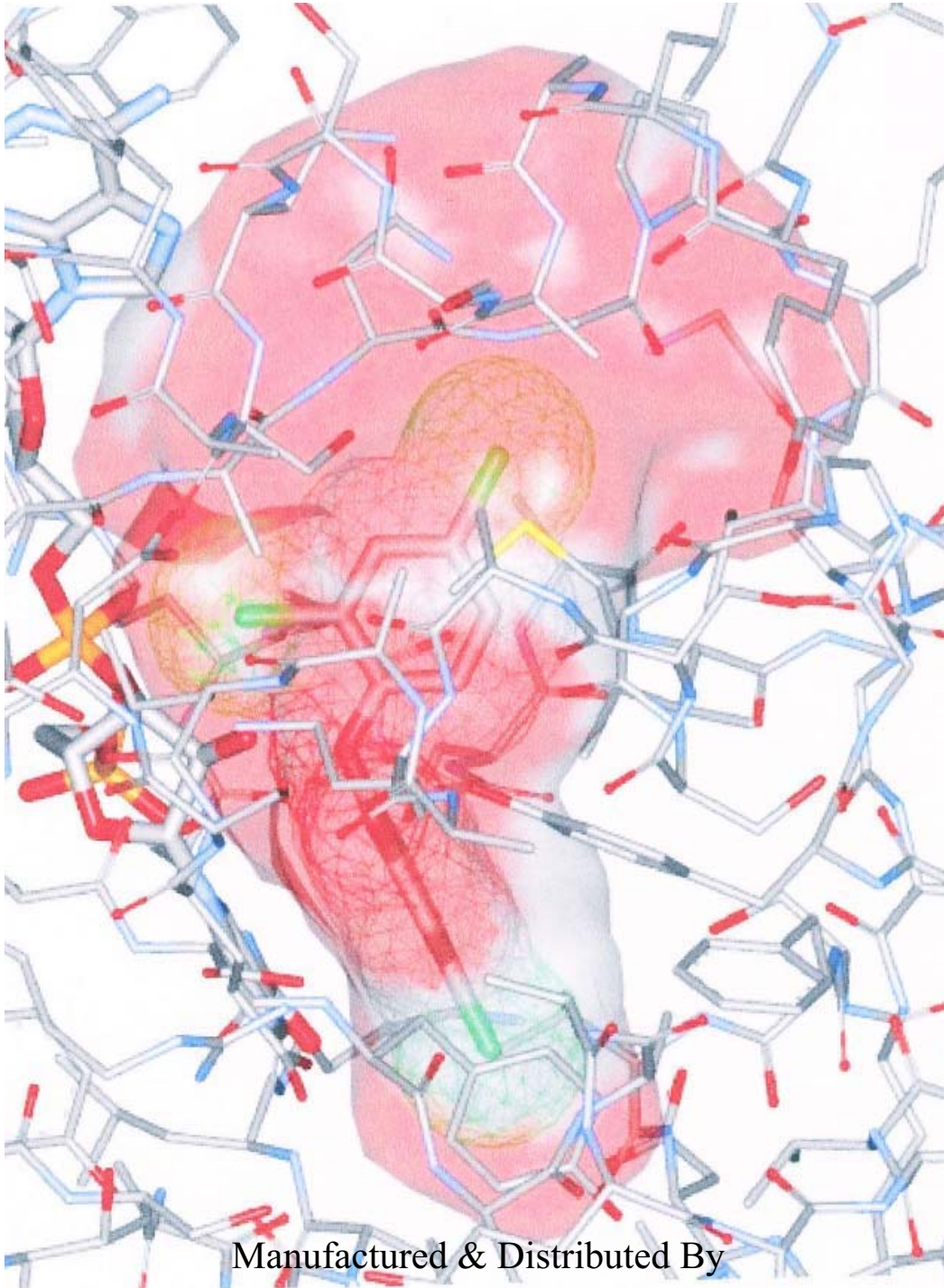


# Bio-Zyme

The Natural Solution To Pollution

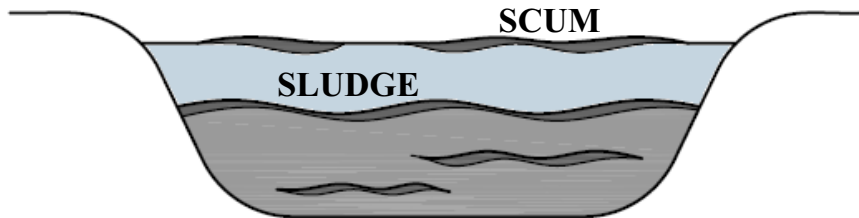


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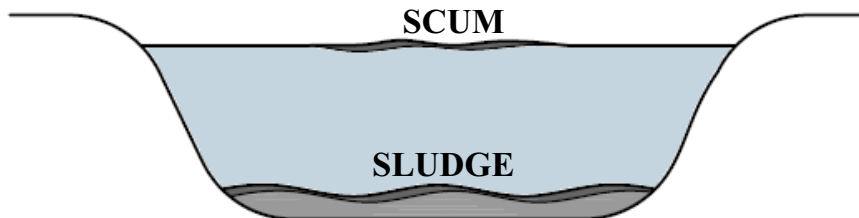
# Before & After Bio-Zyme Treatment



Before BIO-ZYME



A drain pipe loses part of its diameter in 5 years due to Organic Buildup.



After BIO-ZYME



BIO-ZYME helps to restore the pipe to original after a few months of treatment.

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# BIO-ZYME

## The Natural Solution To Pollution

BIO-ZYME is a special blend of 5 scientifically developed enhanced enzymes for faster degradation. Our formulation contains specific nutrients and micro nutrients for superior waste degrading performance. BIO-ZYME acts as a decomposing agent and accelerates the degradation rate of organic waste within your Sewer Lines and System.

Enzyme decomposition is a process that has been going on since the beginning of time. It is a steady process whereby the enzymes utilize organic waste matter as their food and energy source, converting the organic waste into natural elements. BIO-ZYME's friendly enzymes liquefy and digest organic waste all the way to CO<sub>2</sub> and H<sub>2</sub>O. It is a NON-TOXIC, NATURAL SOLUTION TO REDUCE POLLUTION.

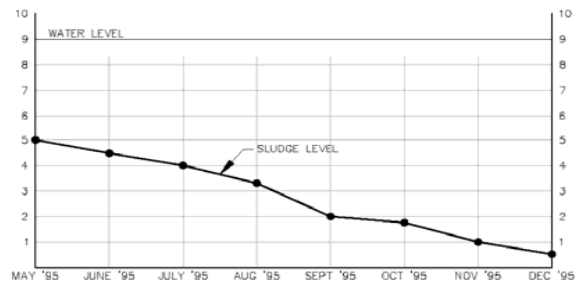
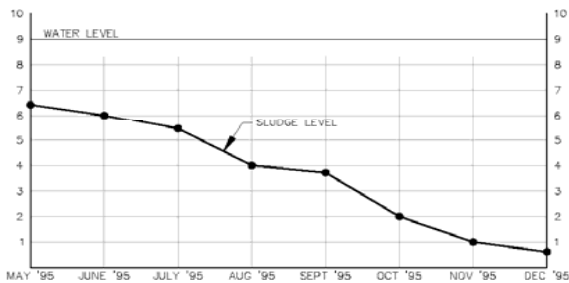
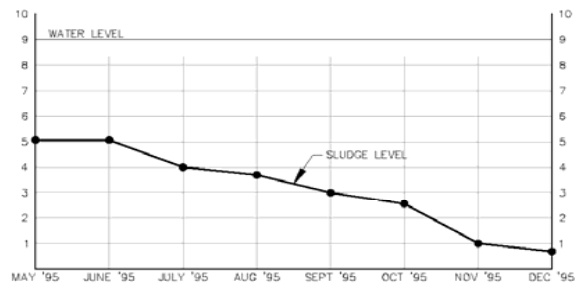
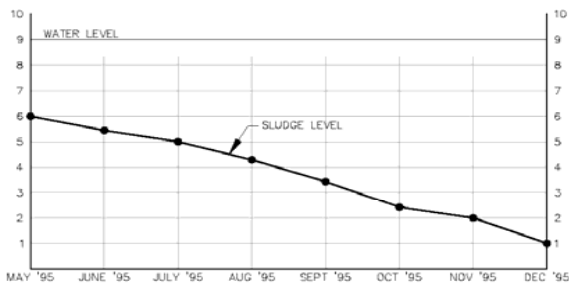
Today our Sewer Systems do not receive adequate bacteria and enzyme supplies from natural sources. The use of modern cleaning agents, detergents and disinfectants kill the bacteria and enzymes in our Sewer Systems, leaving them deficient in quantity to perform their decomposing capabilities, leading to costly repairs and eventual replacement. BIO-ZYME restores and supercharges your Sewer Systems enzyme count by adding over 1 Billion micro-organisms per ounce of product.



- Provides Overall System Stability
- Helps Reduce Costly Repairs
- Degrades Tissue, Detergents, Oils and Greases
- Reduces Frequency of Pumping
- Reduces Tank Solids Accumulation
- Reduces Odors due to Organic Buildup
- Accelerates Enzymatic Degradation
- Improves Percolation In Leach Fields
- Cleans Sewer Lines
- Improves Treatment Performance
- Reduces Sludge In Sewer Lagoons
- Reduces Grease Balls In Lift Stations
- Improves Oxidation
- Works In Anaerobic and Aerobic Conditions

Toxicity Report & MSDS Sheet Available Upon Request

## SIERRA ENTRADA WWTP EFFLUENT PONDS



TREATMENT WITH BIO-ZYME AT A RATE OF INITIAL 16 PPM FOR 2 MONTHS THEN REDUCED TO 8 PPM.

# What Is An Enzyme?

**Enzymes** are bio-molecules that catalyze or increase the rates of chemical reactions. Almost all enzymes are proteins. In enzymatic reactions, the molecules at the beginning of the process are called substrates, and the enzyme converts them into different molecules, the products. Almost all processes in a biological cell need enzymes to occur at significant rates. Since enzymes are selective for their substrates and speed up only a few reactions from among many possibilities, the set of enzymes made in a cell determines which metabolic pathways occur in that cell.

Enzymes work by lowering the activation energy for a reaction; dramatically increasing the rate of the reaction. As with all catalysts, enzymes are not consumed by the reactions they catalyze, nor do they alter the equilibrium of these reactions. However, enzymes do differ from most other catalysts by being much more specific. Enzymes are known to catalyze about 4,000 biochemical reactions. A few RNA molecules called ribo-zymes catalyze reactions, with an important example being some parts of the ribosome. Synthetic molecules called artificial enzymes also display enzyme-like catalysis.

Enzyme activity can be affected by other molecules. Inhibitors are molecules that decrease enzyme activity; activators are molecules that increase activity. Many drugs and poisons are enzyme inhibitors. Activity is also affected by temperature, chemical environment, and the concentration of substrate. Some enzymes are used commercially, for example, in the synthesis of antibiotics. In addition, some household products use enzymes to speed up biochemical reactions.

BIO-ZYME is a scientific formulation of organic acids, buffers, natural biological systems, nutrients and energy systems which balance the natural microbial eco-system to increase bio-oxidation of wastewater which reduces solids and odors.

## Wastewater Treatment Plants

- Improves aeration, reducing mechanical aeration costs.
- Reduces sludge volume and odor.
- Improves treatment efficiency.

## Wastewater Grease Traps

- Emulsifies greases and other organic oils.
- Destroys greases in traps and disposals.
- Reduces grease and oil sludge volume and odor and improves drain efficiency.

Safe & Non-Toxic

MSDS Sheet Available Upon Request

## Wastewater Treatment Lagoons

- Balances microbe activity to enhance oxygen levels in sludge.
- Reduces buildup by converting solids to carbon dioxide.
- An economical alternative to mechanical removal of sludge.

## Sinks and Drains

- Breaks down soaps and film sludge.
- Reduces buildup by converting solids to carbon dioxide.
- Breaks down organic materials including tooth past, soaps, hair and other materials.
- An economical alternative to chemical or mechanical removal of sludge.

Organic · Environmentally Friendly · Safe & Non-Toxic · Economical