                                                    |
| Indiana    | Operator training at a 10 mgd plant: <b>all 12 operators certified</b> , seven at Class IV, and 2nd place in the state operator competition.                                                                                                          |
| Hawaii     | Startup and commissioning support for membrane and solids handling facilities and a Phase 1C plant, with an O&M and training manual and a THP digester operating workbook.                                                                            |

## Our complete plant-specific package

Our live offering is a full package for your plant: a plant-specific **O&M manual, training**, plant-specific **training materials**, and **interactive process control workbooks** that can be tied to SCADA. Online training is general training.

## How we team

### Partner

We work side by side with engineers, contractors and consultants.

### Subcontractor

We support a prime engineer or contractor with our specialty services.

### Prime

We lead the project and bring in the team it needs.

We can assemble a quality team for a project of any size.

## Where we have worked

**Hawaii, Indiana, Oregon and Washington.** Also California, Idaho, Texas, Georgia and British Columbia.

## Contact us

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