

1. RESIDUAL DISINFECTANT

Location	Frequency	Details
Entry Point to the Distribution System	<ul style="list-style-type: none"> Continuously monitor the residual disinfectant concentration at the entry point(s) to the distribution system. If monitoring equipment fails, you can take grab samples every 4 hours instead, but for no more than 5 working days. 	<ul style="list-style-type: none"> The concentration cannot be less than 0.2 mg/L for more than 4 hours. Record and report to your primacy agency the lowest daily value.
In the Distribution System	<ul style="list-style-type: none"> Monitor the residual disinfectant concentration in the distribution system at the same time and place as you take total coliform samples. 	<ul style="list-style-type: none"> Residual disinfectant concentration must be detected in at least 95% of all samples taken every month, for any 2 consecutive months.

Can I perform grab sampling instead of continuous disinfectant residual monitoring?

Systems serving 3,300 or fewer people can take grab samples instead of providing continuous monitoring. Contact your primacy agency for more information.

Do I have to monitor the disinfectant residual in the distribution system?

You can measure the heterotrophic bacteria concentration instead. A heterotrophic bacteria concentration of less than or equal to 500 cfu/mL, measured as heterotrophic plate count, is considered a detectable residual disinfectant.

2. COMBINED FILTER EFFLUENT (CFE) TURBIDITY

Sampling Frequency	CFE Turbidity in 95% of samples taken every month	Maximum CFE Turbidity
Once every 4 hours (if your system serves 500 or fewer people, with primacy agency approval you can sample once per day)	Less than or equal to (\leq) 0.3 NTU	1 NTU

3. INDIVIDUAL FILTER EFFLUENT (IFE) TURBIDITY

- Continuously monitor IFE turbidity (record every 15 minutes).
- If monitoring equipment fails, you can take grab samples every 4 hours instead, but for no more than 14 days.
- Follow-up action is required in certain circumstances.

If a filter's turbidity exceeds 1.0 NTU in 2 consecutive recordings, 15 minutes apart. Report this to your primacy agency by the 10th of the next month. Include the filter number, date that this occurred, turbidity value over 1.0 NTU, and the reason for the exceedance (if known).

If a filter's turbidity exceeds 1.0 NTU in 2 consecutive recordings 15 minutes apart for 3 consecutive months. Conduct a filter self-assessment within 14 days of being notified of the third monthly exceedance.

If a filter's turbidity exceeds 2.0 NTU in 2 consecutive readings 15 minutes apart for 2 consecutive months. Arrange to have a Comprehensive Performance Evaluation (CPE) conducted within 60 days after the filter exceeded 2.0 NTU for the second consecutive month. The CPE has to be completed and submitted to your primacy agency within 120 days after the filter exceeded 2.0 NTU for the second straight month.

Besides sampling, what else are we required to do?

There are requirements on what you must report to your primacy agency by the tenth day of the following month and requirements on how and when to notify your customers if you have a violation. In addition to monitoring and reporting requirements there are disinfection and filtration requirements. Contact your primacy agency if you have any questions regarding these requirements.

I intend to make a change in my treatment process. Do I need to complete a disinfection profile?

A disinfection profile and benchmark is required if you make a significant change to your treatment process. Significant changes include: changing the point at which you disinfect, changing the type of disinfectant you use, changing the disinfectant process, and any other changes that your primacy agency considers "significant." Consult your primacy agency before you make any treatment changes.

Where can I find more information on these requirements?

You can find more information on these requirements by visiting EPA's website on microbial and disinfection byproduct rules at www.epa.gov/safewater/disinfection, contacting your primacy agency, or by calling EPA's Safe Drinking Water Hotline at: 1.800.426.4791.