



Ohio Administrative Code

Rule 3745-81-71 General requirements for filtration and disinfection of surface water sources.

Effective: October 5, 2013

(A) Rules 3745-81-71 to 3745-81-75 of the Administrative Code are derived from national primary drinking water regulations. The treatment technique requirements of this rule are established in lieu of maximum contaminant levels for the following contaminants: Cryptosporidium, Giardia lamblia, viruses, heterotrophic plate count bacteria, Legionella, and turbidity. Each public water system using a surface water source, in whole or in part, shall provide treatment of that source water which complies with the treatment technique requirements of this rule. The treatment technique requirements consist of installing and properly operating water treatment processes which consistently and reliably achieve the following:

- (1) At least 99.9 per cent (3 log) removal and/or inactivation of Giardia lamblia cysts between a point where the raw water is not subject to recontamination by surface water runoff and a later point before or at the first customer.
- (2) At least 99.99 per cent (4 log) removal and/or inactivation of viruses between a point where the raw water is not subject to recontamination by surface water runoff and a later point before or at the first customer.
- (3) At least 99.0 per cent (2 log) removal of Cryptosporidium between a point where the raw water is not subject to recontamination by surface water runoff and a later point before or at the first customer.

(B) A public water system using a surface water source, in whole or in part, shall be in compliance with paragraph (A) of this rule if the public water system meets the filtration requirements of rule 3745-81-73 of the Administrative Code and the disinfection requirements of rule 3745-81-72 of the Administrative Code.

(C) The owner of a public water system using a surface water source, in whole or in part, shall place the operation of the public water system under the supervision of an operator of record. The operator



of record shall have a valid certification in accordance with Chapter 3745-7 of the Administrative Code.

(D) "Uncovered finished water storage facility" means a tank, reservoir, or other facility used to store water that will undergo no further treatment except residual disinfection and is open to the atmosphere. Systems are not permitted to begin construction of uncovered finished water storage facilities. Failure to comply with this requirement is a treatment technique violation.

(E) A new surface water source shall be sampled for twelve consecutive months and analyzed for the contaminants that are listed in the appendix to this rule, "Required Analyses for New Surface Water Sources." The director may reduce or add to the contaminants that are listed in the appendix to this rule because of treatment, promulgated drinking water standards, or other criteria. Other criteria may include existing or emerging contaminants which may pose a threat to public health. Samples collected from a public water system surface water source shall be analyzed in a laboratory certified to analyze drinking water for contaminants in accordance with Chapter 3745-89 of the Administrative Code. The analytical methods shall be the same as required by the entry point to the distribution system monitoring in accordance with rule 3745-81-27 of the Administrative Code and shall include all the volatile organic and synthetic organic analytes that are quantified by the laboratory for the organic analytical method. Cryptosporidium samples for new surface water sources shall be collected in accordance with the source monitoring requirements in rules 3745-81-65 and 3745-81-66 of the Administrative Code.