



**TECHNICAL BULLETIN:  
TREATMENT OF FOG IN WET WELLS & TRANSFER STATIONS**

**1. ENVIRONMENTAL IMPACT OF FATS, OILS & GREASE (FOG)**

FOG arises from household and restaurant discharges escaping overloaded or poorly maintained fat traps. Remaining in solution until temperature falls and turbulence decreases the FOG starts to separate. Typically, this occurs in wet wells and transfer stations and results in build up on the surface that interferes with floats controlling pumps and reducing volume.

**WET WELL: MODERATE -6' CAP**



**WET WELL: SEVERE - 12-18"**



**WET WELL: LOW-MODERATE**



**TRANSFER STATION: SEVERE**



**2. STABILIZATION OF FOG:**

FOG is broken down generally by a metabolic pathway known as beta-oxidation. However, most of the microbes that are efficient at biodegrading FOG are highly sensitive to environmental conditions and are spore formers (inert like plant seeds). These microbes do not easily survive in such environments as wet wells or transfer stations. For decades biological product companies have sold various freeze-dried products and attempted various ways to improve effectiveness. The result has been cheaper less effective products as cost rather than successful treatment became important. ABS has introduced on-site Biofermentation™ an enabling technology that can take any



## **Advanced Biological Services**

*Environmental Pollution Prevention and Control*

microbe, grow active microbes at 100 X the concentration of normal biological products and apply these microbes directly to the site. The result is a process that works to emulsify and start biodegrading FOG.

### **MODEL 250-230V** **1 Ton Per Day Capacity**



### **MODEL 500** **2.5 Ton Per Day Capacity**



### **3. RESULTS OF BIOFERMENTOR™ APPLICATION:**

A wet well with a moderate rating was treated over a 4 week period. After 2 weeks water opened up to 30% and within 4 weeks 60% with no float interference. Within 10-days of stopping dosing the wet well had to be pumped out.

#### **WET WELL TREATMENT: MODERATE RATING**



### **4. BIOFERMENTATION™ PROGRAMS:**

Call ABS @ 904-213-7994 to license your Wet Well Program today.