



Project Profile

Town of Rotterdam, NY
Wastewater Treatment Plant

Ultraviolet Disinfection System

Licensed Operators:	Michael Tessitore, Glenn Miller
Town Engineer:	Elizabeth M. Perry, P.E.
Town Supervisor:	Joseph M. Signore
Project Consultant:	CT Male Associates, P.C.

Project Summary:

The facility discharge permit requires year-round effluent disinfection. In order to address long-term disinfection safety and regulatory concerns, the existing gas chlorination system was replaced with an Ultraviolet Irradiation disinfection system.

The Trojan UV4000 system provides the Town with safe, economical, and reliable disinfection. Chemical handling safety considerations have been eliminated for effluent disinfection. O&M savings are substantial, as the system automatically responds to changing effluent conditions.

Operator safety is a paramount issue at municipal facilities. UV disinfection is very safe. Maintenance is limited to periodic lamp replacement; the in-place lamp cleaning is automatic. Facilities are facing more complex regulations and public awareness for chemical handling and storage. The Town is now prepared to address these concerns well into the future.

Plant Data:

Average/Peak Design Flow	0.9 MGD/3.0 MGD
Effluent TSS	< 30 mg/l
Disinfection Standard	< 200/100 ml Fecal Coliform (30 day geometric mean)

Trojan Technologies, Inc. System UV 4000LF

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| <ul style="list-style-type: none"> # 8 Total Lamps - Varying Lamp Output # Master PLC-based Control System # UV Lamp Intensity Monitoring | <ul style="list-style-type: none"> # Automatic Chemical and Mechanical Lamp Cleaning System # Provisions to meet future flows |
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