



Treatment Plant Footprint: 120 ft X 40 ft

MUNICIPAL		
	Influent	Effluent
FLOW	30,000 gpd	30,000 gpd
BOD5	200 mg/l	<30 mg/l
TSS	200 mg/l	<30 mg/l
TKN	45 mg/l	
TN		<10mg/l

Otis Municipal WWTP, MA

The town of Otis Massachusetts qualified for Rural Utility Service funding from the Department of Agriculture to provide sewer for a portion of the community. Their engineering firm Camp Dresser & McKee selected an Aquapoint Bioclere™ wastewater treatment system because of the stability of the fixed film treatment process and the low installation and operation costs. The system is owned and operated by the municipality as part of a distributed network of wastewater infrastructure. Bioclere's compact footprint minimized land usage and the impact on the surrounding community.

The project was permitted under Massachusetts Ground Water Discharge Standards requiring a level of treatment that would preserve the life of the drain field and reduce nutrient loading to the groundwater.

Treatment Components & Processes:

- (2) Parallel 20,000 gallon primary settling tanks.
- (1) 10,000 gallon Pre-Equalization chamber.
- (2) Trains of (2) Biocleres in series.
- First stage Bioclere performs secondary treatment (BOD₅ & TSS reduction).
- Second stage Bioclere is designed to nitrify ammonia to <2 mg/l.
- (1) 5,000 gallon Post-Equalization chamber.
- (1) Anoxic denitrifying sand filter provides tertiary denitrification and filtration.
- (2) Parallel UV disinfection units disinfect treated effluent .
- (1) Pressure fed soil absorption field for discharge .

