

CASE STUDY # 68

FAT, OIL AND GREASE AND ODOR CONTROL IN THE SCUM PIT AT A MUNICIPAL WASTEWATER TREATMENT PLANT

SUBJECT: Fat, oil and grease (FOG) and odor control in a municipal wastewater treatment plant.

PRODUCT APPLIED: **MICROCAT®-DNT Drain and Trap Bioformula**



TREATMENT SYSTEM: Collection basin: 8 m³

The scum pit consists of skimmed solids and grease from various sources in the treatment plant. Wastewater overflow from the scum pit is sent back to the headworks of the wastewater treatment plant.

OBJECTIVE:

The treatment objective was to reduce the amount of fat, oil and grease (FOG) buildup in the scum pit. The FOG accumulations in the pit caused blockages within the piping of the treatment system, increased the BOD loading to the WWTP by adding more solids and contaminants to the influent flow and caused odors.

PROGRAM:

The **MICROCAT-DNT** application program for the scum pit is shown in Table 1. The application rate is based on the size of the collection pit and FOG buildup. **MICROCAT-DNT** addition is made directly to the scum pit. **MICROCAT-DNT** is mixed with warm water for 1 – 2 hours before adding it to the pit.

Population Establishment	Days 1– 7	0,45 kg/day
Preventative Maintenance	Days 8+	0,9 kg/week

RESULTS:

Since using **MICROCAT-DNT** in the scum pit, the following benefits have been observed:

1. FOG is dramatically reduced in the scum pit.
2. FOG from the wastewater recycle from the scum pit does not accumulate at the headworks of the wastewater plant.
3. The odor from the scum pit is eliminated.

MICROCAT-DNT is regularly added at maintenance dosages to maintain FOG control and minimize odors.