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SYSTEM CASE STUDY: Shamrock Farms – Virginia

FAST FACTS

Project:
- ✓ bioFAS™ MBBR System for Dairy Waste

Industry:
- ✓ Food & Beverage

Application:
- ✓ Biochemical Oxygen Demand (BOD) Removal
- ✓ Total Suspended Solids (TSS) Removal

bioFAS™ MBBR System Benefits/Highlights:

- Efficient reduction of BOD
- Ideal for high and varying loads
- Cost-effective
- Compact footprint & modular
- Easy to operate & maintain
- Easily expandable

Problem:

Shamrock Farms was experiencing high concentrations of BOD and TSS in the wastewater generated during their milk and dairy packaging processes.

Solution:

bioprocessH2O supplied a turnkey installed bioFAS™ Moving Bed Biofilm Reactor (MBBR) biological treatment process to reduce the BOD and TSS concentrations using a single stage bioFAS™ MBBR bioreactor and DAF unit.

Status/Results:

The bioFAS™ MBBR System effectively removes the BOD and TSS allowing the dairy facility to be compliant with the permitted discharge requirements. The modular bioFAS™ MBBR System is also sized and designed for future expansion.

System Design Criteria:

Parameter	Influent	Effluent
Wastewater Flow	250,000 GPD	-
BOD	≤3,000 mg/L	≤250 mg/L
Total Suspended Solids	≤250 mg/L	≤250 mg/L

Contact bioprocessH2O today!