

Case Histories-Wineries

Environmental Leverage® inc.



Turning Liabilities Into Leverage!™



Winery Lagoon issues



Winery with issues meeting permit.

High levels of septicity in lift station, nutrient deficiency



Recommended adjustment to ammonia levels, bioaugmentation and process controls





Winery California



Winery with issues meeting permit during crush or after high spills.

Recommended adjustment to ammonia levels, bioaugmentation MicroClear 206 and MicroClear M100 Micronutrients and process controls



Winery-Napa

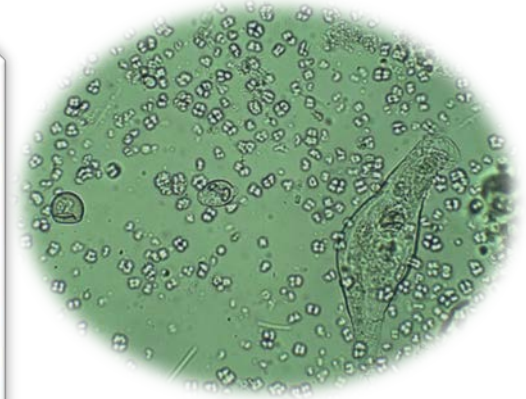


Winery EQ lagoons septicity and nutrient deficiency with high organic loading

Dredging of lagoons, addition of nutrients directly to lagoon



Winery Foam Napa



Plant loading seriously exceeded design capacity
Foaming continual
Tetrads and Type 021N filaments

EQ tank added
Nutrients increased
Bioaugmentation added when spills or high loading occurs





Biocide spill POAA



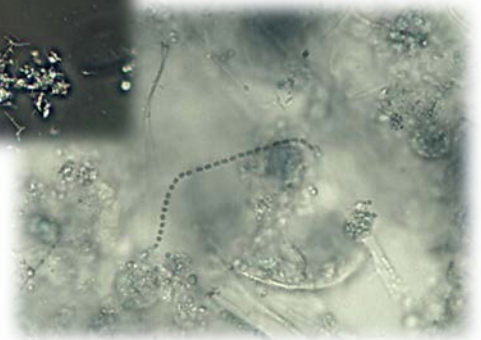
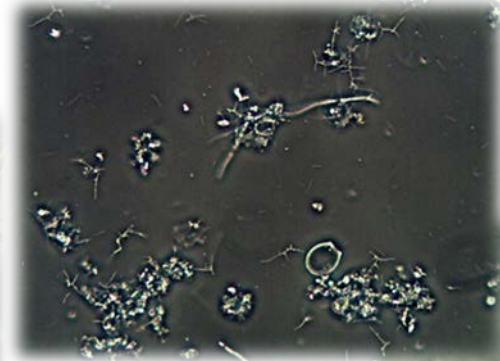
POAA is a biocide with a very long stable life in wastewater. High dosages can easily kill a small wastewater plant. Return of a small amount of RAS and bioaugmentation used upstream in EQ to help break down the biocides prior to entering the Aeration basin
Venturi used to increase DO levels in the EQ



Oils in Winery



Lubricating oils are used in wineries. Bioblocks can be used in the lift station to pretreat the oils. A DAF was used as well at this plant.





Australia Barossa winery



Onsite audit and training to help teach Critical 5 to increase BOD and TSS removal





New Zealand winery



Algae issues in
the pond
MicroClear 101
used





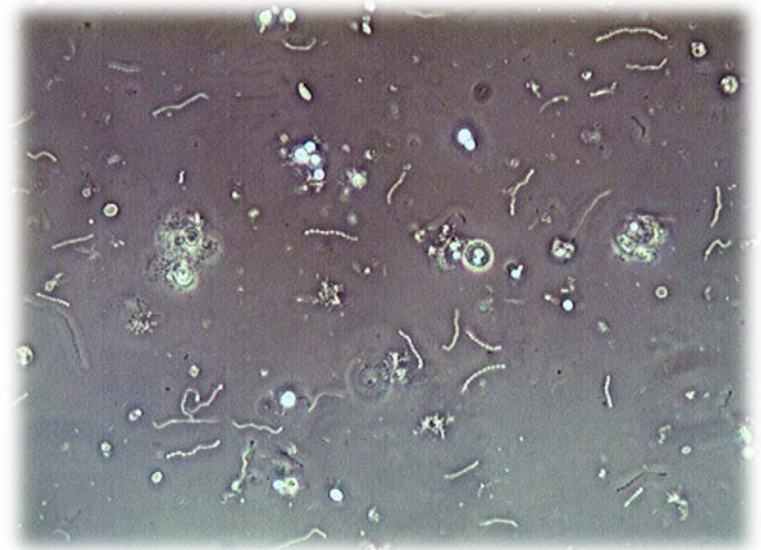
Australia Mc Claren Vale



Onsite audit and training to help teach
Critical 5 to increase BOD and TSS
removal



Antifoams at a winery CA



Many times antifoams are used when foaming occurs. Antifoams can be oil based and cause not only higher organic loading, but Free floating filaments or Nocardia or Zoogloea due to oils. Antifoams can have a BOD of 2-700,000 ppm BOD. Nutrient deficiency can occur as well. Fix the issue instead of using band-aid

Here nutrients were added along with bioaugmentation MicroClear 206 and problem solved no more antifoams needed.

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Foaming in Wineries

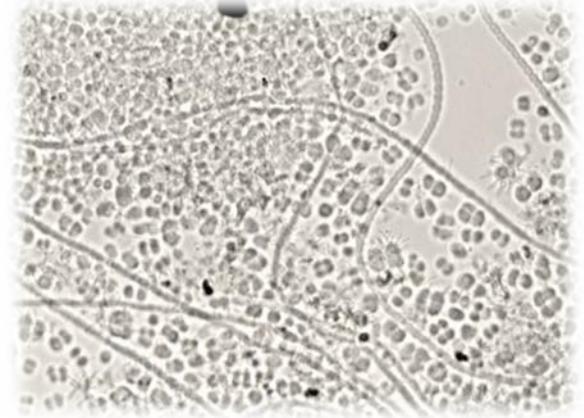


Wineries can have spills from 50-100,000 ppm when a tank is cleaned out. Typical reaction is to reach for the antifoam when foaming occurs. Instead adjust N, add MicroClear 206 and skip the antifoams. Better solutions





High BOD and Nutrient deficiency



High BOD spill- TSS and BOD in effluent,
as well as foaming

Solution- Increase ammonia and add
bioaugmentation to help degrade excess
BOD loading temporarily



Lagoon effluent violations

- Dredge lagoons
- Add nitrogen
- Add bioaugmentation





Winery Sonoma Plant foam-over

High organic loading lead to foam over in tanks

Solution, add sprayers for mixing and foam suppression in EQ tank

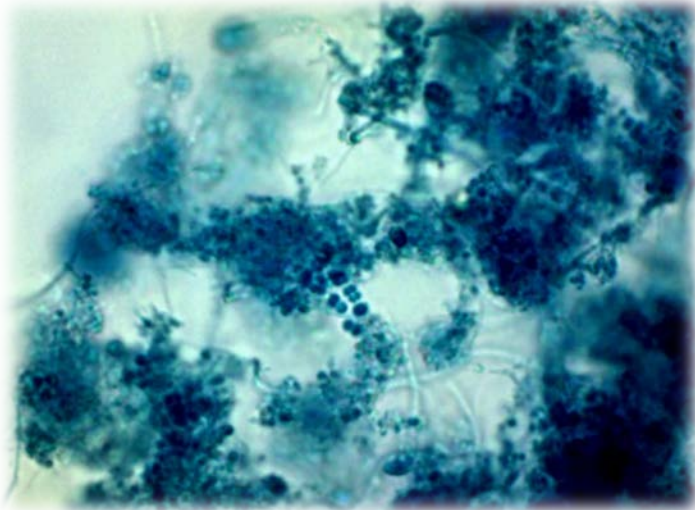
Add more nitrogen

Add more bioaugmentation when spills occur

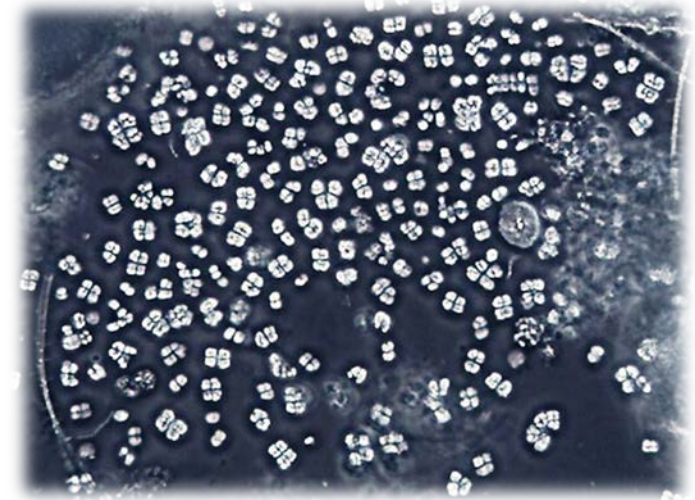




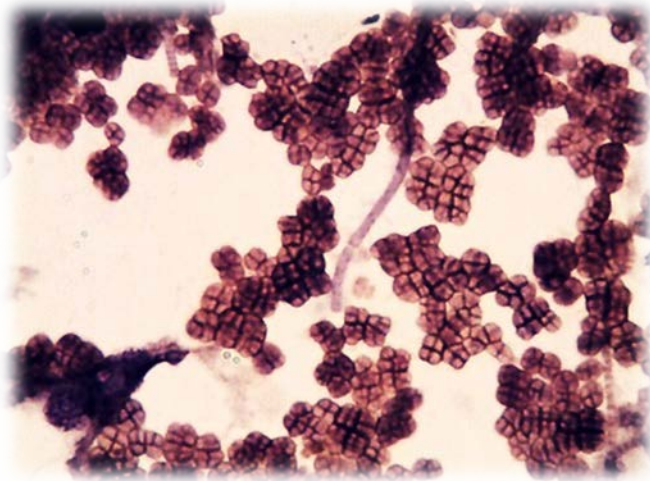
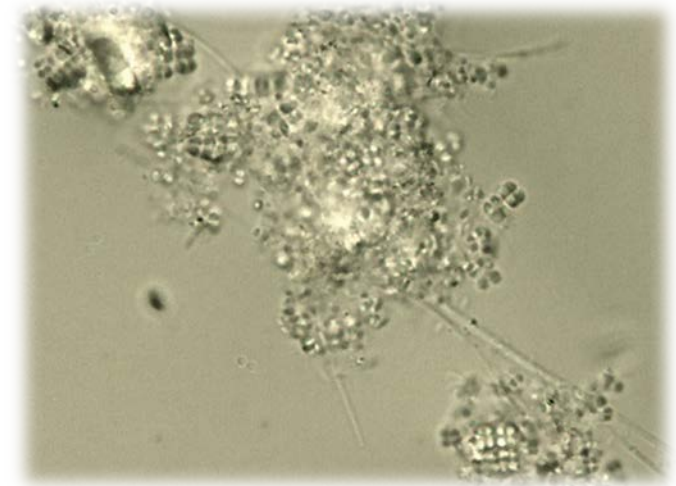
Winery with Nitrogen deficiency



This winery
had high TSS
High loading
caused
nutrient
deficiency



Whenever you
see Tetrads
they always
indicate
nitrogen
deficiency



This is
common at
wineries



Winery and Restaurant TX



Unable to meet permits- BOD and TSS



Training on operations, solids handling, nutrient addition. Bioaugmentation added





Environmental Leverage

The Next Generation of Solutions

- **Chemicals, Laboratory, Training, Consulting, Total Systems Approach**
 - Onsite Audits & Consulting
 - Beneficial Reuse & Biosolids Alternatives
 - Training Programs
 - MicroClear® & MicroSolv™ Bioaugmentation Products
 - Cooling Tower & Wastewater Lab Services
 - Computer Based Dosing Wizards
 - Wastewater Audits
 - Online ELearning Courses





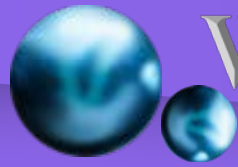
Wastewater Audits

Full onsite audit of Treatment plant, or "Virtual Audits"

Evaluation of Equipment, Process Recommendations, System Optimization, Troubleshooting, Testing, Solids Handling, etc.

The grid consists of 12 panels, each illustrating a different aspect of wastewater audit work:

- Panel 1 (Top Left):** Shows a schematic of a wastewater treatment plant layout with various tanks and flow lines.
- Panel 2 (Top Middle-Left):** Features a photograph of a worker inspecting a tank, accompanied by a data table with columns for 'Parameter', 'Unit', 'Value', and 'Range'.
- Panel 3 (Top Middle-Right):** Displays a bar chart titled 'EFFECTS OF SOLIDS CAPTURE ON WATERING COSTS/LW' and a table showing 'Table 1 - Typical Operating Conditions of Solids Capture'.
- Panel 4 (Top Right):** Includes a photograph of a worker in a tank and a detailed schematic diagram of a specific process unit.
- Panel 5 (Middle Left):** Shows a photograph of a large circular tank with a central column, likely a clarifier.
- Panel 6 (Middle Middle-Left):** Contains a photograph of a worker and a data table with columns for 'Parameter', 'Unit', 'Value', and 'Range'.
- Panel 7 (Middle Middle-Right):** Features a photograph of a worker and a data table with columns for 'Parameter', 'Unit', 'Value', and 'Range'.
- Panel 8 (Middle Right):** Shows a photograph of a worker and a data table with columns for 'Parameter', 'Unit', 'Value', and 'Range'.
- Panel 9 (Bottom Left):** Displays a photograph of a worker and a data table with columns for 'Parameter', 'Unit', 'Value', and 'Range'.
- Panel 10 (Bottom Middle-Left):** Shows a photograph of a worker and a data table with columns for 'Parameter', 'Unit', 'Value', and 'Range'.
- Panel 11 (Bottom Middle-Right):** Features a photograph of a worker and a data table with columns for 'Parameter', 'Unit', 'Value', and 'Range'.
- Panel 12 (Bottom Right):** Includes a photograph of a worker and a data table with columns for 'Parameter', 'Unit', 'Value', and 'Range'.



Wastewater Training Programs

Wastewater Training Materials 4 – CD Set

Higher Life Forms CD

Filamentous Bacteria CD

An Overview of Wastewater Training

Wastewater Microbiology

Filamentous Identification



The Easy Way™ Training CD

Powerful Filamentous Training


Custom Training CD or Manuals

Microbiology Training

“How To Use The Microscope”



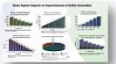
Training & Hands On Workshop
Presented by Tracy Finnegan



Wastewater Training

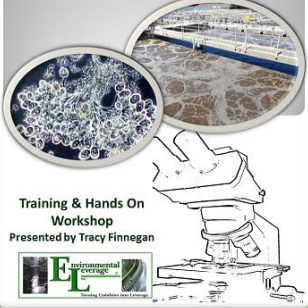
Visual Troubleshooting

Tracy Finnegan






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Microbiology Training In Wastewater




Training & Hands On Workshop
Presented by Tracy Finnegan




Microbiology Training


Indicator Organisms




Training & Hands On Workshop
Presented by Tracy Finnegan



Troubleshooting Microbiology




Training & Hands On Workshop
Presented by Tracy Finnegan





Microbiology Training

“Filamentous Identification The Easy Way”





Training & Hands On Workshop
Presented by Tracy Finnegan

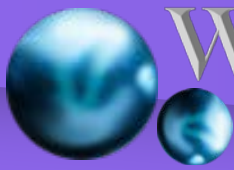



An Overview of Wastewater Treatment

CUSTOM TRAINING MANUAL

Author Tracy Finnegan



Wastewater ELearning Training

- Online computer-based training
- Interactive courses with videos, photos, & quizzes
- Convenience and flexibility at individual pace
- No travel expenses or hassles.

Online ELearning: Wastewater Training Courses Overview

Control and Minimization of Total costs of operations is always necessary, but guaranteed reliability and long term sustainability are the keys to transport your wastewater treatment system above and beyond normally targeted measures. These wastewater training programs are based upon years of experience and accumulation of practices on actual performance of thousands of treatment systems. These wastewater training programs have been consistently successful in teaching people how to be proactive and achieve their goals of reducing Total Costs of Operation while also achieving compliance.

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.

These courses have been pre-approved for Wastewater CEU's in Alaska, California, Connecticut, Idaho, Indiana, Maine, Massachusetts, Nevada, New York, North Carolina, Tennessee, Vermont, Washington and West Virginia. Some states do not require pre-approval. If you need these approved for your state, please contact our office.

These courses are eligible for CEU's, Contact Hours or PDH (Professional development hour) in Alabama, Arizona, Maryland, Virginia and more to come.

Now approved in Canada for Nova Scotia and Saskatchewan.



Environmental Leverage Analytical Services

- Wastewater Biomass Analysis
- Filamentous Identification
- Cooling Tower Microbio Analyses

Environmental Leverage Inc.

Wastewater
Microbiology
Lab Testing

Standard Wastewater

Biomass Analyses :

Cover letter with comments,
recommendations and
troubleshooting tips.

Higher life form sheet

Floc structure analyses

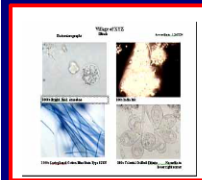
Photo Sheets

A CD with photos and videos

included \$250.00

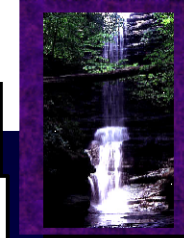
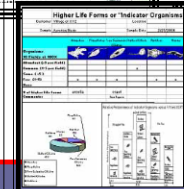
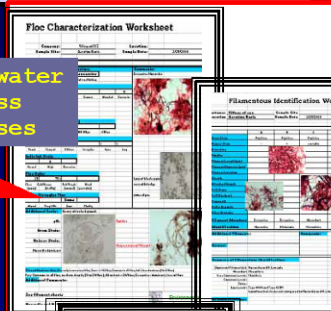
India Ink and
LactoPhenol Cotton
Blue Stains

Filament Causes
and Controls

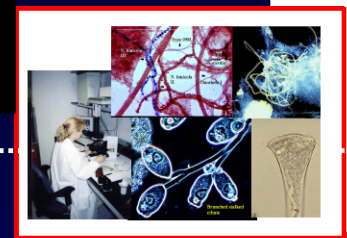


Wastewater Biomass Analyses with
Filamentous Identification including
Gram and Neisser stains, suggestions
on causes and control,
troubleshooting tips as well as the
standard analyses. \$350.00

Wastewater
Biomass
Analyses

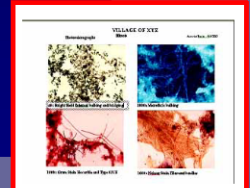


Always striving to bring
the latest technology
available to you!



Send 50-100 ml sample in
plastic container overnight.
No ice cubes, blue ice only.
Call to set up sample testing
630-906-9791.
Results same day as sample
received

Filamentous
Identification



Quality • Service

Welcome

Environmental Leverage
Turning Liabilities Into Leverage

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Quality Environmental Products and Services!

With all the concerns today about environmental liability, some of the key issues that manufacturers face include: Globalization, impact of new Science and Engineering technology, Information systems and e-Commerce, Supply chain management, Changes in production processes and manufacturing, Sustainability, Significant impact on Energy savings and Environmental performance. At Environmental Leverage all of these issues are important concerns.

What's New!

We have just added "Virtual Audits" to our capabilities. Check out our new Services. We are in the process of developing an "Online E-University" in order to meet the needs of our global customers that cannot travel to our

Capabilities:

Biological Products:
Biodegradation products for applications in Papermills, Textiles, Chemical, Tanneries, Masticquities, Textiles, Steel, Agriculture, Animal Feedlot, Gas Powder Plant, Food and Beverage, Dairy Products, Orange Juice factory, Wineries, Cookie factory, vegetable processing plant, Meat packing, Surface Restaurant, Aquaculture, Ornamental Ponds for algae control, CVD, Nursing homes, Military, Campgrounds, Universities, Regulatory agencies



TURNING LIABILITIES INTO LEVERAGE

Photo Gallery - Mystery Bug of the Month

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Biological Products:
Biodegradation products for applications in Papermills, Textiles, Chemical, Tanneries, Masticquities, Textiles, Steel, Agriculture, Animal Feedlot, Gas Powder Plant, Food and Beverage, Dairy Products, Orange Juice factory, Wineries, Cookie factory, vegetable processing plant, Meat packing, Surface

Mystery Bug of the Month - From 2004 - 2017

Free swimming ciliates

These photomicrographs were taken from a wastewater sample. Most of the objectives used were 100x, 400x and 1000x. You can see this free swimmer open what looks like a flap to capture food. Notice how when you go from low power to a higher magnification, more details jump out. Do not be afraid to go up to a higher magnification, even 1000x!

What's New!
We now have a brand new "Higher Life Forms videos" in our Training CD list. Check out our new Training Materials. We are also in the process of developing an "Online University" in order to meet the needs of our global customers that cannot travel to our public classes. Stay tuned for details and updates.

- Training & Treatment Systems Audits
- Newsletters (*digital monthly troubleshooting*)
- Troubleshooting
- Filamentous ID.
- Higher Life Forms
- Bug of the Month
- Microscopic Biomass Analyses



Join Environmental Leverage® on a Journey into the Future with our next generation of Water & Wastewater Treatment solutions

The future begins now. . . .

Environmental Leverage® Inc. bringing you Tomorrow's Water Today !!!!



**Environmental Leverage® Inc.
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Batavia, IL 60510 USA**

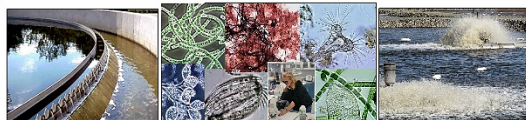
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www.EnvironmentalLeverage.com

www.WastewaterELearning.com



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