

Bio²Bloc® System Installed to Remove Ammonia at Sandersville, MS Wastewater Treatment Plant

Like many other municipalities, the Town of Sandersville, MS has been challenged to reduce their effluent ammonia discharges. With a small community and a limited budget, the Town selected FBC Technologies' **floating** Bio²Bloc® system to keep wastewater discharges within NPDES limits.

The WWTP consists of a single cell aerated lagoon. The Bio²Blocs® were installed near the effluent end of the system, allowing for nitrification after organics have been digested through the system's retention time. The system was designed to remove 6 mg/L of ammonia per day from this 104,000 GPD facility, and was installed in 2 days. The entire system operates with a single 5-HP blower.



Ammonia Treatment Results

January 2003 (BEFORE the installation): Influent 6.6 mg/L, Effluent 5.4 mg/L.

February 5, 2003 (Five days AFTER installation): Influent 7.6 mg/L, Effluent 4.2 mg/L.

February 20, 2003: Influent 3.6 mg/L, Effluent 1.8 mg/L.

March 20, 2003: Influent 4.5 mg/L, Effluent 0.9 mg/L.

Removal of 18.2%

Removal of 44.7%

Removal of 50%

Removal of 80%

