

SYSTEM CASE STUDY: Tradebe – Connecticut



FAST FACTS

Project:

- ✓ bioFAS™ MBBR System
- ✓ bioFLOW MBR System

Industry:

- ✓ Centralized Wastewater Treatment

Application:

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

bioFAS™ MBBR & bioFLOW MBR System Benefits/Highlights:

- ◆ Efficient reduction of BOD
- ◆ Ideal for high and varying loads
- ◆ Cost-effective
- ◆ Fully-automated process
- ◆ Compact footprint & modular
- ◆ Easy to operate & maintain

Problem:

Tradebe is a centralized wastewater treatment and recovery facility. The wastewater is highly loaded with BOD and COD and the local POTW demanded significant reductions in organic loading for discharge to the municipal sewer.

Solution:

bioprocessH2O provided a bioFAS™ MBBR biological treatment process using three (3) 50,000-gallon bioreactors for BOD and COD removal. Wastewater then flows to a bioprocessH2O supplied bioFLOW Membrane (MBR) System for MBBR effluent polishing, biosolids concentration and TSS removal.

Status/Results:

The bioFAS™ MBBR and bioFLOW MBR System effectively removes more than 90% of the COD and virtually eliminates BOD with minimal operator attention to meet local POTW effluent discharge requirements.

System Design Criteria:

Parameter	Influent	Effluent
Wastewater Flow	45,000 GPD	-
BOD	15,000 mg/L	< 250 mg/L
COD	25,000 mg/L	< 2,000 mg/L
TSS	2,000 mg/L	
Turbidity		<0.2 NTU

Contact bioprocessH2O today!

