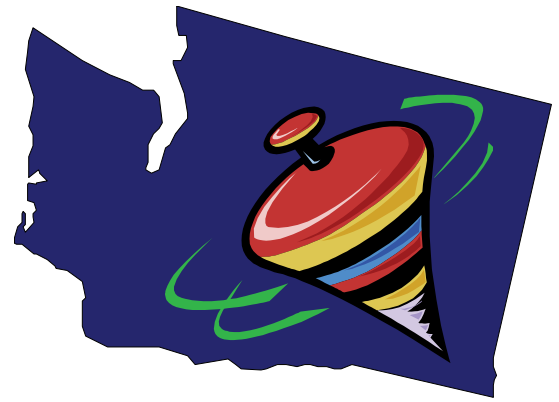


# Treatment Optimization Program






The Washington Treatment Optimization Program (TOP) is an effort to improve the 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 is less than 0.10 NTU 95 percent of the time, based upon maximum daily values recorded (systems without filter-to-waste may exclude 15 minutes after filter backwash).
-  Filtered water is below 0.10 NTU within 15 minutes of filter being in production.
-  Maximum filtered water turbidity is 0.30 NTU.
-  Filters are backwashed before breakthrough.
-  Raw water turbidity changes do not affect filtered water turbidity.




### Sedimentation

-  Settled water turbidity is  $\leq 2$  NTU 95 percent of the time when annual average source turbidity  $> 10$  NTU.
-  Settled water turbidity is  $\leq 1$  NTU 95 percent of the time when annual average source turbidity  $\leq 10$  NTU.

### 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.

For more information about TOP, please contact Stephen Baker at 360-236-3138 or [stephen.baker@doh.wa.gov](mailto:stephen.baker@doh.wa.gov)



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