



Bioscience, Inc.
Environmental Products & Services
ISO 9001:2015 Certified

Fat, Oil and Grease and Odor Reductions in a Problem Lift Station

FOG reduction using Microcat® - DNTRF Drain and Trap Bioformula– BSE 063



Problem

The treatment objective was to reduce the amount of fat, oil and grease (FOG) buildup in the lift station. The buildups caused blockages requiring frequent manual pump out of the lift station and operation problems with the floats and pumps. Complaints about odor were also common. Previous attempts with other products had failed.

Product Used

MICROCAT®-DNTRF Drain and Trap Bioformula

Lift Station

Flow: 40-65,000 Gallons/Day (152 – 246 m³/day) - The collection system consists of many lift stations, force mains, gravity fed mains and lateral lines, leading to a large municipal wastewater treatment plant. This particular lift station was chosen for **MICROCAT-DNTRF** application due to its proximity downstream of 8 restaurants and other businesses, and its 20-year history. Historically, the lift station has been pumped once/month to remove FOG and solids with an estimated labor cost of \$500/month. In addition, frequent maintenance of pumps and floats

has been required due to FOG buildup.

Application Program

The application program with **MICROCAT-DNTRF** is based on the flow rates, FOG buildup and other conditions. **MICROCAT-DNTRF** addition is made to the sewer upstream of the wet well.

Results

Since using **MICROCAT-DNTRF** at the lift station, the following benefits have been observed:

1. The grease on the water surface is maintained at a manageable level and consistency.
2. The grease on the walls and ladders rinses away easily.
3. The pumps operate freely and the grease is visibly reduced in the pump lines.
4. The odor from the lift station has been greatly reduced.
5. Labor and maintenance requirements are significantly reduced.
6. Safety concerns are minimized.



MICROCAT-DNTRF is regularly added at maintenance dosages to maintain lift station operation and performance.

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