



Treatment Plant Footprint: 30 ft X 24 ft

## Ridge Club Sandwich, MA

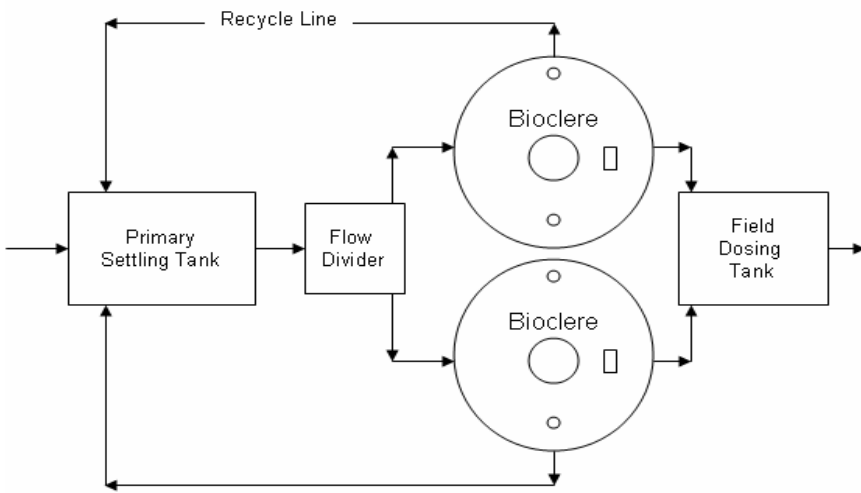
The Ridge Club is a twenty-four home community and golf club on Cape Cod. Because Cape Cod has a fragile sole source aquifer that is sensitive to nitrogen loading, the state required that half of the homes be placed on denitrifying treatment systems. The developer chose to install a shared Bioclere™ system for all of the homes because the initial capital cost, and costs for installation and operation & maintenance (O&M), were significantly lower for the entire cluster system than they were for twelve individual systems.

The treatment plant is owned by the 24 home owners and funds for O&M and replacement costs are accrued under a community trust agreement. O&M costs for the shared system are approximately 10% of what the costs would have been had half of the homes installed an individual system.

RESIDENTIAL		
	Influent	Effluent
<b>FLOW</b>	7,250 gpd	7,250 gpd
<b>BOD<sub>5</sub></b>	200 mg/l	<30 mg/l
<b>TSS</b>	200 mg/l	<30 mg/l
<b>TKN</b>	45 mg/l	
<b>NH<sub>4</sub></b>		<5 mg/l
<b>TN</b>		<19mg/l

### Treatment Components & Processes:

- A gravity collection system feeds a common 8,000 gallon primary settling tank.
- Primary settled wastewater flows by gravity to a dual weir flow splitter box designed to distribute water equally to (2) biological trains.
- (2) Aquapoint Bioclere trickling filters in parallel are designed to achieve simultaneous BOD<sub>5</sub> oxidation and nitrification of ammonia.
- The nitrified Bioclere effluent is re-circulated to the influent end of the septic tank where there is sufficient carbon to denitrify and restore alkalinity.
- Final effluent is distributed under pressure to a soil absorption field located under a putting green.



**Aquapoint Inc.**  
 259A Samuel Barnet Blvd.  
 New Bedford, MA, 02745  
 (508) 998-7577 (Sales ext: 6)  
[www.aquapoint.com](http://www.aquapoint.com)