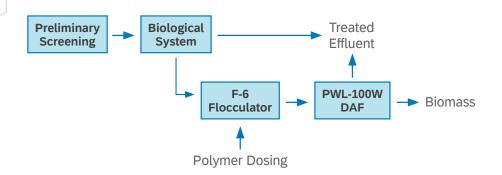
#### WASTEWATER SOLUTION

# **Yogurt Production**



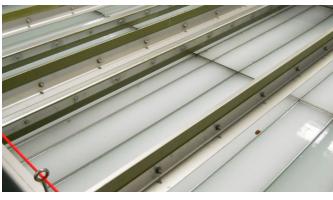


The dairy processing plant in upstate New York produces a variety of yogurt products for distribution in grocery stores around the country.

In the wastewater treatment process a preliminary screen removes bulky solids before the water is treated biologically in a continuous waste activated sludge system. As the biomass grows and is wasted from the system, a DAF tank separates the solids from the water and concentrates them to 3-5% dryness in preparation for conditioning and dewatering.

The effluent from the DAF unit is devoid of solids and is combined with the effluent from the aeration basin for discharge into the sewer line.





	Design Parameters	Discharge Requirements
Flow	920,000 GPD	
MLSS	3000 mg/L	150 mg/L

#### **Source Water**

**Activated Sludge System** 

#### **Equipment Supplied**

PWL-100W DAF Unit F-6 Short Flocculator Electrical Control Panel Pneumatic Controls Access Catwalk

## **DAF Sizing Calculations**

## **Hydraulic Surface Loading Rate**

### **Solids Loading Rate**

=	Weight of TSS in feed in lbs/hr Free Surface Area in sqft		
=	868 lbs/hr x sqft	- = 2.5 lbs/sqft/hr	
=	348 sqft required		