

## Find Hidden Savings in Your Wastewater Treatment System

**Introduction**

This worksheet is designed to help you uncover inefficiencies and identify cost-saving opportunities within your wastewater treatment operations. By completing the following sections and summarizing your findings in the Actionable Insights Table, you can develop a clear plan to reduce expenses, optimize efficiency, and improve compliance.

**1. Water Usage and Discharge**

- What's your facility's average monthly wastewater volume discharged? Answer: \_\_\_\_\_ gal/m<sup>3</sup>
- What's your facility's average monthly water volumes utilized for wastewater treatment purposes (i.e. dilution)? Answer: \_\_\_\_\_
- What is your monthly average sewage or discharge bill? Answer: \$ \_\_\_\_\_
- Have you explored ways to reduce discharge volume or dilution? ( Y / N )
- Estimated wastewater discharge costs per year: \$ \_\_\_\_\_

**2. Chemical Usage**

- What is your facility's monthly spend on chemical dosing for H<sub>2</sub>S removal, odor control, color removal, pH balancing, flocculants and coagulants or other treatment processes? Answer: \$ \_\_\_\_\_
- What is the volumetric consumption of each chemical per month?  
Answer: \_\_\_\_\_  
\_\_\_\_\_
- Have you experienced issues with over- or under-dosing to achieve treatment objectives? ( Y / N )
- Have you evaluated non-chemical treatment options? ( Y / N )
- Estimated total chemical costs per year for wastewater: \$ \_\_\_\_\_

**3. Maintenance and Repairs**

- How often do maintenance issues with wastewater equipment disrupt production operations?  
(Daily / Weekly / Monthly / Quarterly / Yearly)
- How long do downtimes for maintenance typically last? ( Hours / Days / Weeks )
- What is your annual budget for wastewater system repairs and consumables? \$ \_\_\_\_\_
- Do you rely on external contractors or in-house teams for maintenance? How frequently (hours per year) do you contract with external vendors for wastewater repairs and vendors?  
Answer: \_\_\_\_\_
- Estimated maintenance costs per year: \$ \_\_\_\_\_
- Estimated revenue loss per year due to wastewater issues: \$ \_\_\_\_\_

#### 4. Labor and Oversight

- What is the estimated annual labor cost for wastewater management? *Answer:* \$ \_\_\_\_\_
- Is the system highly automated or labor-intensive? (*Fully manual*) 1 2 3 4 5 6 7 8 9 10 (*Fully automated*)
- Did you have to hire personnel to monitor and manage the system? ( Y / N )
  - ➔ How many dedicated wastewater staff were hired? *Answer:* \_\_\_\_\_
- How many labor hours per month are taken away from production and re-assigned to wastewater management for your existing team? *Answer:* \_\_\_\_\_

*Labor hours dedicated to wastewater training + labor hours dedicated to wastewater maintenance + labor hours dedicated to wastewater troubleshooting = total labor hours*

- Estimated labor costs for wastewater management per year: \$ \_\_\_\_\_

#### 5. Sludge Handling and Disposal

- How frequently do you dispose of sludge? ( Daily / Weekly / Monthly / Quarterly / Yearly )
- Do you use a dewatering technology prior to sludge disposal? ( Y / N )
- What are your average disposal costs per disposal frequency? *Answer:* \$ \_\_\_\_\_ per \_\_\_\_\_
- Is sludge variability a challenge for your system? ( Y / N )
- Where is your sludge disposed?
 

|                                   |                                    |
|-----------------------------------|------------------------------------|
| 1) Offsite for land application   | 4) Onsite digestion                |
| 2) Offsite digestion facility     | 5) Onsite extraction               |
| 3) Company-owned land application | 6) Revenue generating waste stream |
- Estimated sludge disposal costs per year: \$ \_\_\_\_\_

#### 6. Energy Usage

- What is your facility's average monthly energy cost for wastewater treatment?  
*Answer:* \$ \_\_\_\_\_
- What percentage of your total facility energy use is attributed to wastewater treatment?  
*Answer:* \_\_\_\_\_
- Are you using energy-intensive aeration, pumping, membrane or evaporation systems? ( Y / N )
- Have you explored energy-efficient alternatives such as low-energy treatment or energy-recovery systems? ( Y / N )
- What are your energy-saving or energy recovery goals? *Answer:* \_\_\_\_\_

#### 7. Regulatory, Compliance, and Risk Management Costs

- Have you incurred any fines or surcharges due to compliance issues in the last 12 months? ( Y / N )  
*How many?* \_\_\_\_\_ *Average fee:* \$ \_\_\_\_\_
- Total cost of regulatory penalties and environmental violations in the past year: \$ \_\_\_\_\_
- Do you have contingency plans for wastewater-related emergencies (e.g., spills, permit violations)? ( Y / N )  
*Answer:* \_\_\_\_\_
- Estimated cost for risk management or penalties per year: \$ \_\_\_\_\_

**Actionable Insights Table**

| Current Challenge                    | Potential Solution                 | Estimated Savings (\$/yr) | Operational Impact                         | Priority Level | Timeframe  |
|--------------------------------------|------------------------------------|---------------------------|--|----------------|------------|
| <b>Example:</b><br>High energy costs | Upgrade to energy-efficient system | \$50,000/year             | Reduced energy usage and Scope 2 emissions | High           | Short-Term |
|                                      |                                    |                           |  |                |            |
|                                      |                                    |                           |  |                |            |
|                                      |                                    |                           |  |                |            |
|                                      |                                    |                           |  |                |            |
|                                      |                                    |                           |  |                |            |
|                                      |                                    |                           |  |                |            |

**Resource Recommendations**

After completing this worksheet, take the next step in reducing your wastewater treatment costs with Aquacycl. Our wastewater treatment systems are offered as a fully managed service with the option of no CapEx investment, eliminating the financial burden of equipment ownership. Designed to minimize or completely eliminate costs across every major category—energy, chemicals, maintenance, labor, sludge, and compliance—to provide you with a predictable, cost-effective solution for onsite wastewater treatment.

**Next Steps**

- ✓ Benchmark your costs with our [wastewater assessment](#) to understand where your facility stands.
- ✓ Visit <https://aquacycl.com> to explore our cost-saving wastewater solutions.
- ✓ Explore [real-world case studies](#) of facilities that have reduced costs with Aquacycl solutions.
- ✓ [Book a meeting](#) with our team for specific savings opportunities tailored to your facility's needs.
- ✓ Share your completed worksheet with your team to prioritize and act on potential savings.