



Turning Liabilities into Leverage

EnvironmentalLeverage.com

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Turning Liabilities Into Leverage!



Today major companies are focused on the bottom line - Sustainable development, gaining profitable market share and increasing your customer's loyalty are key issues that management must continually track and improve. Production costs, maintenance costs, environmental liability and operational safety are key areas where improvements and optimization help deliver these goals. Adding value to your operations and hitting on these areas is our goal at Environmental Leverage Inc. Bringing you the latest technology to save you time and money are critical to the success of your operation.

At Environmental Leverage Inc., we offer a number of wastewater products along with highly specialized services to complement your existing programs. Trained professionals will bring the latest technology and innovations to your site to help you develop sound business solutions to improve your bottom line.

For more information see detailed descriptions below of each service that we offer.

Key Benefits:

- Total Cost of Operation Reductions
- System Reliability & Sustainability
 - Environmental Compliance
 - Improve Operational Safety

Environmental Consulting

- Implementing process changes can help avoid major problems.
- Environmental compliance is a must.
- Locating key issues that management must continually track and improve.

On-Site Audit & Troubleshooting Wastewater Systems

- Monitor and control techniques are explored.
- To search & identify areas to implement process changes can help avoid major problems.
- System optimization, equipment efficiency and operational excellence.
- Beneficial Re-Use & Surcharge Reduction

Wastewater Training On-Site

- To properly train operators & lab personnel to control / monitor your system in order to predict upsets.
- Train to use the microscope as a monitoring tool to better understand the bacteria in your system.
- Teaching personal how to be proactive and reduce Total Costs of Operation while also achieving compliance.

Training CD's, Manuals & Material for Wastewater

- Learn the clues that the Microbiology give.
- Learn the power to enable you to optimize your system.
- Learn the Microbiology and use it to troubleshoot your system.

ELearning Online Training Courses

- Now, wastewater training made easy from the comfort of your own office.
- All of our courses contain not only an interactive course with videos, photos, and quizzes but each section has additional activities to complete the learning process and increase your troubleshooting knowledge.
- CEU credits available and Courses are approved in most states.

Wastewater Microscopic Biomass Analysis

- Microscopic analyses of any biological system should be a critical component of any ongoing daily monitor and control programs.
- Lab sheets to correlate health of the system, any changes in floc structures, higher life forms, filamentous identification, polysaccharide coating of the bacteria and suspended solids can be determined by using a microscope and examining the biomass.
- This is a tool that can help not only show exactly what the health of the system is at a given time, but can also help predict which direction the plant is headed



Cooling Tower Analysis

- This is the most precise way of determining what is going on in your system and what can be done to improve or solve the problem.
- Many things can be determined by microscopic analyses that can save time, money and reduce multiple traditional tests.
- You can see why performing a total water balance in your plant, and considering all the options you have can make a big difference in operating costs as well as efficiency.

Full Bioaugmentation Product Line

- We carry a full line of biological products that come in various forms- Water Soluble Pouches, Powder, Liquid or Solids.
- Each product is specifically formulated for BOD removal from different types of carbon.
- We can help you with product dosing and program requirements all the way through your application of our products.

Smooth operation of a waste treatment plant is critical. Environmental compliance is a must. Operational costs are skyrocketing with new environmental regulations. A complete audit of your plant can help identify opportunity areas for improvement. Troubleshooting minor problems and implementing process changes can help avoid major problems. Call us or email us at admin@EnvironmentalLeverage.com to help with your wastewater needs.

Wastewater Audits: At Environmental Leverage, we have a team of experienced individuals who come into your plant with a fresh pair of eyes. The system is checked from influent to effluent. System optimization, equipment efficiency and operational excellence are key components explored.

Key Benefits

- **Equipment Efficiency**
- **Total Cost of Operation reductions**
- **Reliability and Safety**
- **Final Effluent Compliance**
- **Solids Handling Optimization**
- **Nitrification/Denitrification Optimization**
- **BOD / TSS Removal Enhancement**



Capabilities: An audit is conducted to examine system parameters, process controls, and current monitor and control procedures. A physical walk-through is conducted, process flow diagrams are examined, previous design criteria are examined and current standard operating procedures are evaluated along with data logs.

Many times aerators can be moved or optimized to increase energy efficiency. Clarifiers are not working optimally, Depth of bed, weir levels, surface overflow rates or RAS rates can be optimized. Sludge wasting or dewatering can be improved. The biological health of the system is not always at maximum levels. Monitor and control techniques are explored. Chemical and electrical components of the operational budget are explored and recommendations for optimization can be made.

Environmental Consulting:

How do you increase your bottom line? Cut costs, increase production, decrease waste, and reduce liabilities. There are a number of ways to do this in your treatment system. . .

Capabilities At Environmental Leverage, we have access to a team of individuals with a variety of skills that can help your specific plant meet the expectations and demands of today and tomorrow.

- Capability 1** - Plant operations and troubleshooting
- Capability 2** - Environmental Wastewater System Evaluation - Onsite CEU Training
- Capability 3** – Biosolids Handling
- Capability 4** - Beneficial Reuse





Environmental Wastewater System Evaluation Training Program:

This course is designed to establish Best Practices for your Wastewater System and help your engineers and operators institute Industry benchmarks and standards in order to optimize your system to run as efficiently as possible and develop operational excellence. Control and minimization of Total costs of operations is always necessary, but guaranteed reliability and long term sustainability are the keys to transport your system above and beyond normally targeted measures. This training program is based upon years of experience and accumulation of practices on actual performance of thousands of systems. This program has been consistently successful in teaching people how to be proactive and achieve their goals of reducing Total Costs of Operation while also achieving compliance.

Since many facilities are cutting budgets, reducing research and development and downsizing manpower, many times the waste treatment plant is the first to suffer. This program will help you bring the level of expertise necessary back quickly.

You will learn step by step procedures which will enable you or your operators to develop quick, easy to establish system checks to control and monitor your system in order to predict upsets, minimize energy and chemical usage, and avoid costly repairs and unnecessary maintenance procedures.

Some of the tools used to monitor and control a system include optimization of simple procedures such as sludge judges and the use of settleometers or centrifuge spins to control depth of bed, age of sludge and optimization of RAS and WAS.

Microscopic inspections of biological sludge are a must in order to be proactive to avoid upsets and successfully control the biomass. Some of the quick and simple procedures that are taught may take only ten minutes a day and yet are powerful enough to save thousands of dollars a year in unnecessary costs.

Advanced Technical Training



Does your plant use a microscope as a daily monitoring tool? Is a settleometer used to control sludge wasting or control of depth of bed in the clarifier? These are some of the tools that can easily improve the reliability and efficiency of your biological waste treatment plant.

The greatest equipment and the most efficient, dedicated workers are useless if they are not properly trained. At Environmental Leverage, we have years of experience in many process areas and technical expertise on equipment, systems and operations. Programs to optimize your system or custom training can be tailored to increase the reliability and efficiency of your plant.



Key Benefits

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|---------------------------------------|---|--------------------------------|---|--------------------------|
| Increased reliability and efficiency | • | Environmental compliance | • | Safety |
| Reduced operating & maintenance costs | • | Total System Capabilities | • | Operations & Maintenance |
| Equipment design & operations | • | Troubleshooting & optimization | | |

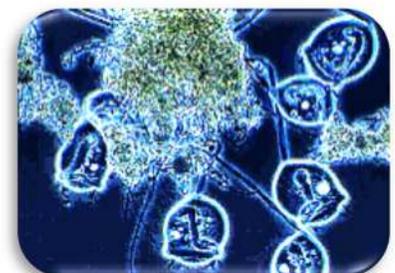
Microbiology

What are bacteria, how do they work in my biological treatment system, using the microscope as a monitoring and control tool, filamentous identification.

Customer Seminars

Please contact us to tailor a custom training program that can be set up onsite or at specific locations. Training in wastewater operations, microscope troubleshooting and wastewater lab personnel.

Phone: 630-906-9791 or Fax 630-906-9792 / Email - elfenvironmental@aol.com





Additional Services Available:

Total Systems Capabilities

- **Operator Training** – A customized training seminar can be provided depending upon the level of participant wastewater knowledge and expertise. Given by a certified instructor for CEU’s.
- **System Audit** – An equipment as well as process operations review of the total wastewater system by a team of Environmental Services Professional Consultants to assess the system performance and determine its capabilities compared to industry norms. A good opportunity to uncover potential sales opportunities.
- **Waste Biological Analysis (WBA)** – An in-depth report that examines microscopically the biomass of a waste treatment system in order to obtain a better understanding of the health and diversity of that system at that time. This Lab report contains photomicrographs of the indicator organisms observed in the biomass in addition to corrective action recommendations.
- **Complete Line of Wastewater Microbiology Training CD’s** – At Environmental Leverage, we have years of experience in many process areas and technical expertise on equipment, systems and operations. Programs to optimize your treatment system or custom training can be tailored to increase the reliability and efficiency of your plant. We have developed numerous training materials in order to help our customers with their process controls. Many of our newsletters and technical Q&A’s are developed to help solve current environmental or customer issues. These training CD’s are packed full of photographs, videos and custom written training.

• ***Services are contracted typically as daily consulting fees plus expenses.**
Phone 630-906-9791 or Fax 630-906-9792

Products for Bioaugmentation and Bacterial formulations for water, wastewater treatment systems, lift stations and grease traps.

See our Website below for additional listing of Products available and Training Materials.
You can always call or email us at... wastewater@EnvironmentalLeverage.com

