



Reminder: Chlorine Dioxide and Chlorite – Daily Entry Point Sample Exceedance Requirements

This is a reminder for water systems that currently use chlorine dioxide to treat water and are required to collect daily chlorine dioxide and chlorite samples at the entry point. If a daily entry point sample for chlorine dioxide or chlorite exceeds the allowable level, then the system must collect distribution system samples the next day. These requirements are summarized below, however, if your system does have a daily chlorine dioxide or chlorite exceedance at the entry point, we recommend contacting the DBP Rule Manager as soon as possible for assistance in determining what additional monitoring and/or public notice is required.

Chlorine Dioxide

If a daily entry point chlorine dioxide result exceeds the maximum residual disinfectant level (MRDL) of 0.8 mg/L, then distribution system samples must be collected the next day as follows:

- For systems using chlorine dioxide or chloramines to maintain a disinfectant residual in the distribution system, or use chlorine to maintain a disinfectant residual in the distribution system and do not have any disinfection addition points after the entrance to the distribution system (i.e., booster disinfection): take three (3) samples as close to the first customer as possible, at intervals of at least 6 hours. [§141.132(c)(2)(ii)].
- For systems using chlorine to maintain a disinfectant residual in the distribution system and have one or more disinfection addition points after the entrance to the distribution system (i.e., booster disinfection), one sample must be collected at each of the following locations: as close to the first customer as possible, in a location representative of average residence time, and as close to the end of the distribution system as possible (reflecting maximum residence time in the distribution system). [§141.132(c)(2)(ii)].

If any of the next day samples exceed the MRDL, then this is an acute MRDL violation [§141.133(c)(2)(i)]. Failure to collect these samples will also result in an acute MRDL violation. Acute violations for the exceedance of the chlorine dioxide MRDL require a Tier 1 public notification which must be completed within 24 hours.

Chlorite

If a daily entry point chlorite result exceeds the maximum contaminant level (MCL) of 1.0 mg/L, then distribution system samples must be collected the next day at the following sites: as close to the first customer as possible, in a location representative of average residence time, and as close to the end of the distribution system as possible (reflecting maximum residence time in the distribution system). [§141.132(b)(2)(ii)].