



Treatment Optimization Program






The Washington Treatment Optimization Program (TOP) is an effort to improve performance of surface water treatment facilities. TOP focuses on particle removal and disinfection to maximize public health protection from microbial contaminants.

The Washington Department of Health has adopted performance goals for all rapid rate surface water treatment plants in the state.



Optimized Performance




Filtration

-  Filtered water turbidity ≤ 0.10 NTU 95 percent of the time, based upon maximum daily values recorded.
-  Filtered water ≤ 0.10 NTU within 15 minutes of filter being in production.
-  Maximum filtered water turbidity ≤ 0.30 NTU.
-  Filters are backwashed before breakthrough.
-  Raw water turbidity changes do not affect filtered water turbidity.



Disinfection

-  Required CT values are achieved at all times.

Turbidity Monitoring

-  Raw water turbidity is monitored at least every 4 hours.
-  Effluent turbidity is continuously recorded for each filter.
-  Combined filter effluent turbidity is continuously recorded.

Sedimentation

-  Settled water turbidity ≤ 2 NTU 95 percent of the time when annual average source turbidity > 10 NTU.
-  Settled water turbidity ≤ 1 NTU 95 percent of the time when annual average source turbidity ≤ 10 NTU.

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