

**Effective June 1, 2018, Env-Dw 715 reads as follows:****PART Env-Dw 715 DISINFECTION RESIDUALS, BYPRODUCTS, AND BYPRODUCT PRECURSORS**

Env-Dw 715.01 Purpose. The purpose of these rules is to establish procedures and standards for the control of disinfectant residuals, disinfection byproducts, and disinfection byproduct precursors by public water system O/Os, as specified in 40 CFR 141 Subpart L, §§130-135, 40 CFR 141 Subpart U, §§600-605, and 40 CFR 141 Subpart V, §§620-629, which, pursuant to 40 CFR 141.1, constitute national primary drinking water requirements.

Env-Dw 715.02 Applicability. This part shall apply to:

- (a) Each community water system or non-transient non-community water system at which any chemical disinfectant, including chlorine dioxide, is added to the water in any part of the treatment process; and
- (b) Each transient non-community water system at which chlorine dioxide is added as a disinfectant or oxidant to the water in any part of the treatment process.

Env-Dw 715.03 Definitions.

- (a) “Combined distribution system” means “combined distribution system” as defined in 40 CFR § 141.2, reprinted in Appendix B.
- (b) “Conventional filtration” means “conventional filtration treatment” as defined in 40 CFR § 141.2, reprinted in Appendix B.
- (c) “Dual sample set” means “dual sample set” as defined in 40 CFR § 141.2, reprinted in Appendix B.
- (d) “GAC10” means “GAC10” as defined in 40 CFR § 141.2, reprinted in Appendix B.
- (e) “GAC20” means “GAC20” as defined in 40 CFR § 141.2, reprinted in Appendix B.
- (f) “Locational running annual average” means “locational running annual average” as defined in 40 CFR § 141.2, reprinted in Appendix B.
- (g) “PWS subject to this part” means a public water system that is in one of the categories listed in Env-Dw 715.02.
- (h) “Wholesale system” means “wholesale system” as defined in 40 CFR § 141.2, reprinted in Appendix B.

Env-Dw 715.04 Increasing Residual Disinfectant Levels. Notwithstanding the maximum residual disinfectant levels (MRDLs) specified in Env-Dw 700, the O/O of a PWS subject to this part may increase the distribution system residual disinfectant levels of chlorine or chloramines, but not chlorine dioxide, pursuant to 40 CFR § 141.130(d).

Env-Dw 715.05 Analytical Requirements. The O/O of a PWS subject to this part shall conduct analyses as specified in 40 CFR § 141.131.

Env-Dw 715.06 Monitoring Requirements.

- (a) The O/O of a PWS subject to this part shall conduct sampling and monitoring as specified in 40 CFR § 141.132 and § 141.133.
- (b) Multiple wells for which a disinfectant is added at multiple separate points shall be considered as one treatment plant for determining the minimum number of TTHM and HAA5 samples specified in 40 CFR § 141.132, in accordance with the following criteria:

- (1) Routine monitoring at a frequency specified in 40 CFR § 141.132 shall have been performed for a minimum of one year;
- (2) Running annual average results shall be less than 0.040 mg/L for TTHM and less than 0.030 mg/L for HAA5;
- (3) For overburden wells, multiple wells shall be located within the same aquifer as determined using the stratified drift aquifer mapping of the U.S. Geological Survey;
- (4) For bedrock wells, multiple wells shall be located within an area of less than 4,000 feet in radius; and
- (5) The water quality of the multiple wells shall be within the following limits:
  - a. pH within 0.5 units, using one of the analytical methods specified in 40 CFR § 141.23(k);
  - b. Total hardness within 10 mg/L, as CaCO<sub>3</sub>;
  - c. Alkalinity within 10 mg/L, as CaCO<sub>3</sub>; and
  - d. Conductivity within 50 µmhos/cm<sup>2</sup>.

(c) If running annual average results for multiple wells initially considered as one treatment plant in (b), above, subsequently exceed 0.040 mg/L for TTHM or 0.030 mg/L for HAA5, each well shall then be considered as a separate treatment plant for monitoring purposes, subject to the routine and reduced monitoring frequency requirements specified in 40 CFR § 141.132.

Env-Dw 715.07 Compliance Determination. The department shall determine compliance with the requirements of Env-Dw 715.06 by a PWS subject to this part as specified in 40 CFR § 141.133.

Env-Dw 715.08 Reporting and Recordkeeping Requirements. The O/O of a PWS subject to this shall report to the department as specified in 40 CFR § 141.134 and § 141.639.

Env-Dw 715.09 Treatment Technique for Control of Disinfection Byproduct Precursors. The O/O of a SW/GWUDISW system that is in one of the categories listed in Env-Dw 715.02 and that uses conventional filtration shall meet the requirements of 40 CFR § 141.135 relative to treatment techniques for control of disinfection byproduct precursors.

Env-Dw 715.10 Initial Distribution System Evaluations and Stage 2 Disinfection Byproduct Requirements. The following shall comply with the requirements of 40 CFR §§ 141.600-605 relative to initial distribution system evaluations and 40 CFR §§ 141.620-629 relative to stage 2 disinfection byproducts requirements:

- (a) The O/O of a community water system that uses a primary or residual disinfectant other than ultraviolet light or delivers water that has been treated with a primary or residual disinfectant other than ultraviolet light;
- (b) The O/O of a non-transient non-community water system that uses a primary or residual disinfectant other than ultraviolet light or delivers water that has been treated with a primary or residual disinfectant other than ultraviolet light; and
- (c) The O/O of a transient non-community water system that uses chlorine dioxide or delivers water that has been treated with chlorine dioxide.

**APPENDIX A: STATUTES/REGULATIONS IMPLEMENTED**

<b>Rule Section(s)</b>	<b>State Statute(s) Implemented</b>	<b>Federal Regulation(s) Implemented</b>
Env-Dw 715	RSA 485:3, I(c) RSA 485:41, II & IV	40 CFR 141 Subpart L (§§130-135); 40 CFR 141 Subpart U (§§600-605); 40 CFR 141 Subpart V (§§620-629)

**APPENDIX B: FEDERAL DEFINITIONS FOR ENV-DW 715****40 CFR §141.2**

*Combined distribution system* means an interconnected distribution system consisting of the distribution systems of wholesale systems and of the consecutive systems that receive finished water.

*Conventional filtration treatment* means a series of processes including coagulation, flocculation, sedimentation, and filtration resulting in substantial particulate removal.

*Dual sample set* means a set of two samples collected at the same time and same location, with one sample analyzed for TTHM and the other sample analyzed for HAA5. Dual sample sets are collected for the purposes of conducting an IDSE under subpart U and determining compliance with the TTHM and HAA5 MCLs under subpart V.

*GAC10* means granular activated carbon filter beds with an empty-bed contact time of 10 minutes based on average daily flow and a carbon reactivation frequency of every 180 days, except that the reactivation frequency for GAC10 used as a best available technology for compliance with subpart V MCLs under §141.64(b)(2) shall be 120 days.

*GAC20* means granular activated carbon filter beds with an empty-bed contact time of 20 minutes based on average daily flow and a carbon reactivation frequency of every 240 days.

*Locational running annual average (LRAA)* means the average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.

*Wholesale system* means a public water system that treats source water as necessary to produce finished water and then delivers some or all of that finished water to another public water system. Delivery may be through a direct connection or through the distribution system of one or more consecutive systems.