

SYSTEM STUDY: Onyx Specialty Papers, Inc. – South Lee, MA



FAST FACTS

Project:

- ✓ bioFAS™ MBBR System for Paper Mill

Industry:

- ✓ Pulp & Paper

Application:

- ✓ Biochemical Oxygen Demand (BOD) Removal
- ✓ Formaldehyde 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:

The existing rotating biological contactors (RBCs) were approaching the end of their service life and presented constant operational issues. Additionally, the RBCs were not completely removing the formaldehyde concentrations in the wastewater.

Solution:

bioprocessH₂O supplied a two-stage bioFAS™ MBBR biological treatment process to reduce BOD and formaldehyde at varying flow and organic loading rates.

Status/Results:

The bioFAS™ MBBR System effectively removes BOD by >90% and easily meets the NPDES Discharge Permit Requirements. The system is able to operate with minimal operator attention and oversight. Additional details can be provided by bioprocessH₂O.

System Design Criteria:

Parameter	Influent	Effluent
Wastewater Flow	1,000,000 GPD	-
BOD	60 mg/L	<10 mg/L
Formaldehyde	14.5 mg/L	<0.5 mg/L

Contact bioprocessH₂O today!

