

Dairy Processing Case Study



The patented BioAmp system is an innovative and automated system for growing & applying massive doses of vegetative, hungry bacteria that were designed to significantly improve your effluent waste stream and associated environmental concerns and costs.

Dairy processors generate large volumes of water and became our customers because many of them experienced the following issues;

- Wastewater with a high level of COD**
 Only a small amount of milk waste is required in the wastewater to result in high levels of COD.
- Wastewater with a high level of Suspended Solids**
 High levels of suspended solids from milk, fats and proteins.
- Fats, oils and grease**
 High levels of fats oils and grease are inevitable from the dairy processing and can result in costly waste effluent charges or blockages in pipes. Fatty acids are produced as the waste is broken down.
- High Charges**
 With more and more environmental pressure coming from local authorities and utility companies charges and fines are becoming increasingly costly.
- Odour complaints**
 Odour from build up of solids in addition to ammonia and sulphides inherent in the waste can result in odour issues and local complaints
- Wastewater with high levels of ammonia and phosphate**
 Toxic to the environment and can lead to excessive algae growth in water, death of fish and odour issues.
- Ineffective treatment products**
 Many biological products are supplied in their dormant state and require many hours before they become active. Others simply liquefy the waste and move the problem on without solving it.

Parameter	Main Source	Average Reduction using BioAmp System*
COD/BOD	Milk/whey/buttermilk	40-60%
SS	Milk solids/curds	30-50%
Hydrogen sulphide	Waste buildup	50-60%
Ammonia	Milk proteins	35-55%
Phosphate	Casein/Cleaning	50-70%
Fats, oils and grease	Milk, butter, cheese	75-85%
Solids removal	Process	30-50%



*All information is supported by Case Study Data

Talk to us about the associated issues you experience with high contamination of your wastewater systems so we can recommend a solution.



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