



This Management Plan identifies some basic requirements for proper operation and maintenance of the Norweco Singulair Model AT 1500 Ultraviolet Light (UV) disinfection device for residential use. Refer to Norweco’s detailed Operation and Maintenance Manual for detailed instructions on proper operation and maintenance requirements.

Information regarding the Norweco Singulair UV disinfection device can be found at the Minnesota Pollution Control Agency’s website at:

<http://www.pca.state.mn.us/programs/ists/productregistration.html>.

SYSTEM COMPONENT	TASK	FREQUENCY	RESPONSIBLE PARTY
Singulair UV disinfection device	Monitor alarm ¹	On-going	Homeowner
	Check influent/effluent quality odor, color, turbidity	Every six months before cleaning and replacing the bulb	Homeowner or Service Provider
	Collect sample for fecal coliform bacteria	Every six months before cleaning and/or replacing the bulb	Service Provider
	Clean bulb ²	Every six months	Service Provider
	Replace bulb ²	May be needed if sampling results do not meet prescribed Treatment Level A or B	Service Provider
		A minimum of every two years per manufacturer requirements	Service Provider

1 Alarm activation as indicated by an audible or visual sign indicates the UV light bulb which disinfects the effluent may be malfunctioning. The homeowner is required to contact the Service Provider immediately to have the bulb assessed and fixed. This is a condition of the operating permit – to keep the UV bulb in working order.

2 The UV light on this wastewater treatment system has the potential to cause serious eye damage if you look directly at the UV light. The UV light **should never** be looked at directly. Only trained Service Providers can clean and replace UV light bulbs.

Additional sampling requirements are specified in local operating permits. The protocol for collection of wastewater samples is specified in the Norweco Singulair O&M manual.