

Municipal Wastewater Applications

Wastewater plant operators and collection line managers constantly battle operational problems such as:

- COD / BOD spikes entering plant
- Grease Buildup in Collection Lines
- Complaints about offensive odors from Public

Solving these problems strain already constricting city budgets facing more cuts, in turn creating stress on personnel and equipment.

How can wastewater operators alleviate these problems while reducing their overall operating costs?

Micro-Blaze® FOG is the answer

Micro-Blaze® FOG is used in municipal collection lines, lift stations, and wastewater treatment plants to keep lines free flowing, reduce odors, and make wastewater treatment plants more efficient and effective by treating the waste before it gets to the plant.

Micro-Blaze® FOG does not simply transfer the problem downstream. The microbial consortium actually degrades and digests grease and scum from collection lines and lift stations.

Using **Micro-Blaze® FOG** to pre-treat the organic loads entering their plants can help **reduce these loads by 40% to 60%**.



Benefits:

- Reduces sludge disposal costs by up to 50% or more
- Reduces COD
- Reduces BOD
- Eliminates offensive odors
- Reduces organic loads - Fats, Oils, Greases - that build up in lines and lift stations
- Reduces plant operating demands by pre-treating entire system
- Reduces plant's overall operating costs

Product Characteristics:

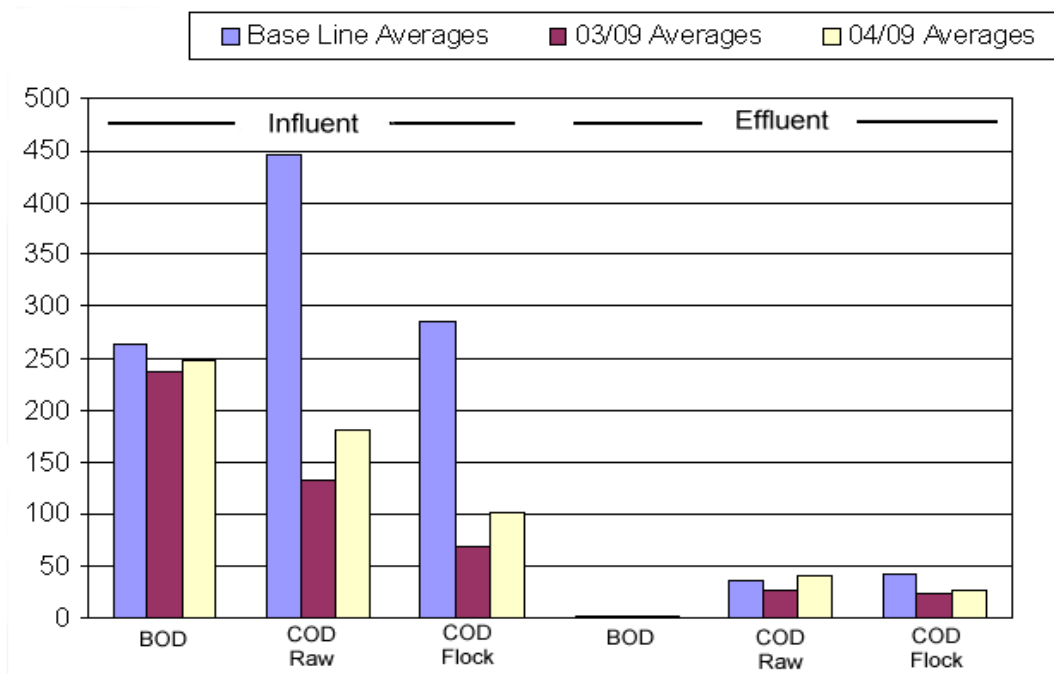
<i>Bacteria Type</i>	Blend of <i>Bacillus</i> spores
<i>Salmonella</i>	Negative
<i>Appearance</i>	Tan liquid
<i>Fragrance</i>	Mild, pleasant fragrance
<i>Shelf-Life</i>	10 years

Safety:

Micro-Blaze® FOG contains only **Biosafety Level Class 1 bacteria**. They are confirmed to be non-pathogenic, non-genetically manipulated, non-harmful species of environmentally beneficial bacteria. These natural bacteria are typically present in all known regions of the world, including local soils and waterways.

Micro-Blaze® FOG is non-hazardous and safe to use by plant personnel using no extra level of PPE, and reduces worker exposure to many toxic treatment products currently used.

Micro-Blaze® FOG Test: This 6 million gallon / day municipal wastewater treatment plant started using **Micro-Blaze® FOG** March 2, 2009 at a rate of 1 gallon of product for every 1 million gallons of influent.



From the baseline averages, the end of March averages showed BOD and COD levels *reduced significantly* using 1 gallon of **Micro-Blaze® FOG** to every 1 million gallons of influent. For April, plant officials tried ½ gallon of **Micro-Blaze® FOG** per 1 million gallons of influent – the April average results were slightly higher than March, but were still considerably lower than the baseline test results.

Dosing with Micro-Blaze® FOG:

Micro-Blaze® FOG should be introduced into the collection lines as far upstream as possible from the WWTP. The initial dosing rate should be one (1) gallon for each million gallons of influent per every 24-hour period. Either daily manual input into a manhole upstream or through a metered system will work well.

After a few months of treatment, many facilities have discovered that daily maintenance can be reduced by half, using only ½ gallon of **Micro-Blaze® FOG** per 1 million gallons of influent, using the same dosing method described above.

Handling:

While there are no special PPE required when using **Micro-Blaze® FOG**, always follow your plant’s PPE program for handling chemicals. Take care not to spray into eyes; stinging may result. Wash hands after handling.

Product Codes:

MB-FOG-5: 5-gal pails **MB-FOG-55:** 55-gal drums **MB-FOG-275:** 275-gal totes