

## Biological Wastewater Process Control



### Training Seminar Overview:

This 2-day (16 hours) course is approved as Training for Wastewater Operators, Engineers, & Laboratory personnel.

This seminar will present the process control methodologies and laboratory techniques necessary to control the activated sludge process or any wastewater treatment system with an emphasis on process monitoring & trouble shooting. These approaches are equally applicable to domestic and industrial facilities. Past participants from industries such as Food and Beverage, Wineries, Chemical, Papermill & petrochemical have been successful in applying these methods to control their processes. Municipalities will greatly benefit from this training course. The course will consist of lecture, microscopic analysis, plant audit, demonstrations of certain laboratory procedures and microscope use.

### Course Materials

Each attendee will receive complete class notes on a CD also included is our Wastewater Microscopic / Biological Training CD... valued at \$250.00.

### Who should attend?

The course is designed for all wastewater professionals, particularly operations personnel, such as operators, engineers & laboratory personnel.

Registration Form – 2-Day Training  
Biological Wastewater Process Control Seminar  
by Tracy Finnegan-Environmental Leverage® Inc.  
March 3rd Tuesday & Wednesday 4th 2020  
8am - 4:30pm both days

Seminar held at:

**Environmental Leverage Inc.**  
1454 Louis Bork Drive  
Batavia, IL 60510

\_\_\_\_\_  
Name

\_\_\_\_\_  
Position or Title

\_\_\_\_\_  
Organization

\_\_\_\_\_  
Business Address

\_\_\_\_\_  
City, State & Postal Code

\_\_\_\_\_  
Phone

\_\_\_\_\_  
Email

\_\_\_\_\_  
Registration Fee

**Full 2 Day Course \$395.00**

***Includes lunch both days of class.***

\_\_\_\_\_  
Method of Payment

Check, Visa, Master Card, Discover or PO#

**Please register through and make checks or purchase orders to: Register address only.**

**Environmental Leverage Inc.**

812 Dogwood Dr., Suite A  
North Aurora, IL 60542

Email: [elfenvironmental@aol.com](mailto:elfenvironmental@aol.com)

Phone: 630-906-9791

## Course Outline

### Day 1 Schedule

Wastewater Basics Overview  
Microbiology Overview  
Floc & Filaments Analyses  
Microscope Use, Techniques & Stains  
Lab Sample Handling & Prep  
Hands on Microscopic Observation  
Visual Observations & Troubleshooting  
Filaments, Zooglea & Foam control  
Solids Carryover & Settling Problems

### Day 2 Schedule

Process Overview & Process Variations  
Process Control Strategies  
Equipment Optimization,  
Preliminary, Primary, Secondary,  
Clarifiers, Digesters and Dewatering  
Settleometer, Clarifier Simulation Test  
Sludge Judge Profile  
Plant Tour (weather & facility permitting)  
Land Application & Biosolids Handling  
Environmental Issues  
Troubleshooting  
Case Histories - Plant Examples

**Please be sure to bring a 100ml / 3-4 oz.'s, of your MLSS sample from your own facility. Microscopic plant biomass analyses will be taught in class for each sample.**

***Leave 1-2 inches air space in bottle.***

***Keep cool & do not freeze. You can overnight ship to address of class, if you cannot carry sample.***

## Are Wastewater Treatment problems getting to you lately?



Don't miss this opportunity to increase your knowledge of biological process control in your wastewater treatment system. Learn how to troubleshoot and optimize your treatment system.

### General Information:

Registration first day is at 7:45 a.m.

2-Day course begins at

8:00 a.m. to 4:30 p.m.

March 3rd Tuesday & Wednesday 4th  
2020

*Lunch will be provided both days*

Register by mail, telephone, email or fax  
through the information below:

**Environmental Leverage® Inc.**

812 Dogwood Drive - Suite A

North Aurora, IL 60542

Fax: 630-906-9792

Phone: 630-906-9791

[elfenvironmental@aol.com](mailto:elfenvironmental@aol.com)

## The Course Instructor:

*Tracy Finnegan* is an environmental engineer with Environmental Leverage® Inc., Illinois. She was formerly associated with Nalco and Suez, where she worked for more than 12 years in numerous positions related to research, operations, design evaluation, auditing and troubleshooting wastewater systems. She now operates her own Environmental Engineering Company that supplies products, training, lab services, audits and auditing services.

[www.EnvironmentalLeverage.com](http://www.EnvironmentalLeverage.com)

Tracy has taught biological wastewater process control to operators & engineers for over 26 years and performed audits and troubleshooting for ~5-6000 industrial and municipal treatment plants. Tracy holds a BS degree in Business Chemistry from Northern Illinois University.

She is a co-author in WEFTEC's Book Wastewater Biology: The MicroLife, and has now developed 12 new wastewater Training CD's.

## Course / Seminar Location at:

Seminar held at:

**Environmental Leverage Inc.**

**1454 Louis Bork Drive**

**Batavia, IL 60510**

*This course is approved by numerous states\_\_\_\_\_*

Other states may have different credit systems.

Contact us for approvals in other states for this class.

**For additional information & register contact:**

[Elfenvironmental@aol.com](mailto:Elfenvironmental@aol.com) or (630)-906-9791

## 2-Day Biological Wastewater Process Control Seminar

March 3rd Tuesday & Wednesday 4th  
2020

*Register early, class size is limited!*

*Training provided by Tracy Finnegan and  
Jennifer Oakes of:*



**Hands-On & Interactive Training Course**  
**Class is limited so register early**

