

CASE STUDY #9

Client:	Mrs. Smith Pumpkin Pie Plant
Category:	Food Manufacturing Facility Pumpkin processing and pie manufacturing.
Location:	Pottstown, Pennsylvania USA
Physical Plant:	Two 5,000 gallon alternating holding tanks. Waste stream from retorts only, not from the entire plant.
Capacity:	20,000 gpd average.
Problem:	<ol style="list-style-type: none">1. Extremely high BOD's (35,000 mg/L avg.)2. High TSS (3,500 mg/L avg.)3. Overall plant BOD in excess of 7,500 mg/L4. The average temperature in the holding tanks was 160 F.
Previous Treatment:	Addition of 100 gallons sodium hyperchloride per 3,000 gallons of waste.
Previous Results:	BOD decreased to 10,000 mg/L average. A backup into the preparation area last season prevents future use of this method. The alternative to Biological Treatment was the installation of a Waste Treatment Plant.
Biological Treatment:	11 gallons of PDM-7 MB (Food Manufacturing Blend) was added to each 5,000 gallon tank.
Biological Treatment Results:	BOD decreased to an average of 9,000 mg/L from the tanks and decreased the overall plant BOD to an average of 2,500 mg/L. The lowest plant BOD in the last two years was 5,200 mg/L.