

DISINFECTANT & DISINFECTION BYPRODUCTS SAMPLE PLAN CHLORINE DIOXIDE & CHLORITE

This sample plan will identify the locations at which Chlorine Dioxide and Chlorite samples will be taken. The sample points must be at approved locations.

Disinfectant—Maximum Residual Disinfectant Level:

- Daily chlorine dioxide (ClO₂) measurements must be taken at the entry point to the distribution system. If chlorine dioxide > 0.8 mg/L, three follow-up distribution chlorine dioxide samples must be taken the following day. The three samples must be taken as close to the first customer/connection as possible and at least 6 hours apart.
- An MCL violation occurs if the 1st day and any 2nd day sample is > 0.8 mg/L. This is a Tier 1 violation. A failure to take the samples on the 2nd day results in a Tier 1 violation.

Disinfection Byproduct—Chlorite:

- Daily Chlorite (ClO₂⁻) measurements must be taken at the entry point to the distribution system. If chlorite > 1.0 mg/L, three distribution samples (a 3 sample set) must be taken the following day, one as close to the first customer/connection as possible, one at an average residence time site, and one at a maximum residence time site.
- In addition, monthly chlorite measurements must be taken at the three distribution sites (a 3 sample set), one as close to the first customer/connection as possible, one at an average residence time site, and one at a maximum residence time site.
- An MCL violation occurs if the arithmetic average of the 3 sample set is > 1.0 mg/L, either as a result of the trigger from daily chlorite or monthly chlorite monitoring. This is a Tier 2 violation.

1. A total of four sample points must be established, one at the Entry Point to the Distribution System and three in the distribution system. For the distribution system, there must be sample points that represent 1) as close to the first customer/connection, 2) average residence time, and 3) maximum residence time—a point where the water has traveled the greatest distance/time from the source to the tap or service connection. Please identify in detail (e.g. address, fixture, building) the locations at which these samples will be taken.

Sample	Location	Sample Site Type	Used for:
1		Entry Point to Distribution System	Daily Chlorite Daily Chlorine Dioxide
2		First customer/connection	Monthly & Exceedance Chlorite Exceedance Chlorine Dioxide
3		Average Residence Time	Monthly & Exceedance Chlorite
4		Maximum Residence Time	Monthly & Exceedance Chlorite

2. Attach a map or sketch of the distribution system, and identify the location(s) of the treatment plant and sample points.

3. _____ (_____) _____
 Print Name Telephone Number

 Signature Date

For Questions Please Contact:
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