



*Lagoon Aeration System*

The Quechee Wastewater Treatment facility was constructed in the mid-1970's with aerated lagoons followed by clarification, filtration and disinfection. Dufresne Group provided preliminary, final design and construction phase services to accomplish system improvements and facility maintenance operations including the following items:

1. Replacement of the aeration system for both lagoons with a Parkson Biolac system and new blowers.
2. Replacement of one blower and motor for the filter system.
3. Replacement of the duplex sludge blow-off pumps for the clarifier system.
4. Replacement of the clarifier and sand filter control system.
5. Clean sludge from both lagoons.

## KEY FEATURES:

- Three new blowers for the aeration system provide an additional unit for redundancy.
- Replacement of aeration system increases treatment system efficiency.
- Lagoon sludge removal and cleaning operation removed 600,000 gallons of material.
- Equipment replacement eliminated frequent repair work and increase automatic operation capabilities.