



AQUAFIX Inc.

Innovations in wastewater treatment.

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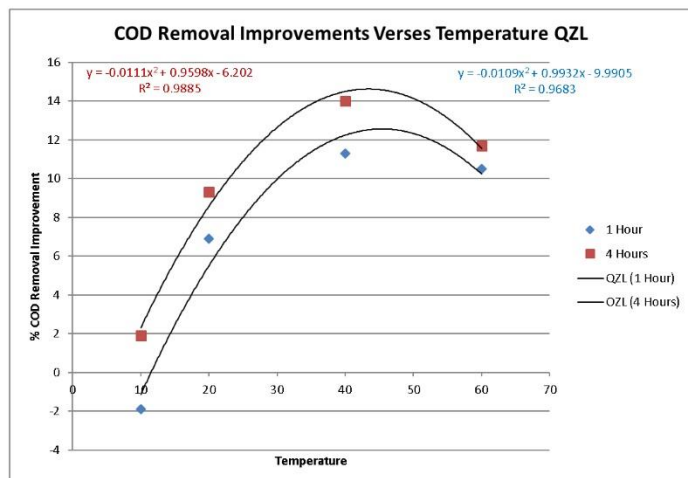
TECHNICAL UPDATE

QWIK-ZYME L



Qwik-Zyme L is the Cadillac of grease treatments. It is like high tech saliva, where the food is digested quickly and enzymatically. This product is very safe

Qwik-Zyme L is an excellent product for sequencing batch reactors (SBR), wastewater treatment plants, equalization tanks, food plants, egg plants and it is a top-of-the-line lift station grease control.



This is not a bacterial product but rather high tech saliva. This means that Qwik-Zyme L incorporates three types of lipid degrading enzymes to provide dramatic hydrolysis of fat, oil, grease (FOG) and resulting fatty acids. Qwik-Zyme L can degrade a range of fatty acids such as oleic, steric, palmitic as well as fish oils, triglycerides, milk, eggs and animal fats.

Ideal pH Range: 7-11

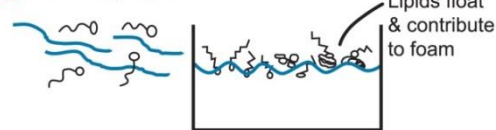
Ideal Temperature Range: 20-60C.

Why is it so important to control fatty acids?

In the winter months, when water temperatures are colder, the naturally occurring bacteria cannot completely break down FOG and the fatty acids that build up in the wastewater plant. These fatty acids are then taken up by filaments like *Microthrix Parvicella* and *Nocardia* which allows them to float and foam. Qwik-Zyme L breaks up these fatty acids and cuts off the filament's food source. It's fascinating science for wastewater operators.

For especially tough issues, use the synergistic combination of Qwik-Zyme L and Foam Buster. Foam Buster alters the bacteria populations so the foam will not return while Qwik-Zyme L helps to get the grease under control.

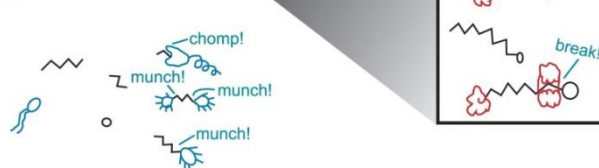
1 Incoming Lipids



2 Meter or Pour in Qwik-Zyme L



3 Microbes get fed too





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DOSE RATES

This product is either metered or poured into the front end of the wastewater process, directly on grease in lift stations, or directly in filter backwash.

Do not spray this product into the air.

| Qwik-Zyme L for Foam <i>Microthrix Parvicella</i> or under 12" AND WWTP Grease | | |
|--|---|---|
| Flow Rate | Initial Dose per day for 30 days | Maintenance Dose per day for days 30 |
| 10,000 GPD | 4 ounces | 2 ounces |
| 50,000 GPD | 1 pint | 0.5 pint |
| 100,000 GPD | 1 quart | 1 pint |
| 200,000 GPD | 2 quart | 1 quart |
| 300,000 GPD | 3 quart | 1.5 quart |
| 400,000 GPD | 4 quart | 2 quart |
| 500,000 GPD | 5 quart | 2.5 quart |
| 1,000,000 GPD | 2.5 gal | 5 quart |
| Use for 60 days or when temp is below 60°F. If above 60°F (15.6°C) after 30 days can cut dose in half. | | |
| For <i>Nocardia</i> – go up 4x this amount, if financially feasible | | |
| 60 Days Total | | |

| Qwik-Zyme L in Lift Stations and Sewer Lines | | |
|---|--------------------------------------|---|
| Flow Rate | Initial Dose – 3 times a week | Maintenance Dose – Once per week |
| 0-250,000 GPD | 1 qt | 1 qt |
| 250,000-500,000 GPD | 2 qt | 2 qt |
| 500,000-750,000 GPD | 3 qt | 3 qt |
| 750,000 GPD – 1,000,000 GPD | 4 qt | 4 qt |
| 1,000,000 GPD + | 5 qt | 5 qt |

| Sand filter backwash application | |
|---|-------------------------|
| Backwash Rate | Sand Filter Dose |
| 5,000 gal | 0.5qt |
| 10,000 gal | 1qt |
| 20,000 gal | 2qt |
| 30,000 gal | 3qt |
| 40,000 gal | 4qt |
| 50,000 gal | 5qt |